

Ohlasy / Citations, reviews

Institute: SAVCHEM - Chemický ústav SAV

Date of citation, review: 2015~2020

Citations, reviews

Citations in Web of Science Core Collection (1.1, 2.1)	16865
Citations in SCOPUS (1.2, 2.2)	1861
Citations in other citation indexes and databases (not listed above) (3.2, 4.2)	238
Other citations (not listed above) (3.1, 4.1)	171
Reviews (5, 6)	0

Count

19135

AAA Scientific monographs published abroad

AAA01 GEMEINER, Peter. *Enzyme Engineering : Immobilized Biosystems*.

Chichester, Bratislava : Ellis Horwood, Alfa Publisher, 1992. ISBN 0132782278

Ohlasy:

1. [1.1] ASLI, Umi Aisah - NWAHA, Isah - HAMID, Hazirah - ZAKARIA, Zainul Akmar - SADIKIN, Aziatul Niza - KAMARUDDIN, Mohd Johari. A KINETIC STUDY OF ENZYMATIC HYDROLYSIS OF OIL PALM BIOMASS FOR FERMENTABLE SUGAR USING POLYETHYLENE GLYCOL (PEG) IMMOBILIZED CELLULASE. In JURNAL TEKNOLOGI. ISSN 0127-9696, 2016, vol. 78, no. 8-3, pp. 51-57., Registrované v: WOS
2. [1.1] ILIEV, I. N. - MARUDOVA, M. G. - CHOLEV, D. S. - VASILEVA, T. A. - BIVOLARSKI, V. P. - VIRANEVA, A. P. - BODUROV, I. P. - YOVCHEVA, T. A. Kinetic studies of beta-galactosidase immobilized in chitosan/xanthan multilayers. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2016, vol. 48, no., pp. 354-358., Registrované v: WOS
3. [1.1] MOHAMAD, Nur Royhaila - MARZUKI, Nur Haziqah Che - BUANG, Nor Aziah - HUYOP, Fahrul - WAHAB, Roswanira Abdul. An overview of technologies for immobilization of enzymes and surface analysis techniques for immobilized enzymes. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2015, vol. 29, no. 2, pp. 205-220., Registrované v: WOS
4. [1.1] PRAVEEN, T. - RAJENDRAN, L. Theoretical analysis through mathematical modeling of two-phase flow transport in an immobilized-cell photobioreactor. In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, 2015, vol. 625, no., pp. 193-201., Registrované v: WOS
5. [1.1] RESHETILOV, Anatoly - PLEKHANOVA, Yulia - TARASOV, Sergei - TIKHONENKO, Sergei - DUBROVSKY, Alexey - KIM, Alexander - KASHIN, Vadim - MACHULIN, Andrey - WANG, Gou-Jen -

KOLESOV, Vladimir - KUZNETSOVA, Iren. Bioelectrochemical Properties of Enzyme-Containing Multilayer Polyelectrolyte Microcapsules Modified with Multiwalled Carbon Nanotubes. In MEMBRANES, 2019, vol. 9, no. 4, pp., Registrované v: WOS

6. [1.2] WITONO, Yuli - AZKIYAH, Lailatul. Immobilization of crown flower (*Calotropis gigantea*) protease using celite and dextrin. In International Journal on Advanced Science, Engineering and Information Technology. ISSN 20885334, 2016-01-01, 6, 2, pp. 201-204., Registrované v: SCOPUS

7. [3.1] Sarkar, T (Sarkar, Tanusree); Mukherjee, N (Mukherjee, Nandini); Das, J (Das, Jayoti). Studies on conductivity of surface functionalized nano porous silicon for detection of hypo and hyper glycemia. In: MATERIALS RESEARCH EXPRESS. ISSN: 2730-7727, 2019, Volume: 6 Issue: 11

AAA02 KODET, J. - BABOR, Karol. *Modifikované škroby, dextríny a lepidlá* = Modified starches, dextrans and adhesives. Praha : SNTL, 1991. 326 s. ISBN 80-03-00554-X

Ohlasy:

1. [1.1] KOPLETALOVA, E.K.; KUZMINA, L.G.; LUKIN, N.D. Influence of Wet-Heat and Extrusion Treatment of Corn Starch on Its Resistance. In Dostizheniya nauki i tekhniki APK, 2017, vol. 31, issue 12, pages: 68-71, Registrované v: WOS

2. [1.1] Koptelova, Evgeniya Kuz'minichna; Lapidus, Tat'yana Vladimirovna; Mannova, Inna Georgievna; Lukin, Nikolaj Dmitrievich: Modification of Starch by Impregnating the Enzyme Preparation. In: Хранение и переработка сельхозсырья Issue: 10 Pages: 16-20 Published: 2016, Registrované v: WOS

3. [1.1] KREJCIKOVA, Sabina - OSTAFINSKA, Aleksandra - SLOUF, Miroslav. Thermoplastic Starch and its Applications. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 8, pp. 531-537., Registrované v: WOS

4. [1.1] SARKA, Evzen - JANKOVEC, Vit - SMRCKOVA, Petra - ALDAO, David Antonio Chena - SYNITSYA, Andrey. CHEMICAL REACTIONS OF WHEAT STARCH CHARACTERIZED BY LOW VOLUME OF THE REACTION LIQUID. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, vol., no., pp. 265-269., Registrované v: WOS

Zobrazovací formát pre typ dokumentu " nedefinovaný! sysno:250084

AAB Scientific monographs published in Slovak publishing houses

AAB01 DYKYJ, Jaroslav - REPÁŠ, Milan. *Tlak nasýtenej pary v organických zlúčeninách (Saturated Vapour Pressure of Organic Compounds)*. Bratislava : VEDA, 1979. ISBN 71-054-79

Ohlasy:

1. [1.1] ACREE, William - CHICKOS, James S. Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds. Sublimation, Vaporization and Fusion Enthalpies From 1880 to 2015. Part 1. C-1-C-10. In JOURNAL OF PHYSICAL AND CHEMICAL REFERENCE DATA. ISSN 0047-2689, 2016, vol. 45, no. 3, pp., Registrované v: WOS

2. [1.1] LEMBERG, Max - SADOWSKI, Gabriele. Phase Equilibria for

the Hydroesterification of 10-Undecenoic Acid Methyl Ester. In JOURNAL OF CHEMICAL AND ENGINEERING DATA. ISSN 0021-9568, 2016, vol. 61, no. 9, pp. 3317-3325., Registrované v: WOS

3. [1.1] PLANETA, Josef - KARASEK, Pavel - ROTH, Michal. Partitioning of organics between ionic liquids and supercritical CO₂: Limiting K-factors in [bmim][N(CN)(2)]-scCO₂ system and generalized correlation with cation- and anion-specific LSERs. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2015, vol. 102, no., pp. 133-139., Registrované v: WOS

4. [1.1] QURESHI, Muhammad Saad - VRBKA, Pavel - DOHNAL, Vladimír. Thermodynamic properties of five biofuel-relevant compounds at infinite dilution in water. In FUEL. ISSN 0016-2361, 2017, vol. 191, no., pp. 518-527., Registrované v: WOS

5. [1.1] ZAK, Michal - KLEPIC, Martina - STASTNA, Lucie Cervenková - SEDLAKOVA, Zuzana - VYCHODILOVA, Hana - HOVORKA, Stepan - FRIESS, Karel - RANDOVA, Alena - BROZOVA, Libuse - JANSEN, Johannes Carolus - KHDHAYYER, Muhanned Radhi - BUDD, Peter Martin - IZAK, Pavel. Selective removal of butanol from aqueous solution by pervaporation with a PIM-1 membrane and membrane aging. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2015, vol. 151, no., pp. 108-114., Registrované v: WOS

Zobrazovací formát pre typ dokumentu " nedefinovaný! sysno:123302

AAB02 MILATA, V. - SEGLA, P. - BREZOVÁ, V. - GATIAL, A. - KOVÁČIK, Vladimír - MIGLIERINI, M. - STANKOVSKÝ, Š. - ŠÍMA, J. *Aplikovaná molekulová spektroskopie*. Bratislava : Vydavateľstvo STU, 2008. ISBN 978-80-227-2960-4

Ohlasy:

1. [1.1] Hanzlikova, Z (Hanzlikova, Zuzana); Hybler, P (Hybler, Peter); Fulop, M (Fulop, Marko); Ondruska, J (Ondruska, Jan); Jomova, K (Jomova, Klaudia); Porubska, M (Porubska, Maria); Valko, M (Valko, Marian): Irradiated lanoline as a prospective substance for biomedical applications: A spectroscopic and thermal study. In: RADIATION PHYSICS AND CHEMISTRY Volume: 113 Pages: 41-46, Registrované v: WOS

2. [1.1] Porubska, M (Porubska, Maria); Hanzlikova, Z (Hanzlikova, Zuzana); Branisa, J (Branisa, Jana); Kleinova, A (Kleinova, Angela); Hybler, P (Hybler, Peter); Fulop, M (Fulop, Marko); Ondruska, J (Ondruska, Jan); Jomova, K (Jomova, Klaudia): The effect of electron beam on sheep wool. In: POLYMER DEGRADATION AND STABILITY Volume: 111 Pages: 151-158, Registrované v: WOS

ABA Monographic studies in journals and proceedings published abroad

ABA01 BIELY, Peter. Diversity of microbial endo-beta-1,4-xylanases. In ACS Symposium Series 855: Application of Enzymes to lignocellulosics, 2003, p. 361-368.

Ohlasy:

1. [1.1] LEI, Zhao - SHAO, Yuxin - YIN, Xiaonan - YIN, Dafei - GUO, Yuming - YUAN, Jianmin. Combination of Xylanase and Debranching Enzymes Specific to Wheat Arabinoxylan Improve the Growth Performance and Gut Health of Broilers. In JOURNAL OF AGRICULTURAL AND FOOD

CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 24, pp. 4932-4942.,
Registrované v: WOS

2. [1.2] MALHOTRA, Girisha - CHAPADGAONKAR, Shilpa S.
Production and applications of xylanases – An overview. In *Biotechnologia*.
ISSN 08607796, 2018-01-01, 99, 1, pp. 59-72., Registrované v: SCOPUS

ABA02 HEINZE, T. - KOSCHELLA, A. - EBRINGEROVÁ, Anna. Chemical
functionalization of xylan: A short review. In *ACS Symposium Series 864*.
Hemicelluloses: Science and Technology. - Washington : American Chemical
Society, 2004. ISBN 0-8412-3842-1.

Ohlasy:

1. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of
hemicelluloses through an azetidinium salt ring-opening reaction. In
CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 428, no., pp.
23-30., Registrované v: WOS

2. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz -
VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan
Ethers. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované
v: WOS

3. [1.1] HU, Zhenhua - XIANG, Zhouyang - LU, Fachuang. Synthesis
and emulsifying properties of long-chain succinic acid esters of glucuronoxylans.
In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 6, pp. 3713-3724.,
Registrované v: WOS

4. [1.1] CHENG, H. N. - FURTADO, Roselayne Ferro - ALVES,
Carluccio Roberto - ROCHA BASTOS, Maria do Socorro - KIM, Sanghoon -
BISWAS, Atanu. Novel polyurethanes from xylan and TDI: Preparation and
characterization. In INTERNATIONAL JOURNAL OF POLYMER ANALYSIS
AND CHARACTERIZATION. ISSN 1023-666X, 2017, vol. 22, no. 1, pp.
35-42., Registrované v: WOS

5. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares -
CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti -
LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial
Residues and Microbial Enzymes: An Overview on the Eco-Friendly
Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF
MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND
INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v:
WOS

6. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG,
Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety
assessment of xylan by a 90-day feeding study in rats. In REGULATORY
TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2017, vol. 85, no.,
pp. 1-6., Registrované v: WOS

7. [1.1] URAKI, Yasumitsu - KODA, Keiichi. Utilization of wood cell
wall components. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2015,
vol. 61, no. 5, pp. 447-454., Registrované v: WOS

8. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO,
Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming.
Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives
by in-situ acetylation in EmimAc ionic liquid. In INTERNATIONAL JOURNAL
OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163,

no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>., Registrované v: WOS

9. [1.2] ASHTER, Syed Ali. Technology and Applications of Polymers Derived from Biomass. In *Technology and Applications of Polymers Derived from Biomass*, 2017-11-18, pp. 1-272., Registrované v: SCOPUS

10. [1.2] LIU, Jun - WILLFÖR, Stefan - XU, Chunlin. A review of bioactive plant polysaccharides: Biological activities, functionalization, and biomedical applications. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2015-01-01, 5, 1, pp. 31-61., Registrované v: SCOPUS

11. [1.2] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In *Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications*, 2016-08-04, pp. 475-511., Registrované v: SCOPUS

ABA03 WILSON, I.B.H. - BRETON, C. - IMBERTY, A. - TVAROŠKA, Igor. Molecular basis for the biosynthesis of oligo- and polysaccharides. In *Glycoscience - Chemistry and Chemical Biology. 2nd edition*. - Berlin : Springer Verlag, 2008, p. 2265-2323. ISBN 978-3-540-36157-2.

Ohlasy:

1. [1.1] CHEN, Xi - WANG, Qin-Qing - LIU, Nan-Nan - LIU, Guang-Lei - CHI, Zhe - CHI, Zhen-Ming. A glycosyltransferase gene responsible for pullulan biosynthesis in *Aureobasidium melanogenum* P16. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 95, no., pp. 539-549., Registrované v: WOS

2. [1.1] MONCLA, Bernard J. - CHAPPELL, Catherine A. - DEBO, Brian M. - MEYN, Leslie A. The Effects of Hormones and Vaginal Microflora on the Glycome of the Female Genital Tract: Cervical-Vaginal Fluid. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS

ABC Chapters in scientific monographs published abroad

ABC01 BETINA, Vladimír - FARKAŠ, Vladimír. Sporulation and light-induced development in *Trichoderma viride*. In *KUBICEK, C.P. - HARMAN, G.E. (eds.). Trichoderma and Gliocladium, Basic Physiology, Taxonomy and Genetics*. - London : Taylor & Francis, 1998, 1998, vol. 1, p. 75-94.

Ohlasy:

1. [1.1] Islam, Md. Monirul; Hossain, Delwar M.; Rahman, Md. Muzahid E.; Suzuki, Kazuki; Narisawa, Taishi; Hossain, Ismail; Meah, Md. Bahadur; Nonaka, Masanori; Harada, Naoki: Native *Trichoderma* strains isolated from Bangladesh with broad spectrum antifungal action against fungal phytopathogens. In: *Archives of Phytopathology and Plant Protection* Volume: 49 Issue: 1-4 Pages: 75-93, Registrované v: WOS

2. [1.1] SCHUMACHER, Julia. How light affects the life of *Botrytis*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2017, vol. 106, no., pp. 26-41., Registrované v: WOS

3. [1.1] STEYAERT, Johanna M. - CHOMIC, Anastasia - NIETO-JACOBO, Maria - MENDOZA-MENDOZA, Artemio - HAY, Amanda J. - BRAITHWAITE, Mark - STEWART, Alison. Yield and cold storage of

Trichoderma conidia is influenced by substrate pH and storage temperature. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2017, vol. 57, no. 5, pp. 419-427., Registrované v: WOS

ABC02 BIELY, Peter. Biochemical aspects of the production of microbial hemicellulases. In *Hemicellulose and Hemicellulases*. - London : Portland Press, 1993, p. 29-51. ISBN 97681855780361.

Ohlasy:

1. [1.1] GRAMANY, Vashni - KHAN, Faez Iqbal - GOVENDER, Algasan - BISETTY, Krishna - SINGH, Suren - PERMAUL, Kugenthiren. Cloning, expression, and molecular dynamics simulations of a xylosidase obtained from *Thermomyces lanuginosus*. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2016, vol. 34, no. 8, pp. 1681-1692., Registrované v: WOS
2. [1.1] HUANG, Di - LIU, Jia - QI, Yanfei - YANG, Kexin - XU, Yingying - FENG, Lu. Synergistic hydrolysis of xylan using novel xylanases, beta-xylosidases, and an alpha-L-arabinofuranosidase from *Geobacillus thermodenitrificans* NG80-2. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 15, pp. 6023-6037., Registrované v: WOS
3. [1.1] CHANWICHA, Nantawan - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of alkaline xylanase from *Thermoascus aurantiacus* var. *levisporus* KKU-PN-I2-1 cultivated by solid-state fermentation. In MYCOSCIENCE. ISSN 1340-3540, 2015, vol. 56, no. 3, pp. 309-318., Registrované v: WOS
4. [1.1] SHIMIZU, Kazuyuki. Pretreatment of Biomass. In METABOLIC REGULATION AND METABOLIC ENGINEERING FOR BIOFUEL AND BIOCHEMICAL PRODUCTION, 2017, vol., no., pp. 16-37., Registrované v: WOS
5. [1.1] UDAY, Uma Shankar Prasad - CHOUDHURY, Payel - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Classification, mode of action and production strategy of xylanase and its application for biofuel production from water hyacinth. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 1041-1054., Registrované v: WOS
6. [1.1] ZHOU, Xin - ZHANG, Hongyu - XU, Yong. BIODEGRADATION AND UTILIZATION OF HEMICELLULOSE. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE, 2018, vol., no., pp. 183-218., Registrované v: WOS

ABC03 BIELY, Peter. Xylanolytic enzymes. In *Handbook of Food Enzymology*. - New York : Marcel Dekker, Inc., 2003, p. 879-915. ISBN 0-8247-0686-2.

Ohlasy:

1. [1.1] ADITIYA, H. B. - MAHLIA, T. M. I. - CHONG, W. T. - NUR, Hadi - SEBAYANG, A. H. Second generation bioethanol production: A critical review. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2016, vol. 66, no., pp. 631-653., Registrované v: WOS
2. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO,

- Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
3. [1.1] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: ASPERGILLUS SYSTEM PROPERTIES AND APPLICATIONS, 2016, vol., no., pp. 171-190., Registrované v: WOS
4. [1.1] DOTSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS
5. [1.1] FANCHINI TERRASAN, Cesar Rafael - CARMONA, Eleonora Cano. SOLID-STATE FERMENTATION OF BREWER'S SPENT GRAIN FOR XYLANOLYTIC ENZYMES PRODUCTION BY *Penicillium janczewskii* AND ANALYSES OF THE FERMENTED SUBSTRATE. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2015, vol. 31, no. 6, pp. 1826-1836., Registrované v: WOS
6. [1.1] GUIDO, E. S. - SILVEIRA, J. T. - KALIL, S. J. Enzymatic production of xylooligosaccharides from beechwood xylan: effect of xylanase preparation on carbohydrate profile of the hydrolysates. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2019, vol. 26, no. 2, pp. 713-721., Registrované v: WOS
7. [1.1] CHIMPHANGO, Annie F. A. - GOERGENSEN, J. F. - VAN ZYL, W. H. In situ enzyme aided adsorption of soluble xylan biopolymers onto cellulosic material. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 143, no., pp. 172-178., Registrované v: WOS
8. [1.1] KHANDEPARKER, Rakhee - JALAL, Thasneem. Xylanolytic enzyme systems in *Arthrobacter* sp MTCC 5214 and *Lactobacillus* sp. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2015, vol. 62, no. 2, pp. 245-254., Registrované v: WOS
9. [1.1] MCCLEARY, Barry V. - MCGEOUGH, Paraic. A Comparison of Polysaccharide Substrates and Reducing Sugar Methods for the Measurement of endo-1,4-beta-Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 5, pp. 1152-1163., Registrované v: WOS
10. [1.1] MILESSI-ESTEVES, Thais S. - CORRADINI, Felipe A. S. - KOPP, Willian - ZANGIROLAMI, Teresa C. - TARDIOLI, Paulo W. - GIORDANO, Roberto C. - GIORDANO, Raquel L. C. An Innovative Biocatalyst for Continuous 2G Ethanol Production from Xylo-Oligomers by *Saccharomyces cerevisiae* through Simultaneous Hydrolysis, Isomerization, and Fermentation (SHIF). In CATALYSTS, 2019, vol. 9, no. 3, pp., Registrované v: WOS
11. [1.1] PATEL, Harshvadan - KUMAR, Adepu Kiran - SHAH, Amita. Purification and characterization of novel bi-functional GH3 family beta-xylosidase/beta-glucosidase from *Aspergillus niger* ADH-11. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 1260-1269., Registrované v: WOS

12. [1.1] PURWANI, Ni Nyoman - DARMOKOESOEMO, Handoko - PUSPANINGSIH, Ni Nyoman Tri. Hydrolysis of Corncob Xylan using beta-xylosidase GbtXyl43B from *Geobacillus thermoleovorans* IT-08 Containing Carbohydrate Binding Module (CBM). In MOLECULAR AND CELLULAR LIFE SCIENCES: INFECTIOUS DISEASES, BIOCHEMISTRY AND STRUCTURAL BIOLOGY 2015 CONFERENCE. ISSN 1876-6196, 2016, vol. 18, no., pp. 75-81., Registrované v: WOS
13. [1.1] SHELOMI, Matan - HECKEL, David G. - PAUCHET, Yannick. Ancestral gene duplication enabled the evolution of multifunctional cellulases in stick insects (Phasmatodea). In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 71, no., pp. 1-11., Registrované v: WOS
14. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHANSSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS
15. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 alpha-Glucuronidase from *Bacillus halodurans* C-125. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS
16. [1.1] YAGI, Haruka - TAKEHARA, Ryo - TAMAKI, Aika - TERAMOTO, Koji - TSUTSUI, Sosyu - KANEKO, Satoshi. Functional Characterization of the GH10 and GH11 Xylanases from *Streptomyces olivaceoviridis* E-86 Provide Insights into the Advantage of GH11 Xylanase in Catalyzing Biomass Degradation. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2019, vol. 66, no. 1, pp. 29-35., Registrované v: WOS
17. [1.2] SELIM, Samy. Molecular characterization of thermostable xylanase producing *Thermoactinomyces vulgaris* HSB4. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2016-09-01, 10, 3, pp. 1965-1969., Registrované v: SCOPUS

ABC04 COUGHLAN, M.P. - TUOHY, M.G. - FILHO, E.X.F. - PULS, J. - CLAEYSSSENS, M. - VRŠANSKÁ, Mária - HUGHES, M.M. Enzymological aspects of microbial hemicellulases with emphasis on fungal systems. In *Hemicellulose and Hemicellulases*, 1993. P. 53-84. ISSN 9781855780361.

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ, E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In MYCOSPHERE. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS
2. [1.1] TAMBE, Srushti M. - DESAI, Namita D. Colonic Bacterial Enzymes: Pharmaceutical Significance and Applications. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. 71-99., Registrované v: WOS

3. [1.1] YADAVA, Sudha. Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology Foreword. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. XVI-+., Registrované v: WOS

ABC05 ČERTÍK, Milan - HANUSOVÁ, V. - BREIEROVÁ, Emília - MÁROVÁ, I. - RAPTA, Peter. Biotechnological production and properties of carotenoid pigments. In *Biocatalysis and Agricultural Biotechnology*. - Boca Raton: CRC Press : Taylor & Francis Group, p. 355-376. ISBN 978-1-42007-703-2.

Ohlasy:

1. [1.1] AHMED, Nur Rashid - MANIRAFASHA, Emmanuel - PAN, Xueshan - CHEN, Bor-Yann - LU, Yinghua - JING, Keju. Exploring biostimulation of plant hormones and nitrate supplement to effectively enhance biomass growth and lutein production with thermo-tolerant *Desmodesmus* sp. F51. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 291, no., pp., Registrované v: WOS

2. [1.1] ALAGOZ, Yagiz - NAYAK, Pranjali - DHAMI, Namraj - CAZZONELLI, Christopher. cis-carotene biosynthesis, evolution and regulation in plants: The emergence of novel signaling metabolites. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2018, vol. 654, no., pp. 172-184., Registrované v: WOS

3. [1.1] MANOWATTANA, Atchara - TECHAPUN, Charin - SEESURIYACHAN, Phisit - HANMOUNGJAI, Prasert - CHAIYASO, Thanongsak. beta-Carotene Production by *Sporobolomyces pararoseus* TISTR5213 Using Crude Glycerol as the Sole Carbon Source. In CHIANG MAI JOURNAL OF SCIENCE. ISSN 0125-2526, 2015, vol. 42, no. 1, pp. 17-33., Registrované v: WOS

4. [1.1] MOHAMED, Hassan - EL-SHANAWANY, Abdel-Rahim - SHAH, Aabid Manzoor - NAZIR, Yusuf - NAZ, Tahira - ULLAH, Samee - MUSTAFA, Kiren - SONG, Yuanda. Comparative Analysis of Different Isolated Oleaginous *Mucoromycota* Fungi for Their gamma-Linolenic Acid and Carotenoid Production. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/3621543>., Registrované v: WOS

5. [1.1] ROSALES-LOPEZ, Catalina. Other important use of mushrooms. In TECNOLOGIA EN MARCHA. ISSN 0379-3982, 2019, vol. 32, no. 2, pp. 82-90., Registrované v: WOS

ABC06 DELORT, Anne Marie - VAITILINGOM, Mickael - JOLY, Muriel - AMATO, Pierre - WIRGOT, Nolwenn - LALLEMENT, Audrey - SANCELME, Martine - MATULOVÁ, Mária - DEGUILLAUME, Laurent. Clouds: A transient and stressing habitat for microorganisms. In *Microbial Ecology of Extreme Environments*. - Cham : Springer, 2017, chapter 10, p. 215-245. ISBN 978-3-319-51684-4. Dostupné na: https://doi.org/10.1007/978-3-319-51686-8_10

Ohlasy:

1. [1.1] DASSARMA, Priya - DASSARMA, Shiladitya. Survival of microbes in Earth's stratosphere. In CURRENT OPINION IN MICROBIOLOGY. ISSN 1369-5274, 2018, vol. 43, no., pp. 24-30., Registrované v: WOS

2. [1.1] DE ARAUJO, Gabriel Guarany - RODRIGUES, Fabio - TEIXEIRA GONCALVES, Fabio Luiz - GALANTE, Douglas. Survival and ice nucleation activity of *Pseudomonas syringae* strains exposed to simulated high-altitude atmospheric conditions. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
3. [1.1] ELS, Nora - LAROSE, Catherine - BAUMANN-STANZER, Kathrin - TIGNAT-PERRIER, Romie - KEUSCHNIG, Christoph - VOGEL, Timothy M. - SATTTLER, Birgit. Microbial composition in seasonal time series of free tropospheric air and precipitation reveals community separation. In AEROBIOLOGIA. ISSN 0393-5965, 2019, vol. 35, no. 4, pp. 671-701., Registrované v: WOS
4. [1.1] HANLON, Regina - POWERS, Craig - FAILOR, Kevin - MONTEIL, Caroline L. - VINATZER, Boris A. - SCHMALE, David G. Microbial ice nucleators scavenged from the atmosphere during simulated rain events. In ATMOSPHERIC ENVIRONMENT. ISSN 1352-2310, 2017, vol. 163, no., pp. 182-189., Registrované v: WOS
5. [1.1] HU, Wei - NIU, Hongya - MURATA, Kotaro - WU, Zhijun - HU, Min - KOJIMA, Tomoko - ZHANG, Daizhou. Bacteria in atmospheric waters: Detection, characteristics and implications. In ATMOSPHERIC ENVIRONMENT. ISSN 1352-2310, 2018, vol. 179, no., pp. 201-221., Registrované v: WOS

ABC07 EBRINGEROVÁ, Anna. The potential of xylans as biomaterials resources. In HABIBI, Youssef - LUCIA, Lucian A. *Polysaccharide Building Blocks: A Sustainable Approach to the Development of Renewable Biomaterials*. - Hoboken : John Wiley and Sons, 2012. Názov z. Požaduje sa

Ohlasy:

1. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Periodate oxidation of 4-O-methylglucuronoxylans: Influence of the reaction conditions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 45-50., Registrované v: WOS
2. [1.1] QUEIROS, Lucia C. C. - SOUSA, Sonia C. L. - DUARTE, Andreia F. S. - DOMINGUES, Fernanda C. - RAMOS, Ana M. M. Development of carboxymethyl xylan films with functional properties. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 1, pp. 9-17., Registrované v: WOS
3. [1.1] RAFIQUE, Nagina - TABASSUM, Romana - AWAN, Muhammad Siddique - ORTS, William - WONG, Dominic W. S. Cloning and Expression of *Pectobacterium carotovorum* Endo-polygalacturonase Gene in *Pichia pastoris* for Production of Oligogalacturonates. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5204-5214., Registrované v: WOS
4. [1.2] SALIMATH, P. V. - REVANAPPA, S. B. Cereal Pentosans: Structure-function relationship. In Trends in Carbohydrate Research, 2016-01-01, 8, 3, pp. 1-18., Registrované v: SCOPUS

ABC08 FARKAŠ, Vladimír - GREŠÍK, Miroslav - KOLAROVA, Nadežda - SULOVA, Zdena - ŠESTÁK, Sergej. Biochemical and physiological changes during photoinduced conidiation and derepression of cellulase synthesis in *Trichoderma*. In

KUBICEK-FRANZ, C.P. et al. *Trichoderma reesei Cellulases: Biochemistry, Genetics, Physiology and Application*. - Cambridge : Royal Society of Chemistry, 1990, p. 139-155. ISBN 0-85186-936-X.

Ohlasy:

1. [1.1] GARCIA-GOMEZ, Pablo - ALMAGRO, Goizeder - MARIA SANCHEZ-LOPEZ, Angela - BAHAJI, Abdellatif - AMEZTOY, Kinia - RICARTE-BERMEJO, Adriana - BASLAM, Marouane - ANTOLIN, Maria Carmen - URDIAIN, Amadeo - DOLORES LOPEZ-BELCHI, Maria - LOPEZ-GOMEZ, Pedro - FERNANDO MORAN, Jose - GARRIDO, Julian - JOSE MUNOZ, Francisco - BAROJA-FERNANDEZ, Edurne - POZUETA-ROMERO, Javier. Volatile compounds other than CO₂ emitted by different microorganisms promote distinct posttranscriptionally regulated responses in plants. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2019, vol. 42, no. 5, pp. 1729-1746., Registrované v: WOS
2. [1.1] HORTA, Maria Augusta C. - THIEME, Nils - GAO, Yuqian - BURNUM-JOHNSON, Kristin E. - NICORA, Carrie D. - GRITSENKO, Marina A. - LIPTON, Mary S. - MOHANRAJ, Karthikeyan - DE ASSIS, Leandro Jose - LIN, Liangcai - TIAN, Chaoguang - BRAUS, Gerhard H. - BORKOVICH, Katherine A. - SCHMOLL, Monika - LARRONDO, Luis F. - SAMAL, Areejit - GOLDMAN, Gustavo H. - BENZ, J. Philipp. Broad Substrate-Specific Phosphorylation Events Are Associated With the Initial Stage of Plant Cell Wall Recognition in *Neurospora crassa*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
3. [1.1] ZHANG, Xiaoxu - HE, Hao - YIN, Ying - ZHOU, Weiqiang - CAI, Menghao - ZHOU, Xiangshan - ZHANG, Yuanxing. A light-dark shift strategy derived from light-responded metabolic behaviors for polyketides production in marine fungus *Halorosellinia* sp. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2016, vol. 221, no., pp. 34-42., Registrované v: WOS

ABC09 FARKAŠ, Vladimír. Fungal cell wall. In PEBERDY, J.F. - FERENCZY, I. *Fungal Protoplasts: Applications in Biochemistry and Genetics*. - New York : Marcel Dekker Inc., 1985, p. 3-29. ISBN 0-8247-7112-5.

Ohlasy:

1. [1.1] CHEN, Yunmei - XU, Haiyang - ZHOU, Mengyi - WANG, Yang - WANG, Shiming - ZHANG, Jianfa. Salecan Enhances the Activities of beta-1,3-Glucanase and Decreases the Biomass of Soil-Borne Fungi. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 8, pp., Registrované v: WOS
2. [1.1] KARAKURT, Y. - TOKA, D. The Influence of Hot Water and Calcium Chloride on the Changes in Cell Wall Composition and the Activities of Cell Wall Hydrolases during Storage in *Agaricus bisporus*. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2016, vol. 40, no. 2, pp. 220-226., Registrované v: WOS
3. [1.1] YANG, Xiaoping - JIANG, Xiaodong. Antifungal activity and mechanism of tea polyphenols against *Rhizopus stolonifer*. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2015, vol. 37, no. 7, pp. 1463-1472., Registrované v: WOS

ABC10 HEIFETZ, Alexander - SLÁDEK, Vladimír - TOWNSEND-NICHOLSON, Andrea - FEDOROV, Dmitri G.**. Characterizing protein-protein interactions with

the fragment molecular orbital method. In *Quantum Mechanics in Drug Discovery. Series: Methods in Molecular Biology*. - New York : Springer (Humana Press imprint), 2020, 2020, vol. 2114, chapter 13, p. 187-205. ISBN 978-1-0716-0281-2. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_13

Ohlasy:

1. [1.1] TANAKA, Shigenori - WATANABE, Chiduru - HONMA, Teruki - FUKUZAWA, Kaori - OHISHI, Kazue - MARUYAMA, Tadashi. Identification of correlated inter-residue interactions in protein complex based on the fragment molecular orbital method. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.jmgm.2020.107650>., Registrované v: WOS

ABC11 HRABÁROVÁ, Eva - ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef.

Insoluble protein applications: the use of bacterial inclusion bodies as biocatalysts. In *Insoluble Proteins : Methods and Protocols*. - New York : Springer, 2015, 2015, vol. 1258, chapter 24, p. 411-422. ISBN 978-1-4939-2204-8. Dostupné na: https://doi.org/10.1007/978-1-4939-2205-5_24

Ohlasy:

1. [1.1] CALCINES-CRUZ, Carlos - OLVERA, Alejandro - CASTRO-ACOSTA, Ricardo M. - ZAVALA, Guadalupe - ALAGON, Alejandro - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. Recombinant-phospholipase A2 production and architecture of inclusion bodies are affected by pH in Escherichia coli. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 826-836., Registrované v: WOS
2. [1.1] CESPEDES, Maria Virtudes - CANO-GARRIDO, Olivia - ALAMO, Patricia - SALA, Rita - GALLARDO, Alberto - SERNA, Naroa - FALGAS, Aida - VOLTA-DURAN, Eric - CASANOVA, Isolda - SANCHEZ-CHARDI, Alejandro - LOPEZ-LAGUNA, Hector - SANCHEZ-GARCIA, Laura - SANCHEZ, Julieta M. - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Engineering Secretory Amyloids for Remote and Highly Selective Destruction of Metastatic Foci. In *ADVANCED MATERIALS*. ISSN 0935-9648, 2020, vol. 32, no. 7, pp. Dostupné na: <https://doi.org/10.1002/adma.201907348>., Registrované v: WOS
3. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS, Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVARDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In *FEMS MICROBIOLOGY REVIEWS*. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS
4. [1.1] JAEGER, V. D. - KLOSS, R. - GRUENBERGER, A. - SEIDE, S. - HAHN, D. - KARMAINSKI, T. - PIQUERAY, M. - EMBRUCH, J. - LONGERICH, S. - MACKFELD, U. - JAEGER, K.E. - WIECHERT, W. - POHL, M. - KRAUSS, U. Tailoring the properties of (catalytically)-active inclusion bodies. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS
5. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike -

- KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS
6. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from *E. coli* for 1,5-diaminopentane production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
7. [1.1] KOPP, Julian - SLOUKA, Christoph - STROHMER, Daniel - KAGER, Julian - SPADIUT, Oliver - HERWIG, Christoph. Inclusion Body Bead Size in *E. coli* Controlled by Physiological Feeding. In MICROORGANISMS. ISSN 2076-2607, 2018, vol. 6, no. 4, pp., Registrované v: WOS
8. [1.1] KUCZYNSKA-WISNIK, Dorota - MORUNO-ALGARA, Maria - STOJOWSKA-SWEDRZYNSKA, Karolina - LASKOWSKA, Ewa. The effect of protein acetylation on the formation and processing of inclusion bodies and endogenous protein aggregates in *Escherichia coli* cells. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
9. [1.1] PESARRODONA, Mireia - JAUSET, Toni - DIAZ-RIASCOS, Zamira - SANCHEZ-CHARDI, Alejandro - BEAULIEU, Marie-Eve - SERAS-FRANZOSO, Joaquin - SANCHEZ-GARCIA, Laura - BALTA-FOIX, Ricardo - MANCILLA, Sandra - FERNANDEZ, Yolanda - RINAS, Ursula - SCHWARTZ, Simo - SOUCEK, Laura - VILLAVARDE, Antonio - ABASOLO, Ibane - VAZQUEZ, Esther. Targeting Antitumoral Proteins to Breast Cancer by Local Administration of Functional Inclusion Bodies. In ADVANCED SCIENCE, 2019, vol. 6, no. 18, pp., Registrované v: WOS
10. [1.1] RACKOVA, Lu - CSEKES, Erika. Proteasome Biology: Chemistry and Bioengineering Insights. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12122909>., Registrované v: WOS
11. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVARDE, Antonio. Bacterial Inclusion Bodies: Discovering Their Better Half. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS
12. [1.1] SANCHEZ, Julieta M. - LOPEZ-LAGUNA, Hector - ALAMO, Patricia - SERNA, Naroa - SANCHEZ-CHARDI, Alejandro - NOLAN, Veronica - CANO-GARRIDO, Olivia - CASANOVA, Isolda - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Artificial Inclusion Bodies for Clinical Development. In ADVANCED SCIENCE, 2020, vol. 7, no. 3, pp. Dostupné na: <https://doi.org/10.1002/adv.201902420>., Registrované v: WOS
13. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* B121(DE3) and characterization by FT-IR Spectroscopy. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>., Registrované v: WOS

14. [1.1] SLOUKA, Christoph - KOPP, Julian - SPADIUT, Oliver - HERWIG, Christoph. Perspectives of inclusion bodies for bio-based products: curse or blessing? In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 3, pp. 1143-1153., Registrované v: WOS
15. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis - SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein aggregates: just the tip of the iceberg. In *NANOMEDICINE*. ISSN 1743-5889, 2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS
16. [1.2] FERRER-MIRALLES, N. - SACCARDO, P. - GARCIA-FRUITÓS, E. Protein purification from protein aggregates. In *Handbook on Protein Purification: Industry Challenges and Technological Developments*, 2018-11-15, pp. 79-104., Registrované v: SCOPUS

ABC12 HUSHEGYI, András - BELICKÁ, Ľudmila, Křuková - BERTÓK, Tomáš - TKÁČ, Ján. Carbohydrate nanotechnology and its application to biosensor development. In *Carbohydrate Nanotechnology*. - Hoboken : John Wiley and Sons, 2016, chapter 15, p. 387-421. ISBN 978-1-118-86053-3. Dostupné na: <https://doi.org/10.1002/9781118860212.ch15>

Ohlasy:

1. [1.1] ADHARIS, Azis - KETELAAR, Thomas - KOMARUDIN, Amalina G. - LOOS, Katja. Synthesis and Self-Assembly of Double-Hydrophilic and Amphiphilic Block Glycopolymers. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2019, vol. 20, no. 3, pp. 1325-1333., Registrované v: WOS
2. [1.1] ADHARIS, Azis - LOOS, Katja. Synthesis of glycomonomers via biocatalytic methods. In *ENZYMATIC POLYMERIZATIONS*. ISSN 0076-6879, 2019, vol. 627, no., pp. 215-247., Registrované v: WOS

ABC13 KOGAN, Grigorij - ŠOLTÉS, Ladislav - STERN, Robert. Hyaluronic acid: a biopolymer with versatile physico-chemical and biological properties : chapter 31. In *Handbook of polymer research: monomers, oligomers, polymers and composites*. - New York : Nova Science Publishers, 2007, p. 393-439. ISBN 1-60021-651-X.

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *Analysis and Performance of Engineering Materials: Key Research and Development*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

ABC14 KOGAN, Grigorij - ŠOLTÉS, Ladislav - STERN, Robert - SCHILLER, Jürgen - MENDICHI, Raniero. Hyaluronic acid: its function and degradation in vivo systems. In *Bioactive natural products (Part N)*. Studies in natural products chemistry, Volume 34, Issue C. - Amsterdam : Elsevier, 2008, p.789-882. ISBN 978-0-444-53180-3. Dostupné na: [https://doi.org/10.1016/S1572-5995\(08\)80035-X](https://doi.org/10.1016/S1572-5995(08)80035-X)

Ohlasy:

1. [1.1] BHATNAGAR, S. - GADEELA, P.R. - THATHIREDDY, P. - VENUGANTI, V.V.K. Microneedle-based drug delivery: materials of construction. In *JOURNAL OF CHEMICAL SCIENCES*. ISSN 0974-3626, SEP 2019, vol. 131, no. 9, art. no. UNSP 90., Registrované v: WOS
2. [1.1] CLAVERIE, M. - MCREYNOLDS, C. - PETITPAS, A. - THOMAS, M. - FERNANDES, S.C.M. Marine-Derived Polymeric Materials and

- Biomimetics: An Overview. In POLYMERS. eISSN: 2073-4360, 2020, vol. 12, no. 5, art. no. 1002., Registrované v: WOS
3. [1.1] COZIKOVA, D. - HERMANNOVA, M. - BUFFA, R. - FOGLOVA, T. - NESPOROVA, K. - KOTLAND, O. - VELEBNY, V.. Comparison of degradation products generated during oxidative reductive depolymerization and acid hydrolysis of hyaluronan. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, p. 37-39., Registrované v: WOS
4. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS
5. [1.1] DYMARSKA, M. - JUROS, W. - JANECKO, T. - KOSTRZEWA-SUSLOW, E. Hyaluronic acid. Structure, properties and uses. In PRZEMYSŁ CHEMICZNY. ISSN 0033-2496, 2016, vol. 95, no. 4, p. 814-816., Registrované v: WOS
6. [1.1] ZHAO, Z.Y. - FAN, C.J. - CHEN, F. - SUN, Y.T. - XIA, Y.J. - JI, A.Y. - WANG, D.A. Progress in Articular Cartilage Tissue Engineering: A Review on Therapeutic Cells and Macromolecular Scaffolds. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2020, vol. 20, no. 2, art. no. 1900278., Registrované v: WOS
7. [1.1] ZIEBA, J. - WALCZAK, M. - GORDIENKO, O. - GERSTENHABER, J.A. - SMITH, G.M. - KRYNSKA, B. Altered Amniotic Fluid Levels of Hyaluronic Acid in Fetal Rats with Myelomeningocele: Understanding Spinal Cord Injury. In JOURNAL OF NEUROTRAUMA. ISSN 0897-7151, 2019, vol. 36, no. 12, p. 1965-1973., Registrované v: WOS
8. [1.2] TSEPILOV, R. N. - BELODED, A. V. Hyaluronic acid An "old" molecule with "new" functions: Biosynthesis and depolymerization of hyaluronic acid in bacteria and vertebrate tissues including during carcinogenesis. In BIOCHEMISTRY (MOSCOW). ISSN 00062979, 2015, vol. 80, no. 9, p. 1093-1108., Registrované v: SCOPUS

ABC15 KRONEK, Juraj - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTON, Jozef. Biocompatibility and immunocompatibility assessment of poly(2-oxazolines). In *Practical applications in biomedical engineering*. - Rijeka, Croatia : InTech, 2012, chapter 11, P. 257- 284. ISBN 978-953-51-0924-2.

Ohlasy:

1. [1.1] BERNHARD, Y. - SEDLACEK, O. - VAN GUYSE, J.F.R. - BENDER, J. - ZHONG, Z.F. - DE GEEST, B.G. - HOOGENBOOM, R. Poly(2-ethyl-2-oxazoline) Conjugates with Salicylic Acid via Degradable Modular Ester Linkages. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3207-3215., Registrované v: WOS
2. [1.1] KEMPE, Kristian. Chain and Step Growth Polymerizations of Cyclic Imino Ethers: From Poly(2-oxazoline)s to Poly(ester amide)s. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2017, vol. 218, no. 11, pp., Registrované v: WOS

ABC16 LATTOVÁ, Erika - PERREAULT, Héléne. Method for investigation of oligosaccharides using phenylhydrazine derivatization. In *Methods in Molecular Biology*. - New Jersey : Humana Press, 2009, p. 65-77. ISBN 1588297748.
Dostupné na: https://doi.org/10.1007/978-1-59745-022-5_5

Ohlasy:

1. [1.1] CHEN, Yi-Ting - HUNG, Wei-Ting - WANG, Shwu-Huey - FANG, Jim-Min - YANG, Wen-Bin. Quantitative analysis of sugar ingredients in beverages and food crops by an effective method combining naphthimidazole derivatization and H-1-NMR spectrometry. In FUNCTIONAL FOODS IN HEALTH AND DISEASE. ISSN 2160-3855, 2017, vol. 7, no. 7, pp. 494-510., Registrované v: WOS

2. [1.1] WEIGEL, Paul H. - BAGGENSTOSS, Bruce A. - WASHBURN, Jennifer L. Hyaluronan synthase assembles hyaluronan on a [GlcNAc(beta 1,4)](n)-GlcNAc(alpha 1>)UDP primer and hyaluronan retains this residual chitin oligomer as a cap at the nonreducing end. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 6, pp. 536-554., Registrované v: WOS

3. [1.1] ZHOU, Shiyue - HU, Yunli - MECHREF, Yehia.
High-temperature LC-MS/MS of permethylated glycans derived from
glycoproteins. In ELECTROPHORESIS. ISSN 0173-0835, 2016, vol. 37, no. 11,
pp. 1506-1513., Registrované v: WOS

4. [1.2] ELDER, David - BORMAN, Phil - OKAFO, George - MCDOWELL, William. In-depth focus: LC-MS: HPLC mass spectral analysis of glycans. In European Pharmaceutical Review. ISSN 13608606, 2015-01-01, 20, 2, pp. 43-51., Registrované v: SCOPUS

ABC17 LIŠKOVÁ, Desana - CAPEK, Peter - KOLLÁROVÁ, Karin - SLOVÁKOVÁ, E. - KÁKOŠOVÁ, Anna. The potential of carbohydrates in plant growth regulation. In *Floriculture, Ornamental and Plant Biotechnology: Advances and Topical Issues*. - Isleworth : Gloval Science Books Ltd, 2006. ISBN 4-903313-09-3.

Ohlasy:

1. [1.1] HE, Chunmei - WU, Kunlin - ZHANG, Jianxia - LIU, Xuncheng - ZENG, Songjun - YU, Zhenming - ZHANG, Xinghua - DA SILVA, Jaime A. Teixeira - DENG, Rufang - TAN, Jianwen - LUO, Jianping - DUAN, Jun. Cytochemical Localization of Polysaccharides in *Dendrobium officinale* and the Involvement of DoCSLA6 in the Synthesis of Mannan Polysaccharides. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

ABC18 MALOVÍKOVÁ, Anna - HAYAKAWA, K. - KWAK, J.C.T. Binding of alkylpyridinium cations by anionic polysaccharides. In *ACS Symposium Series : structure/Performance Relationships in Surfactants*. Vol. 253. - Washington : American Chemical Society, 1984, p. 226. Dostupné na: <https://doi.org/10.1021/j150654a002>

Ohlasy:

1. [1.1] VASILIEVA, E. A. - VALEEVA, F. G. - YELISEEVA, O. E. - LUKASHENKO, S. S. - SAIFUTDINOVA, M. N. - ZAKHAROV, V. M. - GAVRILOVA, E. L. - ZAKHAROVA, L. Ya. Supramolecular Nanocontainers Based on Hydrophobized Calix[4]resorcinol: Modification by Gemini Surfactants and Polyelectrolyte. In MACROHETEROCYCLES. ISSN 1998-9539, 2017, vol. 10, no. 2, pp. 182-189., Registrované v: WOS

MAROVA, Ivana - CERTIK, M. - BREIEROVÁ, Emília. Production of enriched biomass by carotenogenic yeasts – application of whole-cell yeast biomass to production of pigments and other lipid compounds. In *Biomass – detection, production and usage*. - Rijeka : InTech, 2011, chapter 18. p. 345-384. ISBN 978-953-307-492-4.

Ohlasy:

1. [1.1] BOGUSLAWSKA-WAS, Elzbieta - DLUBALA, Alicja - LASKOWSKA, Maria. The role of *Rhodotorula mucilaginosa* in selected biological process of wild fish. In *FISH PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0920-1742, 2019, vol. 45, no. 2, pp. 511-521., Registrované v: WOS
2. [1.1] CAROLINA VINARTA, Silvana - VIRGINIA ANGELICOLA, Maria - VAN NIEUWENHOVE, Carina - JAVIER AYBAR, Manuel - CASTELLANOS DE FIGUEROA, Lucia Ines. Fatty acids profiles and estimation of the biodiesel quality parameters from *Rhodotorula* spp. from Antarctica. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 5, pp. 757-772. Dostupné na: <https://doi.org/10.1007/s10529-020-02796-2>., Registrované v: WOS
3. [1.1] HARITH, Zuharlida Tuan - CHARALAMPOPOULOS, Dimitris - CHATZIFRAGKOU, Afroditi. Rapeseed meal hydrolysate as substrate for microbial astaxanthin production. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2019, vol. 151, no., pp., Registrované v: WOS
4. [1.1] KIELISZEK, Marek - BLAZEJAK, Stanislaw - BZDUCHA-WROBEL, Anna - KOT, Anna M. Effect of Selenium on Lipid and Amino Acid Metabolism in Yeast Cells. In *BIOLOGICAL TRACE ELEMENT RESEARCH*. ISSN 0163-4984, 2019, vol. 187, no. 1, pp. 316-327. Dostupné na: <https://doi.org/10.1007/s12011-018-1342-x>., Registrované v: WOS
5. [1.1] LAU, Wai Xian - CARVAJAL-ZARRABAL, Octavio - NOLASCO-HIPOLITO, Cirilo - KOHEI, Mizuno - GREGORY, Zayn Al-Abideen - ABDULLAH, Mohammad Omar - TOH, Seng Chiew - LIHAN, Samuel. Production of pigments by *Rhodotorula mucilaginosa*. In *MALAYSIAN JOURNAL OF MICROBIOLOGY*. ISSN 1823-8262, 2018, vol. 14, no. 4, pp. 344-350., Registrované v: WOS
6. [1.1] MANNAZZU, Ilaria - LANDOLFO, Sara - DA SILVA, Teresa Lopes - BUZZINI, Pietro. Red yeasts and carotenoid production: outlining a future for non-conventional yeasts of biotechnological interest. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2015, vol. 31, no. 11, pp. 1665-1673., Registrované v: WOS
7. [1.1] ROVINARU, Camelia - PASARIN, Diana - CAPRA, Luiza - STOICA, Rusandica. THE EFFECT OF ZnSO₄ IN THE CULTIVATION MEDIUM ON *RHODOTORULA GLUTINIS* CCY 020-002-033 YEAST BIOMASS GROWTH, beta-CAROTENE PRODUCTION AND ZINC ACCUMULATION. In *JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES*. ISSN 1338-5178, 2018, vol. 8, no. 3, pp. 931-935., Registrované v: WOS
8. [1.1] SCHROEDER, Aline - SOUZA, Diego H. - FERNANDES, Mylena - RODRIGUES, Eduardo B. - TREVISAN, Viviane - SKORONSKI, Everton. Application of glycerol as carbon source for continuous drinking water denitrification using microorganism from natural biomass. In *JOURNAL OF*

ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2020, vol. 256, no., pp. Dostupné na: <https://doi.org/10.1016/j.jenvman.2019.109964>., Registrované v: WOS

9. [1.1] SILVA, Carolina Moroni - DE BORBA, Thais de Matos - KALIL, Susana Juliano - DE MEDEIROS BURKERT, Janaina Fernandes. Raw Glycerol and Parboiled Rice Effluent for Carotenoid Production: Effect of the Composition of Culture Medium and Initial pH. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2016, vol. 54, no. 4, pp. 489-496., Registrované v: WOS

10. [1.1] USMANI, Zeba - SHARMA, Minaxi - SUDHEER, Surya - GUPTA, Vijai K. - BHAT, Rajeev. Engineered Microbes for Pigment Production Using Waste Biomass. In CURRENT GENOMICS. ISSN 1389-2029, 2020, vol. 21, no. 2, pp. 80-95. Dostupné na: <https://doi.org/10.2174/1389202921999200330152007>., Registrované v: WOS

ABC20 MARTINKA, Michal - VACULÍK, Marek - LUX, Alexander. Plant cell responses to cadmium and zinc. In *Applied Plant Cell Biology*. - Berlin Heidelberg : Springer, 2014, s. 209-246. ISBN 978-3-642-41786-3. Dostupné na: https://doi.org/10.1007/978-3-642-41787-0_7

Ohlasy:

1. [1.1] ASGHER, Mohd. - KHAN, M. Iqbal R. - ANJUM, Naser A. - KHAN, Nafees A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 399-413., Registrované v: WOS

2. [1.1] BIBBIANI, Susanna - COLZI, Ilaria - TAITI, Cosimo - NISSIM, Werther Guidi - PAPINI, Alessio - MANCUSO, Stefano - GONNELLI, Cristina. Smelling the metal: Volatile organic compound emission under Zn excess in the mint Tetradenia riparia. In PLANT SCIENCE. ISSN 0168-9452, 2018, vol. 271, no., pp. 1-8., Registrované v: WOS

3. [1.1] BRANKOV, M. - SIMIC, M. - DOLIJANOVIC, Z. - RAJKOVIC, M. - MANDIC, V. - DRAGICEVIC, V. The Response of Maize Lines to Foliar Fertilizing. In AGRICULTURE-BASEL. SEP 2020, vol. 10, no. 9., Registrované v: WOS

4. [1.1] GITTO, Aurora - FRICKE, Wieland. Zinc treatment of hydroponically grown barley plants causes a reduction in root and cell hydraulic conductivity and isoform-dependent decrease in aquaporin gene expression. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2018, vol. 164, no. 2, pp. 176-190., Registrované v: WOS

5. [1.1] JIAN, Hongju - YANG, Bo - ZHANG, Aoxiang - MA, Jinqi - DING, Yiran - CHEN, Zhiyou - LI, Jiana - XU, Xinfu - LIU, Liezhao. Genome-Wide Identification of MicroRNAs in Response to Cadmium Stress in Oilseed Rape (Brassica napus L.) Using High-Throughput Sequencing. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 5, pp., Registrované v: WOS

6. [1.1] JIA, Honglei - WANG, Xiaohong - WEI, Ting - ZHOU, Ran - MUHAMMAD, Haris - HUA, Li - REN, Xinhao - GUO, Junkang - DING, Yongzhen. Accumulation and fixation of Cd by tomato cell wall pectin under Cd stress. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2019, vol. 167, no., pp., Registrované v: WOS

7. [1.1] LABUDDA, M. - MUSZYNSKA, E. - GIETLER, M. -

- ROZANSKA, E. - RYBARCZYK-PLONSKA, A. - FIDLER, J. - PRABUCKA, B. - DABABAT, A.A. Efficient antioxidant defence systems of spring barley in response to stress induced jointly by the cyst nematode parasitism and cadmium exposure. In PLANT AND SOIL. ISSN 0032-079X, NOV 2020, vol. 456, no. 1-2, p. 189-206., Registrované v: WOS
8. [1.1] MARTINEZ, S. - SAENZ, M.E. - ALBERDI, J.L. - DI MARZIO, W.D. Comparative ecotoxicity of single and binary mixtures exposures of cadmium and zinc on growth and biomarkers of *Lemna gibba*. In ECOTOXICOLOGY. ISSN 0963-9292, JUL 2020, vol. 29, no. 5, p. 571-583., Registrované v: WOS
9. [1.1] RABELO, F.H.S. - LUX, A. - ROSSI, M.L. - MARTINELL, A.P. - CUYBERS, A. - LAVRES, J. Adequate S supply reduces the damage of high Cd exposure in roots and increases N, S and Mn uptake by Massai grass grown in hydroponics. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, APR 2018, vol. 148, p. 35-46., Registrované v: WOS
10. [1.1] RANATHUNGE, Kosala - KIM, Yangmin X. - WASSMANN, Friedrich - KRESZIES, Tino - ZEISLER, Viktoria - SCHREIBER, Lukas. The composite water and solute transport of barley (*Hordeum vulgare*) roots: effect of suberized barriers. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 119, no. 4, pp. 629-643., Registrované v: WOS
11. [1.1] SIMKOVA, Lenka - FIALOVA, Ivana - VACULIKOVA, Miroslava - LUXOVA, Miroslava. The Effect of Silicon on the Activity and Isozymes Pattern of Antioxidative Enzymes of Young Maize Roots under Zinc Stress. In SILICON. ISSN 1876-990X, 2018, vol. 10, no. 6, pp. 2907-2910., Registrované v: WOS
12. [1.1] THOMAS, C. L. - ALCOCK, T. D. - GRAHAM, N. S. - HAYDEN, R. - MATTERSON, S. - WILSON, L. - YOUNG, S. D. - DUPUY, L. X. - WHITE, P. J. - HAMMOND, J. P. - DANKU, J. M. C. - SALT, D. E. - SWEENEY, A. - BANCROFT, I. - BROADLEY, M. R. Root morphology and seed and leaf ionomic traits in a *Brassica napus* L. diversity panel show wide phenotypic variation and are characteristic of crop habit. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2016, vol. 16, no., pp., Registrované v: WOS
13. [1.1] VERSIEREN, Liske - EVERS, Steffie - DE SCHAMPHELAERE, Karel - BLUST, Ronny - SMOLDERS, Erik. Mixture toxicity and interactions of copper, nickel, cadmium, and zinc to barley at low effect levels: Something from nothing? In ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY. ISSN 0730-7268, 2016, vol. 35, no. 10, pp. 2483-2492., Registrované v: WOS
14. [1.1] VERSIEREN, Liske - EVERS, Steffie - ABDELGAWAD, Hamada - ASARD, Han - SMOLDERS, Erik. Mixture toxicity of copper, cadmium, and zinc to barley seedlings is not explained by antioxidant and oxidative stress biomarkers. In ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY. ISSN 0730-7268, 2017, vol. 36, no. 1, pp. 220-230., Registrované v: WOS
15. [1.1] WANG, Shufeng - SUN, Juanjuan - LI, Shengting - LU, Kun - MENG, Hongjun - XIAO, Zhongchun - ZHANG, Zhen - LI, Jiana - LUO, Feng - LI, Nannan. Physiological, genomic and transcriptomic comparison of two *Brassica napus* cultivars with contrasting cadmium tolerance. In PLANT AND SOIL. ISSN 0032-079X, 2019, vol. 441, no. 1-2, pp. 71-87., Registrované v:

WOS

16. [1.1] ZHOU, Y.M. - LONG, S.S. - LI, B.Y. - HUANG, Y.Y. - LI, Y.J. - YU, J.Y. - DU, H.H. - KHAN, S. - LEI, M. Enrichment of cadmium in rice (*Oryza sativa* L.) grown under different exogenous pollution sources. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, DEC 2020, vol. 27, no. 35, SI, p. 44249-44256., Registrované v: WOS

17. [1.2] DORNELES, Athos Odin Severo - PEREIRA, Aline Soares - POSSEBOM, Gessieli - TAROUÇO, Camila Peligrinotti - ROSSATO, Liana Veronica - TABALDI, Luciane Almeri. Ameliorate the cadmium toxicity in *solanum tuberosum* L. Plants with selenium and silicon application. In Advances in Horticultural Science. ISSN 03946169, 2019-01-01, 33, 1, pp. 49-56., Registrované v: SCOPUS

18. [3.1] ČIAMPOROVÁ, Milada - STAŇOVÁ, Andrea - ĎURIŠOVÁ, Eva - BANÁSOVÁ, Viera. Tissue organization and cell ultrastructure in the roots of three *Arabidopsis* species grown at different zinc concentrations. In Modern Phytomorphology, 2015, vol. 7, p. 67-74. ISSN 2226-3063.

ABC21 NEMČOVIČOVÁ, Ivana - KUTÁ-SMATANOVÁ, Ivana. Alternative protein crystallization technique: Cross-influence procedure (CIP). In BORISENKO, Elena - KOLESNIKOV, Nikolai. *Crystallization and materials science of modern artificial and natural crystals: Chapter 11*. - Rijeka, Croatia : In Tech, 2012, p. 249-276. ISBN 978-953-3076089.

Ohlasy:

1. [1.1] MATSUSHITA, Y. - SEKIGUCHI, H. - WONG, C. Jae - NISHIJIMA, M. - IKEZAKI, K. - HAMADA, D. - GOTO, Y. - SASAKI, Y. C. Nanoscale Dynamics of Protein Assembly Networks in Supersaturated Solutions. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ABC22 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. The Bilik reaction. In *Topics in Current Chemistry. Glycoscience: Epimerization and Rearrangement Reactions of Carbohydrates*. - Berlin : Springer Verlag, 2001, p. 15-41. ISBN 3-540-41383-9.

Ohlasy:

1. [1.1] BAYU, Asep - KARNJANAKOM, Surachai - YOSHIDA, Akihiro - KUSAKABE, Katsuki - ABUDULA, Abuliti - GUAN, Guoqing. Polyoxomolybdates catalysed cascade conversions of cellulose to glycolic acid with molecular oxygen via selective aldohexoses pathways (an epimerization and a [2+4] Retro-aldol reaction). In CATALYSIS TODAY. ISSN 0920-5861, 2019, vol. 332, no., pp. 28-34., Registrované v: WOS

2. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM, Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In CHEMPLUSCHEM. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS

3. [1.1] BENNER, Steven A. - KIM, Hyo-Joong. The Case for a Martian Origin for Earth Life. In INSTRUMENTS, METHODS, AND MISSIONS FOR ASTROBIOLOGY XVII. ISSN 0277-786X, 2015, vol. 9606, no., pp., Registrované v: WOS

4. [1.1] BENNER, Steven A. - KIM, Hyo-Joong - BIONDI, Elisa. Mineral-Organic Interactions in Prebiotic Synthesis The Discontinuous Synthesis Model for the Formation of RNA in Naturally Complex Geological Environments. In PREBIOTIC CHEMISTRY AND CHEMICAL EVOLUTION OF NUCLEIC ACIDS. ISSN 0933-1891, 2018, vol. 35, no., pp. 31-83., Registrované v: WOS
5. [1.1] DELIDOVICH, Irina - PALKOVITS, Regina. Catalytic Isomerization of Biomass-Derived Aldoses: A Review. In CHEMSUSCHEM. ISSN 1864-5631, 2016, vol. 9, no. 6, pp. 547-561., Registrované v: WOS
6. [1.1] DELIDOVICH, Irina - HOFFMANN, Andreas - WILLMS, Andrea - ROSE, Marcus. Porous Tin-Organic Frameworks as Selective Epimerization Catalysts in Aqueous Solutions. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 6, pp. 3792-3798., Registrované v: WOS
7. [1.1] DELIDOVICH, Irina - GYNGAZOVA, Maria S. - SANCHEZ-BASTARDO, Nuria - WOHLAND, Julia P. - HOPPE, Corinna - DRABO, Peter. Production of keto-pentoses via isomerization of aldo-pentoses catalyzed by phosphates and recovery of products by anionic extraction. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 3, pp. 724-734., Registrované v: WOS
8. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Tautomeric and epimeric equilibria of aldo- and ketohexoses studied by the MD simulations and QM calculations. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 474, no., pp. 8-15., Registrované v: WOS
9. [1.1] GERNHART, Zane C. - BHALKIKAR, Anuja - BURKE, John J. - SONNENFELD, Kate O. - MARIN, Chris M. - ZBASNIK, Richard - CHEUNG, Chin Li. One-pot conversion of cellobiose to mannose using a hybrid phosphotungstic acid-cerium oxide catalyst. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 36, pp. 28478-28486., Registrované v: WOS
10. [1.1] GUO, Jing - ZHU, Shanhui - CEN, Youliang - QIN, Zhangfeng - WANG, Jianguo - FAN, Weibin. Ordered mesoporous Nb-W oxides for the conversion of glucose to fructose, mannose and 5-hydroxymethylfurfural. In APPLIED CATALYSIS B-ENVIRONMENTAL. ISSN 0926-3373, 2017, vol. 200, no., pp. 611-619., Registrované v: WOS
11. [1.1] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS
12. [1.1] ORAZOV, Marat - DAVIS, Mark E. Tandem catalysis for the production of alkyl lactates from ketohexoses at moderate temperatures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 38, pp. 11777-11782., Registrované v: WOS
13. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS
14. [1.1] SPASOVA, Berta - KUESTERS, Christof - STENGEL, Bruno - BRANDNER, Juergen J. Investigation of process conditions for catalytic conversion of carbohydrates by epimerization using a microstructured reactor. In

CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2016, vol. 105, no., pp. 103-109., Registrované v: WOS

15. [1.1] ZHENG, Mingyuan - PANG, Jifeng - SUN, Ruiyan - WANG, Aiqin - ZHANG, Tao. Selectivity Control for Cellulose to Diols: Dancing on Eggs. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 3, pp.

1939-1954., Registrované v: WOS

16. [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In ASTROBIOLOGY. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS

ABC23 REXOVA-BENKOVA, L. - MARKOVIČ, Oskar. Pectic enzymes. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1976, vol. 33, p. 323- 385. ISSN 0065-2318.

Ohlasy:

1. [1.1] ANTONY, B. - JOHNY, J. - ALDOSARI, S. A. - ABDELAZIM, M. M. Identification and expression profiling of novel plant cell wall degrading enzymes from a destructive pest of palm trees, *Rhynchophorus ferrugineus*. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, 2017, vol. 26, no. 4, pp. 469-484., Registrované v: WOS

2. [1.1] DAL MAGRO, Lucas - KORNECKI, Jakub F. - KLEIN, Manuela P. - RODRIGUES, Rafael C. - FERNANDEZ-LAFUENTE, Roberto. Stability/activity features of the main enzyme components of rohapect 10L. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2019, vol. 35, no. 6, pp., Registrované v: WOS

3. [1.1] GARCIA-BENITEZ, C. - MELGAREJO, P. - SANDIN-ESPANA, P. - SEVILLA-MORAN, B. - DE CAL, A. Degrading enzymes and phytotoxins in *Monilinia* spp. In EUROPEAN JOURNAL OF PLANT PATHOLOGY. ISSN 0929-1873, 2019, vol. 154, no. 2, pp. 305-318., Registrované v: WOS

4. [1.1] HASSAN, Noor - RAFIQ, Muhammad - REHMAN, Maliha - SAJJAD, Wasim - HASAN, Fariha - ABDULLAH, Swaid. Fungi in acidic fire: A potential source of industrially important enzymes. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2019, vol. 33, no. 1, pp. 58-71., Registrované v: WOS

5. [1.1] KOTNALA, Bhavya - SHASHIREKHA, M. N. - VASU, Prasanna. Purification and Characterization of a Salt-Dependent Pectin Methylsterase from *Carica papaya* Fruit Mesocarp-Exocarp Tissue. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2018, vol. 83, no. 8, pp. 2062-2070., Registrované v: WOS

6. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - FERNANDEZ-VALLE, Rigel - MARTIN-ERNESTO - TIZNADO-HERNANDEZ. Rhamnogalacturonan lyase: A pectin modification enzyme of higher plants. In EMIRATES JOURNAL OF FOOD AND AGRICULTURE. ISSN 2079-052X, 2018, vol. 30, no. 11, pp. 910-917., Registrované v: WOS

7. [1.1] SAOUDI, Boudjema - HABBECHÉ, Amina - KEROUAZ, Bilal - HABERRA, Soumaya - BEN ROMDHANE, Zamen - TICHATI, Lazhari - BOUDELA, Mokhtar - BELGHITH, Hafedh - GARGOURI, Ali - LADJAMA, Ali. Purification and characterization of a new thermoalkaliphilic pectate lyase

from *Actinomadura keratinilytica* Cpt20. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2015, vol. 50, no. 12, pp. 2259-2266., Registrované v: WOS

8. [1.1] SHARMA, Harsh P. - PATEL, Hiral - SUGANDHA. Enzymatic added extraction and clarification of fruit juices-A review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 6, pp. 1215-1227., Registrované v: WOS

9. [1.1] SOLIS, Maria-Teresa - BERENGUER, Eduardo - RISUENO, Maria C. - TESTILLANO, Pilar S. BnPME is progressively induced after microspore reprogramming to embryogenesis, correlating with pectin de-esterification and cell differentiation in *Brassica napus*. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2016, vol. 16, no., pp., Registrované v: WOS

10. [1.2] GUNDALA, Prasada Babu - CHINTHALA, Paramageetham. Extremophilic pectinases. In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 155-180., Registrované v: SCOPUS

11. [1.2] SAELEE, Manee - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - CHAIYASUT, Chaiyavat. Extraction and evaluation of pectin methylesterase from *Morinda citrifolia*. In *Journal of Applied Pharmaceutical Science*, 2017-11-01, 7, 11, pp. 180-183., Registrované v: SCOPUS

ABC24 SCHILLER, Jürgen - VOLPI, Nikola - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Hyaluronic acid: a natural biopolymer : chapt. 1. In *Biopolymers: biomedical and environmental applications*. - Salem : Scrivener : Wiley, 2011, p. 3-34. ISBN 978-0-470-63923-8. Dostupné na: <https://doi.org/10.1002/9781118164792.ch1>

Ohlasy:

1. [1.2] GAJDZIOK, J. - PECHOVÁ, V. Possibilities of using sodium hyaluronate in pharmaceutical and medical fields. [Možnosti využití hyaluronátu sodného ve farmácii a medicíně] In *CESKA A SLOVENSKA FARMACIE*. ISSN 1210-7816, 2017, vol. 66, no. 4, p. 154-159., Registrované v: SCOPUS
2. [1.2] JAFARI, S. - AHMADIAN, E. - FARD, J.K. - YARI KHOSROUSHAHI, A. Biomacromolecule based nanoscaffolds for cell therapy. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2017, vol. 37, p. 61-66., Registrované v: SCOPUS
3. [1.2] OLEJNIK, A. - GOSCIANSKA, J. - ZIELINSKA, A. - NOWAK, I. Stability determination of the formulations containing hyaluronic acid. In *INTERNATIONAL JOURNAL OF COSMETIC SCIENCE*. ISSN 0142-5463, 2015, vol. 37, no. 4, p. 401-407., Registrované v: SCOPUS
4. [1.2] PARTENHAUSER, A. - BERNKOP-SCHNURCH, A. Mucoadhesive polymers in the treatment of dry X syndrome. In *DRUG DISCOVERY TODAY*. ISSN 1359-6446, 2016, vol. 21, no. 7, p. 1051-1062., Registrované v: SCOPUS
5. [1.2] SOSNIK, A. - MENAKER RASKIN, M. Polymeric micelles in mucosal drug delivery: Challenges towards clinical translation. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2015, vol. 33, no. 6, p. 1380-1392., Registrované v: SCOPUS
6. [1.2] TÓTH, I.Y. - VERESS, G. - SZEKERES, M. - ILLÉS, E. - TOMBÁ CZ, E. Magnetic hyaluronate hydrogels: Preparation and characterization. In *JOURNAL OF MAGNETISM AND MAGNETIC*

MATERIALS. ISSN 0304-8853, 2015, vol. 380, p. 175-180., Registrované v: SCOPUS

7. [1.2] WALICOVÁ, V. - GAJDZIOK, J. - GAJDOSOVÁ, M. - VETCHY, D. The influence of hyaluronan addition on thickness, weight, uniformity of mass and water content of mucoadhesive films. In CESKA A SLOVENSKA FARMACIE. ISSN 1210-7816, 2016, vol. 65, p. 94-98., Registrované v: SCOPUS

8. [1.2] ZHANG, Jun - MAO, Hanyan - ZOU, Xi - DENG, Guohua. Use of medical sodium hyaluronate gel in surgical removal of a glass intraocular foreign body. In Journal of International Medical Research. ISSN 03000605, 2020-01-01, 48, 9, pp., Registrované v: SCOPUS

ABC25 ŠIMKOVIC, Ivan. Trends in thermal stability study of chemically modified lignocellulose materials. In *Polymer Degradation and Stability Research Developments*. - Hauppauge : Nova Science Publishers, 2007, p. 217-236. ISBN 978-60021-827-9.

Ohlasy:

1. [1.1] GALLOS, Antoine - PAES, Gabriel - ALLAIS, Florent - BEAUGRAND, Johnny. Lignocellulosic fibers: a critical review of the extrusion process for enhancement of the properties of natural fiber composites. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 55, pp. 34638-34654., Registrované v: WOS

2. [1.1] PAUKSZTA, Dominik - MARKIEWICZ, Ewa - OSTROWSKI, Adam - DOCZEKALSKA, Beata - BRZYSKA, Magdalena - SZOSTAK, Marek - BORYSIK, Sławomir. Recycling of lignocellulosics filled polypropylene composites. I. Analysis of thermal properties, morphology, and amount of free radicals. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 12, pp., Registrované v: WOS

ABC26 ŠVITEL, Juraj - TKÁČ, Ján - VOŠTIAR, Igor - NAVRÁTIL, Martin - GEMEINER, Peter. Microbial biosensors and biofuel cells based on acetobacter and gluconobacter. In *Biosensors: Properties, Materials and Applications*. - Brentwood USA : Nova Publishers, 2009, 247-264. ISBN 978-1-60741-617-3.

Ohlasy:

1. [3.2] Kamanin, S. S.; Arlyapov, V. A.; Ponamoreva, O. N.; Blokhin, I. V.; Alferov, V. A.; Reshetilov, A. N. SCREEN-PRINTED ELECTRODES MODIFIED WITH PROTEIN HYDROGEL AND BACTERIAL CELLS AS THE BASIS OF AMPEROMETRIC BIOSENSOR. In: *Sensornye Sistemy*, 2017, vol. 31, issue: 2, p. 161-171, ISSN 0235-0092., Registrované v: BIOSIS Citation Index

Zobrazovací formát pre typ dokumentu " nedefinovaný! sysno:165936

ABC27 TKÁČ, Ján - DAVIS, J. *Label-free field effect protein sensing*

Ohlasy:

1. [1.1] ARYA, Sunil K. - ZHURAUSKI, Pavel - JOLLY, Pawan - BATISTUTI, Marina R. - MULATO, Marcelo - ESTRELA, Pedro. Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 102, no., pp. 106-112., Registrované v: WOS

2. [1.1] BRAUN, Artur - BOUDOIRE, Florent - BORA, Debajeet K. -

- FACCIO, Greta - HU, Yelin - KROLL, Alexandra - MUN, Bongjin S. - WILSON, Samuel T. Biological Components and Bioelectronic Interfaces of Water Splitting Photoelectrodes for Solar Hydrogen Production. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 11, pp. 4188-4199., Registrované v: WOS
3. [1.1] DOAN, Nhi M. - QIANG, Liangliang - LI, Zhe - VADDIRAJU, Santhisagar - BISHOP, Gregory W. - RUSLING, James F. - PAPADIMITRAKOPOULOS, Fotios. Low-Cost Photolithographic Fabrication of Nanowires and Microfilters for Advanced Bioassay Devices. In SENSORS. ISSN 1424-8220, 2015, vol. 15, no. 3, pp. 6091-6104., Registrované v: WOS
4. [1.1] GOBBO, Pierangelo - ANTONELLO, Sabrina - GURYANOV, Ivan - POLO, Federico - SOLDA, Alice - ZEN, Federico - MARAN, Flavio. Dipole Moment Effect on the Electrochemical Desorption of Self-Assembled Monolayers of 3(10)-Helicogenic Peptides on Gold. In CHEMELECTROCHEM. ISSN 2196-0216, 2016, vol. 3, no. 12, pp. 2063-2070., Registrované v: WOS
5. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. - NUZAIHAN, M. M. - FATHIL, M. F. M. - SHAMSUDDIN, Shahidah Arina. Immunosensing prostate-specific antigen: Faradaic vs non-Faradaic electrochemical impedance spectroscopy analysis on interdigitated microelectrode device. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 1924-1936. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.125>., Registrované v: WOS
6. [1.1] MUNGE, Bernard S. - STRACENSKY, Thomas - GAMEZ, Kathleen - DIBIASE, Dimitri - RUSLING, James F. Multiplex Immunosensor Arrays for Electrochemical Detection of Cancer Biomarker Proteins. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 11, pp. 2644-2658., Registrované v: WOS

ABC28 TKÁČ, Ján - BERTÓK, Tomáš - NAHÁLKA, Jozef - GEMEINER, Peter. Perspectives in glycomics and lectin engineering. In *HIRABAYASHI, Jun: Lectins: Methods and Protocols (Series: Methods in Molecular Biology)*. - New York : Humana Press, imprint of Springer Media, 2014, vol. 1200, chapter 37, p. 421-445. ISBN 978-1-4939-1291-9. Dostupné na: https://doi.org/10.1007/978-1-4939-1292-6_37

Ohlasy:

1. [1.1] HUSSEIN, Hosni A. M. - WALKER, Lia R. - ABDEL-RAOUF, Usama M. - DESOUKY, Sayed A. - MONTASSER, Abdel Khalek M. - AKULA, Shaw M. Beyond RGD: virus interactions with integrins. In ARCHIVES OF VIROLOGY. ISSN 0304-8608, 2015, vol. 160, no. 11, pp. 2669-2681., Registrované v: WOS
2. [1.1] KASHAW, Sushil K. - SAHU, Prashant - RAJORIYA, Vaibhav - JANA, Pradeep - KASHAW, Varsha - SAU, Samaresh - IYER, Arun K. Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 27, pp. 3234-3250. Dostupné na: <https://doi.org/10.2174/1381612826666200417143800>., Registrované v: WOS
3. [1.1] SRINIVASAN, Karunya - ROY, Sucharita - WASHBURN, Nathaniel - SIPSEY, Sandra F. - MECCARIELLO, Robin - MEADOR, James W. - LING, Leona E. - MANNING, Anthony M. - KAUNDINYA, Ganesh V. A

Quantitative Microtiter Assay for Sialylated Glycoform Analyses Using Lectin Complexes. In JOURNAL OF BIOMOLECULAR SCREENING. ISSN 1087-0571, 2015, vol. 20, no. 6, p. 768-778., Registrované v: WOS
 4. [1.2] GRUNWALD, Peter. Glycoconjugates: A brief overview. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 29-146., Registrované v: SCOPUS

ABC29 VADKERTIOVÁ, Renáta - DUDÁŠOVÁ, Hana - BALAŠČÁKOVÁ, Marta. Yeasts in agricultural and managed soils. In *Yeasts in Natural : Diversity*. - Cham : Springer Nature, 2017, p. 117-144. ISBN 978-3-319-62682-6. Dostupné na: https://doi.org/10.1007/978-3-319-62683-3_4

Ohlasy:

1. [1.1] GROENEWALD, Marizeth - LOMBARD, Lorenzo - DE VRIES, Michel - LOPEZ, Alejandra Giraldo - SMITH, Maudy - CROUS, Pedro W. Diversity of yeast species from Dutch garden soil and the description of six novel Ascomycetes. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2018, vol. 18, no. 7, pp., Registrované v: WOS
2. [1.1] KORICHA, Anbessa Dabassa - HAN, Da-Yong - BACHA, Ketema - BAI, Feng-Yan. Occurrence and Molecular Identification of Wild Yeasts from Jimma Zone, South West Ethiopia. In MICROORGANISMS, 2019, vol. 7, no. 12, pp., Registrované v: WOS
3. [1.1] SIBANC, Natasa - ZALAR, Polona - SCHROERS, Hans-Josef - ZAJC, Janja - PONTES, Ana - SAMPAIO, Jose Paulo - MACEK, Irena. *Occultifur mephitis* f.a., sp nov and other yeast species from hypoxic and elevated CO₂ mofette environments. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2018, vol. 68, no. 7, pp. 2285-2298., Registrované v: WOS
4. [1.1] TEPEEVA, A. N. - GLUSHAKOVA, A. M. - KACHALKIN, A. Yeast Communities of the Moscow City Soils. In MICROBIOLOGY. ISSN 0026-2617, 2018, vol. 87, no. 3, pp. 407-415., Registrované v: WOS
5. [1.1] YURKOV, Andrey M. Yeasts of the soil obscure but precious. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS

ABC30 VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIESOLOVÁ, Elena - NAGY, Milan - MISLOVIČOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTĚS, Ladislav. Radical degradation of high molar mass hyaluronan induced by ascorbate plus cupric ions: Testing of arbutin in the function of antioxidant. In *Advances in kinetics and mechanism of chemical reactions*. - Oakville ; Waretown : Apple Academic Press, 2013, p. 1-18. ISBN 978-1-926895-42-0. VEGA 1/0145/10, APVV 0488-07, ITMS 26220120054

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING

TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ACB Academic/university textbooks published in Slovak publishing houses

ACB01 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Xylans of industrial and biomedical importance. In *Biotechnology and genetic engineering reviews*, 1999, vol. 16, o. 325-346. ISSN 0264-8725.

Ohlasy:

1. [1.1] BIELY, Peter - SINGH, Suren - PUCHART, Vladimír. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1260-1274., Registrované v: WOS

2. [1.1] BONORA, Beatrice - BOOS, Irene - CLAUSEN, Mads H. Convergent strategy for the synthesis of S-linked oligoxylans. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 443, no., pp. 53-57., Registrované v: WOS

3. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (Euterpe oleraceae). In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS

4. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS

5. [1.1] GABRIEL, Lars - GERICKE, Martin - HEINZE, Thomas. Modular synthesis of non-charged and ionic xylan carbamate derivatives from xylan carbonates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 782-790., Registrované v: WOS

6. [1.1] GABRIEL, Lars - GUENTHER, Wolfgang - PIELENZ, Friederike - HEINZE, Thomas. Determination of the Binding Situation of Pyridine in Xylan Sulfates by Means of Detailed NMR Studies. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2020, vol. 221, no. 1, pp. Dostupné na: <https://doi.org/10.1002/macp.201900327>., Registrované v: WOS

7. [1.1] GAMI, Pratik - KUNDU, Debashis - SEERA, Sai Dileep Kumar - BANERJEE, Tamal. Chemically crosslinked xylan-beta-Cyclodextrin hydrogel for the in vitro delivery of curcumin and 5-Fluorouracil. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 158, no., pp. 18-31. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.237>., Registrované v: WOS

8. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan

Ethers. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS

9. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Synthesis and characterization of functionalized 4-O-methylglucuronoxylan derivatives. In HOLZFORSCHUNG. ISSN 0018-3830, 2015, vol. 69, no. 6, pp. 713-720., Registrované v: WOS

10. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Periodate oxidation of 4-O-methylglucuronoxylans: Influence of the reaction conditions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 45-50., Registrované v: WOS

11. [1.1] CHEMIN, Maud - WIROTIUS, Anne-Laure - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Well-defined oligosaccharides by mild acidic hydrolysis of hemicelluloses. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 66, no., pp. 190-197., Registrované v: WOS

12. [1.1] KUNDU, Debashis - BANERJEE, Tamal. Carboxymethyl Cellulose-Xylan Hydrogel: Synthesis, Characterization, and in Vitro Release of Vitamin B-12. In ACS OMEGA. ISSN 2470-1343, 2019, vol. 4, no. 3, pp. 4793-4803., Registrované v: WOS

13. [1.1] LEE, Younghyun - KWON, Eilhann E. - LEE, Jechan. Polymers derived from hemicellulosic parts of lignocellulosic biomass. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2019, vol. 18, no. 2, pp. 317-334., Registrované v: WOS

14. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v: WOS

15. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHAP, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS

16. [1.1] NAHUN SOLIER, Yamil - NATALI SCHNELL, Carla - NOEL CABRERA, Maria - ANGEL ZANUTTINI, Miguel - CRISTINA INALBON, Maria. Alkali-peroxide extraction of xylan from sugar cane bagasse. Characteristics and film forming capacity. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 145, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2019.112056>., Registrované v: WOS

17. [1.1] NGUYEN HOANG CHUNG - PHAN HUY HOANG. PREPARATION OF OAT SPELT XYLAN AND ITS APPLICATION AS ADDITIVE FOR ENHANCEMENT OF PAPER PROPERTIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2019,

vol. 53, no. 5-6, pp. 499-507., Registrované v: WOS

18. [1.1] PAHIMANOLIS, Nikolaos - KILPELAINEN, Petri - MASTER, Emma - ILVESNIEMI, Hannu - SEPPALA, Jukka. Novel thiol- amine- and amino acid functional xylan derivatives synthesized by thiol-ene reaction. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 392-398., Registrované v: WOS

19. [1.1] PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS

20. [1.1] PFEIFER, Annett - HEINZE, Thomas. Synthesis of pyridine-free xylan sulfates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 65-69., Registrované v: WOS

21. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS

22. [1.1] ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>., Registrované v: WOS

23. [1.1] ROSSELGONG, Julien - CHEMIN, Maud - ALMADA, Cedric Cabral - HEMERY, Gauvin - GUIGNER, Jean-Michel - CHOLLET, Guillaume - LABAT, Gilles - PEREZ, Denilson Da Silva - HAM-PICHAVANT, Frederique - GRAU, Etienne - GRELIER, Stephane - LECOMMANDOUX, Sebastien - CRAMAIL, Henri. Synthesis and Self-Assembly of Xylan-Based Amphiphiles: From Bio-Based Vesicles to Antifungal Properties. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 1, pp. 118-129., Registrované v: WOS

24. [1.1] SCHNEIDER, Vanessa Suzane - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. beta-L-Araf-containing arabinan and glucuronoxylan from guavira fruit pomace. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 481, no., pp. 16-22., Registrované v: WOS

25. [1.1] SPASOJEVIC, Dragica - PROKOPIJEVIC, Milos - PRODANOVIC, Olivera - ZELENOVIC, Nevena - POLOVIC, Natalija - RADOTIC, Ksenija - PRODANOVIC, Radivoje. Peroxidase-Sensitive Tyramine Carboxymethyl Xylan Hydrogels for Enzyme Encapsulation. In MACROMOLECULAR RESEARCH. ISSN 1598-5032, 2019, vol. 27, no. 8, pp. 764-771., Registrované v: WOS

26. [1.1] URBIZO-REYES, Uriel - SAN MARTIN-GONZALEZ, M. Fernanda - GARCIA-BRAVO, Jose - LICEAGA, Andrea M. Development of chia seed (*Salvia hispanica*) mucilage films plasticized with polyol mixtures: Mechanical and barrier properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 854-864. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.023>., Registrované v: WOS

27. [1.1] WEI, Lusha - RHEE, Mun Su - PRESTON, James F. - CHEN, Hui. Production of acidic xylooligosaccharides from

- methylglucuronarabinoxylans by *Bacillus subtilis* strain MR44. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2016, vol. 91, no. 7, pp. 2056-2062., Registrované v: WOS
28. [1.1] ZEMPLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS
29. [1.1] ZHANG, Mao - CAI, Gengyuan - ZHENG, Enqing - ZHANG, Guangguang - LI, Yang - LI, Zicong - YANG, Huaqiang - WU, Zhenfang. Transgenic pigs expressing xylanase in the parotid gland improve nutrient utilization. In TRANSGENIC RESEARCH. ISSN 0962-8819, 2019, vol. 28, no. 2, pp. 189-198., Registrované v: WOS
30. [1.2] ALI, Akbar - AHMED, Shakeel. Natural polymers: An overview. In Natural Polymers: Derivatives, Blends and Composites, Volume I, 2016-01-01, pp. 1-22., Registrované v: SCOPUS
31. [1.2] DONATO, Paola Di - POLI, Annarita - TAURISANO, Valentina - NICOLAUS, Barbara. Polysaccharides from bioagro-waste for new biomolecules. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 603-637., Registrované v: SCOPUS
32. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
33. [1.2] GUPTA, Praveen Kumar - AGRAWAL, Pushpa - HEDGE, Prabha - AKHTAR, Mohd Sayeed. Xylooligosaccharides and their anticancer potential: An update. In Anticancer Plants: Natural Products and Biotechnological Implements, 2018-01-01, 2, pp. 255-271., Registrované v: SCOPUS
34. [1.2] MADEIRA, Jose Valdo - CONTESEINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications, 2016-08-04, pp. 475-511., Registrované v: SCOPUS
35. [1.2] YADAV, Preeti - YADAV, Harsh - SHAH, Veena Gowri - SHAH, Gaurav - DHAKA, Gaurav. Biomedical biopolymers, their origin and evolution in biomedical sciences: A systematic review. In Journal of Clinical and Diagnostic Research. ISSN 2249782X, 2015-09-01, 9, 9, pp. 21-25., Registrované v: SCOPUS
36. [3.1] Rubio MV, Tramontina R, Augusto T, Squina AR. (2016). Heterologous Expression of Carbohydrate-Active Enzymes in Filamentous Fungi. In Fungal Biotechnology for Biofuel Production (Book Series: Mycology: Current and Future Developments, volume 1). (Bentham 2016, pp. 148-201)

ADC ADC

- ADC01 ALEXY, P. - KOSIKOVA, Božena - POLÓNYI, J. - PODSTRANSKA, G.. The effect of blending lignin with polyethylene and polypropylene on physical properties. In *Polymer : the international journal for the science and technology of polymers*, 2000, vol. 41, p. 4901-4908. (1999: 1.340 - IF, Current Contents - CCC).

(2000 - Current Contents). ISSN 0032-3861. Dostupné na:
[https://doi.org/10.1016/S0032-3861\(99\)00714-4](https://doi.org/10.1016/S0032-3861(99)00714-4)

Ohlasy:

1. [1.1] ABDELWAHAB, Mohamed A. - MISRA, Manjusri - MOHANTY, Amar K. Injection molded biocomposites from polypropylene and lignin: Effect of compatibilizers on interfacial adhesion and performance. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 132, no., pp. 497-510., Registrované v: WOS
2. [1.1] ALEKHINA, Marina - ERDMANN, Jens - EBERT, Andreas - STEPAN, Agnes M. - SIXTA, Herbert. Physico-chemical properties of fractionated softwood kraft lignin and its potential use as a bio-based component in blends with polyethylene. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2015, vol. 50, no. 19, pp. 6395-6406., Registrované v: WOS
3. [1.1] ANAGNOU, Stavros C. - MILIONI, Eleni G. - MPALIAS, Costas S. - KARTSONAKIS, Ioannis A. - KOUMOULOS, Elias P. - CHARITIDIS, Costas A. Influence of lignin modification on the mechanical properties of lignin/PEO blends. In INTERNATIONAL JOURNAL OF STRUCTURAL INTEGRITY. ISSN 1757-9864, 2016, vol. 7, no. 6, pp. 762-772., Registrované v: WOS
4. [1.1] BERSTIS, Laura - ELDER, Thomas - CROWLEY, Michael - BECKHAM, Gregg T. Radical Nature of C-Lignin. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5327-5335., Registrované v: WOS
5. [1.1] BORYSIK, Slawomir - KLAPISZEWSKI, Lukasz - BULA, Karol - JESIONOWSKI, Teofil. Nucleation ability of advanced functional silica/lignin hybrid fillers in polypropylene composites. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2016, vol. 126, no. 1, pp. 251-262., Registrované v: WOS
6. [1.1] BORYSIK, Slawomir - KLAPISZEWSKI, Lukasz - BULA, Karol - JESIONOWSKI, Teofil. Nucleation ability of advanced functional silica/lignin hybrid fillers in polypropylene composites. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2016, vol. 126, no. 1, pp. 251-262., Registrované v: WOS
7. [1.1] BUONO, Pietro - DUVAL, Antoine - VERGE, Pierre - AVEROUS, Luc - HABIBI, Youssef. New Insights on the Chemical Modification of Lignin: Acetylation versus Silylation. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5212-5222., Registrované v: WOS
8. [1.1] COLLINS, Maurice N. - NECHIFOR, Marioara - TANASA, Fulga - ZANOAGA, Madalina - MCLOUGHLIN, Anne - STROZYK, Michal A. - CULEBRAS, Mario - TEACA, Carmen-Alice. Valorization of lignin in polymer and composite systems for advanced engineering applications A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 828-849., Registrované v: WOS
9. [1.1] DEHNE, Laura - VILA, Carlos - SAAKE, Bodo - SCHWARZ, Katrin U. Esterification of Kraft lignin as a method to improve structural and mechanical properties of lignin-polyethylene blends. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 11, pp., Registrované v: WOS
10. [1.1] DICK, Teo Atz - COUVE, Joel - GIMELLO, Olinda - MAS,

- Andre - ROBIN, Jean-Jacques. Chemical modification and plasma-induced grafting of pyrolytic lignin. Evaluation of the reinforcing effect on lignin/poly(L-lactide) composites. In POLYMER. ISSN 0032-3861, 2017, vol. 118, no., pp. 280-296., Registrované v: WOS
11. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
12. [1.1] GADIOLI, Renan - WALDMAN, Walter Ruggeri - DE PAOLI, Marco Aurelio. Lignin as a green primary antioxidant for polypropylene. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2016, vol. 133, no. 45, pp., Registrované v: WOS
13. [1.1] GHOZALI, M. - TRIWULANDARI, E. - HARYONO, A. - YUANITA, E. Effect of lignin on morphology, biodegradability, mechanical and thermal properties of low linear density polyethylene/lignin biocomposites. In INNOVATION IN POLYMER SCIENCE AND TECHNOLOGY 2016 (IPST 2016). ISSN 1757-8981, 2017, vol. 223, no., pp., Registrované v: WOS
14. [1.1] GORDOBIL, Oihana - DELUCIS, Rafael - EGUEES, Itziar - LABIDI, Jalel. Kraft lignin as filler in PLA to improve ductility and thermal properties. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 72, no., pp. 46-53., Registrované v: WOS
15. [1.1] GORDOBIL, Oihana - EGUES, Itziar - LABIDI, Jalel. Modification of Eucalyptus and Spruce organosolv lignins with fatty acids to use as filler in PLA. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2016, vol. 104, no., pp. 45-52., Registrované v: WOS
16. [1.1] GORDOBIL, Oihana - MORIANA, Rosana - ZHANG, Liming - LABIDI, Jalel - SEVASTYANOVA, Olena. Assessment of technical lignins for uses in biofuels and biomaterials: Structure-related properties, proximate analysis and chemical modification. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 83, no., pp. 155-165., Registrované v: WOS
17. [1.1] GUPTA, Surojit - RIYAD, M. F. - JI, Yun. Synthesis and Tribological Behavior of Ultra High Molecular Weight Polyethylene (UHMWPE)-Lignin Composites. In LUBRICANTS. ISSN 2075-4442, 2016, vol. 4, no. 3, pp., Registrované v: WOS
18. [1.1] HARB, Samarah Vargas - CERRUTTI, Bianca Machado - PULCINELLI, Sandra Helena - SANTILLI, Celso Valentim - HAMMER, Peter. Siloxane-PMMA hybrid anti-corrosion coatings reinforced by lignin. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, 2015, vol. 275, no., pp. 9-16., Registrované v: WOS
19. [1.1] HARI, Jozsef - SARKOZI, Mark - FOLDES, Eniko - PUKANSZKY, Bela. Long term stabilization of PE by the controlled release of a natural antioxidant from halloysite nanotubes. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2018, vol. 147, no., pp. 229-236., Registrované v: WOS
20. [1.1] HUANG, Caoxing - HE, Juan - NARRON, Robert - WANG, Yuhua - YONG, Qiang. Characterization of Kraft Lignin Fractions Obtained by Sequential Ultrafiltration and Their Potential Application as a Biobased Component in Blends with Polyethylene. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 12, pp. 11770-11779., Registrované v: WOS
21. [1.1] HU, Lei - STEVANOVIC, Tatjana - RODRIGUE, Denis.

- Comparative Study of Polyethylene Composites Containing Industrial Lignins. In POLYMERS & POLYMER COMPOSITES. ISSN 0967-3911, 2015, vol. 23, no. 6, pp. 369-374., Registrované v: WOS
22. [1.1] CHIELLINI, Emo - COMETA, Stefania - CORTI, Andrea. Oxo-Biodegradable Polymers. In ENCYCLOPEDIA OF POLYMER APPLICATIONS, VOLS I-III, 2019, vol., no., pp. 1907-1957., Registrované v: WOS
23. [1.1] CHILE, L.E. - EBRAHIMI, T. - WONG, A. - ALUTHGE, D. C. - HATZIKIRIAKOS, S. G. - MEHRKHODAVANDI, P. Impact of aryloxy initiators on the living and immortal polymerization of lactide. In DALTON TRANSACTIONS. ISSN 1477-9226, 2017, vol. 46, no. 20, pp. 6723-6733., Registrované v: WOS
24. [1.1] CHIOU, Bor-Sen - VALENZUELA-MEDINA, Diana - WECHSLER, Mark - BILBAO-SAINZ, Cristina - KLAMCZYNSKI, Artur K. - WILLIAMS, Tina G. - WOOD, Delilah F. - GLENN, Greg M. - ORTS, William J. Torrefied Biomass-Polypropylene Composites. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 10, pp., Registrované v: WOS
25. [1.1] IYER, Krishnan A. - TORKELESON, John M. Sustainable Green Hybrids of Polyolefins and Lignin Yield Major Improvements in Mechanical Properties When Prepared via Solid-State Shear Pulverization. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 5, pp. 959-968., Registrované v: WOS
26. [1.1] JAVED, Asif - ULLSTEN, Henrik - RATTO, Peter - JARNSTROM, Lars. Lignin-containing coatings for packaging materials. In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2018, vol. 33, no. 3, pp. 548-556., Registrované v: WOS
27. [1.1] JIANG, Guojun - XIE, Sheng. Preparation and Electrochemical Properties of Lignin Porous Carbon Spheres as the Negative Electrode of Lithium Ion Batteries. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2019, vol. 14, no. 6, pp. 5422-5434., Registrované v: WOS
28. [1.1] KABIR, Afsana S. - LI, Hongwei - YUAN, HonZhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). Effects of de-polymerized lignin content on thermo-oxidative and thermal stability of polyethylene. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2019, vol. 140, no., pp. 413-422., Registrované v: WOS
29. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS
30. [1.1] KAI, Dan - JIANG, Shan - LOW, Zhi Wei - LOH, Xian Jun. Engineering highly stretchable lignin-based electrospun nanofibers for potential biomedical applications. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 30, pp. 6194-6204., Registrované v: WOS
31. [1.1] KAI, Dan - TAN, Mein Jin - CHEE, Pei Lin - CHUA, Yun Khim - YAP, Yong Liang - LOH, Xian Jun. Towards lignin-based functional materials in a sustainable world. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 5, pp. 1175-1200., Registrované v: WOS

32. [1.1] KIM, Seok Ju - KIM, Yong Sik - LEE, Oh-Kyu - AHN, Byoung-Jun. Synthesis and characterization of kraft lignin-graft-poly lactide copolymers. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 6, pp. 1293-1304., Registrované v: WOS
33. [1.1] KIM, Sunghoon - OH, Seungtaek - LEE, Jungmin - ROH, Hyun-gyoo - PARK, Jongshin. Changes of Lignin Molecular Structures in a Modification of Kraft Lignin Using Acid Catalyst. In Materials. ISSN 1996-1944, 2016, vol. 9, no. 8, pp., Registrované v: WOS
34. [1.1] KIRSCHWENG, Balazs - VOROS, Benedek - TATRAALJAI, Dora - ZSUGA, Miklos - FOLDES, Eniko - PUKANSZKY, Bela. Natural antioxidants as melt stabilizers for PE: Comparison of silymarin and quercetin. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 90, no., pp. 456-466., Registrované v: WOS
35. [1.1] KIRSCHWENG, Balazs - TILINGER, Daniel Mirko - HEGELY, Bence - SAMU, Gyula - TATRAALJAI, Dora - FOLDES, Eniko - PUKANSZKY, Bela. Melt stabilization of PE with natural antioxidants: Comparison of rutin and quercetin. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2018, vol. 103, no., pp. 228-237., Registrované v: WOS
36. [1.1] KIRSCHWENG, B. - BENCZE, K. - SARKOEZI, M. - HEGELY, B. - SAMU, Gy. - HARI, J. - TATRAALJAI, D. - FOELDES, E. - KALLAY, M. - PUKANSZKY, B. Melt stabilization of polyethylene with dihydromyricetin, a natural antioxidant. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2016, vol. 133, no., pp. 192-200., Registrované v: WOS
37. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
38. [1.1] KLAPISZEWSKI, Lukasz - BULA, Karol - DOBROWOLSKA, Anna - CZACZYK, Katarzyna - JESIONOWSKI, Teofil. A high-density polyethylene container based on ZnO/lignin dual fillers with potential antimicrobial activity. In POLYMER TESTING. ISSN 0142-9418, 2019, vol. 73, no., pp. 51-59., Registrované v: WOS
39. [1.1] KUMAR, Ashish - TUMU, Venkatappa Rao - CHOWDHURY, Subhendu Ray - REDDY, Ramana S. V. S. A green physical approach to compatibilize a bio-based poly (lactic acid)/lignin blend for better mechanical, thermal and degradation properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, no., pp. 588-600., Registrované v: WOS
40. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
41. [1.1] LANG, Jason M. - SHRESTHA, Umesh M. - DADMUN, Mark. The effect of Plant source on the Properties of lignin-Based Polyurethanes. In FRONTIERS IN ENERGY RESEARCH. ISSN 2296-598X, 2018, vol. 6, no., pp., Registrované v: WOS
42. [1.1] LEONZIO, Grazia - FOSCOLO, Pier Ugo - ZONDERVAN, Edwin. Sustainable utilization and storage of carbon dioxide: Analysis and design of an innovative supply chain. In COMPUTERS & CHEMICAL ENGINEERING. ISSN 0098-1354, 2019, vol. 131, no., pp., Registrované v:

WOS

43. [1.1] LIAO, Jingjing - BROSSE, Nicolas - PIZZI, Antonio - HOPPE, Sandrine - XI, Xuedong - ZHOU, Xiaojian. Polypropylene Blend with Polyphenols through Dynamic Vulcanization: Mechanical, Rheological, Crystalline, Thermal, and UV Protective Property. In POLYMERS, 2019, vol. 11, no. 7, pp., Registrované v: WOS
44. [1.1] LIAO, Jingjing - BROSSE, Nicolas - PIZZI, Antonio - HOPPE, Sandrine. Dynamically Cross-Linked Tannin as a Reinforcement of Polypropylene and UV Protection Properties. In POLYMERS. ISSN 2073-4360, 2019, vol. 11, no. 1, pp., Registrované v: WOS
45. [1.1] LIU, H. Clive - CHIEN, An-Ting - NEWCOMB, Bradley A. - LIU, Yaodong - KUMAR, Satish. Processing, Structure, and Properties of Lignin- and CNT-Incorporated Polyacrylonitrile-Based Carbon Fibers. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 9, pp. 1943-1954., Registrované v: WOS
46. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS
47. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
48. [1.1] LUO, Shupin - CAO, Jinzhen - MCDONALD, Armando G. Esterification of industrial lignin and its effect on the resulting poly(3-hydroxybutyrate-co-3-hydroxyvalerate) or polypropylene blends. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 281-291., Registrované v: WOS
49. [1.1] LU, Chunhong - BLACKWELL, Charles - REN, Qingyuan - FORD, Ericka. Effect of the Coagulation Bath on the Structure and Mechanical Properties of Gel-Spun Lignin/Poly(vinyl alcohol) Fibers. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 4, pp. 2949-2959., Registrované v: WOS
50. [1.1] MALDHURE, Atul V. - EKHE, Jayant D. Effect of modifications of lignin on thermal, structural, and mechanical properties of polypropylene/modified lignin blends. In JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS. ISSN 0892-7057, 2017, vol. 30, no. 5, pp. 625-645., Registrované v: WOS
51. [1.1] MIAO, Chuanwei - HAMAD, Wadood Y. Controlling lignin particle size for polymer blend applications. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 14, pp., Registrované v: WOS
52. [1.1] NEWCOMB, Bradley A. Processing, structure, and properties of carbon fibers. In COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, 2016, vol. 91, no., pp. 262-282., Registrované v: WOS
53. [1.1] NIARAKI, Pouria Rezaee - LATIBARI, Ahmad Jahan - RASHNO, Arash - TAJDINI, Ajang. The interaction of delignification and fiber

characteristics on the mechanical properties of old corrugated container fiber/polypropylene composite. In SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS. ISSN 0792-1233, 2017, vol. 24, no. 1, pp. 35-40., Registrované v: WOS

54. [1.1] ORTNER, Andreas - HOFER, Karin - BAUER, Wolfgang - NYANHONGOA, Gibson S. - GUEBITZ, Georg M. Laccase modified lignosulfonates as novel binder in pigment based paper coating formulations. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2018, vol. 123, no., pp. 20-25., Registrované v: WOS

55. [1.1] PERETTI, Steven W. - BARTON, Ryan - TEIXEIRA MENDONCA, Regis. Lignin as Feedstock for Fibers and Chemicals. In COMMERCIALIZING BIOBASED PRODUCTS: OPPORTUNITIES, CHALLENGES, BENEFITS, AND RISKS. ISSN 1757-7039, 2016, vol. 43, no., pp. 132-165., Registrované v: WOS

56. [1.1] SADEGHIFAR, Hasan - ARGYROPOULOS, Dimitris S. Macroscopic Behavior of Kraft Lignin Fractions: Melt Stability Considerations for Lignin-Polyethylene Blends. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5160-5166., Registrované v: WOS

57. [1.1] SALANTI, Anika - ZOIA, Luca - ZANINI, Stefano - ORLANDI, Marco. Synthesis and characterization of lignin-silicone hybrid polymers as possible consolidants for decayed wood. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 1, pp. 117-134., Registrované v: WOS

58. [1.1] SALLEM-IDRISSI, Naima - SCLAVONS, Michel - DEBECKER, Damien P. - DEVAUX, Jacques. Miscible raw lignin/nylon 6 blends: Thermal and mechanical performances. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2016, vol. 133, no. 6, pp., Registrované v: WOS

59. [1.1] SALLEM-IDRISSI, N. - VAN VELTHEM, P. - SCLAVONS, M. Fully Bio-Sourced Nylon 11/Raw Lignin Composites: Thermal and Mechanical Performances. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 12, pp. 4405-4414., Registrované v: WOS

60. [1.1] SHI, Bo - SHLEPR, Mike. Thermoplastic films containing lignin and their optical polarization properties. In JOURNAL OF POLYMER ENGINEERING. ISSN 0334-6447, 2016, vol. 36, no. 5, pp. 521-528., Registrované v: WOS

61. [1.1] SPIRIDON, Iuliana - TANASE, Constantin Edi. Design, characterization and preliminary biological evaluation of new lignin-PLA biocomposites. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 114, no., pp. 855-863., Registrované v: WOS

62. [1.1] TRIWULANDARI, Evi - GHOZALI, Muhammad - SONDARI, Dewi - SEPTIYANTI, Melati - SAMPORA, Yulianti - MELIANA, Yenny - FAHMIATI, Sri - RESTU, Witta Kartika - HARYONO, Agus. Effect of lignin on mechanical, biodegradability, morphology, and thermal properties of polypropylene/polylactic acid/lignin biocomposite. In PLASTICS RUBBER AND COMPOSITES. ISSN 1465-8011, 2019, vol. 48, no. 2, pp. 82-92., Registrované v: WOS

63. [1.1] VAIDYA, Alankar A. - COLLET, Christophe - GAUGLER, Marc - LLOYD-JONES, Gareth. Integrating softwood biorefinery lignin into polyhydroxybutyrate composites and application in 3D printing. In MATERIALS TODAY COMMUNICATIONS. ISSN 2352-4928, 2019, vol. 19, no., pp. 286-296., Registrované v: WOS
64. [1.1] VAN SCHOORS, Laetitia - MINERBE, Marielle Gueguen - MOSCARDELLI, Sandrine - RABII, Hajer - DAVIES, Peter. Antioxidant properties of flax fibers in polyethylene matrix composites. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 126, no., pp. 333-339., Registrované v: WOS
65. [1.1] WANG, Fei - YANG, Xuping - ZOU, Yangxue. Effect of the maleation of lignosulfonate on the mechanical and thermal properties of lignosulfonate/poly(epsilon-caprolactone) blends. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2016, vol. 133, no. 5, pp., Registrované v: WOS
66. [1.1] WESTWOOD, Nicholas J. - PANOVIC, Isabella - LANCEFIELD, Christopher S. Chemical Modification of Lignin for Renewable Polymers or Chemicals. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 183-216., Registrované v: WOS
67. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoxing - XU, Weilin - ZHANG, Xi. Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS
68. [1.1] ZANOAGA, Madalina - TANASA, Fulga. Photochemical Behavior of Synthetic Polymeric Multicomponent Materials Composites and Nanocomposites. In PHOTOCHEMICAL BEHAVIOR OF MULTICOMPONENT POLYMERIC-BASED MATERIALS. ISSN 1869-8433, 2016, vol. 26, no., pp. 109-164., Registrované v: WOS
69. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2016-01-01, pp. 95-118., Registrované v: SCOPUS
70. [1.2] KAI, Dan - ZHANG, Kangyi - LIOW, Sing Shy - LOH, Xian Jun. New Dual Functional PHB-Grafted Lignin Copolymer: Synthesis, Mechanical Properties, and Biocompatibility Studies. In ACS Applied Bio Materials, 2019-01-22, 2, 1, pp. 127-134., Registrované v: SCOPUS
71. [1.2] KLAPISZEWSKI, Lukasz - JESIONOWSKI, Teofil. Novel lignin-based materials as products for various applications. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 519-554., Registrované v: SCOPUS
72. [1.2] NEWCOMB, Bradley A. - CHAE, Han G. The properties of carbon fibers. In Handbook of Properties of Textile and Technical Fibres, 2018-01-01, pp. 841-871., Registrované v: SCOPUS
73. [1.2] QIU, Xue Qing - CHEN, Jian Hao - CAI, Zhen He - ZHOU, Ming Song. Color masking and mechanical properties of lignin/High-Density Polyethylene composites. In Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science). ISSN 1000565X, 2016-06-01, 44, 6, pp. 1-8., Registrované v: SCOPUS

74. [1.2] REDDY, A. Babul - MANJULA, B. - SUDHAKAR, K. - SIVANJINEYULU, V. - JAYARAMUDU, T. - SADIKU, E. R. Polyethylene/Other Biomaterials-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 279-314., Registrované v: SCOPUS
75. [1.2] VOROBYOVA, E. V. - PRYKHODZKA, E. L. Stabilization of polyethylene by natural fillers and their extracts. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2019-01-01, 2, pp. 213-223., Registrované v: SCOPUS

ADC02 ANDRE, I. - TVAROŠKA, Igor - CARVER, J.P. Effects of the complexation by the Mg²⁺ cation on the stereochemistry of the sugar-diphosphate linkage. Ab initio modelling on nucleotide-sugars. In *The Journal of physical chemistry*. A. - Washington : American Chemical Society, 2000, vol. 104, no., (Neodoberá sa. ISSN 1089-5639.

Ohlasy:

1. [1.1] HU, Zhubin - ZHOU, Bin - SUN, Zhenrong - SUN, Haitao. Prediction of Excited-State Properties of Oligoacene Crystals Using Polarizable Continuum Model-Tuned Range-Separated Hybrid Functional Approach. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 9, pp. 569-575., Registrované v: WOS
2. [1.1] JIN, Yujing - QIAO, Jing-Ai - LIU, Chang - LUO, Ling - CHI, Xin - ZHANG, Yuexing - ZENG, Ming-Hua. Charge Transfer and Delocalization in Ladder-Type Fused Bithiophene Imide Oligomers. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, 2019, vol. 123, no. 33, pp. 20093-20104., Registrované v: WOS
3. [1.1] MENDOZA, Fernanda - GOMEZ, Hansel - LLUCH, Jose M. - MASGRAU, Laura. alpha 1,4-N-Acetylhexosaminyltransferase EXTL2: The Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of Configuration. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 4, pp. 2577-2589., Registrované v: WOS
4. [1.1] VON RUDORFF, Guido F. - WATERMANN, Tobias - GUO, Xiang-Yang - SEBASTIANI, Daniel. Conformational Space of a Polyphilic Molecule with a Fluorophilic Side Chain Integrated in a DPPC Bilayer. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 9, pp. 576-583., Registrované v: WOS

ADC03 BABINCOVA, M. - MACHOVÁ, Eva. Magnetoliposomes may be useful for elimination of HIV from infected individuals. In *Zeitschrift für Naturforschung C*, 1998, vol. 53c, p. 935.

Ohlasy:

1. [1.1] EDWARDS, Katie A. Present and Potential Applications for Magnetic Liposomes in Analysis. In LIPOSOMES IN ANALYTICAL METHODOLOGIES, 2016, vol., no., pp. 309-344., Registrované v: WOS

ADC04 BELICOVA, A. - KRAJCOVIC, J. - KRIZKOVA, L. - EBRINGER, L. - KOSIKOVA, Bozena. Anti-u.v. activity of lignin biopolymers on *Euglena gracilis*. In *World Journal of Microbiology & Biotechnology*, 2000, vol. 16, p. 91. (2000 - Current Contents). Dostupné na: <https://doi.org/10.1023/A:1008978231230>

Ohlasy:

1. [1.1] LIU, Zhiqing - QIE, Runtian - LI, Wei - HONG, Nanlong - LI,

Yuan - LI, Cuihua - WANG, Rongjie - SHI, Yulin - GUO, Xuhong - JIA, Xin. Preparation of avermectin microcapsules with anti-photodegradation and slow-release by the assembly of lignin derivatives. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2017, vol. 41, no. 8, pp. 3190-3195.,

Registrované v: WOS

2. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

3. [1.1] YEARLA, Srinivasa Rao - PADMASREE, Kollipara. Preparation and characterisation of lignin nanoparticles: evaluation of their potential as antioxidants and UV protectants. In *JOURNAL OF EXPERIMENTAL NANOSCIENCE*. ISSN 1745-8080, 2016, vol. 11, no. 4, pp. 289-302., Registrované v: WOS

ADC05 BIZIK, F. - TVAROŠKA, Igor - REMKO, M. Conformational analysis of ester and ether linkages in lignin-arabinoxylan complexes. In *Carbohydrate Research*, 1994, vol. 261, p. 91. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)80008-1](https://doi.org/10.1016/0008-6215(94)80008-1)

Ohlasy:

1. [1.1] AZAD, Tanzina - SCHULER, Jonathan D. - AUAD, Maria L. - ELDER, Thomas - ADAMCZYK, Andrew J. Model Lignin Oligomer Pyrolysis: Coupled Conformational and Thermodynamic Analysis of beta-O-4 ' Bond Cleavage. In *ENERGY & FUELS*. ISSN 0887-0624, 2020, vol. 34, no. 8, pp. 9709-9724. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.0c01573>., Registrované v: WOS

ADC06 BLEHA, Tomáš - GAJDOŠ, Ján - TVAROŠKA, Igor. Change of the molecular surface and volume during internal rotation and its effect on conformational equilibrium in solution. In *Journal of Molecular Structure*, 1980, vol. 68, p. 189. Dostupné na: [https://doi.org/10.1016/0022-2860\(80\)80269-9](https://doi.org/10.1016/0022-2860(80)80269-9)

Ohlasy:

1. [1.1] BARBOSA, Ester F. G. - PEREIRA, Elsa V. - SANTOS, Angela F. S. - LAMPREIA, Isabel M. S. Conformational analysis of branched alkanes using limiting partial molar volumes. In *JOURNAL OF CHEMICAL THERMODYNAMICS*. ISSN 0021-9614, 2017, vol. 115, no., pp. 84-90., Registrované v: WOS

2. [1.1] Carbo, JJ (Carbo, Jorge J.); Garcia-Lopez, D (Garcia-Lopez, Diego); Gonzalez-del Moral, O (Gonzalez-del Moral, Octavio); Martin, A (Martin, Avelino); Mena, M (Mena, Miguel); Santamaria, C (Santamaria, Cristina): Carbon-Nitrogen Bond Construction and Carbon-Oxygen Double Bond Cleavage on a Molecular Titanium Oxonitride: A Combined Experimental and Computational Study. In: *INORGANIC CHEMISTRY* Volume: 54 Issue: 19 Pages: 9401-9412, Registrované v: WOS

3. [1.1] Wang, HY (Wang, Haiyan); Schwieger, W (Schwieger, Wilhelm); Huang, YN (Huang, Yining): An investigation of the conformational behavior of a chlorinated hydrocarbon, 1,1,2-trichloroethane, adsorbed in zeolites

by Raman spectroscopy. In: CANADIAN JOURNAL OF CHEMISTRY
Volume: 93 Issue: 1 Pages: 118-125, Registrované v: WOS

- ADC07 BREIEROVÁ, Emília - SAJBIDOR, J. - LAMACKA, M. The influence of newly synthesised fenpropimorph derivatives on some pathogen yeasts. In *Zeitschrift für Naturforschung*, 2001, vol. 56c, p. 53-57.

Ohlasy:

1. [1.1] ANGIOLELLA, Letizia - CARRADORI, Simone - MACCALLINI, Cristina - GIUSIANO, Gustavo - SUPURAN, Claudiu T. Targeting *Malassezia* species for Novel Synthetic and Natural Antidandruff Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 22, pp. 2392-2412., Registrované v: WOS

- ADC08 BYSTRICKÝ, Slavomír - SZU, S.C. - GOTOH, M. - KOVÁČ, Pavol. Circular dichroism of the O-specific polysaccharide of *Vibrio cholerae* O1 and some related derivatives. In *Carbohydrate Research*, 1995, vol. 270, p. 115. (1995 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] WANG, Wei - ZOU, Ye - LI, Qian - MAO, Riwen - SHAO, Xingjun - JIN, Dun - ZHENG, Daheng - ZHAO, Ting - ZHU, Huifen - ZHANG, Lin - YANG, Liuqing - WU, Xiangyang. Immunomodulatory effects of a polysaccharide purified from *Lepidium meyenii* Walp. on macrophages. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2016, vol. 51, no. 4, pp. 542-553., Registrované v: WOS

- ADC09 BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - BARTEK, Peter - KOLAROVA, Nadežda - KOGAN, Grigorij. Conjugation of yeast mannans with protein employing cyanopyridinium agent (CDAP)-an effective route of antifungal vaccine preparation. In *Glycoconjugate Journal*, 2000, vol. 17, p. 677-680.

Ohlasy:

1. [1.1] LEE, SeonHyung - HAN, Beom-Ku - KIM, Yang-Hoon - AHN, Ji-Young. SpyCatcher-SpyTagged ApxIA Toxoid and the Immune-Modulating Yeast Ghost Shells. In *JOURNAL OF BIOMEDICAL NANOTECHNOLOGY*. ISSN 1550-7033, 2020, vol. 16, no. 11, pp. 1644-1657. Dostupné na: <https://doi.org/10.1166/jbn.2020.2992>., Registrované v: WOS

- ADC10 CAPEK, Peter - MATULOVÁ, Mária - KARDOŠOVÁ, Alžbeta. An acidic heteropolysaccharide from the flowers of *Malva mauritiana* L. In *Journal of Carbohydrate Chemistry*, 1997, vol. 16, no. 9, p. 1373. Dostupné na: <https://doi.org/10.1080/07328309708005756>

Ohlasy:

1. [1.1] MASSEY, Shazma - MACNAUGHTAN, William - WILLIAMS, Huw E. L. - WOLF, Bettina - IQBAL, Mohammad S. A structural study of *Acacia nilotica* and *Acacia modesta* gums. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 207-215., Registrované v: WOS
2. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In

- ADC11 CAPEK, Peter - RENARD, C.M.G.C. - THIBAUT, J.F. Enzymatic degradation of cell walls of apples and characterization of solubilized products. In *International Journal of Biological Macromolecules*, 1995, vol. 17, no. 6, p. 337-340. ISSN 0141-8130. Dostupné na:
[https://doi.org/10.1016/0141-8130\(96\)81842-3](https://doi.org/10.1016/0141-8130(96)81842-3)

Ohlasy:

1. [1.1] ELEREN, Sevil Caliskan - ALTINCEKIC, Seniz Ozis - ALTINCEKIC, Erdinc. Biofuel Potential of Fruit Juice Industry Waste. In *JOURNAL OF HAZARDOUS TOXIC AND RADIOACTIVE WASTE*. ISSN 2153-5493, 2018, vol. 22, no. 4, pp., Registrované v: WOS
2. [1.1] GAMA, Repson - VAN DYK, J. Susan - PLETSCHE, Brett I. Optimisation of enzymatic hydrolysis of apple pomace for production of biofuel and biorefinery chemicals using commercial enzymes. In *3 BIOTECH*. ISSN 2190-5738, 2015, vol. 5, no. 6, pp. 1075-1087., Registrované v: WOS
3. [1.1] NADULSKI, Rafal - KOBUS, Zbigniew - WILCZYNSKI, Kamil - ZAWISLAK, Kazimierz - GROCHOWICZ, Jozef - GUZ, Tomasz. Application of Freezing and Thawing in Apple (*Malus domestica*) Juice Extraction. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2016, vol. 81, no. 11, pp. E2718-E2725., Registrované v: WOS
4. [1.1] NADULSKI, Rafal - MASLOWSKI, Andrzej - MAZUREK, Artur - SOBCZAK, Pawel - SZMIGIELSKI, Marek - ZUKIEWICZ-SOBCZAK, Wioletta - NIEDZIOŁKA, Ignacy - MAZUR, Jacek. Vitamin C and lutein content of northern highbush blueberry (*Vaccinium corymbosum* L.) juice processed using freezing and thawing. In *JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION*. ISSN 2193-4126, 2019, vol. 13, no. 4, pp. 2521-2528., Registrované v: WOS
5. [1.1] THI THANH HANH NGUYEN - SEO, Changseop - GU, Bon-Cheol - LIM, Hee-Jung - HA, Jung-Min - KIM, Seong-Bo - PARK, Jun-Seong - KIM, Doman. Production of steviol from steviol glucosides using beta-glucosidase from a commercial pectinase, Sumizyme PX. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2018, vol. 40, no. 1, pp. 197-204., Registrované v: WOS

- ADC12 ČAPEK, P. - UHRIN, D. - ROSIK, J. - KARDOŠOVÁ, Alžbeta - TOMAN, Rudolf - MIHALOV, V. Polysaccharides from the roots of the marsh mallow (*Althaea officinalis* L., var. *Rhubusta*): dianhydrides of oligosaccharides of the aldose type. In *Carbohydrate Research*, 1988, vol. 182, p. 160-165. ISSN 0008-6215.

Ohlasy:

1. [1.1] CIOBANU, Madalina - PIRVU, Lucia - PAUN, Gabriela - SAVIN, Simona - ALBU, Bujor-Gabriel - MUNTEANU, Comel - CUSU, Jeanina Pandele - ATKINSON, Irma - CULITA, Daniela C. - PETCU, Gabriela - PARVULESCU, Viorica. Development of a new (bio)hybrid matrix based on *Althaea officinalis* and *Betonica officinalis* extracts loaded into mesoporous silica nanoparticles for bioactive compounds with therapeutic applications. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2019, vol. 51, no., pp. 605-613., Registrované v: WOS

- ADC13 EBRINGEROVÁ, Anna - SROKOVA, I. - TALABA, P. - KAČURÁKOVÁ, Marta - HROMÁDKOVÁ, Zdenka. Amphiphilic beechwood glucuronoxylan derivatives. In *Journal of Applied Polymer Science*, 1998, vol. 67, no. 9, p. 1523-1530. (1997: 0.841 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0021-8995.
- Ohlasy:
1. [1.1] NYPELOE, Tlina - LAINE, Christiane - AOKI, Masaaki - TAMMELIN, Tekla - HENNIGES, Ute. Etherification of Wood-Based Hemicelluloses for Interfacial Activity. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2016, vol. 17, no. 5, pp. 1894-1901., Registrované v: WOS
 2. [1.1] ZENG, Yining - YARBROUGH, John M. - MITTAL, Ashutosh - TUCKER, Melvin P. - VINZANT, Todd B. - DECKER, Stephen R. - HIMMEL, Michael E. In situ label-free imaging of hemicellulose in plant cell walls using stimulated Raman scattering microscopy. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
- ADC14 EBRINGEROVÁ, Anna - PRUZINEC, J. - KAČURÁKOVÁ, Marta - HROMÁDKOVÁ, Zdenka. Effect of gamma-radiation on a water-insoluble arabinoxylan. In *Journal of Applied Polymer Science*, 1989, vol. 38, no. 10, p. 1919. ISSN 0021-8995.
- Ohlasy:
1. [1.1] TODARO, Simona - SABATINO, Maria Antonietta - MANGIONE, Maria Rosalia - PICONE, Pasquale - DI GIACINTO, Maria Laura - BULONE, Donatella - DISPENZA, Celia. Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 152, no., pp. 382-390., Registrované v: WOS
- ADC15 EBRINGEROVÁ, Anna - NOVOTNA, Z. - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva. Chemical modification of beechwood xylan with p-carboxybenzyl bromide. In *Journal of Applied Polymer Science*, 1996, vol. 62, p. 1043-1047. (1995: 0.896 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0021-8995.
- Ohlasy:
1. [1.1] GUO PENG - WU YAOQIN - DONG CONGCONG - SUN CHANGMEI - QU RONGJUN - JI CHUNNUAN - ZHANG YING - WANG YING. Allyl and Benzyl Modified Aramid Nanofibers as an Enhancement in Polystyrene-Based Composites. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.586763>., Registrované v: WOS
 2. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
 3. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADC16 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - SASINKOVÁ, Vlasta - HIRSCH, Ján - SROKOVA, I. Structure and properties of water-soluble p-carboxybenzyl polysaccharide derivatives. In *Journal of Applied Polymer Science*, 2000, vol. 78, pp. 1191-1199. (1999: 0.952 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0021-8995.

Ohlasy:

1. [1.1] CHENG, H. N. - WYCKOFF, Wade - DOWD, Michael K. - HE, Zhongqi. Evaluation of adhesion properties of blends of cottonseed protein and anionic water-soluble polymers. In *JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY*. ISSN 0169-4243, 2019, vol. 33, no. 1, pp. 66-78., Registrované v: WOS
2. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS
3. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
4. [1.2] Chen, P., Song, H., Wang, Y., Chen, P., Shen, X., & Yao, S. (2015). Homogeneous acetylation of hemicelluloses from soy sauce residue in imidazolium-based ionic liquid. *Journal of Material Cycles and Waste Management*, 17(3), 574-582, Registrované v: SCOPUS

ADC17 FEDORONKO, M. - TEMKOVIC, P. - MIHALOV, V. - TVAROŠKA, Igor. Kinetics and mechanism of the acid-catalyzed reactions of methylated trioses. In *Carbohydrate Research*, 1980, vol. 87, p. 51. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)85190-3](https://doi.org/10.1016/S0008-6215(00)85190-3)

Ohlasy:

1. [1.1] DIBELLO, E. - GAMENARA, D. - SEOANE, G. Preparation of O-Protected Glyceraldehydes as Building Blocks in Organic Synthesis. In *ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL*. ISSN 0030-4948, 2015, vol. 47, no. 6, pp. 415-442., Registrované v: WOS
2. [1.1] GRAINGER, Megan N. C. - MANLEY-HARRIS, Merilyn - LANE, Joseph R. - FIELD, Richard J. Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand manuka honey: Part I Honey systems. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 202, no., pp. 484-491., Registrované v: WOS
3. [1.1] GRAINGER, Megan N. C. - MANLEY-HARRIS, Merilyn - LANE, Joseph R. - FIELD, Richard J. Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand manuka honey: Part III A model to simulate the conversion. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 202, no., pp. 500-506., Registrované v: WOS

ADC18 FEDORONKO, M. - TEMKOVIC, P. - KÖNIGSTEIN, J. - KOVACIK, Vladimír - TVAROŠKA, Igor. Study of the kinetics and mechanism of the acid-base-catalyzed enolization of hydroxyacetaldehyde and methoxyacetaldehyde. In *Carbohydrate Research*, 1980, vol. 87, p. 35-50. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)85189-7](https://doi.org/10.1016/S0008-6215(00)85189-7)

Ohlasy:

1. [1.1] LI, Huidong - FENG, Hao - SUN, Weiguo - FAN, Qunchao - KING, R. Bruce - SCHAEFER, Henry F. - LIU, Yinxue. Reductive coupling of carbon monoxide to glycolaldehyde and hydroxypyruvaldehyde polyanions in binuclear cyclopentadienyl lanthanum and lutetium derivatives: analogies to cyclooctatetraene thorium chemistry. In *THEORETICAL CHEMISTRY ACCOUNTS*. ISSN 1432-881X, 2016, vol. 135, no. 1, pp., Registrované v: WOS

ADC19 HARDY, B.J. - BYSTRICKÝ, Slavomír - KOVÁČ, Pavol - WIDMALM, G. Conformational analysis and molecular dynamics simulation of a alpha-(1-2) and alpha-(1-3) linked rhamnose oligosaccharides: Reconciliation with optical rotation and NMR experiments. In *Biopolymers*, 1997, vol. 41, p. 83-96. (1997 - Current Contents). ISSN 0006-3525.

Ohlasy:

1. [1.1] FENG, Tao - HU, Zhongshan - WANG, Ke - ZHU, Xiao - CHEN, Da - ZHUANG, Haining - YAO, Lingyun - SONG, Shiqing - WANG, Huatian - SUN, Min. Emulsion-based delivery systems for curcumin: Encapsulation and interaction mechanism between debranched starch and curcumin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 161, no., pp. 746-754. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.088>., Registrované v: WOS

ADC20 HORVÁTHOVÁ, Eva - SLAMENŇOVÁ, Darina - KOSIKOVA, Bozena - RUZEKOVA, L. - LÁBAJ, Juraj. Detection of natural- and synthetic antioxidant stimulated reduction of DNA in H₂O₂- and MNNG-treated mammalian cells by the comet assay. In *Neoplasma*, 1999, vol. 46, p. 55. (1998: 0.657 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADC21 HRICOVÍNÍ, Miloš - TVAROŠKA, Igor. Conformational dependence of the one-bond carbon-proton coupling constants in oligosaccharides. In *Magnetic Resonance in Chemistry*, 1990, vol. 28, p. 862. Dostupné na: <https://doi.org/10.1002/mrc.1260281005>

Ohlasy:

1. [1.1] TOWNSEND, David - FULLWOOD, Nigel J. - YATES, Edwin A. - MIDDLETON, David A. Aggregation Kinetics and Filament Structure of a Tau Fragment Are Influenced by the Sulfation Pattern of the Cofactor Heparin. In *BIOCHEMISTRY*. ISSN 0006-2960, 2020, vol. 59, no. 41, pp. 4003-4014. Dostupné na: <https://doi.org/10.1021/acs.biochem.0c00443>., Registrované v: WOS

ADC22 HRICOVÍNIOVÁ, Zuzana. Facile and efficient synthesis of ido-heptulosan via a strategy derived from Mo(VI) catalysed reactions. In *Synthesis*, 2001, no. 5, p. 751. Dostupné na: <https://doi.org/10.1055/s-2001-12773>

Ohlasy:

1. [1.2] MALASSIS, Julien - VENDEVILLE, Jean Baptiste - NGUYEN, Qui Hien - BOUJON, Marie - GAIGNARD-GAILLARD, Quentin - LIGHT, Mark - LINCLAU, Bruno. Synthesis of vicinal dideoxy-difluorinated galactoses. In *Organic and Biomolecular Chemistry*. ISSN 14770520, 2019-01-01, 17, 21, pp. 5331-5340., Registrované v: SCOPUS
2. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADC23 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš - PETRUŠ, Ladislav.

Molybdcic acid-catalysed isomerization of D-ribulose and D-xylulose to the corresponding 2-C-(Hydroxymethyl)-D-tetroses. In *Journal of Carbohydrate Chemistry*, 2000, vol. 19, p. 827-836. Dostupné na:

<https://doi.org/10.1080/07328300008544121>

Ohlasy:

1. [1.1] ANTUNES, Margarida M. - FERNANDES, Auguste - RIBEIRO, M. Filipa - LIN, Zhi - VALENTE, Anabela A. Modified Versions of AM-4 for the Aqueous Phase Isomerization of Aldo-Saccharides. In *EUROPEAN JOURNAL OF INORGANIC CHEMISTRY*. ISSN 1434-1948, 2020, vol. 2020, no. 17, pp. 1579-1588. Dostupné na: <https://doi.org/10.1002/ejic.202000038>., Registrované v: WOS
2. [1.1] LI, Zijie - GAO, Xiao-Dong - CAI, Li. Synthesis of Rare Pentoses Using Microbial and Enzymatic Reactions. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2016, vol. 20, no. 14, pp. 1456-1464., Registrované v: WOS
3. [1.1] SINGH, Ranjitha - SINGH, Raushan - KIM, In-Won - SIGDEL, Sujan - KALIA, Vipin C. - KANG, Yun Chan - LEE, Jung-Kul. An efficient ribitol-specific dehydrogenase from *Enterobacter aerogenes*. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 72, no., pp. 56-64., Registrované v: WOS
4. [1.1] SINGH, Ranjitha - SINGH, Raushan Kumar - KIM, Sang-Yong - SIGDEL, Sujan - PARK, Ji-Hyun - CHOI, Joon-Ho - KIM, In-Won - LEE, Jung-Kul. D-Ribulose production by a ribitol dehydrogenase from *Enterobacter aerogenes* coupled with an NADH regeneration system. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2016, vol. 109, no., pp. 189-196., Registrované v: WOS

ADC24 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš - PETRUŠ, Ladislav.

Stereospecific Synthesis of D-clycero-D-ido-oct-2-ulose. In *Monatshefte fuer Chemie*, 2001, vol. 132, p. 731-737.

Ohlasy:

1. [1.2] Niova, Z. H. (2015). Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Ramawat, K. G., Mérillon, J. M. (Eds.) *Polysaccharides: Bioactivity and Biotechnology* (Springer, pp. 1319-1371), Registrované v: SCOPUS

ADC25 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - KAČURÁKOVÁ, Marta - ALFOLDI, Juraj. Interactions of the Beechwood xylan component with

other cell wall polymers. In *Journal of Wood Chemistry and Technology*, 1996, vol. 16, no. 3, p. 221.

Ohlasy:

1. [1.1] BORKOWSKI, Leszek - KIERNICKA, Malgorzata - BELCARZ, Anna - PALKA, Krzysztof - HAJNOS, Mieczyslaw - GINALSKA, Grazyna. Unexpected reaction of new HAp/glucan composite to environmental acidification: Defect or advantage? In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*. ISSN 1552-4973, 2017, vol. 105, no. 5, pp. 1178-1190., Registrované v: WOS
2. [1.1] JAMSHIDIAN, Hajar - SHOJAOSADATI, Seyed Abbas - MOUSAVI, Seyed Mohammad - SOUDI, Mohammad Reza - VILAPLANA, Francisco. Implications of recovery procedures on structural and rheological properties of schizophyllan produced from date syrup. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 36-44., Registrované v: WOS
3. [1.1] UPADHYAY, Tarun K. - FATIMA, Nida - SHARMA, Deepak - SARAVANAKUMAR, V. - SHARMA, Rolee. PREPARATION AND CHARACTERIZATION OF BETA-GLUCAN PARTICLES CONTAINING A PAYLOAD OF NANOEMBEDDED RIFABUTIN FOR ENHANCED TARGETED DELIVERY TO MACROPHAGES. In *EXCLI JOURNAL*. ISSN 1611-2156, 2017, vol. 16, no., pp. 210-228., Registrované v: WOS

ADC26 JONIAK, Dusan - KOSIKOVA, Bozena. Stability of acetal type lignin-carbohydrate bonds against acid and alkali catalysed hydrolysis. In *Cellulose Chemistry and Technology*, 1976, vol. 10, p. 691-694.

Ohlasy:

1. [1.1] HAYES, Daniel J. M. Second-Generation Biofuels: Why They are Taking so Long. In *ADVANCES IN BIOENERGY: THE SUSTAINABILITY CHALLENGE*, 2016, vol., no., pp. 163-191., Registrované v: WOS

ADC27 KÁKONIOVÁ, Daniela - LABUDOVÁ, I. - LIŠKOVÁ, Desana. Callus culture as substrate for the production of specific cell wall degrading enzymes for derived protoplast isolation. In *Biotechnology Letters*, 1987, vol. 9, p. 721. ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/BF01024607>

Ohlasy:

1. [1.1] ALOULOU-ABDELKEFI, M. - TRIGUI-LAHIANI, H. - GARGOURI, A. Autoclaved Mycelium Induces Efficiently the Production of Hydrolytic Enzymes for Protoplast Preparation of Autologous Fungus. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 2, pp. 230-236., Registrované v: WOS

ADC28 KARACSONYI, S. - KOVACIK, Vladimir - KÁKONIOVÁ, Daniela. Isolation and characterization of cell wall polysaccharides from *Picea abies* L. In *Cellulose Chemistry and Technology*, 1996, p. 359.

Ohlasy:

1. [1.1] Makarova, EN (Makarova, E. N.); Shakhmatov, EG (Shakhmatov, E. G.); Udoratina, EV (Udoratina, E. V.); Kutchin, AV (Kutchin, A. V.): Structural and chemical characteristics of pectins, arabinogalactans, and

arabinogalactan proteins from conifers. In: RUSSIAN CHEMICAL BULLETIN
Volume: 64 Issue: 6 Pages: 1302-1318, Registrované v: WOS

- ADC29 KARDOŠOVÁ, Alžbeta - ROSIK, J. - KUBALA, J.. Enzyme preparations from *Aspergillus flavus* for structural studies of the peach gum polysaccharide. In *Folia microbiologica : international journal for general environmental and applied microbiology, and immunology*. - Prague : Institute of Microbiology, Academy of Sciences of the Czech Republic, 1979, vol. 23, p. 97. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02915308>

Ohlasy:

1. [1.1] YANG, Haiyan - WANG, Dawei - DENG, Jia - YANG, Jing - SHI, Chun - ZHOU, Fanglang - SHI, Zhengjun. Activity and Structural Characteristics of Peach Gum Exudates. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS

- ADC30 KARDOŠOVÁ, Alžbeta - CAPEK, Peter. Chemical and ¹³C NMR studies of a rhamnoarabinogalactan from the leaves of *Plantago Lanceolata* L. var. libor. In *Collection of czechoslovak chemical communications*. - Praha : Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, 1994, vol. 59, p. 2714. (1993: 0.382 - IF, Current Contents - CCC). (1994 - Current Contents, WOS). ISSN 0010-0765.

Ohlasy:

1. [1.1] YIN, Jun-Yi - HUANG, Xin-Yue - WANG, Li - GUO, Jian-Qi - XIE, Ming-Yong - WU, Jian-Yong - NIE, Shao-Ping. Molecular properties and immunomodulatory activities of a water-soluble heteropolysaccharide isolated from *Plantago asiatica* L. leaves. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2019, vol. 33, no. 11, pp. 1678-1681., Registrované v: WOS

- ADC31 KÉRY, V. - NOVOTNÝ, Ladislav - TIHLARIK, K. - HAPLOVA, J. - KAČURÁKOVÁ, Marta - SANDULA, Jozef - BALAZOVA, E. Preparation, properties and antileukemic activity of arabinosylcytosine polysaccharide conjugates. In *International Journal of Biochemistry*, 1990, vol. 22, no. 10, p. 1203-1207.

Ohlasy:

1. [1.1] Liu, Y (Liu, Yao); Sun, Y (Sun, Yan); Ding, GL (Ding, Guanglong); Geng, QQ (Geng, Qianqian); Zhu, JL (Zhu, Juanli); Guo, MC (Guo, Mingcheng); Duan, YH (Duan, Yongheng); Wang, BT (Wang, Baitao); Cao, YS (Cao, Yongsong): Synthesis, Characterization, and Application of Microbe-Triggered Controlled-Release Kasugamycin Pectin Conjugate. In: *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY* Volume: 63 Issue: 17 Pages: 4263-4268, Registrované v: WOS

- ADC32 KOŮŠ, Miroslav - STEINER, Bohumil - MIČOVÁ, Júlia - LANGER, Vratislav - ĎURÍK, M. - GYEPESOVÁ, Dalma. Synthesis and structure determination of some sugar amino acids related to alanine and 6-deoxymannojirimycin. In *Carbohydrate Research*, 2001, vol. 332, p. 351-361. (2000: 1.606 - IF, Current Contents - CCC). (2001 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(01\)00109-4](https://doi.org/10.1016/S0008-6215(01)00109-4)

Ohlasy:

1. [1.1] GRYGORENKO, Oleksandr O. - BIITSEVA, Angelina V. - ZHERSH, Serhii. Amino sulfonic acids, peptidosulfonamides and other related compounds. In *TETRAHEDRON*. ISSN 0040-4020, 2018, vol. 74, no. 13, pp. 1355-1421., Registrované v: WOS
2. [1.1] MALINOWSKI, Maciej - ROWICKI, Tomasz - GUZIK, Patrycja - GRYSZEL, Maciej - LAPCZYNSKI, Sebastian - WIELECHOWSKA, Monika - CZERWINSKA, Karolina - MADURA, Izabela - SAS, Wojciech. [1,4]-sigmatropic rearrangement of chiral nitrones and their utilization in the synthesis of new iminosugars. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2016, vol. 14, no. 2, pp. 470-482., Registrované v: WOS

- ADC33 KOSIKOVA, Bozena - JONIAK, Dusan - POLCIN, J. Behaviour of lignin-saccharidic spruce wood complex in thermal mechanical pulping. I. TMP process. In *Cellulose Chemistry and Technology*, 1984, vol. 18, č., p. 63-71.

Ohlasy:

1. [1.1] Haara, M (Haara, Matti); Pranovich, A (Pranovich, Andrey); Sundberg, A (Sundberg, Anna); Willfor, S (Willfor, Stefan): Formation of oxalic acid in alkaline peroxide treatment of different wood components. In: *HOLZFORSCHUNG* Volume: 68 Issue: 4 Pages: 393-400, Registrované v: WOS

- ADC34 KOSIKOVA, Bozena - MLYNAR, J. - JONIAK, Dusan - KÖNIGSTEIN, J. - MICKO, M.M. Binding of carcinogens by lignin derivatives. In *Cellulose Chemistry and Technology*, 1990, vol. 24, p. 85.

Ohlasy:

1. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

- ADC35 KOSIKOVA, Bozena - EBRINGEROVÁ, Anna - KAČURÁKOVÁ, Marta. Effect of steaming on the solubility and structural changes of wood lignin-polysaccharide complex. In *Cellulose Chemistry and Technology*, 1995, vol. 29, no. 6, p. 683-690.

Ohlasy:

1. [1.1] FU, Jiajia - FU, Lina - ZHAO, Xiaoman - ZHANG, Qun - WANG, Hongbo - GAO, Weidong. Xylanase- and cellulose-aided bioprocessing of bamboo. In *ENGINEERING IN LIFE SCIENCES*. ISSN 1618-0240, 2015, vol. 15, no. 6, pp. 605-611., Registrované v: WOS
2. [1.1] MUZAMAL, Muhammad - BAATH, Jenny Arnling - OLSSON, Lisbeth - RASMUSON, Anders. Contribution of Structural Modification to Enhanced Enzymatic Hydrolysis and 3-D Structural Analysis of Steam-Exploded Wood using X-Ray Tomography. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8509-8521., Registrované v: WOS
3. [1.1] ZHANG, Jinping - WANG, Zhoulian - DU, Menghao - YAO, Xiaohua - HU, Lisong. Physicochemical Properties of Camellia Nut Shell and its

Thermal Degradation Characteristics. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 1, pp. 647-659., Registrované v: WOS

- ADC36 KOSIKOVA, Bozena - EBRINGEROVÁ, Anna - NARAN, R.
Characterization of lignin-carbohydrate fractions isolated from the wood parasite *Cistanche deserticola* Y.C.Ma. In *Holzforschung*, 1999, vol. 53, p. 33-38.

Ohlasy:

1. [1.1] LV, Hai-Ning - ZENG, Ke-Wu - SONG, Yue-Lin - JIANG, Yong - TU, Peng-Fei. Phytochemical and Pharmacological Overview of *Cistanche* Species. In RECENT ADVANCES IN POLYPHENOL RESEARCH, VOL 5, 2016, vol. 5, no., pp. 313-341., Registrované v: WOS
2. [1.1] ZHANG, Ying - WANG, Yuwu - YANG, Song - XIAO, Yunfeng - GUAN, Haibin - YUE, Xin - WANG, Xiaoqin - LI, Xiangri. The Difference of Chemical Components and Biological Activities of the Raw Products slices and the Wine Steam-Processed Product from *Cistanche deserticola*. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2019, vol. 2019, no., pp., Registrované v: WOS

- ADC37 KOSIKOVA, Bozena - POLCIN, J. Isolation of lignin from spruce wood by acidolysis in dioxane. In *Wood Science and Technology*, 1973, vol. 7, p. 308.

Ohlasy:

1. [1.1] KUZNETSOV, Boris N. - MALYAR, Yuriy N. - KUZNETSOVA, Svetlana A. - GRISHECHKO, Lyudmila I. - KAZACHENKO, Alexander S. - LEVDANSKY, Alexander V. - PESTUNOV, Andrey V. - BOYANDIN, Anatoly N. - CELZARD, Alan. Isolation, Study and Application of Organosolv Lignins. In JOURNAL OF SIBERIAN FEDERAL UNIVERSITY-CHEMISTRY. ISSN 1998-2836, 2016, vol. 9, no. 4, pp. 454-482., Registrované v: WOS
2. [1.1] YUE, Fengxia - LAN, Wu - HU, Songnan - CHEN, Ke-Li - LU, Fachuang. Structural Modifications of Sugarcane Bagasse Lignins during Wet-Storage and Soda-Oxygen Pulp. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5311-5318., Registrované v: WOS

- ADC38 KOSIKOVA, Bozena - DEMIANOVA, V. - KAČURÁKOVÁ, Marta. Sulfur-free lignins as composites of polypropylene films. In *Journal of Applied Polymer Science*, 1993, vol. 47, no. 6, p. 1065-1073. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1993.070470613>

Ohlasy:

1. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Piroška - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of interactions in polypropylene/lignosulfonate blends. In MATERIALS & DESIGN. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v: WOS
2. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
3. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In

- POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
4. [1.1] KLAPISZEWSKI, Lukasz - BULA, Karol - DOBROWOLSKA, Anna - CZACZYK, Katarzyna - JESIONOWSKI, Teofil. A high-density polyethylene container based on ZnO/lignin dual fillers with potential antimicrobial activity. In POLYMER TESTING. ISSN 0142-9418, 2019, vol. 73, no., pp. 51-59., Registrované v: WOS
5. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
6. [1.1] PERETTI, Steven W. - BARTON, Ryan - TEIXEIRA MENDONCA, Regis. Lignin as Feedstock for Fibers and Chemicals. In COMMERCIALIZING BIOBASED PRODUCTS: OPPORTUNITIES, CHALLENGES, BENEFITS, AND RISKS. ISSN 1757-7039, 2016, vol. 43, no., pp. 132-165., Registrované v: WOS
7. [1.1] SAMENI, Javad - JAFFER, Shaffiq A. - SAIN, Mohini. Thermal and mechanical properties of soda lignin/HDPE blends. In COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, 2018, vol. 115, no., pp. 104-111., Registrované v: WOS
8. [1.1] SEN, Sanghamitra - PATIL, Shradha - ARGYROPOULOS, Dimitris S. Thermal properties of lignin in copolymers, blends, and composites: a review. In GREEN CHEMISTRY. ISSN 1463-9262, 2015, vol. 17, no. 11, pp. 4862-4887., Registrované v: WOS
9. [1.1] XU, Ge - YAN, Guangyu - ZHANG, Jing. Lignin as coupling agent in EPDM rubber: thermal and mechanical properties. In POLYMER BULLETIN. ISSN 0170-0839, 2015, vol. 72, no. 9, pp. 2389-2398., Registrované v: WOS
10. [1.1] YEO, Jun-Seok - SEONG, Dong-Wook - HWANG, Seok-Ho. Chemical surface modification of lignin particle and its application as filler in the polypropylene composites. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2015, vol. 31, no., pp. 80-85., Registrované v: WOS
11. [1.1] ZHAO, Yadong - TAGAMI, Ayumu - DOBELE, Galina - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena. The Impact of Lignin Structural Diversity on Performance of Cellulose Nanofiber (CNF)-Starch Composite Films. In POLYMERS, 2019, vol. 11, no. 3, pp., Registrované v: WOS
12. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 95-118., Registrované v: SCOPUS
13. [1.2] IBRAHIM, Abdul Haqi - RIDWAN, Muhammad Fahmi - ABIDIN, Che Zulzikrami Azner - ONG, Soon Ann - WONG, Yee Shian - AZHARI, Ayu Wazira - OZIR, Siti Norruhidawati. Lignin recovery and its effects quality of anaerobic treated palm oil mill effluent (AT-POME). In E3S Web of Conferences, 2018-03-19, 34, pp., Registrované v: SCOPUS
14. [1.2] VASILE, C. - DARIE-NIȚĂ, R. N. - PĂRPĂRIȚĂ, E. Performance of biomass filled polyolefin composites. In Biocomposites: Design and Mechanical Performance, 2015-08-26, pp. 257-301., Registrované v: SCOPUS

KOŠÍKOVÁ, Božena - EBRINGEROVÁ, Anna. Lignin-carbohydrate bonds in a residual soda spruce pulp lignin. In *Wood Science and Technology*, 1994, vol. 28, p. 291-296. Dostupné na: <https://doi.org/10.1007/BF00204215>

Ohlasy:

1. [1.1] BRANNVALL, Elisabet. The Limits of Delignification in Kraft Cooking. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 2081-2107., Registrované v: WOS
2. [1.1] GONZALEZ-VOGEL, Alvaro - FOGDE, Anna - CRESTINI, Claudia - SANDBERG, Thomas - TAN-PHAT HUYNH - BOBACKA, Johan. Molecularly imprinted conducting polymer for determination of a condensed lignin marker. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2019, vol. 295, no., pp. 186-193., Registrované v: WOS
3. [1.1] CHOI, June-Ho - PARK, Se-Yeong - KIM, Jong-Hwa - CHO, Seong-Min - FANG, Soo-Kyeong - HONG, Changyoung - CHOI, In-Gyu. Selective deconstruction of hemicellulose and lignin with producing derivatives by sequential pretreatment process for biorefining concept. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2019, vol. 291, no., pp., Registrované v: WOS
4. [1.1] KANG, Shimin - FU, Jinxia - ZHANG, Gang. From lignocellulosic biomass to levulinic acid: A review on acid-catalyzed hydrolysis. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2018, vol. 94, no., pp. 340-362., Registrované v: WOS
5. [1.1] LEI, Ming - LUO, Bin - ZHANG, Qingtong - GUO, Chenyan - CHI, Mingchao - YUN, Xiaojing - MIN, Douyong - WANG, Shuangfei. The Changing Structure of Residual Lignin in the Unbleached Bagasse Pulp During Chlorine Dioxide Delignification. In *JOURNAL OF BIOBASED MATERIALS AND BIOENERGY*. ISSN 1556-6560, 2020, vol. 14, no. 1, pp. 20-28. Dostupné na: <https://doi.org/10.1166/jbmb.2020.1936>., Registrované v: WOS
6. [1.1] SONG, Heming - JIA, Hongge - WANG, Qingji - ZHAO, Xinyi - YANG, Guoxing - ZHANG, Mingyu - ZHOU, Hailiang - XU, Shuangping - ZANG, Yu - WANG, Yazhen - MA, Liquan. A New Environmentally-Friendly System for Extracting Cellulose from Corn Straw: The Low Temperature Laccase System. In *MATERIALS*, 2020, vol. 13, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ma13020437>., Registrované v: WOS
7. [1.1] TARASOV, Dmitry - LEITCH, Mathew - FATEHI, Pedram. Lignin-carbohydrate complexes: properties, applications, analyses, and methods of extraction: a review. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
8. [1.1] YANG, Wei - FANG, Munan - XU, Hao - WANG, Hui - WU, Shengji - ZHOU, Jie - ZHU, Shouxin. Interactions between Holocellulose and Lignin during Hydrolysis of Sawdust in Subcritical Water. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2019, vol. 7, no. 12, pp. 10583-10594., Registrované v: WOS
9. [1.1] YANG, Wei - WANG, Hui - ZHOU, Jie - WU, Shengji. Hydrolysis Kinetics and Structure Changes of Wood Meal in Subcritical Water. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 4, pp. 3544-3552., Registrované v: WOS
10. [1.1] Zhang, J (Zhang, Jing); Choi, YS (Choi, Yong S.); Yoo, CG (Yoo, Chang G.); Kim, TH (Kim, Tae H.); Brown, RC (Brown, Robert C.); Shanks, BH (Shanks, Brent H.): Cellulose-Hemicellulose and Cellulose-Lignin

Interactions during Fast Pyrolysis. In: ACS SUSTAINABLE CHEMISTRY & ENGINEERING Volume: 3 Issue: 2 Pages: 293-301, Registrované v: WOS 11. [1.1] ZHANG, Qingtong - WAN, Guangcong - LI, Mingfu - JIANG, Hongrui - WANG, Shuangfei - MIN, Douyong. Impact of bagasse lignin-carbohydrate complexes structural changes on cellulase adsorption behavior. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 236-245. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.084>., Registrované v: WOS 12. [1.2] WANG, Guanhua - CHEN, Hongzhang. Clean and effective lignin upgrading pathway as green polymer feedstock: Strategies to break through the restrictions of lignin heterogeneity. In Green Polymer Composites Technology: Properties and Applications, 2016-11-03, pp. 459-470., Registrované v: SCOPUS

ADC40 KOŠÍKOVÁ, Božena - POLCIN, J. - JONIAK, Dušan. NMR studies on lignin-carbohydrate complexes. In *Holzforschung*, 1973, vol. 27, p. 59.
Ohlasy:
1. [1.1] TARASOV, Dmitry - LEITCH, Mathew - FATEHI, Pedram. Lignin-carbohydrate complexes: properties, applications, analyses, and methods of extraction: a review. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

ADC41 KOVACIK, Vladimir - PÄTOPRSTÝ, Vladimír - HAVLÍČEK, Vladimír - KOVÁČ, Pavol. Matrix-assisted laser desorption/ionization and electrospray ionization mass spectrometry: sodium-cationized oligosaccharides do not exhibit "internal residue loss" rearrangement. In *European Mass Spectrometry*, 1998, vol. 4, p. 417-420. Dostupné na: <https://doi.org/10.1255/ejms.241>
Ohlasy:
1. [1.1] CHIZHOV, Alexander O. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Gas-Phase Fragmentation of Cyclic Oligosaccharides in Tandem Mass Spectrometry. In MOLECULES, 2019, vol. 24, no. 12, pp., Registrované v: WOS

ADC42 KOVACIK, Vladimir - FEDORONKO, M. - JEZO, I. The effect of 2,3-substituents upon the mass spectrometric fragmentation of quinoxalines. In *Organic Mass Spectrometry*, 1973, vol. 7, p. 449-457. Dostupné na: <https://doi.org/10.1002/oms.1210070409>

Ohlasy:
1. [1.1] PARAVISINI, Laurianne - PETERSON, Devin G. Reactive carbonyl species as key control point for optimization of reaction flavors. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 274, no., pp. 71-78., Registrované v: WOS
2. [1.1] Rakov, DV (Rakov, D. V.); Zhukova, NA (Zhukova, N. A.); Rizvanov, IK (Rizvanov, I. Kh.); Mamedov, VA (Mamedov, V. A.): Comparative Characterization of Mass Spectral Methods for the Study of IMIDAZO[1,5-a]QUINOXALIN-4-Ones. In: CHEMISTRY OF HETEROCYCLIC COMPOUNDS Volume: 50 Issue: 2 Pages: 246-253, Registrované v: WOS

ADC43 KRIZKOVA, L. - POLÓNYI, J. - KOSIKOVA, Bozena - DOBIAS, J. - BELICOVA, A. - KRAJCOVIC, J. - EBRINGER, L. Lignin reduces ofloxacin, induced mutagenicity in Euglena assay. In *Anticancer Research*, 2000, vol. 20, no. 2, p. 833. ISSN 0250-7005.

Ohlasy:

1. [1.1] LAUBERTS, Maris - SEVASTYANOVA, Olena - PONOMARENKO, Jevgenija - DIZHBITE, Tatjana - DOBELE, Galina - VOLPERTS, Alexandr - LAUBERTE, Liga - TELYSHEVA, Galina. Fractionation of technical lignin with ionic liquids as a method for improving purity and antioxidant activity. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 512-520., Registrované v: WOS
2. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
3. [1.1] PONOMARENKO, Jevgenija - DIZHBITE, Tatiana - LAUBERTS, Maris - VOLPERTS, Aleksandrs - DOBELE, Galina - TELYSHEVA, Galina. Analytical pyrolysis A tool for revealing of lignin structure-antioxidant activity relationship. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, 2015, vol. 113, no., pp. 360-369., Registrované v: WOS
4. [1.1] XIONG, Fuquan - ZHOU, Liang - QIAN, Liangcun - LIU, Shengquan. Effects of Pretreatment Methods Using Various 1,4-Dioxane Concentrations on the Performance of Lignocellulosic Films of *Eucalyptus citriodora*. In *BIORESOURCES*. ISSN 1930-2126, 2015, vol. 10, no. 1, pp. 1149-1161., Registrované v: WOS

ADC44 KUBAČKOVÁ, Marta - KARÁCSONYI, Š. - BILISICS, Ladislav. Structure of galactoglucomannan from *Populus monilifera* H. In *Carbohydrate Polymers*, 1992, vol. 19, p. 125-129. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(92\)90122-7](https://doi.org/10.1016/0144-8617(92)90122-7)

Ohlasy:

1. [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS

ADC45 LINEK, K. - ALFÖLDY, Juraj - ĐURINDOVÁ, M. Glycosylamines III. Preparation, structure, and conformation of some glycosylamines. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1993, vol. 47, p. 247-250. ISSN 0366-6352.

Ohlasy:

1. [1.1] BAIG, Noorullah - SINGH, Rajnish Prakash - CHANDER, Subhash - JHA, Prabhat Nath - MURUGESAN, Sankaranarayanan - SAH, Ajay K. Synthesis, evaluation and molecular docking studies of amino acid derived N-glycoconjugates as antibacterial agents. In *BIOORGANIC CHEMISTRY*. ISSN 0045-2068, 2015, vol. 63, no., pp. 110-115., Registrované v: WOS

2. [1.1] MADDULURI, Vimal Kumar - SAH, Ajay K. Metal complexes of 4,6-O-ethylidene-beta-D-glucopyranosylamine derivatives and their application in organic synthesis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 485, no., pp., Registrované v: WOS
3. [1.1] PALLAVI, Badvel - SHARMA, Prachi - BAIG, Noorullah - KUMAR MADDULURI, Vimal - SAH, Ajay K. - SAUMYA, Udit - DUBEY, Uma S. - SHUKLA, Paritosh. Quinoline Glycoconjugates as Potentially Anticancer and Anti-Inflammatory Agents: An Investigation Involving Synthesis, Biological Screening, and Docking. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 31, pp. 9878-9882. Dostupné na: <https://doi.org/10.1002/slct.202002345>., Registrované v: WOS

ADC46 LIŠKOVÁ, Desana - AUXTOVA-SAMAJOVA, O. - KÁKONIOVÁ, Daniela - KUBAČKOVÁ, M. - KARACSONYI, S. - BILISICS, Ladislav. Biological activity of galactoglucomannan-derived oligosaccharides. In *Planta*, 1995, vol. 196, p. 425.

Ohlasy:

1. [1.1] Asgher, M (Asgher, Mohd.); Khan, MIR (Khan, M. Iqbal R.); Anjum, NA (Anjum, Naser A.); Khan, NA (Khan, Nafees A.): Minimising toxicity of cadmium in plants-role of plant growth regulators. In: PROTOPLASMA Volume: 252 Issue: 2 Pages: 399-413, Registrované v: WOS
2. [1.1] JEGER, Michael - BRAGARD, Claude - CAFFIER, David - CANDRESSE, Thierry - CHATZIVASSILIOU, Elisavet - DEHNEN-SCHMUTZ, Katharina - GILIOLI, Gianni - GREGOIRE, Jean-Claude - JAQUES MIRET, Josep Anton - MACLEOD, Alan - NAVARRO, Maria Navajas - PARNELL, Stephen - POTTING, Roel - RAFOSS, Trond - ROSSI, Vittorio - UREK, Gregor - VAN BRUGGEN, Ariena - VAN DER WERF, Wopke - WEST, Jonathan - WINTER, Stephan - KALUSKI, Tomasz - NIERE, Bjorn. Pest categorisation of *Xiphinema americanum sensu lato*. In EFSA JOURNAL, 2018, vol. 16, no. 7, pp., Registrované v: WOS
3. [1.1] Larskaya, I.A.; Gorshkova, T.A.: Plant Oligosaccharides - Outsiders among Elicitors? (review). In: BIOCHEMISTRY (MOSCOW) Source: Биохимия Volume: 80 Issue: 7 Pages: 1049-1071, Registrované v: WOS
4. [3.1] Kalia, RK (Kalia, Rajwant K.); Singh, R (Singh, Rohtas); Kalia, S (Kalia, Sanjay); Sharma, SK (Sharma, SK), Kumar, S (Kumar, Suresh). (2016). Recent advances in understanding the role of growth regulators in plant growth and development in vitro - II. Non-conventional growth regulators. The Indian Forester, 142(6), 524-535

ADC47 MACHOVÁ, Eva - KVAPILOVA, K. - KOGAN, Grigorij - SANDULA, Jozef. Effect of ultrasonic treatment on the molecular weight of carboxymethylated chitin-glucan complex from *Aspergillus niger*. In *Ultrasonics Sonochemistry*, 1999, vol. 5, p. 169-172. (1998: 1.000 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(98\)00045-5](https://doi.org/10.1016/S1350-4177(98)00045-5)

Ohlasy:

1. [1.1] LI, Shijie - XIONG, Qingping - LAI, Xiaoping - LI, Xia - WAN, Mianjie - ZHANG, Jingnian - YAN, Yajuan - CAO, Man - LU, Lun -

GUAN, Jiemin - ZHANG, Danyan - LIN, Ying. Molecular Modification of Polysaccharides and Resulting Bioactivities. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2016, vol. 15, no. 2, pp. 237-250., Registrované v: WOS

2. [1.1] MAJI, Biswajit. Introduction to natural polysaccharides. In *FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS*. ISSN 2049-9485, 2019, vol., no., pp. 1-31., Registrované v: WOS

- ADC48 MAZEAU, K. - TVAROŠKA, Igor. PCILo quantum-mechanical relaxed conformational energy map of methyl 4-thio- α -maltoside in solution. In *Carbohydrate Research*, 1992, vol. 225, p. 27-41. (1991: 1.299 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(92\)80037-2](https://doi.org/10.1016/0008-6215(92)80037-2)
- Ohlasy:
1. [1.1] COMPANON, Ismael - GUERREIRO, Ana - MANGINI, Vincenzo - CASTRO-LOPEZ, Jorge - ESCUDERO-CASAO, Margarita - AVENOZA, Alberto - BUSTO, Jesus H. - CASTILLON, Sergio - JIMENEZ-BARBERO, Jesus - ASENSIO, Juan L. - JIMENEZ-OSSES, Gonzalo - BOUTUREIRA, Omar - PEREGRINA, Jesus M. - HURTADO-GUERRERO, Ramon - FIAMMENGIO, Roberto - BERNARDES, Goncalo J. L. - CORZANA, Francisco. Structure-Based Design of Potent Tumor-Associated Antigens: Modulation of Peptide Presentation by Single-Atom O/S or O/Se Substitutions at the Glycosidic Linkage. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0002-7863, 2019, vol. 141, no. 9, pp. 4063-4072., Registrované v: WOS
2. [1.1] ROJAS-OCARIZ, Victor - COMPANON, Ismael - AYDILLO, Carlos - CASTRO-LOPEZ, Jorge - JIMENEZ-BARBERO, Jesus - HURTADO-GUERRERO, Ramon - AVENOZA, Alberto - ZURBANO, Maria M. - PEREGRINA, Jesus M. - BUSTO, Jesus H. - CORZANA, Francisco. Design of α -S-Neoglycopeptides Derived from MUC1 with a Flexible and Solvent-Exposed Sugar Moiety. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2016, vol. 81, no. 14, pp. 5929-5941., Registrované v: WOS

- ADC49 MIČOVÁ, Júlia - STEINER, Bohumil - KOŮŠ, Miroslav - LANGER, Vratislav - ĎURÍK, M. - GYEPESOVÁ, Dalma - SMRČOK, Ľubomír. Some amino sugars structurally related to 6-deoxymannojirimycin precursors prepared from methyl 6-deoxy-2,3-O-isopropylidene- α -D-lyxo-hexofuranosid-5-ulose and methyl 2,3-O-isopropylidene- β -D-lyxo-pentodialdo-1,4-furanoside. In *Carbohydrate Research*, 2002, vol. 337, no. 8, p. 663-672. (2001: 1.349 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0008-6215.
- Ohlasy:
1. [1.1] MISTRY, Priyank P. - DESAI, Vikash A. SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVOLUTION OF VARIOUS NOVEL HETEROCYCLIC COMPOUNDS OF HYDANTOIN AND PIPERAZINE. In *HETEROCYCLIC LETTERS*. ISSN 2231-3087, 2018, vol. 8, no. 1, pp. 145-154., Registrované v: WOS

- ADC50 MIKULASOVA, M. - KOSIKOVA, Bozena. Biodegradability of lignin/polypropylene composite films. In *Folia microbiologica : international journal for general environmental and applied microbiology, and immunology*. - Prague : Institute of Microbiology, Academy of Sciences of the Czech Republic,

1999, vol. 44, no. 6, p. 669. (1998: 0.518 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0015-5632. Dostupné na:
<https://doi.org/10.1007/BF02825659>

Ohlasy:

1. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
2. [1.1] PENG, Yao - CAO, Jinzhen. Photochemical Process of Wood-Thermoplastic Composites. In PHOTOCHEMICAL BEHAVIOR OF MULTICOMPONENT POLYMERIC-BASED MATERIALS. ISSN 1869-8433, 2016, vol. 26, no., pp. 291-346., Registrované v: WOS
3. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
4. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 95-118., Registrované v: SCOPUS

ADC51 MISLOVIČOVÁ, Danica - NOVÁK, Igor - PAŠTEKA, M. Coated silica and its behaviour in dye-affinity chromatography. In *Journal of Chromatography*, 1991, vol. 543, p. 9. (1991 - Current Contents). ISSN 0378-4347. Dostupné na:
[https://doi.org/10.1016/S0021-9673\(01\)95751-6](https://doi.org/10.1016/S0021-9673(01)95751-6)

Ohlasy:

1. [1.1] RATHNASEKARA, Renuka - EL RASSI, Ziad. Polar silica-based stationary phases. Part III- Neutral silica stationary phase with surface bound maltose for affinity chromatography at reduced non-specific interactions. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2017, vol. 1508, no., pp. 33-41., Registrované v: WOS

ADC52 MISLOVIČOVÁ, Danica - GEMEINER, Peter - STRATILOVÁ, Eva - HORVÁTHOVÁ, Marta. Competitive elution of lactate dehydrogenase from Cibacron Blue - bead cellulose with Cibacron Blue - dextransse. In *Journal of Chromatography*, 1990, vol. 510, p. 197-204. ISSN 0378-4347. Dostupné na:
[https://doi.org/10.1016/S0021-9673\(01\)93753-7](https://doi.org/10.1016/S0021-9673(01)93753-7)

Ohlasy:

1. [1.1] BIAN, Hongli - SHAO, Ziqiang - LI, Lei - LIU, Jianxin - CHEN, Ken - ZHANG, Xuan. Preparation of Diameter-Controlled Cellulose Aerogel Spheres via Atomization Method and Their Load Performance. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, 2020, vol. 305, no. 11, pp. Dostupné na:
<https://doi.org/10.1002/mame.202000243>., Registrované v: WOS

ADC53 MLYNAR, J. - KOSIKOVA, Bozena - ZAKUTNA, L. - MICKO, M.M. - PASZNER, L. Ultrastructure and macromolecular properties of lignins of different genetic origins. In *Cellulose Chemistry and Technology*, 1990, vol. 24, p. 475.

Ohlasy:

1. [1.1] Gravitis, J (Gravitis, Janis); Ozols-Kalnins, V (Ozols-Kalnins, Valery); Kokorevics, A (Kokorevics, Arnis); Abolins, J (Abolins, Janis); Kukle, S (Kukle, Silvija); Putnina, A (Putnina, Anna); Andzs, M (Andzs, Martins);

Tupciauskas, R (Tupciauskas, Ramunas); Veveris, A (Veveris, Andris): Zero Emissions and Bio-refineries for Natural Fibres, Biomaterials and Energy: Genesis of Concepts. Review. In: : SUSTAINABLE DEVELOPMENT, KNOWLEDGE SOCIETY AND SMART FUTURE MANUFACTURING TECHNOLOGIES Pages: 125-147, Registrované v: WOS

ADC54 NOSÁLOVÁ, G. - KARDOŠOVÁ, Alžbeta - FRANOVA, S.. Antitussive activity of a glucuronoxylan from *Rudbeckia fulgida* compared to the potency of two polysaccharide complexes from the same herb. In *Pharmazie*, 2000, vol. 55, p. 65-68. (1999: 0.446 - IF, Current Contents - CCC). (2000 - Current Contents).

Ohlasy:

1. [1.1] DA SILVA-LEITE, Kaira E. S. - ASSREUY, Ana M. S. - MENDONCA, Laryssa F. - DAMASCENO, Luis E. A. - DE QUEIROZ, Maria G. R. - MOURAO, Paulo A. S. - PIRES, Alana F. - PEREIRA, Maria G. Polysaccharide rich fractions from barks of *Ximenia americana* inhibit peripheral inflammatory nociception in mice Antinociceptive effect of *Ximenia americana* polysaccharide rich fractions. In REVISTA BRASILEIRA DE FARMACOGNOSIA-BRAZILIAN JOURNAL OF PHARMACOGNOSY. ISSN 0102-695X, 2017, vol. 27, no. 3, pp. 339-345., Registrované v: WOS
2. [1.1] DO NASCIMENTO, Georgia Erdmann - BAGGIO, Cristiane H. - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Arabinoxylan from Mucilage of Tomatoes (*Solanum lycopersicum* L.): Structure and Antinociceptive Effect in Mouse Models. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 6, pp. 1239-1244., Registrované v: WOS
3. [1.1] MOLDOVAN, Zenovia - BULEANDRA, Mihaela - OPREA, Eliza - MINEA, Zamfirica. Studies on Chemical Composition and Antioxidant Activity of *Rudbeckia triloba*. In JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY. ISSN 2090-8865, 2017, vol., no., pp., Registrované v: WOS
4. [1.1] SALES DA SILVA-LEITE, Kaira Emanuella - FERNANDES BEZERRA GIRAO, Deysen Kerlla - PIRES, Alana de Freitas - ASSREUY, Ana Maria S. - FEITOSA DE MORAES, Pedro Almir - CUNHA, Arcelina Pacheco - PONTES SILVA RICARDO, Nagila Maria - CRIDDLE, David Neil - LOIOLA PONTE DE SOUZA, Marcellus Henrique - PEREIRA, Maria Goncalves - GOMES SOARES, Pedro Marcos. *Ximenia americana* heteropolysaccharides ameliorate inflammation and visceral hypernociception in murine caerulein-induced acute pancreatitis: Involvement of CB2 receptors. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2018, vol. 106, no., pp. 1317-1324., Registrované v: WOS
5. [1.1] ZENG, Pengjiao - LI, Juan - CHEN, Yulong - ZHANG, Lijuan. The structures and biological functions of polysaccharides from traditional Chinese herbs. In GLYCANS AND GLYCOSAMINOGLYCANS AS CLINICAL BIOMARKERS AND THERAPEUTICS, PT B. ISSN 1877-1173, 2019, vol. 163, no., pp. 423-444., Registrované v: WOS
6. [1.2] LES, Donald H. Aquatic dicotyledons of North America: Ecology, life history, and systematics. In Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics, 2017-01-01, pp. 1-1334., Registrované v: SCOPUS

ADC55 ROSIK, J. - KARDOŠOVÁ, Alžbeta - KUBALA, J.. Infrared spectroscopy of peach-gum polysaccharides from *Prunus persica* (L.) Batsch. In *Carbohydrate Research*, 1971, vol. 18, p. 151. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)80269-4](https://doi.org/10.1016/S0008-6215(00)80269-4)

Ohlasy:

1. [1.1] LI, Chan - WANG, Xuejing - MENG, Duye - ZHOU, Li. Facile synthesis of low-cost magnetic biosorbent from peach gum polysaccharide for selective and efficient removal of cationic dyes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 1871-1878., Registrované v: WOS
2. [1.1] LU, Yushuang - ZHAO, Xiaojian - FANG, Sheng. Characterization, Antimicrobial Properties and Coatings Application of Gellan Gum Oxidized with Hydrogen Peroxide. In *FOODS*. ISSN 2304-8158, 2019, vol. 8, no. 1, pp., Registrované v: WOS
3. [1.1] WANG, Lvyang - LI, Mengya - LI, Xiumin - LIU, Jie - MAO, Yajie - TANG, Keyong. A Biomimetic Hybrid Hydrogel Based on the Interactions between Amino Hydroxyapatite and Gelatin/Gellan Gum. In *MACROMOLECULAR MATERIALS AND ENGINEERING*. ISSN 1438-7492, 2020, vol. 305, no. 9, pp. Dostupné na: <https://doi.org/10.1002/mame.202000188>., Registrované v: WOS
4. [1.1] YANG, Ning - WEI, Xiao-Feng - LI, Wei-Hong. Sunlight irradiation induced green synthesis of silver nanoparticles using peach gum polysaccharide and colorimetric sensing of H₂O₂. In *MATERIALS LETTERS*. ISSN 0167-577X, 2015, vol. 154, no., pp. 21-24., Registrované v: WOS

ADC56 SLAMENŇOVÁ, Darina - KOSIKOVA, Bozena - LÁBAJ, Juraj - RUZEKOVA, L. Oxidative/antioxidative effects of different lignin preparations on DNA in hamster V79 cells. In *Neoplasma*, 2000, vol. 47, no. 6, p. 349. (1999: 0.448 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] Espinoza-Acosta, JL (Luis Espinoza-Acosta, Jose); Torres-Chavez, PI (Isabel Torres-Chavez, Patricia); Ramirez-Wong, B (Ramirez-Wong, Benjamin); Lopez-Saiz, CM : Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In: *BIORESOURCES* Volume: 11 Issue: 2 Pages: 5452-5481, Registrované v: WOS
2. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADC57 SLÁVIKOVÁ, Elena - KOSIKOVA, Bozena. Inhibitory effect of lignin by-products of pulping on yeast growth. In *Folia microbiologica : international journal for general environmental and applied microbiology, and immunology*. - Prague : Institute of Microbiology, Academy of Sciences of the Czech Republic, 1994, vol. 39, p. 241-243. (1993: 0.268 - IF, Current Contents - CCC). (1994 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02814656>

Ohlasy:

1. [1.1] BEISL, Stefan - FRIEDL, Anton - MILTNER, Angela. Lignin

from Micro- to Nanosize: Applications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 11, pp., Registrované v: WOS

2. [1.1] Espinoza-Acosta, JL (Luis Espinoza-Acosta, Jose); Torres-Chavez, PI (Isabel Torres-Chavez, Patricia); Ramirez-Wong, B (Ramirez-Wong, Benjamin); Lopez-Saiz, CM (Maria Lopez-Saiz, Carmen); Montano-Leyva, B (Montano-Leyva, Beatriz): Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In: BIORESOURCES Volume: 11 Issue: 2 Pages: 5452-5481, Registrované v: WOS

3. [1.1] GABOV, Konstantin - OJA, Terhi - DEGUCHI, Takahiro - FALLARERO, Adyary - FARDIM, Pedro. Preparation, characterization and antimicrobial application of hybrid cellulose-lignin beads. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 2, pp. 641-658., Registrované v: WOS

4. [1.1] GORDOBIL, Oihana - HERRERA, Rene - YAHYAOU, Marwa - ILK, Sedef - KAYA, Murat - LABIDI, Jalel. Potential use of kraft and organosolv lignins as a natural additive for healthcare products. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 43, pp. 24525-24533., Registrované v: WOS

5. [1.1] IVANOVSKA, A. - ASANOVIC, K. - JANKOSKA, M. - MIHAJLOVSKI, K. - PAVUN, L. - KOSTIC, M. Multifunctional jute fabrics obtained by different chemical modifications. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 14, pp. 8485-8502. Dostupné na: <https://doi.org/10.1007/s10570-020-03360-x>, Registrované v: WOS

6. [1.1] Spasojevic, D (Spasojevic, Dragica); Zmejkoski, D (Zmejkoski, Danica); Glamoclija, J (Glamoclija, Jasmina); Nikolic, M (Nikolic, Milos); Sokovic, M (Sokovic, Marina); Milosevic, V (Milosevic, Verica); Jaric, I (Jaric, Ivana); Stojanovic, M (Stojanovic, Marijana); Marinkovic, E (Marinkovic, Emilija); Barisani-Asenbauer, T (Barisani-Asenbauer, Talin); Prodanovic, R (Prodanovic, Radivoje); Jovanovic, M (Jovanovic, Milos); Radotic, K (Radotic, Ksenija): Lignin model compound in alginate hydrogel: a strong antimicrobial agent with high potential in wound treatment. In: INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS Volume: 48 Issue: 6 Pages: 732-735, Registrované v: WOS

7. [1.1] SUNTHORNVARABHAS, Jackapon - RUNGTHAWORN, Prapassorn - SUKATTA, Udomlak - JUNTRATIP, Narissara - SRIROTH, Klanarong. Antimicrobial Tendency of Bagasse Lignin Extracts by Raman Peak Intensity. In SUGAR TECH. ISSN 0972-1525, 2020, vol. 22, no. 4, pp. 697-705. Dostupné na: <https://doi.org/10.1007/s12355-019-00778-x>, Registrované v: WOS

8. [1.1] TAO, Jianming - LI, Sheng - YE, Fayin - ZHOU, Yun - LEI, Lin - ZHAO, Guohua. Lignin An underutilized, renewable and valuable material for food industry. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2020, vol. 60, no. 12, pp. 2011-2033. Dostupné na: <https://doi.org/10.1080/10408398.2019.1625025>, Registrované v: WOS

9. [1.1] VANHATALO, Kari - MAXIMOVA, Natalia - PERANDER, Anna-Maija - JOHANSSON, Leena-Sisko - HAIMI, Eero - DAHL, Olli. Comparison of Conventional and Lignin-Rich Microcrystalline Cellulose. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 4037-4054., Registrované v: WOS

10. [1.1] WANG, Guanhua - XIA, Yue - LIANG, Benke - SUI, Wenjie - SI, Chuanling. Successive ethanol-water fractionation of enzymatic hydrolysis lignin to concentrate its antimicrobial activity. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2018, vol. 93, no. 10, pp. 2977-2987., Registrované v: WOS
11. [1.1] XIE, Yimin - CHEN, Xuekuan - JIANG, Chen - WU, Hongfei - YE, Zhezi. Preparation of Oligomeric Dehydrogenation Polymer and Characterization of its Antibacterial Properties. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 2, pp. 2842-2860., Registrované v: WOS
12. [1.1] ZMEJKOSKI, Danica - SPASOJEVIC, Dragica - ORLOVSKA, Irina - KOZYROVSKA, Natalia - SOKOVIC, Marina - GLAMOCLJIA, Jasmina - DMITROVIC, Svetlana - MATOVIC, Branko - TASIC, Nikola - MAKSIMOVIC, Vuk - SOSNIN, Mikhail - RADOTIC, Ksenija. Bacterial cellulose-lignin composite hydrogel as a promising agent in chronic wound healing. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 494-503., Registrované v: WOS
13. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADC58 STRATILOVÁ, Eva - DZÚROVÁ, Mária - MARKOVIC, O. - JORNVALL, H. An essential tyrosine residue of Aspergillus polygalacturonase. In *FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology*, 1996, vol. 382, p. 164. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(96\)00146-9](https://doi.org/10.1016/0014-5793(96)00146-9)
Ohlasy:

1. [1.1] SCHAEFERS, Christian - ELLEUCHE, Skander - ANTRANIKIAN, Garabed. Biochemical Properties and Applications of Heat-active Biocatalysts. In THERMOPHILIC MICROORGANISMS, 2015, vol., no., pp. 47-89., Registrované v: WOS

ADC59 STRATILOVÁ, Eva - BREIEROVÁ, Emília - VADKERTIOVÁ, Renáta. Effect of cultivation and storage pH on the production of multiple forms of polygalactouronase by Aspergillus niger. In *Biotechnology Letters*, 1996, vol. 18, p. 41. ISSN 0141-5492.

Ohlasy:

1. [1.1] Kim, Chung Ho; Cheong, Jong-Joo: Characterization of the Intact Form of Thermotoga maritima Pectinase TmPecN Expressed in Escherichia coli. In: Journal of Applied Biological Chemistry Volume: 58 Issue: 2 Pages: 97-100, Registrované v: WOS

ADC60 STRATILOVÁ, Eva - BREIEROVÁ, Emília - VADKERTIOVÁ, Renáta - MACHOVÁ, Eva - MALOVÍKOVÁ, Anna - SLÁVIKOVÁ, Elena. The adaptability of methylotrophic yeast Candida boidinii on media containing pectic substances. In *Canadian Journal of Microbiology : Revue canadienne de microbiologie*. - Ottawa : National Research Council of Canada, 1998, vol. 44, p. 116. (1997: 1.243 - IF). ISSN 0008-4166. Dostupné na: <https://doi.org/10.1139/cjm-44-2-116>

Ohlasy:

1. [1.1] Feng, XM (Feng, Xiaomin); Dong, HH (Dong, Honghong); Yang, P (Yang, Pan); Yang, RJ (Yang, Ruijuan); Lu, J (Lu, Jun); Lv, J (Lv, Jie); Sheng, J (Sheng, Jun): Culture-Dependent and -Independent Methods to Investigate the Predominant Microorganisms Associated with Wet Processed Coffee. In: CURRENT MICROBIOLOGY Volume: 73 Issue: 2 Pages: 190-195, Registrované v: WOS

ADC61 STRATILOVÁ, Eva - MISLOVIČOVÁ, Danica - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva - KOLAROVA, Nadežda - MARKOVIC, O. - JORNVALL, H. The glycoprotein character of multiple forms of aspergillus polygalacturonase. In *Journal of Protein Chemistry*, 1998, vol. 17, no. 2, p. 173-179.

Ohlasy:

1. [1.1] Qian, M (Qian, Ming); Zhang, Y (Zhang, Yike); Yan, XY (Yan, Xiangyan); Han, MY (Han, Mingyu); Li, JJ (Li, Jinjin); Li, F (Li, Fang); Li, FR (Li, Furui); Zhang, D (Zhang, Dong); Zhao, CP (Zhao, Caiping): Identification and Expression Analysis of Polygalacturonase Family Members during Peach Fruit Softening. In: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 17 Issue: 11 Article Number: UNSP 1933, Registrované v: WOS

2. [1.1] ZHANG, Suling - MA, Min - ZHANG, Huping - ZHANG, Shaoling - QIAN, Ming - ZHANG, Zhen - LUO, Weiqi - FAN, Jinbu - LIU, Zhiqiang - WANG, Libin. Genome-wide analysis of polygalacturonase gene family from pear genome and identification of the member involved in pear softening. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no. 1, pp., Registrované v: WOS

ADC62 SULOVA, Zdena - FARKAŠ, Vladimír. Photoinduced conidiation in *Trichoderma viride*: A study with inhibitors. In *Folia Microbiologica : International Journal for general Environmental and Applied Microbiology, and Immunology*, 1991, vol. 36, p. 267. (1990: 0.545 - IF, Current Contents - CCC). (1991 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02814360>

Ohlasy:

1. [1.1] MAT'AT'A, Matej - GALADOVA, Helena - VARECKA, L'udovit - SIMKOVIC, Martin. The study of intracellular and secreted high-molecular-mass protease(s) of *Trichoderma* spp., and their responses to conidiation stimuli. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2019, vol. 65, no. 9, pp. 653-667., Registrované v: WOS

ADC63 SULOVA, Zdena - FARKAŠ, Vladimír. Purification of xyloglucan endotransglycosylase based on affinity sorption of the active glycosyl-intermediate complex to cellulose. In *Protein Expression and Purification*, 1999, vol. 16, p. 231-235. Dostupné na: <https://doi.org/10.1006/prep.1999.1043>

Ohlasy:

1. [1.1] COSGROVE, Daniel J. Microbial Expansins. In ANNUAL REVIEW OF MICROBIOLOGY, VOL 71. ISSN 0066-4227, 2017, vol. 71, no., pp. 479+., Registrované v: WOS

2. [1.1] SHARPLES, Sandra C. - NGUYEN-PHAN, Tu C. - FRY, Stephen C. Xyloglucan endotransglucosylase/hydrolases (XTHs) are inactivated by binding to glass and cellulosic surfaces, and released in active form by a

heat-stable polymer from cauliflower florets. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2017, vol. 218, no., pp. 135-143., Registrované v: WOS

ADC64 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation on carbohydrate model compounds. 1. The anomeric effect in fluoro and chloro derivatives of tetrahydropyran. In *The Journal of physical chemistry*. - Washington : American Chemical Society, -1995, 1994, vol. 98, no., p. 6452-6458. ISSN 0022-3654. Dostupné na: <https://doi.org/10.1021/j100077a006>

Ohlasy:

1. [1.1] GOMEZ GARCIA, Marta - GARCIA FERNANDEZ, Jose M. - BUTTERSACK, Christoph. Adsorption of difructose dianhydrides on hydrophobic Y-zeolites. In MICROPOROUS AND MESOPOROUS MATERIALS. ISSN 1387-1811, 2020, vol. 292, no., pp. Dostupné na: <https://doi.org/10.1016/j.micromeso.2019.109673>., Registrované v: WOS
2. [1.1] LANGENHAN, Joseph M. - MCLAUGHLIN, Ryan P. - LOSKOT, Steven A. - ROZAL, Leonardo M. - CLAY, Mackenzie S. - ALAIMO, Peter J. Using density functional theory to calculate the anomeric effect in hydroxylamine and hydrazide derivatives of tetrahydropyran. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2016, vol. 35, no. 2, pp. 106-117., Registrované v: WOS
3. [1.1] ROMBOUTS, Frederik J. R. - TRESADERN, Gary - DELGADO, Oscar - MARTINEZ-LAMENCA, Carolina - VAN GOOL, Michiel - GARCIA-MOLINA, Aranzazu - DE DIEGO, Sergio A. Alonso - OEHLRICH, Daniel - PROKOPCOVA, Hana - ALONSO, Jose Manuel - AUSTIN, Nigel - BORGHYS, Herman - VAN BRANDT, Sven - SURKYN, Michel - DE CLEYN, Michel - VOS, Ann - ALEXANDER, Richard - MACDONALD, Gregor - MOECHARS, Dieder - GIJSEN, Harrie - TRABANCO, Andres A. 1,4-Oxazine beta-Secretase 1 (BACE1) Inhibitors: From Hit Generation to Orally Bioavailable Brain Penetrant Leads. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2015, vol. 58, no. 20, pp. 8216-8235., Registrované v: WOS

ADC65 TVAROŠKA, Igor - GAJDOŠ, Ján. Angular dependence of vicinal carbon-proton coupling constants for the conformational studies of hydroxymethyl group in carbohydrates. In *Carbohydrate Research*, 1995, vol. 271, p. 151-162. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(95\)00046-V](https://doi.org/10.1016/0008-6215(95)00046-V)

Ohlasy:

1. [1.1] DHARUMAN, Suresh - AMARASEKARA, Harsha - CRICH, David. Interplay of Protecting Groups and Side Chain Conformation in Glycopyranosides. Modulation of the Influence of Remote Substituents on Glycosylation? In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 17, pp. 10334-10351., Registrované v: WOS
2. [1.1] FUKUDA, Yuichiro - MIYAMAE, Kohei - SASANUMA, Yuji. Computational design of polymers: poly(ester amide) and polyurethane. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 61, pp. 38387-38398., Registrované v: WOS
3. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN

- 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS
4. [1.1] HAMARK, Christoffer - PENDRILL, Robert - LANDSTROEM, Jens - FAGERSTROM, Alexandra Dotson - SANDGREN, Mats - STAHLBERG, Jerry - WIDMALM, Goran. Enantioselective Binding of Propranolol and Analogues Thereof to Cellobiohydrolase Cel7A. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 68, pp. 17975-17985., Registrované v: WOS
5. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS
6. [1.1] MANDHAPATI, Appi Reddy - KATO, Takayuki - MATSUSHITA, Takahiko - KSEBATI, Bashar - VASELLA, Andrea - BOETTGER, Erik C. - CRICH, David. Fluorine-Decoupled Carbon Spectroscopy for the Determination of Configuration at Fully Substituted, Trifluoromethyl- and Perfluoroalkyl-Bearing Carbons: Comparison with F-19-H-1 Heteronuclear Overhauser Effect Spectroscopy. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 3, pp. 1754-1763., Registrované v: WOS
7. [1.1] NAZARSKI, Ryszard B. - WALEJKO, Piotr - WITKOWSKI, Stanislaw. Multi-conformer molecules in solutions: an NMR-based DFT/MP2 conformational study of two glucopyranosides of a vitamin E model compound. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 11, pp. 3142-3158., Registrované v: WOS
8. [1.1] PIRRONE, Michael G. - MATSUSHITA, Takahiko - VASELLA, Andrea - CRICH, David. Stereospecific synthesis of methyl 2-amino-2,4-dideoxy-6 Sdeuterio-?-D- xylohexopyranoside and methyl 2-amino-2,4-dideoxy-6 Sdeuterio-4-propyl- ?- Dglucopyranoside: Side chain conformation of the novel aminoglycoside antibiotic propylamycin. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 491, no., pp., Registrované v: WOS
9. [1.1] UDDIN, Nizam - GHOSH, Manik Kumer - CHOI, Tae Hoon - CHOI, Cheol Ho. Gauche effects of glucopyranose by QM/MM-MD simulations. In THEORETICAL CHEMISTRY ACCOUNTS. ISSN 1432-881X, 2015, vol. 134, no. 11, pp., Registrované v: WOS

ADC66 TVAROŠKA, Igor - PEREZ, S. Conformational-energy calculations for oligosaccharides: A comparison of methods and a strategy of calculation. In *Carbohydrate Research*, 1986, vol. 149, p. 389-410. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)90060-0](https://doi.org/10.1016/S0008-6215(00)90060-0)

Ohlasy:

1. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

ADC67 TVAROŠKA, Igor - BLEHA, Tomáš. Lone pair interactions in dimethoxymethane and anomeric effect. In *Canadian journal of chemistry*. - Ottawa : National Research Council of Canada, 1979, vol. 57, p. 424-435. ISSN 0008-4042.

Ohlasy:

1. [1.1] FRENCH, Alfred D. - JOHNSON, Glenn P. Computerized Molecular Modeling of Carbohydrates. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 513-539. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_29., Registrované v: WOS

ADC68 TVAROŠKA, Igor - KOZAR, T. Theoretical studies on the conformation of saccharides. VII. Structure and stereochemistry of alpha- and beta-D-glucopyranose in solution. In *Theoretica Chimica Acta*, 1986, vol. 70, p. 99-114. (1986 - Current Contents, SCOPUS).

Ohlasy:

1. [1.1] ARIFIN - YOKOGAWA, Daisuke - SCHNUPF, Udo - IRLE, Stephan. Statistical Mechanics-Based Theoretical Investigation of Solvation Effects on Glucose Anomer Preferences. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 1, pp. 290-296., Registrované v: WOS

ADC69 TVAROŠKA, Igor - KOZAR, T. Theoretical studies on the conformation of saccharides. II. The conformational properties of the glycosidic linkage. In *Carbohydrate Research*, 1981, vol. 90, p. 173-185. ISSN 0008-6215.

Ohlasy:

1. [1.1] Plazinski, W (Plazinski, Wojciech); Drach, M (Drach, Mateusz): The influence of the hexopyranose ring geometry on the conformation of glycosidic linkages investigated using molecular dynamics simulations. In: CARBOHYDRATE RESEARCH Volume: 415 Pages: 17-27, Registrované v: WOS

ADC70 TVAROŠKA, Igor. Theoretical studies on the conformation of saccharides. IV. Solvent effect on the stability of α-maltose conformers. In *Biopolymers*, 1982, vol. 21, p. 1887-1897. ISSN 0006-3525.

Ohlasy:

1. [1.1] HIKIRI, Simon - HAYASHI, Tomohiko - IKEGUCHI, Mitsunori - KINOSHITA, Masahiro. Statistical thermodynamics for the unexpectedly large difference between disaccharide stereoisomers in terms of solubility in water. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2018, vol. 20, no. 36, pp. 23684-23693., Registrované v: WOS
2. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Perspective on computational simulations of glycosaminoglycans. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS

ADC71 TVAROŠKA, Igor - KOZAR, T. Theoretical studies on the conformation of saccharides. VI. Influence of the pyranoid ring shape on the conformational properties of the glycosidic linkage and on the magnitude of the exo-anomeric effect. In *Journal of Molecular Structure*, 1985, vol. 123, p. 141-154.

Ohlasy:

1. [1.1] Plazinski, W (Plazinski, Wojciech); Drach, M (Drach, Mateusz): The influence of the hexopyranose ring geometry on the conformation of glycosidic linkages investigated using molecular dynamics simulations. In:

- ADC72 VALKO, L. - TVAROŠKA, Igor - KOVARIK, P. Saturated irregular structures in polyvinyl chloride. In *European Polymer Journal*, 1975, vol. 11, p. 411-416. ISSN 0014-3057. Dostupné na:
[https://doi.org/10.1016/0014-3057\(75\)90025-7](https://doi.org/10.1016/0014-3057(75)90025-7)
Ohlasy:
1. [1.1] TANG, Mingpei - JIA, Jinxia - XUE, Junjie - LIU, Jianping. Efficiency and Mechanism for the Stabilizing Action of Thiouracil Derivatives as Novel Thermal Stabilizers for Poly(vinyl chloride) and the Synergistic Effect with Calcium Stearate. In *RUSSIAN JOURNAL OF APPLIED CHEMISTRY*. ISSN 1070-4272, 2017, vol. 90, no. 1, pp. 129-137., Registrované v: WOS
- ADC73 WANG, J. - VILLENEUVE, S. - ZHANG, J. - LEI, P.S. - MILLER, C.E. - LAFAYE, P. - NATO, F. - SZU, S.C. - KARPAS, A. - BYSTRICKÝ, Slavomír - ROBBINS, J.B. - KOVÁČ, Pavol - FOURNIER, J.M. - GLAUDEMANS, C.P.J. On the antigenic determinants of the lipopolysaccharides of *Vibrio cholerae* O:1, Ogawa and Inaba. In *Journal of Biological Chemistry*, 1998, vol. 273, p. 2777. (1997: 6.963 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0021-9258.
Ohlasy:
1. [1.1] BLACKLER, Ryan J. - EVANS, Dylan W. - SMITH, David F. - CUMMINGS, Richard D. - BROOKS, Cory L. - BRAULKE, Thomas - LIU, Xinyu - EVANS, Stephen V. - MUELLER-LOENNIES, Sven. Single-chain antibody-fragment M6P-1 possesses a mannose 6-phosphate monosaccharide-specific binding pocket that distinguishes N-glycan phosphorylation in a branch-specific manner. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2016, vol. 26, no. 2, pp. 181-192., Registrované v: WOS
2. [1.1] HAJI-GHASSEMI, Omid - BLACKLER, Ryan J. - YOUNG, N. Martin - EVANS, Stephen V. Antibody recognition of carbohydrate epitopes. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2015, vol. 25, no. 9, pp. 920-952., Registrované v: WOS
3. [1.1] LEVINSON, Kara J. - GIFFEN, Samantha R. - PAULY, Michael H. - KIM, Do H. - BOHOROV, Ognian - BOHOROVA, Natasha - WHALEY, Kevin J. - ZEITLIN, Larry - MANTIS, Nicholas J. Plant-based production of two chimeric monoclonal IgG antibodies directed against immunodominant epitopes of *Vibrio cholerae* lipopolysaccharide. In *JOURNAL OF IMMUNOLOGICAL METHODS*. ISSN 0022-1759, 2015, vol. 422, no., pp. 111-117., Registrované v: WOS
4. [1.1] LEVINSON, Kara J. - DE JESUS, Magdia - MANTIS, Nicholas J. Rapid Effects of a Protective O-Polysaccharide-Specific Monoclonal IgA on *Vibrio cholerae* Agglutination, Motility, and Surface Morphology. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2015, vol. 83, no. 4, pp. 1674-1683., Registrované v: WOS
5. [1.1] O'RYAN, Miguel - VIDAL, Roberto - DEL CANTO, Felipe - CARLOS SALAZAR, Juan - MONTERO, David. Vaccines for viral and bacterial pathogens causing acute gastroenteritis: Part I: Overview, vaccines for enteric viruses and *Vibrio cholerae*. In *HUMAN VACCINES & IMMUNOTHERAPEUTICS*. ISSN 2164-5515, 2015, vol. 11, no. 3, pp. 584-600., Registrované v: WOS

Antimicrobial effects of lignin compounds. In *Folia microbiologica : international journal for general environmental and applied microbiology, and immunology*. - Prague : Institute of Microbiology, Academy of Sciences of the Czech Republic, 1979, vol. 24, p. 444. ISSN 0015-5632.

Ohlasy:

1. [1.1] Dias, OAT (Dias, O. A. T.); Negrao, DR (Negrao, D. R.); Silva, RC (Silva, R. C.); Funari, CS (Funari, C. S.); Cesarino, I (Cesarino, I.); Leao, AL (Leao, A. L.): Studies of lignin as reinforcement for plastics composites. In: MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 628 Issue: 1 Special Issue: SI Pages: 72-78, Registrované v: WOS
2. [1.1] Espinoza-Acosta, JL (Luis Espinoza-Acosta, Jose); Torres-Chavez, PI (Isabel Torres-Chavez, Patricia); Ramirez-Wong, B (Ramirez-Wong, Benjamin); Lopez-Saiz, CM (Maria Lopez-Saiz, Carmen); Montano-Leyva, B (Montano-Leyva, Beatriz): Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In: BIORESOURCES Volume: 11 Issue: 2 Pages: 5452-5481, Registrované v: WOS
3. [1.1] Hyldgaard, M (Hyldgaard, Morten); Meyer, RL (Meyer, Rikke L.); Peng, M (Peng, Min); Hibberd, AA (Hibberd, Ashley A.); Fischer, J (Fischer, Jana); Sigmundsson, A (Sigmundsson, Arnar); Mygind, T (Mygind, Tina): Binary combination of epsilon-poly-L-lysine and isoeugenol affect progression of spoilage microbiota in fresh turkey meat, and delay onset of spoilage in *Pseudomonas putida* challenged meat. In: INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY Volume: 215 Pages: 131-142, Registrované v: WOS
4. [1.1] Hyldgaard, M (Hyldgaard, Morten); Mygind, T (Mygind, Tina); Piotrowska, R (Piotrowska, Roxana); Foss, M (Foss, Morten); Meyer, RL (Meyer, Rikke L.): Isoeugenol has a non-disruptive detergent-like mechanism of action. In: FRONTIERS IN MICROBIOLOGY Volume: 6 Article Number: 754, Registrované v: WOS
5. [1.1] Larsen, CR (Larsen, Casey R.); Paulson, ER (Paulson, Erik R.); Erdogan, G (Erdogan, Gulin); Grotjahn, DB (Grotjahn, Douglas B.): A Facile, Convenient, and Green Route to (E)-Propenylbenzene Flavors and Fragrances by Alkene Isomerization. In: SYNLETT Volume: 26 Issue: 17 Pages: 2462-2466, Registrované v: WOS
6. [1.1] Li, SS (Li, Sanshu); Hwang, XY (Hwang, Xue Ying); Stav, S (Stav, Shira); Breaker, RR (Breaker, Ronald R.): The yjdF riboswitch candidate regulates gene expression by binding diverse azaaromatic compounds. In: RNA Volume: 22 Issue: 4 Pages: 530-541, Registrované v: WOS
7. [1.1] Roy, A (Roy, Ajit); Ranjan, A (Ranjan, Akash): HosA, a MarR Family Transcriptional Regulator, Represses Nonoxidative Hydroxyarylic Acid Decarboxylase Operon and Is Modulated by 4-Hydroxybenzoic Acid. In: BIOCHEMISTRY Volume: 55 Issue: 7 Pages: 1120-1134, Registrované v: WOS
8. [1.1] Vanhatalo, K (Vanhatalo, Kari); Maximova, N (Maximova, Natalia); Perander, AM (Perander, Anna-Maija); Johansson, LS (Johansson, Leena-Sisko); Haimi, E (Haimi, Eero); Dahl, O (Dahl, Olli): Comparison of Conventional and Lignin-Rich Microcrystalline Cellulose. In: BIORESOURCES

Volume: 11 Issue: 2 Pages: 4037-4054, Registrované v: WOS

9. [1.1] Wang, J (Wang, Ji); Vermerris, W (Vermerris, Wilfred): Antimicrobial Nanomaterials Derived from Natural Products-A Review. In: MATERIALS Volume: 9 Issue: 4 Article Number: 255, Registrované v: WOS

10. [1.1] Yang, W (Yang, W.); Fortunati, E (Fortunati, E.); Dominici, F (Dominici, F.); Giovanale, G (Giovanale, G.); Mazzaglia, A (Mazzaglia, A.); Balestra, GM (Balestra, G. M.); Kenny, JM (Kenny, J. M.); Puglia, D (Puglia, D.): Synergic effect of cellulose and lignin nanostructures in PLA based systems for food antibacterial packaging. In: EUROPEAN POLYMER JOURNAL Volume: 79 Pages: 1-12, Registrované v: WOS

ADC75 ZEMEK, J. - KÁKONIOVÁ, Daniela - STRMEN, J. - KUNIAK, Ľudovít. Endo-cellulase of the spruce callus culture (*Picea abies* (L.) Karst). In *Journal of Plant Physiology : Biochemistry, Physiology and Molecular Biology of Plants*, 1992, vol. 140, p. 729-732. ISSN 0176-1617. Dostupné na: [https://doi.org/10.1016/S0176-1617\(11\)81030-8](https://doi.org/10.1016/S0176-1617(11)81030-8)

Ohlasy:

1. [1.1] Alvi, Warisha; Awais, Aiman; Hassan, Shafaq Ayaz; Saifullah. INDUCTION OF THE DEXTRINASE AND OTHER HYDROLYZING ENZYMES IN THE SUSPENSION CULTURE OF *AZADIRACHTA INDICA* A. JUSS. In: International Journal of Biology and Biotechnology Vol. 16 (2019), Issue: 2, p. 267-276, Registrované v: WOS

ADC76 ZEMEK, J. - STRMEN, J. - KÁKONIOVÁ, Daniela. Metabolism of 2-deoxy-D-glucose in the yellow and green spruce tissue culture. In *Zeitschrift für Pflanzenphysiologie*, 1976, vol. 77, p. 95.

Ohlasy:

1. [1.1] Izawati, AMD (Izawati, Abang Masli Dayang); Masani, MYA (Masani, Mat Yunus Abdul); Ismanizan, I (Ismanizan, Ismail); Parveez, GKA (Parveez, Ghulam Kadir Ahmad): Evaluation on the effectiveness of 2-deoxyglucose-6-phosphate phosphatase (DOG(R)1) gene as a selectable marker for oil palm (*Elaeis guineensis* Jacq.) embryogenic calli transformation mediated by *Agrobacterium tumefaciens*. In: FRONTIERS IN PLANT SCIENCE Volume: 6 Article Number: 727, Registrované v: WOS

ADCA Scientific papers in foreign journals registered in Current Contents Connect with IF (impacted)

ADCA01 ABAD, Sandra - NAHÁLKA, Jozef - WINKLER, Margit - BERGLER, Gabriele - SPEIGHT, Robert - GLIEDER, Anton - NIDETZKY, Bernd. High-level expression of *Rhodotorula gracilis* D-amino acid oxidase in *Pichia pastoris*. In *Biotechnology Letters*, 2011, vol. 33, p. 557-563. (2010: 1.768 - IF, Q3 - JCR, 0.703 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-010-0456-9>

Ohlasy:

1. [1.1] BATRA, Vipul - DAGAR, Komal - NAYAK, Samiksha - KUMARESAN, Arumugam - KUMAR, Rakesh - DATTA, Tirtha K. A Higher Abundance of O-Linked Glycans Confers a Selective Advantage to High Fertile Buffalo Spermatozoa for Immune-Evasion From Neutrophils. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na:

<https://doi.org/10.3389/fimmu.2020.01928>., Registrované v: WOS

2. [1.1] JOSEPH, Jewel Ann - AKKERMANS, Simen - NIMMEGEERS, Philippe - VAN IMPE, Jan F. M. Bioproduction of the Recombinant Sweet Protein Thaumatin: Current State of the Art and Perspectives. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS

3. [1.1] YANG, G. G. - XU, X. Y. - DING, Y. - CUI, Q. Q. - WANG, Z. - ZHANG, Q. Y. - SHI, S. H. - LV, Z. Y. - WANG, X. Y. - ZHANG, J. H. - ZHANG, R. G. - XU, C. S. Linker length affects expression and bioactivity of the onconase fusion protein in *Pichia pastoris*. In GENETICS AND MOLECULAR RESEARCH. ISSN 1676-5680, 2015, vol. 14, no. 4, pp. 19360-19370., Registrované v: WOS

4. [1.1] ZHANG, Xiaolin - JIANG, Anmin - QI, Banghua - YU, Hao - XIONG, Youyi - ZHOU, Guoliang - QIN, Meisong - DOU, Jinfeng - WANG, Jianfei. Secretion expression of human neutrophil peptide 1 (HNP1) in *Pichia pastoris* and its functional analysis against antibiotic-resistant *Helicobacter pylori*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 11, pp. 4817-4827., Registrované v: WOS

5. [1.1] ZHENG, Junxian - YANG, Taowei - ZHOU, Junping - XU, Meijuan - ZHANG, Xian - RAO, Zhiming - YANG, Shangtian. Efficient production of D-amino acid oxidase in *Escherichia coli* by a trade-off between its expression and biomass using N-terminal modification. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 243, no., pp. 716-723., Registrované v: WOS

6. [1.2] YANG, Ganggang - MA, Chengkai - ZHANG, Quanyi - SHI, Shihui - WANG, Ze - LÜ, Zhongyuan - WANG, Xuyang - XU, Xiaoya - CUI, Qingqing - ZHANG, Jihong - ZHANG, Ruigang - XU, Cunshuan. Expression, purification and characterization of recombinant onconase expressed in *Pichia pastoris*. In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology. ISSN 1000-3061, 2015-11-25, 31, 11, pp. 1632-1642., Registrované v: SCOPUS

ADCA02 ABAD, Sandra - NAHÁLKA, Jozef - BERGLER, Gabriele - ARNOLD, S. Alison - SPEIGHT, Robert - FOTHERINGHAM, Ian - NIDETZKY, Bernd - GLIEDER, Anton. Stepwise engineering of a *Pichia pastoris* D-amino acid oxidase whole cell catalyst. In *Microbial Cell Factories*, 2010, vol. 9, art. no. 24, (12 p. ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/1475-2859-9-24>

Ohlasy:

1. [1.1] BORMANN, Sebastian - BUREK, Bastien Oliver - ULBER, Roland - HOLTMANN, Dirk. Immobilization of unspecific peroxygenase expressed in *Pichia pastoris* by metal affinity binding. In MOLECULAR CATALYSIS. ISSN 2468-8231, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.mcat.2020.110999>., Registrované v: WOS

2. [1.1] BRAUN-GALLEANI, Stephanie - HENRIQUEZ, Maria-Jose - NESBETH, Darren N. Whole cell biosynthesis of 1-methyl-3-phenylpropylamine and 2-amino-1,3,4-butanetriol using *Komagataella phaffii* (*Pichia pastoris*) strain BG-10 engineered with a transgene encoding *Chromobacterium violaceum* omega-transaminase. In HELIYON. ISSN 2405-8440, 2019, vol. 5, no. 8, pp., Registrované v: WOS

3. [1.1] JUTURU, Veeresh - WU, Jin Chuan. Heterologous Protein Expression in *Pichia pastoris*: Latest Research Progress and Applications. In

CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 1, pp. 7-21.,

Registrované v: WOS

4. [1.1] KADISCH, Marvin - WILLRODT, Christian - HILLEN, Michael - BUEHLER, Bruno - SCHMID, Andreas. Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS

5. [1.1] MARESOVA, Helena - PALYZOVA, Andrea - PLACKOVA, Martina - GRULICH, Michal - RAJASEKAR, Vyasa Williams - STEPANEK, Vaclav - KYSLIKOVA, Eva - KYSLIK, Pavel. Potential of *Pichia pastoris* for the production of industrial penicillin G acylase. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2017, vol. 62, no. 5, pp. 417-424., Registrované v: WOS

6. [1.1] MOENS, Esther - BOLCA, Selin - POSSEMIERS, Sam - VERSTRAETE, Willy. A Wake-Up Call for the Efficient Use of the Bacterial Resting Cell Process, with Focus on Low Solubility Products. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2020, vol. 77, no. 8, pp. 1349-1362. Dostupné na: <https://doi.org/10.1007/s00284-020-01959-8>., Registrované v: WOS

7. [1.1] PEDRO, A. Q. - OPPOLZER, D. - BONIFACIO, M. J. - MAIA, C. J. - QUEIROZ, J. A. - PASSARINHA, L. A. Evaluation of Mut(S) and Mut(+) *Pichia pastoris* Strains for Membrane-Bound Catechol-O-Methyltransferase Biosynthesis. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 8, pp. 3840-3855., Registrované v: WOS

8. [1.1] RAMESH, Hemalata - ZAJKOSKA, Petra - REBROS, Martin - WOODLEY, John M. The effect of cultivation media and washing whole-cell biocatalysts on monoamine oxidase catalyzed oxidative desymmetrization of 3-azabicyclo[3,3,0]octane. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 83, no., pp. 7-13., Registrované v: WOS

9. [1.1] SCHWARZHANS, Jan-Philipp - LUTTERMANN, Tobias - GEIER, Martina - KALINOWSKI, Joern - FRIEHS, Karl. Towards systems metabolic engineering in *Pichia pastoris*. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 6, pp. 681-710., Registrované v: WOS

10. [1.1] WEI, Yu-Chia - BRAUN-GALLEANI, Stephanie - HENRIQUEZ, Maria Jose - BANDARA, Sahan - NESBETH, Darren. Biotransformation of hydroxypyruvate and glycolaldehyde to l-erythrulose by *Pichia pastoris* strain GS115 overexpressing native transketolase. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 1, pp. 99-106., Registrované v: WOS

11. [1.1] ZHANG, Zhi-Jun - YU, Hui-Lei - IMANAKA, Tadayuki - XU, Jian-He. Efficient production of (R)-(-)-mandelic acid by isopropanol-permeabilized recombinant *E. coli* cells expressing *Alcaligenes* sp nitrilase. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2015, vol. 95, no., pp. 71-77., Registrované v: WOS

12. [1.1] ZHU, Taicheng - SUN, Hongbing - WANG, Meiyu - LI, Yin. *Pichia pastoris* as a Versatile Cell Factory for the Production of Industrial Enzymes and Chemicals: Current Status and Future Perspectives. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 6, pp., Registrované v: WOS

13. [1.1] Registrované v: WOS

14. [1.2] HUERTA-OCHOA, Sergio - CASTILLO-ARAIZA, Carlos

Omar - GUERRERO, Angélica Román - PRADO-BARRAGÁN, Arely.
Whole-Cell Bioconversion of Citrus Flavonoids to Enhance Their Biological
Properties. In *Studies in Natural Products Chemistry*. ISSN 15725995,
2018-01-01, 61, pp. 335-367., Registrované v: SCOPUS

ADCA03 ACCOGLI, Gianluca - DESANTIS, Salvatore - MARTINO, Nicola Antonio -
DELL'AQUILA, Maria Elena - GEMEINER, Peter - KATRLÍK, Jaroslav. A
lectin-based cell microarray approach to analyze the mammalian granulosa cell
surface glycosylation profile. In *Glycoconjugate Journal*, 2016, vol. 33, p. 717-724.
(2015: 1.828 - IF, Q3 - JCR, 0.722 - SJR, Q3 - SJR, Current Contents - CCC). (2016
- Current Contents). ISSN 0282-0080. Dostupné na:
<https://doi.org/10.1007/s10719-016-9666-2>

Ohlasy:

1. [1.1] HOSODA, Masae - TAKAHASHI, Yushi - SHIOTA, Masaaki -
SHINMACHI, Daisuke - INOMOTO, Renji - HIGASHIMOTO, Shinichi -
AOKI-KINOSHITA, Kiyoko F. MCAW-DB: A glycan profile database
capturing the ambiguity of glycan recognition patterns. In *CARBOHYDRATE
RESEARCH*. ISSN 0008-6215, 2018, vol. 464, no., pp. 44-56., Registrované v:
WOS
2. [1.1] ZHANG, Xiaoqing - NIE, Huan - WHITED, Joshua - WANG,
Dan - LI, Yu - SUN, Xue-Long. Recent approaches for directly profiling cell
surface sialoform. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 12,
pp. 910-924., Registrované v: WOS

ADCA04 ADAM, G. - SCHREIBER, K. - TOMKO, Jozef - VASSOVÁ, Anna.
Verazine, a Veratrum alkaloid 22,26-immunocholestane skeleton. In *Tetrahedron*,
1967, vol. 23, p. 167-171. ISSN 0040-4020.

Ohlasy:

1. [1.1] AUGUSTIN, Megan M. - RUZICKA, Dan R. - SHUKLA,
Ashutosh K. - AUGUSTIN, Joerg M. - STARKS, Courtney M. -
O'NEIL-JOHNSON, Mark - MCKAIN, Michael R. - EVANS, Bradley S. -
BARRETT, Matt D. - SMITHSON, Ann - WONG, Gane Ka-Shu - DEYHOLOS,
Michael K. - EDGER, Patrick P. - PIRES, J. Chris - LEEBENS-MACK, James
H. - MANN, David A. - KUTCHAN, Toni M. Elucidating steroid alkaloid
biosynthesis in *Veratrum californicum*: production of verazine in Sf9 cells. In
PLANT JOURNAL. ISSN 0960-7412, 2015, vol. 82, no. 6, pp. 991-1003.,
Registrované v: WOS
2. [1.1] MA, Xuetao - LIU, Meiyang - WU, Zhenqi - LI, Yanfeng.
Anti-proliferative activity of active constituents in *Veratrum dahuricum* on
human bladder cancer T24 cells. In *BIOMEDICAL RESEARCH-INDIA*. ISSN
0970-938X, 2015, vol. 26, no. 4, pp. 672-676., Registrované v: WOS
3. [1.1] YUAN, Haibin - ZHAO, Xinyang - GE, Siyan - HUANG, Xing
- LIU, Jinghao - WANG, Yong. A NEW TYPE OF MYTHIMNA SEPARATA
(LEPIDOPTERA: NOCTUIDAE) ANTENNAL SENSILLA. In
ENTOMOLOGICAL NEWS. ISSN 0013-872X, 2017, vol. 127, no. 1, pp.
11-20., Registrované v: WOS

ADCA05 ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - BIELY,
Peter - COWAN, Don A. Phylogeny, classification and metagenomic bioprospecting
of microbial acetyl xylan esterases. In *Enzyme and Microbial Technology*, 2016, vol.

93-94, p. 79-91. (2015: 2.624 - IF, Q2 - JCR, 0.846 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2016.07.001>

Ohlasy:

1. [1.1] ALI, Sikander - MAHMOOD, Saba. Mutagenesis of a Thermophilic *Alkalibacillus flavidus* for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>, Registrované v: WOS
2. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
3. [1.1] DORAISWAMY, Nithyakalyani - SARATHI, Mahalakshmi - PENNATHUR, Gautam. Cross-linked esterase aggregates (CLEAs) using nanoparticles as immobilization matrix. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2019, vol. 49, no. 3, pp. 270-278., Registrované v: WOS
4. [1.1] JONES, Darryl R. - MCLEAN, Richard - HOBBS, Joanne K. - ABBOTT, D. Wade. A surrogate structural platform informed by ancestral reconstruction and resurrection of a putative carbohydrate binding module hybrid illuminates the neofunctionalization of a pectate lyase. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, 2019, vol. 207, no. 3, pp. 279-286., Registrované v: WOS
5. [1.1] KARNAOURI, Anthi - ANTONOPOULOU, Io - ZERVA, Anastasia - DIMAROGONA, Maria - TOPAKAS, Evangelos - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 279, no., pp. 362-372., Registrované v: WOS
6. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from *Lactobacillus antri* and *Bacillus halodurans*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>, Registrované v: WOS
7. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS
8. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

9. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
10. [1.1] OH, Changsuk - RYU, Bum Han - YOO, Wanki - DUY DUC NGUYEN - KIM, Truc - HA, Sung-Chul - KIM, T. Doohun - KIM, Kyeong Kyu. Identification and Crystallographic Analysis of a New Carbohydrate Acetylesterase (SmAcE1) from *Sinorhizobium meliloti*. In *CRYSTALS*. ISSN 2073-4352, 2018, vol. 8, no. 1, pp., Registrované v: WOS
11. [1.1] PARK, Young-Jin - JEONG, Yong-Un - KONG, Won-Sik. Genome Sequencing and Carbohydrate-Active Enzyme (CAZyme) Repertoire of the White Rot Fungus *Flammulina elastica*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 8, pp., Registrované v: WOS
12. [1.1] PARK, Young-Jin - KONG, Won-Sik. Genome-Wide Comparison of Carbohydrate-Active Enzymes (CAZymes) Repertoire of *Flammulina ononidis*. In *MYCOBIOLOGY*. ISSN 1229-8093, 2018, vol. 46, no. 4, pp. 349-360., Registrované v: WOS
13. [1.1] PARK, Young-Jin - LEE, Chang-Soo - KONG, Won-Sik. Genomic Insights into the Fungal Lignocellulolytic Machinery of *Flammulina rossica*. In *MICROORGANISMS*, 2019, vol. 7, no. 10, pp., Registrované v: WOS
14. [1.1] PINES, Gur - GILL, Ryan T. Dynamic Management of Codon Compression for Saturation Mutagenesis. In *SYNTHETIC BIOLOGY: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2018, vol. 1772, no., pp. 171-189., Registrované v: WOS
15. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
16. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
17. [1.1] SALDARRIAGA-HERNANDEZ, Sara - VELASCO-AYALA, Carolina - FLORES, Paulina Leal-Isla - ROSTRO-ALANIS, Magdalena de Jesus - PARRA-SALDIVAR, Roberto - IQBAL, M. N. Hafiz - CARRILLO-NIEVES, Danay. Biotransformation of lignocellulosic biomass into industrially relevant products with the aid of fungi-derived lignocellulolytic enzymes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 161, no., pp. 1099-1116. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.047>., Registrované v: WOS
18. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

19. [1.1] STRAZZULLI, Andrea - COBUCCI-PONZANO, Beatrice - IACONO, Roberta - GIGLIO, Rosa - MAURELLI, Luisa - CURCI, Nicola - SCHIANO-DI-COLA, Corinna - SANTANGELO, Annalisa - CONTURSI, Patrizia - LOMBARD, Vincent - HENRISSAT, Bernard - LAURO, Federico M. - FONTES, Carlos M. G. A. - MORACCI, Marco. Discovery of hyperstable carbohydrate-active enzymes through metagenomics of extreme environments. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 6, pp. 1116-1137. Dostupné na: <https://doi.org/10.1111/febs.15080>., Registrované v: WOS
20. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioprospects. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v: WOS
21. [1.1] WANG, Ying - LE, Ly Thi Huong Luu - YOO, Wanki - LEE, Chang Woo - KIM, Kyeong Kyu - LEE, Jun Hyuck - KIM, T. Doohun. Characterization, immobilization, and mutagenesis of a novel cold-active acetylcysteine (EaAcE) from *Exiguobacterium antarcticum* B7. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 136, no., pp. 1042-1051., Registrované v: WOS
22. [1.1] WANG, Ying - RYU, Bum Han - YOO, Wanki - LEE, Chang Woo - KIM, Kyeong Kyu - LEE, Jun Hyuck - KIM, T. Doohun. Identification, characterization, immobilization, and mutational analysis of a novel acetylcysteine with industrial potential (LaAcE) from *Lactobacillus acidophilus*. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2018, vol. 1862, no. 1, pp. 197-210., Registrované v: WOS
23. [1.1] WANG, Yuanji - HUANG, Qianqian - LIU, Chen - DING, Yuanyuan - LIU, Li - TIAN, Yuli - WU, Xiaoping - LI, Huike - AWASTHI, Mukesh Kumar - ZHAO, Zhengyang. Mulching practices alter soil microbial functional diversity and benefit to soil quality in orchards on the Loess Plateau. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2020, vol. 271, no., pp. Dostupné na: <https://doi.org/10.1016/j.jenvman.2020.110985>., Registrované v: WOS
24. [1.1] ZHU, Yan - HASSAN, Yousef I. - LEPP, Dion - SHAO, Suqin - ZHOU, Ting. Strategies and Methodologies for Developing Microbial Detoxification Systems to Mitigate Mycotoxins. In TOXINS. ISSN 2072-6651, 2017, vol. 9, no. 4, pp., Registrované v: WOS
25. [1.2] LEE, Chang Soo - KONG, Won Sik - PARK, Young Jin. Genome sequencing and genome-wide identification of carbohydrate-active enzymes (CAZymes) in the white rot fungus *Flammulina fennae*. In Microbiology and Biotechnology Letters. ISSN 1598642X, 2018-09-01, 46, 3, pp. 300-312., Registrované v: SCOPUS
26. [3.2] IBRAHM, Abdelnasser Salah Shebl; El-DIWANI, Ahmed Ibrahim. Recent Trends for Discovery and Enhancement of Enzyme Function: A Review. In Egyptian Journal of Microbiology. ISSN: 0022-2704, 2019, Vol. 53 Issue: 1 Pages: 151-175

ADCA06 AHYAYAUCH, Hasna - RAAB, Michal - BUSTO, Jon V. - ANDRAKA, Nagore - ARRONDO, José-Luis - MASSERINI, Massimo - TVAROŠKA, Igor - GONI, Félix M. Binding of beta-amyloid (1-42) peptide to negatively charged

phospholipid membranes in the liquid-ordered state: Modeling and experimental studies. In *Biophysical Journal*, 2012, vol.103, p. 453-463. (2011: 3.653 - IF, Q2 - JCR, 2.357 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0006-3495. Dostupné na: <https://doi.org/10.1016/j.bpj.2012.06.043>

Ohlasy:

1. [1.1] BAMDAD, Fatemeh - AHMED, Sahar - CHEN, Lingyun.
Specifically designed peptide structures effectively suppressed oxidative reactions in chemical and cellular systems. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2015, vol. 18, no., pp. 35-46., Registrované v: WOS
2. [1.1] BARRETT, Matthew A. - ALSOP, Richard J. - HAUSS, Thomas - RHEINSTAEDTER, Maikel C. The Position of A beta(22-40) and A beta(1-42) in Anionic Lipid Membranes Containing Cholesterol. In *MEMBRANES*. ISSN 2077-0375, 2015, vol. 5, no. 4, pp. 824-843., Registrované v: WOS
3. [1.1] BOLANO ALVAREZ, Alain - CARUSO, Benjamin - RODRIGUEZ, Pablo E. A. - PETERSEN, Steffen B. - FIDELIO, Gerardo D. A beta-Amyloid Fibrils Are Self-Triggered by the Interfacial Lipid Environment and Low Peptide Content. In *LANGMUIR*. ISSN 0743-7463, 2020, vol. 36, no. 28, pp. 8056-8065. Dostupné na: <https://doi.org/10.1021/acs.langmuir.0c00468>., Registrované v: WOS
4. [1.1] DECZKOWSKA, Aleksandra - KEREN-SHAUL, Hadas - WEINER, Assaf - COLONNA, Marco - SCHWARTZ, Michal - AMIT, Ido. Disease-Associated Microglia: A Universal Immune Sensor of Neurodegeneration. In *CELL*. ISSN 0092-8674, 2018, vol. 173, no. 5, pp. 1073-1081., Registrované v: WOS
5. [1.1] FABIANI, Camila - ANTOLLINI, Silvia S. Alzheimer's Disease as a Membrane Disorder: Spatial Cross-Talk Among Beta-Amyloid Peptides, Nicotinic Acetylcholine Receptors and Lipid Rafts. In *FRONTIERS IN CELLULAR NEUROSCIENCE*. ISSN 1662-5102, 2019, vol. 13, no., pp., Registrované v: WOS
6. [1.1] FARRUGIA, Maria Ylenia - CARUANA, Mario - GHIO, Stephanie - CAMILLERI, Angelique - FARRUGIA, Claude - CAUCHI, Ruben J. - CAPPELLI, Sara - CHITI, Fabrizio - VASSALLO, Neville. Toxic oligomers of the amyloidogenic HypF-N protein form pores in mitochondrial membranes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74841-z>., Registrované v: WOS
7. [1.1] FUHS, Thomas - KLAUSEN, Lasse Hyldgaard - SONDERSKOV, Steffan Moller - HAN, Xiaojun - DONG, Mingdong. Direct measurement of surface charge distribution in phase separating supported lipid bilayers. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 9, pp. 4538-4544., Registrované v: WOS
8. [1.1] KHONDKER, Adree - ALSOP, Richard J. - RHEINSTADTER, Maikel C. Membrane-Accelerated Amyloid-beta Aggregation and Formation of Cross-beta Sheets. In *MEMBRANES*. ISSN 2077-0375, 2017, vol. 7, no. 3, pp., Registrované v: WOS
9. [1.1] KHONDKER, Adree - ALSOP, Richard J. - HIMBERT, Sebastian - TANG, Jennifer - SHI, An-Chang - HITCHCOCK, Adam P. - RHEINSTADTER, Maikel C. Membrane-Modulating Drugs can Affect the Size of Amyloid-beta(25-35) Aggregates in Anionic Membranes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

10. [1.1] KO, Mihee - HATTORI, Toshihide - ABDULLAH, Mohammad - GONG, Jian-Sheng - YAMANE, Tsuneo - MICHIKAWA, Makoto. Phosphatidylcholine protects neurons from toxic effects of amyloid beta-protein in culture. In BRAIN RESEARCH. ISSN 0006-8993, 2016, vol. 1642, no., pp. 376-383., Registrované v: WOS
11. [1.1] LI, Zhen-lu - DING, Hong-ming - MA, Yu-qiang. Interaction of peptides with cell membranes: insights from molecular modeling. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, 2016, vol. 28, no. 8, pp., Registrované v: WOS
12. [1.1] LOCKHART, Christopher - KLIMOV, Dmitri K. The Alzheimer's disease A beta peptide binds to the anionic DMPS lipid bilayer. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-2736, 2016, vol. 1858, no. 6, pp. 1118-1128., Registrované v: WOS
13. [1.1] MENON, Sneha - SENGUPTA, Neelanjana - DAS, Payel. Nanoscale Interplay of Membrane Composition and Amyloid Self-Assembly. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2020, vol. 124, no. 28, pp. 5837-5846. Dostupné na: <https://doi.org/10.1021/acs.jpcb.0c03796>., Registrované v: WOS
14. [1.1] MULLER, Melanie P. - JIANG, Tao - SUN, Chang - LIHAN, Muyun - PANT, Shashank - MAHINTHICHAICHAN, Paween - TRIFAN, Anda - TAJKHORSHID, Emad. Characterization of Lipid-Protein Interactions and Lipid-Mediated Modulation of Membrane Protein Function through Molecular Simulation. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 9, pp. 6086-6161., Registrované v: WOS
15. [1.1] MURUGOVA, Tatiana - IVANKOV, Oleksandr - ERMAKOVA, Elena - KONDELA, Tomas - HRUBOVCAK, Pavol - SKOI, Vadim - KUKLIN, Alexander - KUCERKA, Norbert. Structural changes introduced by cholesterol and melatonin to the model membranes mimicking preclinical conformational diseases. In GENERAL PHYSIOLOGY AND BIOPHYSICS. ISSN 0231-5882, 2020, vol. 39, no. 2, pp. 135-144. Dostupné na: https://doi.org/10.4149/gpb_2019054., Registrované v: WOS
16. [1.1] NARDO, Luca - RE, Francesca - BRIOSCHI, Simone - CAZZANIGA, Emanuela - ORLANDO, Antonina - MINNITI, Stefania - LAMPERTI, Marco - GREGORI, Maria - CASSINA, Valeria - BROGIOLI, Dorian - SALERNO, Domenico - MANTEGAZZA, Francesco. Fluorimetric detection of the earliest events in amyloid beta oligomerization and its inhibition by pharmacologically active liposomes. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2016, vol. 1860, no. 4, pp. 746-756., Registrované v: WOS
17. [1.1] ONO, Kenjiro - TSUJI, Mayumi - YAMASAKI, Tritia R. - PASINETTI, Giulio M. Anti-aggregation Effects of Phenolic Compounds on alpha-synuclein. In MOLECULES, 2020, vol. 25, no. 10, pp. Dostupné na: <https://doi.org/10.3390/molecules25102444>., Registrované v: WOS
18. [1.1] OSTERLUND, Nicklas - MOONS, Rani - ILAG, Leopold L. - SOBOTT, Frank - GRASLUND, Astrid. Native Ion Mobility-Mass Spectrometry Reveals the Formation of beta-Barrel Shaped Amyloid-beta Hexamers in a Membrane-Mimicking Environment. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 26, pp. 10440-10450., Registrované v: WOS
19. [1.1] OSTERLUND, Nicklas - LUO, Jinghui - WARMLANDER,

- Sebastian K. T. S. - GRASLUND, Astrid. Membrane-mimetic systems for biophysical studies of the amyloid-beta peptide. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2019, vol. 1867, no. 5, pp. 492-501., Registrované v: WOS
20. [1.1] PARIKH, Niyati - KLIMOV, Dmitri K. Inclusion of lipopeptides into the DMPC lipid bilayers prevents A beta peptide insertion. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2017, vol. 19, no. 15, pp. 10087-10098., Registrované v: WOS
21. [1.1] POYRY, Sanja - VATTULAINEN, Ilpo. Role of charged lipids in membrane structures Insight given by simulations. In *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*. ISSN 0005-2736, 2016, vol. 1858, no. 10, pp. 2322-2333., Registrované v: WOS
22. [1.1] ROSE, Christiane - DORARD, Emilie - AUDRAIN, Mickael - GORISSE-HUSSONNOIS, Lucie - CARTIER, Nathalie - BRAUDEAU, Jerome - ALLINQUANT, Bernadette. Transient increase in sAPP alpha secretion in response to A beta 1-42 oligomers: an attempt of neuronal self-defense? In *NEUROBIOLOGY OF AGING*. ISSN 0197-4580, 2018, vol. 61, no., pp. 23-35., Registrované v: WOS
23. [1.1] SAHOO, Abhilash - MATYSIAK, Silvina. Computational insights into lipid assisted peptide misfolding and aggregation in neurodegeneration. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2019, vol. 21, no. 41, pp. 22679-22694., Registrované v: WOS
24. [1.1] SCIACCA, Michele F. M. - TEMPRA, Carmelo - SCOLLO, Federica - MILARDI, Danilo - LA ROSA, Carmelo. Amyloid growth and membrane damage: Current themes and emerging perspectives from theory and experiments on A beta and hIAPP. In *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*. ISSN 0005-2736, 2018, vol. 1860, no. 9, pp. 1625-1638., Registrované v: WOS
25. [1.1] SCHNEIDER, Mario - WALTA, Stefan - CADEK, Chris - RICHTERING, Walter - WILLBOLD, Dieter. Fluorescence correlation spectroscopy reveals a cooperative unfolding of monomeric amyloid-beta 42 with a low Gibbs free energy. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
26. [1.1] SIVAPRAKASAM, Chinnarasu - VIJAYAKUMAR, Rajendran - ARUL, Mathivanan - NACHIAPPAN, Vasanthi. Alteration of mitochondrial phospholipid due to the PLA(2) activation in rat brains under cadmium toxicity. In *TOXICOLOGY RESEARCH*. ISSN 2045-452X, 2016, vol. 5, no. 6, pp. 1680-1687., Registrované v: WOS
27. [1.1] TANG, Jennifer - ALSOP, Richard J. - BACKHOLM, Matilda - DIES, Hannah - SHI, An-Chang - RHEINSTAEDTER, Maikel C. Amyloid-beta(25-35) peptides aggregate into cross-beta sheets in unsaturated anionic lipid membranes at high peptide concentrations. In *SOFT MATTER*. ISSN 1744-683X, 2016, vol. 12, no. 13, pp. 3165-3176., Registrované v: WOS
28. [1.1] TAN, Jay X. - FINKEL, Toren. Mitochondria as intracellular signaling platforms in health and disease. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2020, vol. 219, no. 5, pp. Dostupné na: <https://doi.org/10.1083/jcb.202002179>., Registrované v: WOS
29. [1.1] TIWARI, Sneham - ATLURI, Venkata Subba Rao - ARIAS, Adriana Yndart - JAYANT, Rahul Dev - KAUSHIK, Afeet - GEIGER, Jonathan - NAIR, Madhavan N. Withaferin A Suppresses Beta Amyloid in APP

Expressing Cells: Studies for Tat and Cocaine Associated Neurological Dysfunctions. In FRONTIERS IN AGING NEUROSCIENCE. ISSN 1663-4365, 2018, vol. 10, no., pp., Registrované v: WOS

30. [1.1] WANG, Yaming - CELLA, Marina - MALLINSON, Kaitlin - ULRICH, Jason D. - YOUNG, Katherine L. - ROBINETTE, Michelle L. - GILFILLAN, Susan - KRISHNAN, Gokul M. - SUDHAKAR, Shwetha - ZINSELMAYER, Bernd H. - HOLTZMAN, David M. - CIRRITO, John R. - COLONNA, Marco. TREM2 Lipid Sensing Sustains the Microglial Response in an Alzheimer's Disease Model. In CELL. ISSN 0092-8674, 2015, vol. 160, no. 6, pp. 1061-1071., Registrované v: WOS

31. [1.1] YOO, Yong Kyoung - KIM, Gangeun - PARK, Dongsung - KIM, Jinsik - KIM, YoungSoo - KIM, Hye Yun - YANG, Seung Hoon - LEE, Jeong Hoon - HWANG, Kyo Seon. Gold nanoparticles assisted sensitivity improvement of interdigitated microelectrodes biosensor for amyloid-beta detection in plasma sample. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 308, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.127710>., Registrované v: WOS

32. [3.2] Group Author(s). Uniprot Consortium. O97432. IN Uniprot Consortium, 2016. Dostupné na internete: www.uniprot.org/uniprot/O97432, Registrované v: Data Citation Index

ADCA07 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Degradation of polyphosphates by polyphosphate kinases from *Ruegeria pomeroyi*. In *Biotechnology Letters*, 2014, vol. 36, p. 2029-2035. (2013: 1.736 - IF, Q3 - JCR, 0.713 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-014-1566-6>

Ohlasy:

1. [1.1] BATTEN, Laura E. - PARNELL, Alice E. - WELLS, Neil J. - MURCH, Amber L. - OYSTON, Petra C. F. - ROACH, Peter L. Biochemical and structural characterization of polyphosphate kinase 2 from the intracellular pathogen *Francisella tularensis*. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2016, vol. 36, no., pp., Registrované v: WOS

2. [1.1] DUAN, Yafei - WANG, Yun - LIU, Qingsong - DONG, Hongbiao - LI, Hua - XIONG, Dalin - ZHANG, Jiasong. Changes in the intestine microbial, digestion and immunity of *Litopenaeus vannamei* in response to dietary resistant starch. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

3. [1.1] DUAN, Yafei - WANG, Yun - DING, Xian - XIONG, Dalin - ZHANG, Jiasong. Response of intestine microbiota, digestion, and immunity in Pacific white shrimp *Litopenaeus vannamei* to dietary succinate. In AQUACULTURE. ISSN 0044-8486, 2020, vol. 517, no., pp. Dostupné na: <https://doi.org/10.1016/j.aquaculture.2019.734762>., Registrované v: WOS

4. [1.1] DUAN, Yafei - XIONG, Dalin - WANG, Yun - DONG, Hongbiao - HUANG, Jianhua - ZHANG, Jiasong. Effects of *Microcystis aeruginosa* and microcystin-LR on intestinal histology, immune response, and microbial community in *Litopenaeus vannamei*. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 265, no. PT A, pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.114774>., Registrované v: WOS

5. [1.1] LAI, Keng Po - LIN, Xiao - TAM, Nathan - HO, Jeff Cheuk Hin

- WONG, Marty Kwok-Shing - GU, Jie - CHAN, Ting Fung - TSE, William Ka Fai. Osmotic stress induces gut microbiota community shift in fish. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2020, vol. 22, no. 9, pp. 3784-3802. Dostupné na: <https://doi.org/10.1111/1462-2920.15150>., Registrované v: WOS

6. [1.1] LIU, Shuting - BAETGE, Nicholas - COMSTOCK, Jacqueline - OPALK, Keri - PARSONS, Rachel - HALEWOOD, Elisa - ENGLISH, Chance J. - GIOVANNONI, Stephen - BOLANOS, Luis M. - NELSON, Craig E. - VERGIN, Kevin - CARLSON, Craig A. Stable Isotope Probing Identifies Bacterioplankton Lineages Capable of Utilizing Dissolved Organic Matter Across a Range of Bioavailability. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.580397>., Registrované v: WOS

7. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS

8. [1.1] NOCEK, Boguslaw P. - KHUSNUTDINOVA, Anna N. - RUSZKOWSKI, Milosz - FLICK, Robert - BURDA, Malgorzata - BATYROVA, Khorcheska - BROWN, Greg - MUCHA, Artur - JOACHIMIAK, Andrzej - BERLICKI, Lukasz - YAKUNIN, Alexander F. Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 11, pp. 10746-10760., Registrované v: WOS

9. [1.2] CHI, Won Jae - KIM, Jong Hee - PARK, Jae Seon - HONG, Soon Kwang. Identification of a new marine bacterium Ruegeria sp. 50C-3 isolated from seawater of Uljin in Korea and production of thermostable enzymes. In Korean Journal of Microbiology. ISSN 04402413, 2016-01-01, 52, 3, pp. 344-344., Registrované v: SCOPUS

10. [3.2] Group Author(s). Uniprot Consortium. Q5LSN8. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q5LSN8>, Registrované v: Data Citation index

11. [3.2] Group Author(s). Uniprot Consortium. Q5LU04. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q5LU04>, Registrované v: Data Citation index

12. [3.2] Group Author(s). Uniprot Consortium. Q5LX16. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q5LX16>, Registrované v: Data Citation Index

ADCA08 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Polyphosphate - an ancient energy source and active metabolic regulator. In *Microbial Cell Factories*, 2011, vol. 10, article no. 63. (2010: 4.544 - IF, Q1 - JCR, 1.627 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/1475-2859-10-63>

Ohlasy:

1. [1.1] ALBI, Tomas - SERRANO, Aurelio. Inorganic polyphosphate in the microbial world. Emerging roles for a multifaceted biopolymer. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2016, vol. 32, no. 2, pp., Registrované v: WOS

2. [1.1] ANDREEVA, Nadeshda - LEDOVA, Larisa - RYAZANOVA, Lubov - TOMASHEVSKY, Alexander - KULAKOVSKAYA, Tatiana - ELDAROV, Mikhail. Ppn2 endopolyphosphatase overexpressed in *Saccharomyces cerevisiae*: Comparison with Ppn1, Ppx1, and Ddp1 polyphosphatases. In *BIOCHIMIE*. ISSN 0300-9084, 2019, vol. 163, no., pp. 101-107., Registrované v: WOS
3. [1.1] ANGEL FREIRE, Miguel. Nontemplate-driven polymers: clues to a minimal form of organization closure at the early stages of living systems. In *THEORY IN BIOSCIENCES*. ISSN 1431-7613, 2015, vol. 134, no. 1-2, pp. 47-64., Registrované v: WOS
4. [1.1] AUGUSTYNIAK, Adrian - CENDROWSKI, Krzysztof - NAWROTEK, Pawel - BARYLAK, Martyna - MIJOWSKA, Ewa. Investigating the Interaction Between *Streptomyces* sp and Titania/Silica Nanospheres. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2016, vol. 227, no. 7, pp., Registrované v: WOS
5. [1.1] BERENICE MARTINEZ-RUIZ, Erika - MARTINEZ-JERONIMO, Fernando. Nickel has biochemical, physiological, and structural effects on the green microalga *Ankistrodesmus falcatus*: An integrative study. In *AQUATIC TOXICOLOGY*. ISSN 0166-445X, 2015, vol. 169, no., pp. 27-36., Registrované v: WOS
6. [1.1] BERENICE MARTINEZ-RUIZ, Erika - MARTINEZ-JERONIMO, Fernando. How do toxic metals affect harmful cyanobacteria? An integrative study with a toxigenic strain of *Microcystis aeruginosa* exposed to nickel stress. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2016, vol. 133, no., pp. 36-46., Registrované v: WOS
7. [1.1] BRANDT, Sven - KRAUEL, Krystin - JAAX, Miriam - RENNE, Thomas - HELM, Christiane A. - HAMMERSCHMIDT, Sven - DELCEA, Mihaela - GREINACHER, Andreas. Polyphosphates form antigenic complexes with platelet factor 4 (PF4) and enhance PF4-binding to bacteria. In *THROMBOSIS AND HAEMOSTASIS*. ISSN 0340-6245, 2015, vol. 114, no. 6, pp. 1189-1198., Registrované v: WOS
8. [1.1] BUCKERIDGE, Kate M. - SCHAEFFER, Sean M. - SCHIMEL, Joshua P. Vegetation Leachate During Arctic Thaw Enhances Soil Microbial Phosphorus. In *ECOSYSTEMS*. ISSN 1432-9840, 2016, vol. 19, no. 3, pp. 477-489., Registrované v: WOS
9. [1.1] CAO, Hao - NIE, Kaili - LI, Chengcheng - XU, Haijun - WANG, Fang - TAN, Tianwei - LIU, Luo. Rational design of substrate binding pockets in polyphosphate kinase for use in cost-effective ATP-dependent cascade reactions. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5325-5332., Registrované v: WOS
10. [1.1] CASCHERA, Filippo - NOIREAUX, Vincent. A cost-effective polyphosphate-based metabolism fuels an all *E. coli* cell-free expression system. In *METABOLIC ENGINEERING*. ISSN 1096-7176, 2015, vol. 27, no., pp. 29-37., Registrované v: WOS
11. [1.1] CONWAY, Edward M. HUS and the case for complement. In *BLOOD*. ISSN 0006-4971, 2015, vol. 126, no. 18, pp. 2085-2090., Registrované v: WOS
12. [1.1] DANCHIN, Antoine. From chemical metabolism to life: the origin of the genetic coding process. In *BEILSTEIN JOURNAL OF ORGANIC*

CHEMISTRY. ISSN 1860-5397, 2017, vol. 13, no., pp. 1119-1135.,

Registrované v: WOS

13. [1.1] DELARUE, Frederic - ROBERT, Francois - DERENNE, Sylvie - TARTESE, Romain - JAUVION, Clement - BERNARD, Sylvain - PONT, Sylvain - GONZALEZ-CANO, Adriana - DUHAMEL, Remi - SUGITANI, Kenichiro. Out of rock: A new look at the morphological and geochemical preservation of microfossils from the 3.46 Gyr-old Strelley Pool Formation. In PRECAMBRIAN RESEARCH. ISSN 0301-9268, 2020, vol. 336, no., pp. Dostupné na: <https://doi.org/10.1016/j.precamres.2019.105472>., Registrované v: WOS

14. [1.1] DEVINE, Kevin M. Activation of the PhoPR-Mediated Response to Phosphate Limitation Is Regulated by Wall Teichoic Acid Metabolism in *Bacillus subtilis*. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

15. [1.1] DING, Qingbao - OU, Ling. NTP Regeneration and its Application in the Biosynthesis of Nucleotides and their Derivatives. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6936-6947., Registrované v: WOS

16. [1.1] FOSTER, Lynn - MORRIS, Katherine - CLEARY, Adrian - BAGSHAW, Heath - SIGEE, David - PITTMAN, Jon K. - ZHANG, Kejing - VETTESE, Gianni - SMITH, Kurt F. - LLOYD, Jonathan R. Biomineralization of Sr by the Cyanobacterium *Pseudanabaena catenata* Under Alkaline Conditions. In FRONTIERS IN EARTH SCIENCE, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/feart.2020.556244>., Registrované v: WOS

17. [1.1] GAISIN, Vasil A. - KOOGER, Romain - GROUZDEV, Denis S. - GORLENKO, Vladimir M. - PILHOFER, Martin. Cryo-Electron Tomography Reveals the Complex Ultrastructural Organization of Multicellular Filamentous *Chloroflexus* (Chloroflexi) Bacteria. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01373>., Registrované v: WOS

18. [1.1] GAUTAM, Lalit Kumar - SHARMA, Prince - CAPALASH, Neena. Bacterial Polyphosphate Kinases Revisited: Role in Pathogenesis and Therapeutic Potential. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2019, vol. 20, no. 3, pp. 292-301., Registrované v: WOS

19. [1.1] GILES, Courtney D. - CADE-MENUN, Barbara J. - LIU, Corey W. - HILL, Jane E. The short-term transport and transformation of phosphorus species in a saturated soil following poultry manure amendment and leaching. In GEODERMA. ISSN 0016-7061, 2015, vol. 257, no., pp. 134-141., Registrované v: WOS

20. [1.1] GOODENOUGH, Ursula - HEISS, Aaron A. - ROTH, Robyn - RUSCH, Jannette - LEE, Jae-Hyeok. Acidocalcisomes: Ultrastructure, Biogenesis, and Distribution in Microbial Eukaryotes. In PROTIST. ISSN 1434-4610, 2019, vol. 170, no. 3, pp. 287-313., Registrované v: WOS

21. [1.1] GOUNAND, Isabelle - DAUFRESNE, Tanguy - GRAVEL, Dominique - BOUVIER, Corinne - BOUVIER, Thierry - COMBE, Marine - GOUGAT-BARBERA, Claire - POLY, Franck - TORRES-BARCELO, Clara - MOUQUET, Nicolas. Size evolution in microorganisms masks trade-offs predicted by the growth rate hypothesis. In PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8452, 2016, vol. 283, no. 1845, pp., Registrované v: WOS

22. [1.1] GRAY, Michael J. Inorganic Polyphosphate Accumulation in *Escherichia coli* Is Regulated by DksA but Not by (p)ppGpp. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, 2019, vol. 201, no. 9, pp., Registrované v: WOS
23. [1.1] GUADALUPE ACOSTA-CORTES, Alejandra - MARTINEZ-LEDEZMA, Cesar - JAVIER LOPEZ-CHUKEN, Ulrico - KAUSHIK, Garima - NIMESH, Surendra - FRANCISCO VILLARREAL-CHIU, Juan. Polyphosphate recovery by a native *Bacillus cereus* strain as a direct effect of glyphosate uptake. In ISME JOURNAL. ISSN 1751-7362, 2019, vol. 13, no. 6, pp. 1497-1505., Registrované v: WOS
24. [1.1] HANCOCK, Edward J. - ANG, Jordan - PAPACHRISTODOULOU, Antonis - STAN, Guy-Bart. The Interplay between Feedback and Buffering in Cellular Homeostasis. In CELL SYSTEMS. ISSN 2405-4712, 2017, vol. 5, no. 5, pp. 498-+, Registrované v: WOS
25. [1.1] HEUCK, Christine - WEIG, Alfons - SPOHN, Marie. Soil microbial biomass C:N:P stoichiometry and microbial use of organic phosphorus. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2015, vol. 85, no., pp. 119-129., Registrované v: WOS
26. [1.1] HICE, Stephanie A. - SANTOSCOY, Miguel C. - SOUPIR, Michelle L. - CADEMARTIRI, Rebecca. Distinguishing between metabolically active and dormant bacteria on paper. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 1, pp. 367-375., Registrované v: WOS
27. [1.1] HILLE-REHFELD, Annette. Polyphosphates in the marine Phosphorus Cycle. In CHEMIE IN UNSERER ZEIT. ISSN 0009-2851, 2015, vol. 49, no. 4, pp. 227-227., Registrované v: WOS
28. [1.1] HOLLAND, Alexandra T. - PINTO, Benoit Bergk - LAYTON, Rose - WILLIAMSON, Christopher J. - ANESIO, Alexandre M. - VOGEL, Timothy M. - LAROSE, Catherine - TRANTER, Martyn. Over Winter Microbial Processes in a Svalbard Snow Pack: An Experimental Approach. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01029>., Registrované v: WOS
29. [1.1] HUANG, Xiao-Lan. Hydrolysis of Phosphate Esters Catalyzed by Inorganic Iron Oxide Nanoparticles Acting as Biocatalysts. In ASTROBIOLOGY. ISSN 1531-1074, 2018, vol. 18, no. 3, pp. 294-310., Registrované v: WOS
30. [1.1] HUGHES, Erik A. B. - ROBINSON, Thomas E. - BASSETT, David B. - COX, Sophie C. - GROVER, Liam M. Critical and diverse roles of phosphates in human bone formation. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 47, pp. 7460-7470., Registrované v: WOS
31. [1.1] HU, Ning - LI, Hui - TANG, Zheng - LI, Zhongfang - LI, Guichun - JIANG, Yong - HU, Xiaomin - LOU, Yilai. Community size, activity and C:N stoichiometry of soil microorganisms following reforestation in a Karst region. In EUROPEAN JOURNAL OF SOIL BIOLOGY. ISSN 1164-5563, 2016, vol. 73, no., pp. 77-83., Registrované v: WOS
32. [1.1] HYOJU, Sanjiv K. - KLABBERS, Robin E. - AARON, Melissa - KREZALEK, Monika A. - ZABORIN, Alexander - WIEGERINCK, Mara - HYMAN, Neil H. - ZABORINA, Olga - VAN GOOR, Harry - ALVERDY, John C. Oral Polyphosphate Suppresses Bacterial Collagenase Production and Prevents

Anastomotic Leak Due to *Serratia marcescens* and *Pseudomonas aeruginosa*. In ANNALS OF SURGERY. ISSN 0003-4932, 2018, vol. 267, no. 6, pp. 1112-1118., Registrované v: WOS

33. [1.1] CHANDRASHEKHAR, Kshipra - KASSEM, Issmat I. - NISLOW, Corey - GANGAIAH, Dharanesh - CANDELERU-RUEDA, Rosario A. - RAJASHEKARA, Gireesh. Transcriptome analysis of *Campylobacter jejuni* polyphosphate kinase (ppk1 and ppk2) mutants. In VIRULENCE. ISSN 2150-5594, 2015, vol. 6, no. 8, pp. 814-818., Registrované v: WOS

34. [1.1] CHANG, Sheng - FILER, Jameson. Thermal Hydrolysis to Enhance Anaerobic Digestion Performance of Wastewater Sludge. In CURRENT POLLUTION REPORTS. ISSN 2198-6592, 2020, vol. 6, no. 4, pp. 452-467. Dostupné na: <https://doi.org/10.1007/s40726-020-00163-3>., Registrované v: WOS

35. [1.1] JONES, Daniel S. - FLOOD, Beverly E. - BAILEY, Jake V. Metatranscriptomic insights into polyphosphate metabolism in marine sediments. In ISME JOURNAL. ISSN 1751-7362, 2016, vol. 10, no. 4, pp. 1015-1019., Registrované v: WOS

36. [1.1] KOHL, Kid - ZANGGER, Haroun - ROSSI, Matteo - ISORCE, Nathalie - LYE, Lon-Fye - OWENS, Katherine L. - BEVERLEY, Stephen M. - MAYER, Andreas - FASEL, Nicolas. Importance of polyphosphate in the *Leishmania* life cycle. In MICROBIAL CELL. ISSN 2311-2638, 2018, vol. 5, no. 8, pp. 371-384., Registrované v: WOS

37. [1.1] KRAUSER, Steffen - HOFFMANN, Thomas - HEINZLE, Elmar. Directed Multistep Biocatalysis for the Synthesis of the Polyketide Oxytetracycline in Permeabilized Cells of *Escherichia coli*. In ACS CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 3, pp. 1407-1413., Registrované v: WOS

38. [1.1] KRZYZEK, Pawel - GRANDE, Rossella. Transformation of *Helicobacter pylori* into Coccoid Forms as a Challenge for Research Determining Activity of Antimicrobial Substances. In PATHOGENS, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/pathogens9030184>., Registrované v: WOS

39. [1.1] KULAKOVSKAYA, Tatiana - ZVONAREV, Anton - LAURINAVICHIOUS, Kestutis - KHOKHLOVA, Galina - VAINSHTEIN, Mikhail. Effect of Fe on inorganic polyphosphate level in autotrophic and heterotrophic cells of *Rhodospirillum rubrum*. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, 2019, vol. 201, no. 9, pp. 1307-1312., Registrované v: WOS

40. [1.1] KULMER, Sandra T. - GUTMANN, Alexander - LEMMERER, Martin - NIDETZKY, Bernd. Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2017, vol. 359, no. 2, pp. 292-301., Registrované v: WOS

41. [1.1] LANGER, Simon - VOGTS, Angela - SCHULZ-VOGT, Heide N. Simultaneous Visualization of Enzymatic Activity in the Cytoplasm and at Polyphosphate Inclusions in *Beggiatoa* sp. Strain 35Flor Incubated with O-18-Labeled Water. In MSPHERE. ISSN 2379-5042, 2018, vol. 3, no. 6, pp., Registrované v: WOS

42. [1.1] LAVRINOVICS, Aigars - MEZULE, Linda - JUHNA, Talis. Microalgae starvation for enhanced phosphorus uptake from municipal wastewater. In ALGAL RESEARCH-BIOMASS BIOFUELS AND

- BIOPRODUCTS. ISSN 2211-9264, 2020, vol. 52, no., pp. Dostupné na: <https://doi.org/10.1016/j.algal.2020.102090.>, Registrované v: WOS
43. [1.1] LIU, Yuqing - MA, Wenhong - KOU, Dan - NIU, Xiaxia - WANG, Tian - CHEN, Yongliang - CHEN, Dima - ZHU, Xiaoqin - ZHAO, Mengying - HAO, Baihui - ZHANG, Jinbo - YANG, Yuanhe - HU, Huifeng. A comparison of patterns of microbial C : N : P stoichiometry between topsoil and subsoil along an aridity gradient. In BIOGEOSCIENCES. ISSN 1726-4170, 2020, vol. 17, no. 7, pp. 2009-2019. Dostupné na: <https://doi.org/10.5194/bg-17-2009-2020.>, Registrované v: WOS
44. [1.1] LI, Wen-Wei - ZHANG, Hai-Ling - SHENG, Guo-Ping - YU, Han-Qing. Roles of extracellular polymeric substances in enhanced biological phosphorus removal process. In WATER RESEARCH. ISSN 0043-1354, 2015, vol. 86, no., pp. 85-95., Registrované v: WOS
45. [1.1] LUO, Gongwen - SUN, Bo - LI, Ling - LI, Minghui - LIU, Manqiang - ZHU, Yiyong - GUO, Shiwei - LING, Ning - SHEN, Qirong. Understanding how long-term organic amendments increase soil phosphatase activities: Insight into phoD- and phoC-harboring functional microbial populations. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2019, vol. 139, no., pp., Registrované v: WOS
46. [1.1] MAAROUFI, Nadia - PALMQVIST, Kristin - BACH, Lisbet H. - BOKHORST, Stef - LIESS, Antonia - GUNDALE, Michael J. - KARDOL, Paul - NORDIN, Annika - MEUNIER, Cedric L. Nutrient optimization of tree growth alters structure and function of boreal soil food webs. In FOREST ECOLOGY AND MANAGEMENT. ISSN 0378-1127, 2018, vol. 428, no., pp. 46-56., Registrované v: WOS
47. [1.1] MACIEJCZYK, Ewa - WIECZOREK, Dorota - ZWYRZYKOWSKA, Anna - HALAMA, Marek - JASICKA-MISIĄK, Izabela - KAFARSKI, Paweł. Phosphorus Profile of Basidiomycetes. In PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS. ISSN 1042-6507, 2015, vol. 190, no. 5-6, pp. 763-768., Registrované v: WOS
48. [1.1] MANDALA, Venkata S. - LOH, Daniel M. - SHEPARD, Scott M. - GEESON, Michael B. - SERGEYEV, Ivan - NOCERA, Daniel G. - CUMMINS, Christopher C. - HONG, Mei. Bacterial Phosphate Granules Contain Cyclic Polyphosphates: Evidence from P-31 Solid-State NMR. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 43, pp. 18407-18421. Dostupné na: <https://doi.org/10.1021/jacs.0c06335.>, Registrované v: WOS
49. [1.1] MARTINS, Teresa P. - RAMOS, Vitor - HENTSCHKE, Guilherme S. - CASTELO-BRANCO, Raquel - REGO, Adriana - MONTEIRO, Maria - BRITO, Angela - TAMAGNINI, Paula - CARY, S. Craig - VASCONCELOS, Vitor - KRIENITZ, Lothar - MAGALHAES, Catarina - LEAO, Pedro N. The Extremophile Endolithella mcmurdoensis gen. et sp. nov. (Trebouxiophyceae, Chlorellaceae), A New Chlorella-like Endolithic Alga From Antarctica. In JOURNAL OF PHYCOLOGY. ISSN 0022-3646, 2020, vol. 56, no. 1, pp. 208-216. Dostupné na: <https://doi.org/10.1111/jpy.12940.>, Registrované v: WOS
50. [1.1] MATANGE, Nishad. Deorphanizing NUDIX hydrolases from Trypanosoma: tantalizing links with metabolic regulation and stress tolerance. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2019, vol. 39, no., pp., Registrované v: WOS

51. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round we go strategies for enzymatic cofactor regeneration. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na: <https://doi.org/10.1039/d0np00004c>., Registrované v: WOS
52. [1.1] MOUDRIKOVA, Sarka - MOJZES, Peter - ZACHLEDER, Vilem - PFAFF, Christian - BEHRENDT, Dominik - NEDBAL, Ladislav. Raman and fluorescence microscopy sensing energy-transducing and energy-storing structures in microalgae. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2016, vol. 16, no., pp. 224-232., Registrované v: WOS
53. [1.1] MOUDRIKOVA, Sarka - SADOWSKY, Andres - METZGER, Sabine - NEDBAL, Ladislav - METTLER-ALTMANN, Tabea - MOJZES, Peter. Quantification of Polyphosphate in Microalgae by Raman Microscopy and by a Reference Enzymatic Assay. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2017, vol. 89, no. 22, pp. 12006-12013., Registrované v: WOS
54. [1.1] MUELLER, Werner E. G. - SCHROEDER, Heinz C. - WANG, Xiaohong. Inorganic Polyphosphates As Storage for and Generator of Metabolic Energy in the Extracellular Matrix. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 24, pp. 12337-12374., Registrované v: WOS
55. [1.1] MUKHERJEE, Chandan - CHOWDHURY, Rajojit - RAY, Krishna. Phosphorus Recycling from an Unexplored Source by Polyphosphate Accumulating Microalgae and Cyanobacteria-A Step to Phosphorus Security in Agriculture. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS
56. [1.1] NAKAMURA, Akihiro - KAWANO, Natsuko - MOTOMURA, Kei - KURODA, Akio - SEKIGUCHI, Kiyoshi - MIYADO, Mami - KANG, Woojin - MIYAMOTO, Yoshitaka - HANAI, Maito - IWAI, Maki - YAMADA, Mitsutoshi - HAMATANI, Toshio - SAITO, Takakazu - SAITO, Hidekazu - TANAKA, Mamoru - UMEZAWA, Akihiro - MIYADO, Kenji. Degradation of phosphate polymer polyP enhances lactic fermentation in mice. In GENES TO CELLS. ISSN 1356-9597, 2018, vol. 23, no. 10, pp. 904-914., Registrované v: WOS
57. [1.1] NOCEK, Boguslaw P. - KHUSNUTDINOVA, Anna N. - RUSZKOWSKI, Milosz - FLICK, Robert - BURDA, Malgorzata - BATYROVA, Khorcheska - BROWN, Greg - MUCHA, Artur - JOACHIMIAK, Andrzej - BERLICKI, Lukasz - YAKUNIN, Alexander F. Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 11, pp. 10746-10760., Registrované v: WOS
58. [1.1] NOYMA, Natalia P. - SILVA, Thiago P. - CHIARINI-GARCIA, Helio - AMADO, Andre M. - ROLAND, Fabio - MELO, Rossana C. N. Potential effects of UV radiation on photosynthetic structures of the bloom-forming cyanobacterium *Cylindrospermopsis raciborskii* CYRF-01. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS
59. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian - GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J. - HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. - GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER, Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by

ligand-bound polyphosphate kinase 2 structures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 13, pp. 3350-3355.,

Registrované v: WOS

60. [1.1] PARVEEN, Shafaq - CHEN, Biqiang - LIU, Luo - TAN, Tianwei. Enzymatic phosphorylation of mannose by glucomannokinase from *Mycobacterium phlei* using inorganic polyphosphate. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp.

16-21., Registrované v: WOS

61. [1.1] PASEK, Matthew A. The Origin of the Ionized Linker: Geochemical Predestination for Phosphate? In PREBIOTIC CHEMISTRY AND CHEMICAL EVOLUTION OF NUCLEIC ACIDS. ISSN 0933-1891, 2018, vol. 35, no., pp. 175-197., Registrované v: WOS

62. [1.1] POKHREL, Arya - LINGO, Jordan C. - WOLSCHEENDORF, Frank - GRAY, Michael J. Assaying for Inorganic Polyphosphate in Bacteria. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, 2019, vol., no. 143, pp., Registrované v: WOS

63. [1.1] POPALL, Rabja M. - BOLHUIS, Henk - MUYZER, Gerard - SANCHEZ-ROMAN, Monica. Stromatolites as Biosignatures of Atmospheric Oxygenation: Carbonate Biomineralization and UV-C Resilience in a *Geitlerinema* sp. Dominated Culture. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na:

<https://doi.org/10.3389/fmicb.2020.00948>., Registrované v: WOS

64. [1.1] RASHID, M. H. - KAMRUZZAMAN, M. - HAQUE, A. N. A. - KREHENBRINK, M. Soil Microbes for Sustainable Agriculture. In SUSTAINABLE MANAGEMENT OF SOIL AND ENVIRONMENT, 2019, vol., no., pp. 339-382., Registrované v: WOS

65. [1.1] ROEWE, Julian - STAVRIDES, Georgios - STRUEVE, Marcel - SHARMA, Arjun - MARINI, Federico - MANN, Amrit - SMITH, Stephanie A. - KAYA, Ziya - STROBL, Birgit - MUELLER, Mathias - REINHARDT, Christoph - MORRISSEY, James H. - BOSMANN, Markus. Bacterial polyphosphates interfere with the innate host defense to infection. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-17639-x>., Registrované v: WOS

66. [1.1] RUVINDY, Rendy - WHITE, Richard Allen - NEILAN, Brett Anthony - BURNS, Brendan Paul. Unravelling core microbial metabolisms in the hypersaline microbial mats of Shark Bay using high-throughput metagenomics. In ISME JOURNAL. ISSN 1751-7362, 2016, vol. 10, no. 1, pp. 183-196., Registrované v: WOS

67. [1.1] RYAZANOVA, Lubov - ZVONAREV, Anton - RUSAKOVA, Tatiana - DMITRIEV, Vladimir - KULAKOVSKAYA, Tatiana. Manganese tolerance in yeasts involves polyphosphate, magnesium, and vacuolar alterations. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2016, vol. 61, no. 4, pp. 311-317., Registrované v: WOS

68. [1.1] SANGAVAI, C. - PRATHIVIRAJ, R. - CHELLAPANDI, P. Functional prediction, characterization, and categorization of operome from *Acetanaerobium sticklandii* DSM 519. In ANAEROBE. ISSN 1075-9964, 2020, vol. 61, no., pp. Dostupné na: <https://doi.org/10.1016/j.anaerobe.2019.102088>., Registrované v: WOS

69. [1.1] SANZ-LUQUE, Emanuel - BHAYA, Devaki - GROSSMAN,

Arthur R. Polyphosphate: A Multifunctional Metabolite in Cyanobacteria and Algae. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00938>., Registrované v: WOS

70. [1.1] SHEN, Yanghao - ZHENG, Xinyan - WANG, Xiaoyu - WANG, Tieshan. The biomineralization process of uranium(VI) by *Saccharomyces cerevisiae* transformation from amorphous U(VI) to crystalline chernikovite. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4217-4229., Registrované v: WOS

71. [1.1] SHUKLA, Shivani - RAJTA, Ankita - SETIA, Hema - BHATIA, Ranjana. Simultaneous nitrification-denitrification by phosphate accumulating microorganisms. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 10, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02926-y>., Registrované v: WOS

72. [1.1] SCHROEDER, Heinz C. - WANG, Xiaohong - MUELLER, Werner E. G. Amorphous polyphosphate nanoparticles: application of the morphogenetically active inorganic polymer for personalized tissue regeneration. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, 2019, vol. 52, no. 36, pp., Registrované v: WOS

73. [1.1] SOLOVCHENKO, Alexei - VERSCHOOR, Antonie M. - JABLONOWSKI, Nicolai D. - NEDBAL, Ladislav. Phosphorus from wastewater to crops: An alternative path involving microalgae. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 5, pp. 550-564., Registrované v: WOS

74. [1.1] SOLOVCHENKO, Alexei - KHOZIN-GOLDBERG, Inna - SELYAKH, Irina - SEMENOVA, Larisa - ISMAGULOVA, Tatiana - LUKYANOV, Alexandr - MAMEDOV, Ilgar - VINOGRADOVA, Elizaveta - KARPOVA, Olga - KONYUKHOV, Ivan - VASILIEVA, Svetlana - MOJZES, Peter - DIJKEMA, Cor - VECHERSKAYA, Margarita - ZVYAGIN, Ivan - NEDBAL, Ladislav - GORELOVA, Olga. Phosphorus starvation and luxury uptake in green microalgae revisited. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 43, no., pp., Registrované v: WOS

75. [1.1] SOLOVCHENKO, Alexei E. - ISMAGULOVA, Tatiana T. - LUKYANOV, Alexandr A. - VASILIEVA, Svetlana G. - KONYUKHOV, Ivan - POGOSYAN, Sergei - LOBAKOVA, Elena S. - GORELOVA, Olga A. Luxury phosphorus uptake in microalgae. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2019, vol. 31, no. 5, pp. 2755-2770., Registrované v: WOS

76. [1.1] SOLOVCHENKO, Alexei - GORELOVA, Olga - KARPOVA, Olga - SELYAKH, Irina - SEMENOVA, Larisa - CHIVKUNOVA, Olga - BAULINA, Olga - VINOGRADOVA, Elizaveta - PUGACHEVA, Tatiana - SCHERBAKOV, Pavel - VASILIEVA, Svetlana - LUKYANOV, Alexandr - LOBAKOVA, Elena. Phosphorus Feast and Famine in Cyanobacteria: Is Luxury Uptake of the Nutrient Just a Consequence of Acclimation to Its Shortage? In CELLS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/cells9091933>., Registrované v: WOS

77. [1.1] SONG, Min - PENG, Wanxia - DU, Hu - XU, Qingguo. Responses of Soil and Microbial C:N:P Stoichiometry to Vegetation Succession in a Karst Region of Southwest China. In FORESTS, 2019, vol. 10, no. 9, pp., Registrované v: WOS

78. [1.1] SRIVASTAVA, Abhishek - MURUGAIYAN, Jayaseelan - GARCIA, Juan A. L. - DE CORTE, Daniele - HOETZINGER, Matthias - ERAVCI, Murat - WEISE, Christoph - KUMAR, Yadhu - ROESLER, Uwe - HAHN, Martin W. - GROSSART, Hans-Peter. Combined Methylome, Transcriptome and Proteome Analyses Document Rapid Acclimatization of a Bacterium to Environmental Changes. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.544785>., Registrované v: WOS
79. [1.1] STROHMEIER, Gernot A. - EITELJOERG, Eal Inge C. - SCHWARZ, Anna - WINKLER, Margit. Enzymatic One-Step Reduction of Carboxylates to Aldehydes with Cell-Free Regeneration of ATP and NADPH. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2019, vol. 25, no. 24, pp. 6119-6123., Registrované v: WOS
80. [1.1] SUESS, Patrick M. - GOMER, Richard H. Extracellular Polyphosphate Inhibits Proliferation in an Autocrine Negative Feedback Loop in *Dictyostelium discoideum*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 38, pp. 20260-20269., Registrované v: WOS
81. [1.1] SUESS, Patrick M. - TANG, Yu - GOMER, Richard H. The putative G protein-coupled receptor GrlD mediates extracellular polyphosphate sensing in *Dictyostelium discoideum*. In *MOLECULAR BIOLOGY OF THE CELL*. ISSN 1059-1524, 2019, vol. 30, no. 9, pp. 1118-1128., Registrované v: WOS
82. [1.1] SUMATHI, Malairajan - VASUDEVAN, Namasivayam. Removal of phosphate by *Staphylococcus aureus* under aerobic and alternating anaerobic-aerobic conditions. In *ENVIRONMENTAL TECHNOLOGY*. ISSN 0959-3330, 2018, vol. 39, no. 8, pp. 1071-1080., Registrované v: WOS
83. [1.1] SUN, Xinzeng - NIU, Huanqing - SONG, Jiarui - JIANG, Dahai - LENG, Jing - ZHUANG, Wei - CHEN, Yong - LIU, Dong - YING, Hanjie. Preparation of a Copper Polyphosphate Kinase Hybrid Nanoflower and Its Application in ADP Regeneration from AMP. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 17, pp. 9991-9998. Dostupné na: <https://doi.org/10.1021/acsomega.0c00329>., Registrované v: WOS
84. [1.1] TARAYRE, Cedric - DE CLERCQ, Lies - CHARLIER, Raphaele - MICHELS, Evi - MEERS, Erik - CAMARGO-VALERO, Miller - DELVIGNE, Frank. New perspectives for the design of sustainable bioprocesses for phosphorus recovery from waste. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2016, vol. 206, no., pp. 264-274., Registrované v: WOS
85. [1.1] TARAYRE, Cedric - CHARLIER, Raphaele - DELEPIERRE, Anissa - BROGNAUX, Alison - BAUWENS, Julien - FRANCIS, Frederic - DERMIENCE, Michael - LOGNAY, Georges - TAMINIAU, Bernard - DAUBE, Georges - COMPERE, Philippe - MEERS, Erik - MICHELS, Evi - DELVIGNE, Frank. Looking for phosphate-accumulating bacteria in activated sludge processes: a multidisciplinary approach. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 9, pp. 8017-8032., Registrované v: WOS
86. [1.1] TENG ZHAOJIE - ZHANG WENYAN - CHEN YIRAN - PAN HONGMIAO - XIAO TIAN - WU LONG-FEI. Characterization of dominant giant rod-shaped magnetotactic bacteria from a low tide zone of the China Sea. In *JOURNAL OF OCEANOLOGY AND LIMNOLOGY*. ISSN 2096-5508, 2018,

vol. 36, no. 3, pp. 783-794., Registrované v: WOS

87. [1.1] THEODORAKOPOULOS, Nicolas - CHAPON, Virginie - COPPIN, Frederic - FLORIANI, Magali - VERCOUTER, Thomas - SERGEANT, Claire - CAMILLERI, Virginie - BERTHOMIEU, Catherine - FEVRIER, Laureline. Use of combined microscopic and spectroscopic techniques to reveal interactions between uranium and Microbacterium sp A9, a strain isolated from the Chernobyl exclusion zone. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2015, vol. 285, no., pp. 285-293., Registrované v: WOS

88. [1.1] WANG, Liang - LIU, Zhanzhong - DAI, Shiyun - YAN, Jiawei - WISE, Michael J. The Sit-and-Wait Hypothesis in Bacterial Pathogens: A Theoretical Study of Durability and Virulence. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

89. [1.1] WANG, Liang - YAN, Jiawei - WISE, Michael J. - LIU, Qinghua - ASENSO, James - HUANG, Yue - DAI, Shiyun - LIU, Zhanzhong - DU, Yan - TANG, Daoquan. Distribution Patterns of Polyphosphate Metabolism Pathway and Its Relationships With Bacterial Durability and Virulence. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

90. [1.1] WANG, Po-Hsiang - FUJISHIMA, Kosuke - BERHANU, Samuel - KURUMA, Yutetsu - JIA, Tony Z. - KHUSNUTDINOVA, Anna N. - YAKUNIN, Alexander F. - MCGLYNN, Shawn E. A Bifunctional Polyphosphate Kinase Driving the Regeneration of Nucleoside Triphosphate and Reconstituted Cell-Free Protein Synthesis. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, 2020, vol. 9, no. 1, pp. 36-42. Dostupné na: <https://doi.org/10.1021/acssynbio.9b00456>., Registrované v: WOS

91. [1.1] WANG, Xiuzhong - LOPEZ, Anand - LIU, Juewen. Adsorption of Phosphate and Polyphosphate on Nanoceria Probed by DNA Oligonucleotides. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 26, pp. 7899-7905., Registrované v: WOS

92. [1.1] XU, Mengmeng - ZHAO, Jingbo - YU, Le - YANG, Shang-Tian. Comparative genomic analysis of Clostridium acetobutylicum for understanding the mutations contributing to enhanced butanol tolerance and production. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 263, no., pp. 36-44., Registrované v: WOS

93. [1.1] YANO, Takanori - FUNAMIZU, Yuhei - YOSHIDA, Nobuyuki. Intracellular accumulation of trehalose and glycogen in an extreme oligotroph, Rhodococcus erythropolis N9T-4. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2016, vol. 80, no. 3, pp. 610-613., Registrované v: WOS

94. [1.1] YU, Hailing - LING, Ning - WANG, Tingting - ZHU, Chen - WANG, Yin - WANG, Shaojie - GAO, Qiang. Responses of soil biological traits and bacterial communities to nitrogen fertilization mediate maize yields across three soil types. In SOIL & TILLAGE RESEARCH. ISSN 0167-1987, 2019, vol. 185, no., pp. 61-69., Registrované v: WOS

95. [1.1] ZHANG, Dan - CHEN, Xue - LARSON, Steven L. - BALLARD, John H. - KNOTEK-SMITH, Heather M. - DING, Dexin - HU, Nan - HAN, Fengxiang X. Uranium Biomineralization with Phosphate-Biogeochemical Process and Its Application. In ACS EARTH AND

SPACE CHEMISTRY. ISSN 2472-3452, 2020, vol. 4, no. 12, pp. 2205-2214.
Dostupné na: <https://doi.org/10.1021/acsearthspacechem.0c00252>., Registrované v: WOS

96. [1.1] ZHANG, Fengzhen - ZHANG, Yunfei - PU, Mengjie - NIU, Junfeng. Aerobic degradation of aqueous pollutants with nanoscale zero-valent aluminum in alkaline condition: Performance and mechanism especially at particle surface. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 244, no., pp. Dostupné na:

<https://doi.org/10.1016/j.jclepro.2019.118905>., Registrované v: WOS

97. [1.1] ZHAO, Fazhu - WANG, Jieying - ZHANG, Lu - REN, Chengjie - HAN, Xinhui - YANG, Gaihe - DOUGHTY, Russell - DENG, Jian. Understory Plants Regulate Soil Respiration through Changes in Soil Enzyme Activity and Microbial C, N, and P Stoichiometry Following Afforestation. In FORESTS. ISSN 1999-4907, 2018, vol. 9, no. 7, pp., Registrované v: WOS

98. [1.1] ZHAO, Fazhu - ZHANG, Lu - REN, Chengjie - SUN, Jiao - HAN, Xinhui - YANG, Gaihe - WANG, Jun. Effect of Microbial Carbon, Nitrogen, and Phosphorus Stoichiometry on Soil Carbon Fractions under a Black Locust Forest within the Central Loess Plateau of China. In SOIL SCIENCE SOCIETY OF AMERICA JOURNAL. ISSN 0361-5995, 2016, vol. 80, no. 6, pp. 1520-1530., Registrované v: WOS

99. [1.1] ZOISS, Roman - FERRER, Fernando Medina - FLOOD, Beverly E. - JONES, Daniel S. - LOUW, Deon. C. - BAILEY, Jake. Microbial communities associated with phosphogenic sediments and phosphoclast-associated DNA of the Benguela upwelling system. In GEOBIOLOGY. ISSN 1472-4677, 2019, vol. 17, no. 1, pp. 76-90., Registrované v: WOS

100. [1.2] ANDREEVA, Nadeshda - RYAZANOVA, Lubov - ZVONAREV, Anton - TRILISENKO, Ludmila - KULAKOVSKAYA, Tatiana - ELDAROV, Mikhail. Inorganic polyphosphate in methylotrophic yeasts. In Applied Microbiology and Biotechnology. ISSN 01757598, 2018-06-01, 102, 12, pp. 5235-5244., Registrované v: SCOPUS

101. [1.2] CROUZET, Marc - CLAVEROL, Stéphane - LOMENECH, Anne Marie - LE SÉNÉCHAL, Caroline - COSTAGLIOLI, Patricia - BARTHE, Christophe - GARBAY, Bertrand - BONNEU, Marc - VILAIN, Sébastien. Pseudomonas aeruginosa cells attached to a surface display a typical proteome early as 20 minutes of incubation. In PLoS ONE, 2017-07-01, 12, 7, pp., Registrované v: SCOPUS

102. [1.2] DANCHIN, Antoine - SEKOWSKA, Agnieszka - NORIA, Stanislas. Functional requirements in the program and the cell chassis for next-generation synthetic biology. In Synthetic Biology: Parts, Devices and Applications, 2018-03-15, pp. 81-106., Registrované v: SCOPUS

103. [1.2] EISEN, Sebastian - POEHLEIN, Anja - JOHNSON, D. Barrie - DANIEL, Rolf - SCHLÖMANN, Michael - MÜHLING, Martin. Genome sequence of the acidophilic iron oxidizer Ferrimicrobium acidiphilum strain T23supT/sup. In Genome Announcements, 2016-01-01, 3, 2, pp., Registrované v: SCOPUS

104. [1.2] KASSEM, Issmat I. - RAJASHEKARA, Gireesh. Of a Tenacious and Versatile Relic: The Role of Inorganic Polyphosphate (Poly-P) Metabolism in the Survival, Adaptation, and Virulence of Campylobacter Jejuni. In Stress and Environmental Regulation of Gene Expression and Adaptation in

- Bacteria, 2016-08-12, 2, pp. 1354-1360., Registrované v: SCOPUS
105. [1.2] LANG, Carolyn - LAGO, Jennifer - PASEK, Matthew A. Phosphorylation on the early earth: The role of phosphorus in biochemistry and its bioavailability. In Handbook of Astrobiology, 2018-12-07, pp. 361-370., Registrované v: SCOPUS
106. [1.2] WU, Jin Shui - GE, Ti Da - HU, Ya Jun. A review on the coupling of bio-geochemical process for key elements and microbial regulation mechanisms in paddy rice ecosystems. In Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2015-01-01, 35, 20, pp. 6626-6634., Registrované v: SCOPUS
107. [3.2] Carter, Charles W., Jr.: What RNA World? Why a Peptide/RNA Partnership Merits Renewed Experimental Attention. In: Life-Basel, 2015, vol. 5, iss. 1, p. 294-320., Registrované v: BIOSIS Citation Index

ADCA09 AIT-MOHAND, Fairouz - FARKAŠ, Vladimír. Screening for hetero-transglycosylating activities in extracts from nasturtium (*Tropaeolum majus*). In *Carbohydrate Research*, 2006, vol. 341, p. 577-581. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.01.018>

Ohlasy:

1. [1.1] STRATILOVA, Barbora - SESTAK, Sergej - MRAVEC, Jozef - GARAJOVA, Sona - PAKANNOVA, Zuzana - VADINOVA, Kristina - KUCEROVA, Danica - KOZMON, Stanislav - SCHWERDT, Julian G. - SHIRLEY, Neil - STRATILOVA, Eva - HRMOVA, Maria. Another building block in the plant cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. In *PLANT JOURNAL*. ISSN 0960-7412, 2020, vol. 104, no. 3, pp. 752-767. Dostupné na: <https://doi.org/10.1111/tjp.14964>., Registrované v: WOS

ADCA10 ALBERT, S. - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Molecular characterization of MRJP3, highly polymorphic protein honeybee (*Apis mellifera*) royal jelly. In *Insect Biochemistry and Molecular Biology*, 1999, vol. 29, p. 427-434. ISSN 0965-1748. Dostupné na: [https://doi.org/10.1016/S0965-1748\(99\)00019-3](https://doi.org/10.1016/S0965-1748(99)00019-3)

Ohlasy:

1. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In *BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH*, 2016, vol., no., pp. 63-75., Registrované v: WOS
2. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
3. [1.1] HYKOLLARI, Alba - MALZL, Daniel - ECKMAIR, Barbara - VANBESELAERE, Jorick - SCHEIDL, Patrick - JIN, Chunsheng - KARLSSON, Niclas G. - WILSON, Iain B. H. - PASCHINGER, Katharina. Isomeric Separation and Recognition of Anionic and Zwitterionic N-glycans from Royal Jelly Glycoproteins. In *MOLECULAR & CELLULAR*

- PROTEOMICS. ISSN 1535-9476, 2018, vol. 17, no. 11, pp. 2177-2196.,
Registrované v: WOS
4. [1.1] LEE, Si Hyeock - KIM, Young Ho. Comparative proteome analysis of honey bee workers between overwintering and brood-rearing seasons. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2017, vol. 20, no. 3, pp. 984-995., Registrované v: WOS
5. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS
6. [1.1] MURESAN, Carmen - BUTTSTEDT, Anja. pH-dependent stability of honey bee (*Apis mellifera*) major royal jelly proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
7. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene mrjp3 in Honeybee *Apis mellifera* of Different Evolutionary Branches. In JOURNAL OF MOLECULAR BIOLOGY RESEARCH, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS
8. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
9. [1.1] OSTROVSKI-TOMPOROSKI, Katia - FAQUINELLO, Patricia - COSTA-MAIA, Fabiana Martins - RUVOLO-TAKASUSUKI, Maria Claudia - SANTOS, Pedro da Rosa - DE TOLEDO, Vagner Arnaut. Breeding Program Design Principles for Royal Jelly. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 39-62., Registrované v: WOS
10. [1.1] POLEY, Jordan D. - SUTHERLAND, Ben J. G. - JONES, Simon R. M. - KOOP, Ben F. - FAST, Mark D. Sex-biased gene expression and sequence conservation in Atlantic and Pacific salmon lice (*Lepeophtheirus salmonis*). In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
11. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
12. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>., Registrované v: WOS
13. [1.2] METWALLY IBRAHIM, Samah E.L. - KOSBA, Ayman Ahmed. Royal jelly supplementation reduces skeletal muscle lipotoxicity and insulin resistance in aged obese rats. In Pathophysiology. ISSN 09284680, 2018-12-01, 25, 4, pp. 307-315., Registrované v: SCOPUS

ADCA11 ALBERT, S. - KLAUDINY, Jaroslav. MRJP9, an ancient protein of the honeybee MRJP family with non-nutritional function. In *Journal of Apicultural Research*, 2007, vol. 46, p. 99-104. (2006: 0.750 - IF, Q2 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 0021-8839.

Ohlasy:

1. [1.1] AHMAD, Saboor - CAMPOS, Maria Graca - FRATINI, Filippo - ALTAYE, Solomon Zewdu - LI, Jianke. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijms21020382>., Registrované v: WOS
2. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
3. [1.1] PUCCA, Manuela B. - CERNI, Felipe A. - OLIVEIRA, Isadora S. - JENKINS, Timothy P. - ARGEMI, Lidia - SORENSEN, Christoffer V. - AHMADI, Shirin - BARBOSA, Jose E. - LAUSTSEN, Andreas H. Bee Updated: Current Knowledge on Bee Venom and Bee Envenoming Therapy. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2019, vol. 10, no., pp., Registrované v: WOS
4. [1.1] QAO, Jiangtao - WANG, Xueyu - LIU, Liqiang - ZHANG, Hongcheng. Nonenzymatic Browning and Protein Aggregation in Royal Jelly during Room-Temperature Storage. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1881-1888., Registrované v: WOS
5. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
6. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. Purification and characteristics of individual major royal jelly protein 1-3. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>., Registrované v: WOS
7. [1.1] YANG, Lei - YANG, Yi - LIU, Ming-Ming - YAN, Zhi-Chao - QIU, Li-Ming - FANG, Qi - WANG, Fang - WERREN, John H. - YE, Gong-Yin. Identification and Comparative Analysis of Venom Proteins in a Pupal Ectoparasitoid, *Pachycrepoideus vindemmiae*. In *FRONTIERS IN PHYSIOLOGY*. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.00009>., Registrované v: WOS
8. [1.1] YEUNG, Yiu To - ARGUELLES, Sandro. Bee Products: Royal Jelly and Propolis. In *NONVITAMIN AND NONMINERAL NUTRITIONAL SUPPLEMENTS*, 2019, vol., no., pp. 475-484., Registrované v: WOS
9. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS

ADCA12 ALBERT, S. - KLAUDINY, Jaroslav - ŠIMÚTH, J. Newly discovered features of the updated sequence of royal jelly protein RJP571; longer repetitive region on C-terminus and homology to *Drosophila melanogaster* yellow protein. In *Journal of Apicultural Research*, 1996, vol. 35, p. 63-68. ISSN 0021-8839. Dostupné na: <https://doi.org/10.1080/00218839.1996.11100914>

Ohlasy:

1. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar.

Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 63-75., Registrované v: WOS

2. [1.1] OSTROVSKI-TOMPOROSKI, Katia - FAQUINELLO, Patricia - COSTA-MAIA, Fabiana Martins - RUVOLO-TAKASUSUKI, Maria Claudia - SANTOS, Pedro da Rosa - DE TOLEDO, Vagner Arnaut. Breeding Program Design Principles for Royal Jelly. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 39-62., Registrované v: WOS

3. [3.2] Group Author(s). Uniprot Consortium. Q17060. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: Data Citation Index

ADCA13 ALBERT, S. - BHATTACHARYA, D. - KLAUDINY, Jaroslav - SCHMITZOVA, J. - ŠIMÚTH, Jozef. The family of major royal jelly proteins and its evolution. In *Journal of Molecular Evolution*, 1999, vol. 49, p. 290-297. ISSN 0022-2844. Dostupné na: <https://doi.org/10.1007/PL00006551>

Ohlasy:

1. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LI, Jianke. Molecular insights into the enhanced performance of royal jelly secretion by a stock of honeybee (*Apis mellifera ligustica*) selected for increasing royal jelly production. In APIDOLOGIE. ISSN 0044-8435, 2019, vol. 50, no. 4, pp. 436-453., Registrované v: WOS

2. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - MATUZEVICIUS, Dalius - ZAIKOVA, Ilona - CEKSTERYTE, Violeta - NAVAKAUSKAS, Dalius - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. PROTEOMIC ANALYSIS OF POLLEN AND BLOSSOM HONEY FROM RAPE SEED BRASSICA NAPUS L. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, 2017, vol. 61, no. 1, pp. 73-92., Registrované v: WOS

3. [1.1] BRUDZYNSKI, Katrina - SJAARDA, Calvin - LANNIGAN, Robert. MRJP1-containing glycoproteins isolated from honey, a novel antibacterial drug candidate with broad spectrum activity against multi-drug resistant clinical isolates. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

4. [1.1] BRUDZYNSKI, Katrina - SJAARDA, Calvin. Honey Glycoproteins Containing Antimicrobial Peptides, Jelleins of the Major Royal Jelly Protein 1, Are Responsible for the Cell Wall Lytic and Bactericidal Activities of Honey. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

5. [1.1] BURGREN, Warren W. Epigenetics in Insects: Mechanisms, Phenotypes and Ecological and Evolutionary Implications. In INSECT EPIGENETICS. ISSN 0065-2806, 2017, vol. 53, no., pp. 1-30., Registrované v: WOS
6. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 63-75., Registrované v: WOS
7. [1.1] DITONDO MICAS, Andre Fernando - FERREIRA, Germano Aguiar - LAURE, Helen Julie - ROSA, Jose Cesar - GENTILE BITONDI, Marcia Maria. PROTEINS OF THE INTEGUMENTARY SYSTEM OF THE HONEYBEE, *Apis mellifera*. In ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0739-4462, 2016, vol. 93, no. 1, pp. 3-24., Registrované v: WOS
8. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
9. [1.1] HABASHY, Noha H. - ABU-SERIE, Marwa M. The potential antiviral effect of major royal jelly protein2 and its isoform X1 against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Insight on their sialidase activity and molecular docking. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2020, vol. 75, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2020.104282>., Registrované v: WOS
10. [1.1] CHAI, Lin - YANG, Xianyi - LIU, Mei - LIU, Chunyan - HAN, Limei - GUO, Hui - LI, Changsheng - SUN, Yuwen - LI, Xiaoyan - XIAO, Min - FANG, Zhicheng. Biopanning of allergens from wasp sting patients. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2018, vol. 38, no., pp., Registrované v: WOS
11. [1.1] CHEN, Xi'en - CAO, Yanghui - ZHAN, Shuai - ZHANG, Yong - TAN, Anjiang - HUANG, Yongping. Identification of yellow gene family in *Agrotis ipsilon* and functional analysis of Aiyellow-y by CRISPR/Cas9. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2018, vol. 94, no., pp. 1-9., Registrované v: WOS
12. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
13. [1.1] LIU, Y. - YAN, L. - LI, Z. - HUANG, W.F. - POKHREI, S. - LIU, X. - SU, S. Larva-mediated chalkbrood resistance-associated single nucleotide polymorphism markers in the honey bee *Apis mellifera*. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, 2016, vol. 25, no. 3, pp. 239-250., Registrované v: WOS
14. [1.1] NIE, Hongyi - LIU, Xiaoyan - PAN, Jiao - LI, Wenfeng - LI, Zhiguo - ZHANG, Shaowu - CHEN, Shenglu - MIAO, Xiaoqing - ZHENG, Nenggan - SU, Songkun. Identification of genes related to high royal jelly

- production in the honey bee (*Apis mellifera*) using microarray analysis. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2017, vol. 40, no. 4, pp. 781-789., Registrované v: WOS
15. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene *mrjp3* in Honeybee *Apis mellifera* of Different Evolutionary Branches. In JOURNAL OF MOLECULAR BIOLOGY RESEARCH, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS
16. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the *mrjp3* Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
17. [1.1] POLEY, Jordan D. - SUTHERLAND, Ben J. G. - JONES, Simon R. M. - KOOP, Ben F. - FAST, Mark D. Sex-biased gene expression and sequence conservation in Atlantic and Pacific salmon lice (*Lepeophtheirus salmonis*). In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
18. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
19. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
20. [1.1] VERNAL, Sebastian - OLIVEIRA, Fabiano - OLIVEIRA, Wanderson H. C. - GOULART, Thais M. - ORISTIAN, James - CALVO, Eric - PINTO, Mara C. - ROSELINO, Ana Maria - RIBEIRO, Jose M. C. RNA-sequencing of the *Nyssomyia neivai* sialome: a sand fly-vector from a Brazilian endemic area for tegumentary leishmaniasis and pemphigus foliaceus. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74343-y>., Registrované v: WOS
21. [1.1] WANG, Kang - LIU, Zheng-Guo - PANG, Qian - ZHANG, Wen-Wen - CHEN, Xiao-Mei - FAN, Rong-Li - YIN, Ling - JI, Ting. Investigating the Regulation of Hypopharyngeal Gland Activity in Honeybees (*Apis mellifera carnica*) Under Overwintering Conditions via Morphologic Analysis Combined With iTRAQ-Based Comparative Proteomics. In ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA. ISSN 0013-8746, 2018, vol. 111, no. 3, pp. 127-135., Registrované v: WOS
22. [1.1] WOODARD, S. Hollis - LOZIER, Jeffrey D. - GOULSON, David - WILLIAMS, Paul H. - STRANGE, James P. - JHA, Shalene. Molecular tools and bumble bees: revealing hidden details of ecology and evolution in a model system. In MOLECULAR ECOLOGY. ISSN 0962-1083, 2015, vol. 24, no. 12, pp. 2916-2936., Registrované v: WOS
23. [1.1] YUAN, Shi-Min. Cardiovascular effects of the edible immune enhancing products. In PROGRESS IN NUTRITION. ISSN 1129-8723, 2017,

vol. 19, no. 4, pp. 349-358., Registrované v: WOS

24. [1.2] ARZI, A. - HOUSHMAND, G. H. - GOUDARZI, M. - KHADEM HAGHIGHIAN, H. - RASHIDI NOOSHABADI, M. R. Comparison of the analgesic effects of royal jelly with morphine and aspirin in rats using the formalin test. In *Journal of Babol University of Medical Sciences*. ISSN 15614107, 2015-01-01, 17, 2, pp. 1-7., Registrované v: SCOPUS

25. [1.2] ARZI, A. - HOUSHM, Gh - GOUDARZI, M. - KHADEM HAGHIGHIAN, H. - RASHIDI NOOSHABADI, M. R. Comparison of the analgesic effects of royal jelly with morphine and aspirin in rats using the formalin test. In *Journal of Babol University of Medical Sciences*. ISSN 15614107, 2015-01-01, 16, 14, pp. 50-56., Registrované v: SCOPUS

26. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU, Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from Fresh Royal Jelly in Mice. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v: SCOPUS

27. [3.2] BRANDORF, A.Z.; IVOILOVA, M.M. Morphogenetic markers of honey bees producing royal jelly with a high content of 10-HDA. In: *Agricultural Science Euro-North-East* Source. ISSN: 2072-9081, 2019, Vol. 20 Issue: 3 Pages: 283-289

ADCA14 ALBERT, Štefan - KLAUDINY, Jaroslav. The MRJP/YELLOW protein family of *Apis mellifera*: Identification of new members in the EST library. In *Journal of Insect Physiology*, 2004, vol. 50, p. 51-59. ISSN 0022-1910. Dostupné na: <https://doi.org/10.1016/j.jinsphys.2003.09.008>

Ohlasy:

1. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LU, Yao - LI, Jianke. The Emerging Proteomic Research Facilitates in-Depth Understanding of the Biology of Honeybees. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 17, pp., Registrované v: WOS

2. [1.1] BRUDZYNSKI, Katrina - SJAARDA, Calvin. Honey Glycoproteins Containing Antimicrobial Peptides, Jelleins of the Major Royal Jelly Protein 1, Are Responsible for the Cell Wall Lytic and Bactericidal Activities of Honey. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

3. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In *BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH*, 2016, vol., no., pp. 63-75., Registrované v: WOS

4. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICIOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS

5. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three *Apis* species with long amplicon sequencing. In *DNA RESEARCH*. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287.,

Registrované v: WOS

6. [1.1] CHAI, Lin - YANG, Xianyi - LIU, Mei - LIU, Chunyan - HAN, Limei - GUO, Hui - LI, Changsheng - SUN, Yuwen - LI, Xiaoyan - XIAO, Min - FANG, Zhicheng. Biopanning of allergens from wasp sting patients. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2018, vol. 38, no., pp.,

Registrované v: WOS

7. [1.1] CHIU, Hui-Fang - CHEN, Bo-Kai - LU, Yan-Ying - HAN, Yi-Chun - SHEN, You-Cheng - VENKATAKRISHNAN, Kamesh - GOLOVINSKAIA, Oksana - WANG, Chin-Kun. Hypocholesterolemic efficacy of royal jelly in healthy mild hypercholesterolemic adults. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 497-502., Registrované v: WOS

8. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS

9. [1.1] LIU, Y. - YAN, L. - LI, Z. - HUANG, W.F. - POKHREI, S. - LIU, X. - SU, S. Larva-mediated chalkbrood resistance-associated single nucleotide polymorphism markers in the honey bee *Apis mellifera*. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, 2016, vol. 25, no. 3, pp. 239-250., Registrované v: WOS

10. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS

11. [1.1] MARGAOAN, Rodica - TRIPON, Carmen - BOBIS, Otilia - BONTA, Victorita - DADARLAT, Dorin. Coexistence of Phases in Royal Jelly Detected by Photopyroelectric Calorimetry. In ANALYTICAL LETTERS. ISSN 0003-2719, 2019, vol., no., pp., Registrované v: WOS

12. [1.1] MINEGAKI, Naho - KOSHIZUKA, Tetsuo - NISHINA, Saeka - KONDO, Hiroki - TAKAHASHI, Keita - SUGIYAMA, Tsuyoshi - INOUE, Naoki. The Carboxyl-Terminal Penta-Peptide Repeats of Major Royal Jelly Protein 3 Enhance Cell Proliferation. In BIOLOGICAL & PHARMACEUTICAL BULLETIN. ISSN 0918-6158, 2020, vol. 43, no. 12, pp. 1911-1916. Dostupné na: <https://doi.org/10.1248/bpb.b20-00607>., Registrované v: WOS

13. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS

14. [1.1] NOH, Mi Young - KIM, Sung Hyun - GORMAN, Maureen J. - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - ARAKANE, Yasuyuki. Yellow-g and Yellow-g2 proteins are required for egg desiccation resistance and temporal pigmentation in the Asian tiger mosquito, *Aedes albopictus*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2020, vol. 122, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibmb.2020.103386>., Registrované v: WOS

15. [1.1] NOH, Mi Young - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - BEEMAN, Richard W. - KANOST, Michael R. - ARAKANE, Yasuyuki. Loss of function of the yellow-e gene causes dehydration-induced mortality of adult *Tribolium castaneum*. In *DEVELOPMENTAL BIOLOGY*. ISSN 0012-1606, 2015, vol. 399, no. 2, pp. 315-324., Registrované v: WOS
16. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In *RUSSIAN JOURNAL OF GENETICS*. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
17. [1.1] OSTROVSKI-TOMPOROSKI, Katia - FAQUINELLO, Patricia - COSTA-MAIA, Fabiana Martins - RUVOLO-TAKASUSUKI, Maria Claudia - SANTOS, Pedro da Rosa - DE TOLEDO, Vagner Arnaut. Breeding Program Design Principles for Royal Jelly. In *BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH*, 2016, vol., no., pp. 39-62., Registrované v: WOS
18. [1.1] ROSANI, Umberto - DOMENEGHETTI, Stefania - MASO, Lorenzo - WEGNER, K. Mathias - VENIER, Paola. An Evolutionary Perspective of Dopachrome Tautomerase Enzymes in Metazoans. In *GENES*. ISSN 2073-4425, 2019, vol. 10, no. 7, pp., Registrované v: WOS
19. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In *JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B*. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
20. [1.1] TORRES-ACOSTA, Mario A. - AGUILAR-YANEZ, Jose M. - RITO-PALOMARES, Marco - TITCHENER-HOOKER, Nigel J. Economic Analysis of Royalactin Production Under Uncertainty: Evaluating the Effect of Parameter Optimization. In *BIOTECHNOLOGY PROGRESS*. ISSN 8756-7938, 2015, vol. 31, no. 3, pp. 744-749., Registrované v: WOS
21. [1.1] WANG, Kang - LIU, Zheng-Guo - PANG, Qian - ZHANG, Wen-Wen - CHEN, Xiao-Mei - FAN, Rong-Li - YIN, Ling - JI, Ting. Investigating the Regulation of Hypopharyngeal Gland Activity in Honeybees (*Apis mellifera carnica*) Under Overwintering Conditions via Morphologic Analysis Combined With iTRAQ-Based Comparative Proteomics. In *ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA*. ISSN 0013-8746, 2018, vol. 111, no. 3, pp. 127-135., Registrované v: WOS
22. [1.1] YEUNG, Yiu To - ARGUELLES, Sandro. Bee Products: Royal Jelly and Propolis. In *NONVITAMIN AND NONMINERAL NUTRITIONAL SUPPLEMENTS*, 2019, vol., no., pp. 475-484., Registrované v: WOS
23. [1.1] YOU, Zhengying - QIAN, Qiujie - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In *TRANSGENIC RESEARCH*. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS
24. [1.1] ZHANG, Yan-Zheng - CHEN, Yi-Fan - WU, Yu-Qi - SI, Juan-Juan - ZHANG, Cui-Ping - ZHENG, Huo-Qing - HU, Fu-Liang. Discrimination of the entomological origin of honey according to the secretions of the bee (*Apis cerana* or *Apis mellifera*). In *FOOD RESEARCH*

INTERNATIONAL. ISSN 0963-9969, 2019, vol. 116, no., pp. 362-369.,
Registrované v: WOS

25. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha -
SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen -
ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan -
TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa.
Fermented food-derived bioactive compounds with anticarcinogenic properties:
Fermented royal jelly as a novel source for compounds with health benefits. In
Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165.,
Registrované v: SCOPUS

26. [1.2] ARAKANE, Yasuyuki - NOH, Mi Young - ASANO, Tsunaki -
KRAMER, Karl J. Tyrosine metabolism for insect cuticle pigmentation and
sclerotization. In Extracellular Composite Matrices in Arthropods, 2016-09-12,
pp. 165-220., Registrované v: SCOPUS

27. [1.2] LIN, Na - LI, Junmin - SHAO, Rouming - ZHANG, Hong.
Site-Specific Analysis of N-Linked Glycosylation Heterogeneity from Royal
Jelly Glycoproteins. In Journal of Agricultural and Food Chemistry. ISSN
00218561, 2019-05-16, 67, 33, pp. 9411-9422., Registrované v: SCOPUS

28. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU,
Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from
Fresh Royal Jelly in Mice. In Journal of Chinese Institute of Food Science and
Technology. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v:
SCOPUS

29. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical
composition of royal jelly. In Bee Products Chemical and Biological Properties,
2017-09-05, pp. 181-190., Registrované v: SCOPUS

30. [3.2] Alreshoodi, Fahad M.; Sultanbawa, Yasmina. Antimicrobial
Activity of Royal Jelly. IN Anti-Infective Agents, 2015, vol. 13, iss. 1, p. 50-59.,
Registrované v: BIOSIS Citation Index

ADCA15 ALBRECHT, Claudia - VON DER KAMMER, Heinz - MAYHAUS, Manuel -
KLAUDINY, Jaroslav - SCHWEIZER, Michaela - NITSCH, R.M. Muscarinic
acetylcholine receptors induce the expression of the immediate early growth
regulatory gene CYR61. In *Journal of Biological Chemistry*, 2000, vol. 275, p.
28929-28936. (1999: 6.963 - IF, Current Contents - CCC). (2000 - Current
Contents). ISSN 0021-9258.

Ohlasy:

1. [1.1] DOBRYAKOVA, Yulia V. - KASIANOV, Artem -
ZAICHENKO, Maria I. - STEPANICHEV, Mikhail Y. - CHESNOKOVA,
Ekaterina A. - KOLOSOV, Petr M. - MARKEVICH, Vladimir A. -
BOLSHAKOV, Alexey P. Intracerebroventricular Administration of
(192)IgG-Saporin Alters Expression of Microglia-Associated Genes in the Dorsal
But Not Ventral Hippocampus. In FRONTIERS IN MOLECULAR
NEUROSCIENCE. ISSN 1662-5099, 2018, vol. 10, no., pp., Registrované v:
WOS

2. [1.1] GONZALEZ, David - BRANDAN, Enrique. CTGF/CCN2 from
Skeletal Muscle to Nervous System: Impact on Neurodegenerative Diseases. In
MOLECULAR NEUROBIOLOGY. ISSN 0893-7648, 2019, vol. 56, no. 8, pp.
5911-5916., Registrované v: WOS

3. [1.1] HIGO, Noriyuki - SATO, Akira - YAMAMOTO, Tatsuya -

- OISHI, Takao - NISHIMURA, Yukio - MURATA, Yumi - ONOE, Hirotaka - ISA, Tadashi - KOJIMA, Toshio. Comprehensive analysis of area-specific and time-dependent changes in gene expression in the motor cortex of macaque monkeys during recovery from spinal cord injury. In JOURNAL OF COMPARATIVE NEUROLOGY. ISSN 0021-9967, 2018, vol. 526, no. 7, pp. 1110-1130., Registrované v: WOS
4. [1.1] JAYAKUMAR, A. R. - APEKSHA, A. - NORENBURG, M. D. Role of Matricellular Proteins in Disorders of the Central Nervous System. In NEUROCHEMICAL RESEARCH. ISSN 0364-3190, 2017, vol. 42, no. 3, pp. 858-875., Registrované v: WOS
5. [1.1] KOLE, Koen - SCHEENEN, Wim - TIESINGA, Paul - CELIKEL, Tansu. Cellular diversity of the somatosensory cortical map plasticity. In NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. ISSN 0149-7634, 2018, vol. 84, no., pp. 100-115., Registrované v: WOS
6. [1.1] LI, Xiang - MARSHALL, Paul R. - LEIGHTON, Laura J. - ZAJACZKOWSKI, Esme L. - WANG, Ziqi - MADUGALLE, Sachithrani U. - YIN, Jiayu - BREDY, Timothy W. - WEI, Wei. The DNA Repair-Associated Protein Gadd45 gamma Regulates the Temporal Coding of Immediate Early Gene Expression within the Prelimbic Prefrontal Cortex and Is Required for the Consolidation of Associative Fear Memory. In JOURNAL OF NEUROSCIENCE. ISSN 0270-6474, 2019, vol. 39, no. 6, pp. 970-983., Registrované v: WOS
7. [1.1] SILVA, Constanza P. - HORTON, William J. - CARUSO, Michael J. - SEBASTIAN, Aswathy - KLEIN, Laura C. - ALBERTA, Istvan - KAMENS, Helen M. The influence of adolescent nicotine exposure on ethanol intake and brain gene expression. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 6, pp., Registrované v: WOS
8. [1.2] DAS, Undurti N. A perinatal strategy to prevent autism. In Autism 360°, 2019-09-30, pp. 3-32., Registrované v: SCOPUS
9. [3.2] Group Author(s). Uniprot Consortium. Q9ES72. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9ES72>, Registrované v: Data Citation Index
10. [3.2] Group Author(s). Uniprot Consortium. O00622. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/O00622>, Registrované v: Data Citation Index

ADCA16 ALEXY, Pavol - KOŠÍKOVÁ, Božena - CRKONOVÁ, Gabriela - GREGOROVÁ, Adriana - MARTIŠ, Pavol. Modification of lignin-polyethylene blends with high lignin content using ethylene-vinylacetate copolymer as modifier. In *Journal of Applied Polymer Science*, 2004, vol. 94, p. 1855-1860. (2003: 1.017 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.20716>

Ohlasy:

1. [1.1] AKATO, Kokouvi - TRAN, Chau D. - CHEN, Jihua - NASKAR, Amit K. Poly(ethylene oxide)-Assisted Macromolecular Self-Assembly of Lignin in ABS Matrix for Sustainable Composite Applications. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 12, pp. 3070-3076., Registrované v: WOS
2. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Piroska - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of

interactions in polypropylene/lignosulfonate blends. In MATERIALS & DESIGN. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v: WOS

3. [1.1] BRIDSON, James H. - KAUR, Jasneet - ZHANG, Zhenhua - DONALDSON, Lloyd - FERNYHOUGH, Alan. Polymeric flavonoids processed with co-polymers as UV and thermal stabilisers for polyethylene films. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 122, no., pp. 18-24., Registrované v: WOS

4. [1.1] COLLINS, Maurice N. - NECHIFOR, Marioara - TANASA, Fulga - ZANOAGA, Madalina - MCLOUGHLIN, Anne - STROZYK, Michal A. - CULEBRAS, Mario - TEACA, Carmen-Alice. Valorization of lignin in polymer and composite systems for advanced engineering applications A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 828-849., Registrované v: WOS

5. [1.1] DEHNE, Laura - BABARRO, Carlos Vila - SAAKE, Bodo - SCHWARZ, Katrin U. Influence of lignin source and esterification on properties of lignin-polyethylene blends. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 86, no., pp. 320-328., Registrované v: WOS

6. [1.1] DOERRSTEIN, Joerg - SCHOLZ, Ronja - SCHWARZ, Dominik - SCHIEDER, Doris - SIEBER, Volker - WALTHER, Frank - ZOLLFRANK, Cordt. Effects of high-lignin-loading on thermal, mechanical, and morphological properties of bioplastic composites. In COMPOSITE STRUCTURES. ISSN 0263-8223, 2018, vol. 189, no., pp. 349-356., Registrované v: WOS

7. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS

8. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS

9. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS

10. [1.1] MALDHURE, Atul V. - EKHE, Jayant D. Effect of modifications of lignin on thermal, structural, and mechanical properties of polypropylene/modified lignin blends. In JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS. ISSN 0892-7057, 2017, vol. 30, no. 5, pp. 625-645., Registrované v: WOS

11. [1.1] PERETTI, Steven W. - BARTON, Ryan - TEIXEIRA MENDONCA, Regis. Lignin as Feedstock for Fibers and Chemicals. In COMMERCIALIZING BIOBASED PRODUCTS: OPPORTUNITIES, CHALLENGES, BENEFITS, AND RISKS. ISSN 1757-7039, 2016, vol. 43, no., pp. 132-165., Registrované v: WOS

12. [1.1] QIAN, Yong - QIU, Xueqing - ZHONG, Xiaowen - ZHANG, Delang - DENG, Yonghong - YANG, Dongjie - ZHU, Shiping. Lignin Reverse Micelles for UV-Absorbing and High Mechanical Performance Thermoplastics. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 48, pp. 12025-12030., Registrované v: WOS

13. [1.1] SEN, Sanghamitra - PATIL, Shradha - ARGYROPOULOS,

Dimitris S. Thermal properties of lignin in copolymers, blends, and composites: a review. In GREEN CHEMISTRY. ISSN 1463-9262, 2015, vol. 17, no. 11, pp. 4862-4887., Registrované v: WOS

14. [1.1] SHI, Bo - SHLEPR, Mike. Thermoplastic films containing lignin and their optical polarization properties. In JOURNAL OF POLYMER ENGINEERING. ISSN 0334-6447, 2016, vol. 36, no. 5, pp. 521-528., Registrované v: WOS

15. [1.1] SZABO, Gabor - ROMHANYI, Vivien - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Competitive Interactions in Aromatic Polymer/lignosulfonate Blends. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 1, pp. 410-419., Registrované v: WOS

16. [1.1] YE, Dezhan - LI, Shuai - LU, Xiaomin - ZHANG, Xi - ROJAS, Orlando J. Antioxidant and Thermal Stabilization of Polypropylene by Addition of Butylated Lignin at Low Loadings. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5248-5257., Registrované v: WOS

17. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang'an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang. Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS

18. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2016-01-01, pp. 95-118., Registrované v: SCOPUS

19. [1.2] QIU, Xue Qing - CHEN, Jian Hao - CAI, Zhen He - ZHOU, Ming Song. Color masking and mechanical properties of lignin/High-Density Polyethylene composites. In Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science). ISSN 1000565X, 2016-06-01, 44, 6, pp. 1-8., Registrované v: SCOPUS

20. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 49-80., Registrované v: SCOPUS

ADCA17 ALI, S. Tahir - KARAMAT, Sajjad - KÓŇA, Juraj - FABIAN, Walter M.F. Theoretical prediction of pKa values of seleninic, selenenic, sulfinic, and carboxylic acids by quantum-chemical methods. In *Journal of physical chemistry A*. Molecules, spectroscopy, kinetics, environment, and general theory, 2010, vol. 114, p. 12470-12478. (2009: 2.899 - IF, Q2 - JCR, 1.589 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1089-5639.

Ohlasy:

1. [1.1] BELINSKAIA, D. A. - TERPILOVSKII, M. A. - BATALOVA, A. A. - GONCHAROV, N. Effect of Cys34 Oxidation State of Albumin on Its Interaction with Paraoxon according to Molecular Modeling Data. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2019, vol. 45, no. 6, pp. 535-544., Registrované v: WOS

2. [1.1] CAO, Xiaofang - RONG, Chunying - ZHONG, Aiguo - LU, Tian - LIU, Shubin. Molecular Acidity: An Accurate Description with Information-Theoretic Approach in Density Functional Reactivity Theory. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2018, vol.

- 39, no. 2, pp. 117-129., Registrované v: WOS
3. [1.1] GEFFERTOVA, Denisa - ALI, Syed Tahir - SOLINOVA, Veronika - KRECMEROVA, Marcela - HOLY, Antonin - HAVLAS, Zdenek - KASICKA, Vaclav. Investigation of the acid-base and electromigration properties of 5-azacytosine derivatives using capillary electrophoresis and density functional theory calculations. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2017, vol. 1479, no., pp. 185-193., Registrované v: WOS
4. [1.1] GHIAMI-SHOMAMI, Ali - ASHTARI-DELIVAND, Mona - GHALAMI-CHOOBAR, Bahram - LEITO, Ivo. Computational studies of acidities of some hydroxycoumarins. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2020, vol. 1190, no., pp. Dostupné na: <https://doi.org/10.1016/j.comptc.2020.113008>., Registrované v: WOS
5. [1.1] KOSINSKA, Malgorzata - ZAPALA, Lidia - ZAPALA, Wojciech - WOZNICKA, Elzbieta. Response of the DFT study to the calculations of selected microdissociation constants of anthranilic acid and its derivatives. In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, 2019, vol. 730, no., pp. 426-435., Registrované v: WOS
6. [1.1] MARTZEL, Thomas - LOHIER, Jean-Francois - GAUMONT, Annie-Claude - BRIERE, Jean-Francois - PERRIO, Stephane. Sulfinate-Organocatalyzed (3+2) Annulation Reaction of Propargyl or Allenyl Sulfones with Activated Imines. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, vol., no. 36, pp. 5069-5073., Registrované v: WOS
7. [1.1] VERMA, Niraj - TAO, Yunwen - MARCIAL, Bruna Luana - KRAKA, Elfi. Correlation between molecular acidity (pK_a) and vibrational spectroscopy. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2019, vol. 25, no. 2, pp., Registrované v: WOS
8. [1.1] XIAO, Xuezhu - CAO, Xiaofang - ZHAO, Dongbo - RONG, Chunying - LIU, Shubin. Quantification of Molecular Basicity for Amines: a Combined Conceptual Density Functional Theory and Information-Theoretic Approach Study. In ACTA PHYSICO-CHEMICA SINICA. ISSN 1000-6818, 2020, vol. 36, no. 11, pp. Dostupné na: <https://doi.org/10.3866/PKU.WHXB201906034>., Registrované v: WOS
9. [1.1] XUE, Xiao-Song - WANG, Ya - YANG, Chen - JI, Pengju - CHENG, Jin-Pei. Toward Prediction of the Chemistry in Ionic Liquids: An Accurate Computation of Absolute pK_a Values of Benzoic Acids and Benzenethiols. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 18, pp. 8997-9006., Registrované v: WOS
10. [1.1] ZHANG, Yuandi - CHEN, Hui - LIU, Xuefeng - ZHANG, Yongmin - FANG, Yun - QIN, Zhirong. Effective and Reversible Switching of Emulsions by an Acid/Base-Mediated Redox Reaction. In LANGMUIR. ISSN 0743-7463, 2016, vol. 32, no. 51, pp. 13728-13735., Registrované v: WOS
11. [1.1] ZHENG, Zhipeng - TROFYMCHUK, Oleksandra S. - KUROI, Takashi - VARELA, Elena - MINDIOLA, Daniel J. - WALSH, Patrick J. Selenenate Anions (PhSeO⁻) as Organocatalyst: Synthesis of trans-Stilbenes and a PPV Derivative. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2020, vol. 362, no. 3, pp. 659-666. Dostupné na: <https://doi.org/10.1002/adsc.201901201>., Registrované v: WOS
12. [3.2] Belinskaia, D.A.; Terpilovskii, M.A.; Batalova, A.A.;

Goncharov, N.V. Effect of Cys34 Oxidation State of Albumin on Its Interaction with Paraoxon according to Molecular Modeling Data. In: Russian Journal of Bioorganic Chemistry, ISSN: 1068-1620, 2019, Volume: 45 Issue: 6 Pages: 640-649

ADCA18 ALI, S.T. - JAHANGIR, S. - KARAMAT, S. - FABIAN, W.M.F. - NAWARA, Krzysztof Kamil - KÓŇA, Juraj. Theoretical study on the redox cycle of bovine glutathione peroxidase GPx1:pKa calculations, docking, and molecular dynamics simulations. In *Journal of Chemical Theory and Computation*, 2010, vol. 6, p. 1670-1681. (2009: 4.804 - IF, 2.685 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct9003355>

Ohlasy:

1. [1.1] BARAGE, Sagar H. - DEOBAGKAR, Deepti D. - BALADHYE, Vijay B. Characterization of structural and functional role of selenocysteine in selenoprotein H and its impact on DNA binding. In AMINO ACIDS. ISSN 0939-4451, 2018, vol. 50, no. 5, pp. 593-607., Registrované v: WOS
2. [1.1] BORTOLI, Marco - TORSELLO, Mauro - BICKELHAUPT, F. Matthias - ORIAN, Laura. Role of the Chalcogen (S, Se, Te) in the Oxidation Mechanism of the Glutathione Peroxidase Active Site. In CHEMPHYSICHEM. ISSN 1439-4235, 2017, vol. 18, no. 21, pp. 2990-2998., Registrované v: WOS
3. [1.1] SANTOS, Danubia B. - COLLE, Dirleise - MOREIRA, Eduardo L. G. - SANTOS, Alessandra A. - HORT, Mariana A. - SANTOS, Karin - OSES, Jean P. - RAZZERA, Guilherme - FARINA, Marcelo. Probucol Protects Neuronal Cells Against Peroxide-Induced Damage and Directly Activates Glutathione Peroxidase-1. In MOLECULAR NEUROBIOLOGY. ISSN 0893-7648, 2020, vol. 57, no. 8, pp. 3245-3257. Dostupné na: <https://doi.org/10.1007/s12035-020-01963-w>, Registrované v: WOS
4. [1.1] THAPA, Bishnu - SCHLEGEL, H. Bernhard. Theoretical Calculation of pK(a)'s of Selenols in Aqueous Solution Using an Implicit Solvation Model and Explicit Water Molecules. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2016, vol. 120, no. 44, pp. 8916-9922., Registrované v: WOS
5. [1.1] ZHU, Danfeng - ZHENG, Wenrui - CHANG, Huifang - XIE, Hongyun. A theoretical study on the pK(a) values of selenium compounds in aqueous solution. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 20, pp. 8325-8336. Dostupné na: <https://doi.org/10.1039/d0nj01124j>, Registrované v: WOS

ADCA19 ALTANER, Clemens - SAAKE, Bodo - TENKANEN, Maija - EYZAGUIRRE, Jaime - FAULDS, Craig B. - BIELY, Peter - VIIKARI, Liisa - SIIKA-AHO, Matti - PULS, Jurgen. Regioselective deacetylation of cellulose acetates by acetyl xylan esterases of different CE-families. In *Journal of Biotechnology*, 2003, vol. 105, p. 95-104. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(03\)00187-1](https://doi.org/10.1016/S0168-1656(03)00187-1)

Ohlasy:

1. [1.1] BI, Ran - BERGLUND, Jennie - VILAPLANA, Francisco - MCKEE, Lauren S. - HENRIKSSON, Gunnar. The degree of acetylation affects the microbial degradability of mannans. In POLYMER DEGRADATION AND

STABILITY. ISSN 0141-3910, 2016, vol. 133, no., pp. 36-46., Registrované v: WOS

2. [1.1] EMINOGLU, Aysenur - ULKER, Serdar - SANDALLI, Cemal. Cloning, Purification and Characterization of Acetyl Xylane Esterase from *Anoxybacillus flavithermus* DSM 2641(T) with Activity on Low Molecular-Weight Acetates. In PROTEIN JOURNAL. ISSN 1572-3887, 2015, vol. 34, no. 4, pp. 237-242., Registrované v: WOS

3. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Principles of Cellulose Derivatization. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 259-292., Registrované v: WOS

4. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS

5. [1.1] KWON, Mi - SONG, Jaeyong - PARK, Hong-Seog - PARK, Hyunjin - CHANG, Jongsoo. Characterization of Heterologously Expressed Acetyl Xylan Esterase1 Isolated from the Anaerobic Rumen Fungus *Neocallimastix frontalis* PMA02. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, 2016, vol. 29, no. 11, pp. 1576-1584., Registrované v: WOS

6. [1.1] LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. - DILOKPIMOL, Adiphol. Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694.>, Registrované v: WOS

7. [1.1] MAI-GISONDI, Galina - TURUNEN, Ossi - PASTINEN, Ossi - PAHIMANOLIS, Nikolaos - MASTER, Emma R. Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 79-80, no., pp. 27-33., Registrované v: WOS

8. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS

9. [1.1] SHIRKE, Abhijit N. - BASORE, Danielle - BUTTERFOSS, Glenn L. - BONNEAU, Richard - BYSTROFF, Christopher - GROSS, Richard A. Toward rational thermostabilization of *Aspergillus oryzae* cutinase: Insights into catalytic and structural stability. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS. ISSN 0887-3585, 2016, vol. 84, no. 1, pp. 60-72., Registrované v: WOS

10. [1.1] SHIRKE, Abhijit N. - BUTTERFOSS, Glenn L. - SAIKIA, Rakhi - BASU, Aditya - DE MARIA, Leonardo - SVENDSEN, Allan - GROSS,

- Richard A. Engineered *Humicola insolens* cutinase for efficient cellulose acetate deacetylation. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS
11. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. An extended loop in CE7 carbohydrate esterase family is dispensable for oligomerization but required for activity and thermostability. In *JOURNAL OF STRUCTURAL BIOLOGY*. ISSN 1047-8477, 2016, vol. 194, no. 3, pp. 434-445., Registrované v: WOS
12. [1.1] WATABE, Y. - SUZUKI, Y. - KOIKE, S. - SHIMAMOTO, S. - KOBAYASHI, Y. Cellulose acetate, a new candidate feed supplement for ruminant animals: In vitro evaluations. In *JOURNAL OF DAIRY SCIENCE*. ISSN 0022-0302, 2018, vol. 101, no. 12, pp. 10929-10938., Registrované v: WOS
13. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
14. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
15. [1.2] RAVINDRAN, Rajeev - JAISWAL, Amit K. Enzymes in bioconversion and food processing. In *Enzymes in Food Technology: Improvements and Innovations*, 2018-11-19, pp. 19-40., Registrované v: SCOPUS

ADCA20 ANDRÉ, Isabelle - MAZEAU, Karim - TVAROŠKA, Igor - PUTAUX, Jean-Luc - WINTER, William T. - TARAVEL, Francois R. - CHANZY, Henry. Molecular and crystal structures of inulin from electron diffraction data. In *Macromolecules*, 1996, vol. 29, p. 4626-4635. (1995: 3.155 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0024-9297.

Ohlasy:

1. [1.1] AHMED, Jasim - THOMAS, Linu - KHASHAWI, Rawan. Dielectric, thermal, and rheological properties of inulin/water binary solutions in the selected concentration. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2019, vol. 42, no. 2, pp., Registrované v: WOS
2. [1.1] ARAUJO-DIAZ, S. B. - LEYVA-PORRAS, C. - AGUIRRE-BANUELOS, P. - ALVAREZ-SALAS, C. - SAAVEDRA-LEOS, Z. Evaluation of the physical properties and conservation of the antioxidants content, employing inulin and maltodextrin in the spray drying of blueberry juice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 317-325., Registrované v: WOS
3. [1.1] BALAN, C. - CHIS, M. I. - RACHISAN, A. L. - BAIA, M. A vibrational study of inulin by means of experimental and theoretical methods. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2018, vol. 1164, no., pp. 84-88., Registrované v: WOS

4. [1.1] BARCLAY, Thomas G. - RAJAPAKSHA, Harinda - THILAGAM, Alagu - QIAN, Gujie - GINIC-MARKOVIC, Milena - COOPER, Peter D. - GERSON, Andrea - PETROVSKY, Nikolai. Physical characterization and in silico modeling of inulin polymer conformation during vaccine adjuvant particle formation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 143, no., pp. 108-115., Registrované v: WOS
5. [1.1] BLANCO CANALIS, M. S. - LEON, A. E. - RIBOTTA, P. D. Incorporation of dietary fiber on the cookie dough. Effects on thermal properties and water availability. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 271, no., pp. 309-317., Registrované v: WOS
6. [1.1] CARBONE, Donatella - FAGGIO, Caterina. Importance of prebiotics in aquaculture as immunostimulants. Effects on immune system of Sparus aurata and Dicentrarchus labrax. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2016, vol. 54, no., pp. 172-178., Registrované v: WOS
7. [1.1] COOPER, Peter D. - RAJAPAKSHA, K. Harinda - BARCLAY, Thomas G. - GINIC-MARKOVIC, Milena - GERSON, Andrea R. - PETROVSKY, Nikolai. Inulin crystal initiation via a glucose-fructose cross-link of adjacent polymer chains: Atomic force microscopy and static molecular modelling. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 964-972., Registrované v: WOS
8. [1.1] GIRI, Apurba - KANAWJIA, Suresh Kumar - SINGH, Mukesh Pratap. Effect of inulin on physico-chemical, sensory, fatty acid profile and microstructure of processed cheese spread. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 8, pp. 2443-2451., Registrované v: WOS
9. [1.1] HUANG, Kehao - DU, Bin - XU, Baojun. Alterations in physicochemical properties and bile acid binding capacities of dietary fibers upon ultrafine grinding. In POWDER TECHNOLOGY. ISSN 0032-5910, 2018, vol. 326, no., pp. 146-150., Registrované v: WOS
10. [1.1] LUO, Yijing - LIU, Yang - CHEN, Yingchong - SHUAI, Shuyuan - ZHENG, Qin - YANG, Ming - YUE, Pengfei. Study on redispersibility of drug nanocrystals particles during storage: Novel understanding based on water adsorption and glass transition of amorphous matrix formers. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2020, vol. 575, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2019.118945>., Registrované v: WOS
11. [1.1] LUO, Yijing - ZHANG, Zengzhu - HUANG, Guiting - YU, Huaping - MA, Yueqin - ZHENG, Qin - YUE, Pengfei. Roles of maltodextrin and inulin as matrix formers on particle performance of inhalable drug nanocrystal-embedded microparticles. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115937>., Registrované v: WOS
12. [1.1] MENSINK, Maarten A. - FRIJLINK, Henderik W. - MAARSCHALK, Kees van der Voort - HINRICHS, Wouter L. J. Inulin, a flexible oligosaccharide I: Review of its physicochemical characteristics. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 130, no., pp. 405-419., Registrované v: WOS
13. [1.1] NARH, Christopher - CHARLES, Frimpong - MENSAH, Alfred - WEI QUFU. Synthesis of highly stable bacterial cellulosic pocket for

drug storage. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 625-632., Registrované v: WOS

14. [1.1] NARH, Christopher - BADOE, William - HOWARD, Ebenezer Kofi - LIN, Nie Xiao - MENSAH, Alfred - WANG, Tingting - WANG, Qingqing - HUANG, Fenglin - WEI, Qufu. Synthesized OH-radical rich bacteria cellulosic pockets with photodynamic bacteria inactivation properties against *S. ureus* and *E. coli*. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 116, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.111230>., Registrované v: WOS

15. [1.1] NI, Dawei - XU, Wei - ZHU, Yingying - ZHANG, Wenli - ZHANG, Tao - GUANG, Cuie - MU, Wanmeng. Inulin and its enzymatic production by inulosucrase: Characteristics, structural features, molecular modifications and applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2019, vol. 37, no. 2, pp. 306-318., Registrované v: WOS

16. [1.1] ROMANO, Nelson - ARAUJO-ANDRADE, Cuauhtemoc - LECOT, Javier - MOBILI, Pablo - GOMEZ-ZAVAGLIA, Andrea. Infrared spectroscopy as an alternative methodology to evaluate the effect of structural features on the physical-chemical properties of inulins. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 109, no., pp. 223-231., Registrované v: WOS

17. [1.1] WANG, Lixin - BARCLAY, Thomas - SONG, Yunmei - JOYCE, Paul - SAKALA, Isaac G. - PETROVSKY, Nikolai - GARG, Sanjay. Investigation of the biodistribution, breakdown and excretion of delta inulin adjuvant. In VACCINE. ISSN 0264-410X, 2017, vol. 35, no. 34, pp. 4382-4388., Registrované v: WOS

18. [1.2] BARKER, William W. - WELCH, Susan A. - BANFIELD, Jillian F. Biogeochemical weathering of silicate minerals. In Geomicrobiology: Interactions Between Microbes and Minerals, 2019-02-26, pp. 391-428., Registrované v: SCOPUS

19. [1.2] LEYVA-PORRAS, César - LÓPEZ-PABLOS, Ana L. - ALVAREZ-SALAS, Claudia - PÉREZ-URIZAR, José - SAAVEDRA-LEOS, Zenaida. Physical properties of inulin and technological applications. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 959-984., Registrované v: SCOPUS

ADCA21 ANDRÉ, Isabelle - TVAROŠKA, Igor - CARVER, Jeremy P. On the reaction pathway and determination of transition-state structures for retaining alfa-galactosyltransferases. In *Carbohydrate Research*, 2003, vol. 338, p. 865-877. (2002: 1.631 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(03\)00050-8](https://doi.org/10.1016/S0008-6215(03)00050-8)

Ohlasy:

1. [1.1] ARDEVOL, Albert - IGLESIAS-FERNANDEZ, Javier - ROJAS-CERVELLERA, Victor - ROVIRA, Carme. The reaction mechanism of retaining glycosyltransferases. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 51-60., Registrované v: WOS

2. [1.1] ARDEVOL, Albert - ROVIRA, Carme. Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. In JOURNAL OF THE AMERICAN

CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 24, pp. 7528-7547., Registrované v: WOS

- ADCA22 ANDRE, I. - MAZEAU, K. - TARAVEL, F.R. - TVAROŠKA, Igor. Conformation and dynamics of a cyclic (1-2)- α -D-glucan. In *International Journal of Biological Macromolecules*, 1995, vol. 17, p. 189. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/0141-8130\(95\)92685-J](https://doi.org/10.1016/0141-8130(95)92685-J)

Ohlasy:

1. [1.1] HU, Yiluo - KIM, Hwanhee - SHINDE, Vijay Vilas - JEONG, Daham - CHOI, Youngjin - CHO, Eunae - JUNG, Seunho. Carboxymethyl cyclosophoraoses as a flexible pH-responsive solubilizer for pindolol. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 493-501., Registrované v: WOS
2. [1.1] CHO, Eunae - JUNG, Seunho. Biotinylated Cyclooligosaccharides for Paclitaxel Solubilization. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS
3. [1.1] KIM, Hwanhee - DINDULKAR, Someshwar D. - JEONG, Daham - PARK, Seyeon - JUN, Bong-Hyun - CHO, Eunae - JUNG, Seunho. A synthetic encapsulating emulsifier using complex-forming pentacosadiynoyl cyclosophoraoses (cyclic beta-(1,2)-D-glucan). In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2016, vol. 44, no., pp. 195-203., Registrované v: WOS
4. [1.1] KIM, Yohan - SHINDE, Vijay Vilas - JEONG, Daham - CHOI, Youngjin - JUNG, Seunho. Solubility Enhancement of Atrazine by Complexation with Cyclosophoraose Isolated from Rhizobium leguminosarum biovar trifolii TA-1. In POLYMERS, 2019, vol. 11, no. 3, pp., Registrované v: WOS
5. [1.1] MAMAGHANI, Manouchehr - NIA, Roghayeh Hossein - TAVAKOLI, Fateme - JAHANSHAH, Parivash. Recent Advances in the MCRs Synthesis of Chromenes: A Review. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 17, pp. 1704-1769., Registrované v: WOS
6. [1.1] SALAMONE, Stephane - GUERREIRO, Catherine - CAMBON, Emmanuelle - HARGREAVES, Jason M. - TARRAT, Nathalie - REMAUD-SIMEON, Magali - ANDRE, Isabelle - MULARD, Laurence A. Investigation on the Synthesis of Shigella flexneri Specific Oligosaccharides Using Disaccharides as Potential Transglucosylase Acceptor Substrates. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 22, pp. 11237-11257., Registrované v: WOS
7. [1.1] VENKATACHALAM, Geetha - VENKATESAN, Nandakumar - SURESH, Ganesan - DOBLE, Mukesh. Cyclic beta-(1, 2)-glucan blended poly DL lactic co glycolic acid (PLGA 10:90) nanoparticles for drug delivery. In HELIYON. ISSN 2405-8440, 2019, vol. 5, no. 9, pp., Registrované v: WOS

- ADCA23 ANDRE, I. - MAZEAU, K. - TARAVEL, F.R. - TVAROŠKA, Igor. NMR and molecular modelling of sophorose and sophorotriose in solution. In *New Journal of Chemistry*, 1995, vol. 19, p. 331. ISSN 1144-0546.

Ohlasy:

1. [1.1] ABE, Koichi - SUNAGAWA, Naoki - TERADA, Tohru - TAKAHASHI, Yuta - ARAKAWA, Takatoshi - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - NAKAI, Hiroyuki - TAGUCHI, Hayao - NAKAJIMA, Masahiro - FUSHINOBU, Shinya. Structural and thermodynamic insights into

beta-1,2-glucooligosaccharide capture by a solute-binding protein in *Listeria innocua*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2018, vol. 293, no. 23, pp. 8812-8828., Registrované v: WOS

- ADCA24 ANGULO, Jesus - HRICOVÍNĚ, Miloš - GAIRI, Margarida - GUERRINI, Marco - DE PAZ, José Luis - OJEDA, Rafael - MARTÍN-LOMAS, Manuel - NIETO, Pedro M. Dynamic properties of biologically active synthetic heparin-like hexasaccharides. In *Glycobiology*, 2005, vol. 15, p. 1008-1015. ISSN 0959-6658. Dostupné na: <https://doi.org/10.1093/glycob/cwi091>
- Ohlasy:
1. [1.1] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2016, vol. 68, no. 1, pp. 76-141., Registrované v: WOS
 2. [1.1] RYAN, Christina N. M. - SORUSHANOVA, Anna - LOMAS, Alex J. - MULLEN, Anne Maria - PANDIT, Abhay - ZEUGOLIS, Dimitrios I. Glycosaminoglycans in Tendon Physiology, Pathophysiology, and Therapy. In *BIOCONJUGATE CHEMISTRY*. ISSN 1043-1802, 2015, vol. 26, no. 7, pp. 1237-1251., Registrované v: WOS
 3. [1.1] WIGEN, Jenny - ELOWSSON-RENDIN, Linda - KARLSSON, Lisa - TYKESSON, Emil - WESTERGREN-THORSSON, Gunilla. Glycosaminoglycans: A Link Between Development and Regeneration in the Lung. In *STEM CELLS AND DEVELOPMENT*. ISSN 1547-3287, 2019, vol. 28, no. 13, pp. 823-832., Registrované v: WOS
 4. [1.2] DAVIS, Julie Eberle - GUNDAMPATI, Ravi Kumar - JAYANTHI, Srinivas - ANDERSON, Joshua - PICKHARDT, Abigail - KOPPOLU, Bhanu prasanth - ZAHAROFF, David A. - KUMAR, Thallapuranam Krishnaswamy Suresh. Effect of extension of the heparin binding pocket on the structure, stability, and cell proliferation activity of the human acidic fibroblast growth factor. In *Biochemistry and Biophysics Reports*, 2018-03-01, 13, pp. 45-57., Registrované v: SCOPUS
 5. [1.2] DÍAZ, Dolores - CANALES-MAYORDOMO, Angeles - JAVIER CAÑADA, F. - JIMÉNEZ-BARBERO, Jesús. Solution conformation of carbohydrates: A view by using NMR assisted by modeling. In *Methods in Molecular Biology*. ISSN 10643745, 2015-01-01, 1273, pp. 261-287., Registrované v: SCOPUS
 6. [1.2] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In *Pharmacological Reviews*. ISSN 00316997, 2015-01-01, 68, 1, pp. 76-141., Registrované v: SCOPUS
 7. [1.2] NAGGI, Annamaria - TORRI, Giangiacomo. Methods of characterization of sulfated oligo-polysaccharides. In *Sulfated Polysaccharides*, 2015-07-01, pp. 235-264., Registrované v: SCOPUS

- ADCA25 ANTAL, Miroslav - EBRINGEROVÁ, Anna - MICKO, M.M. Cationic hemicelluloses from aspen wood flour and their use in paper production. In *Das Papier*, 1991, vol.45, 232-235.

Ohlasy:

1. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and

Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455.,

Registrované v: WOS

2. [1.1] MILETZKY, Albrecht - PUNZ, Manuel - ZANKEL, Armin - SCHLADER, Sandra - CZIBULA, Caterina - GANSER, Christian - TEICHERT, Christian - SPIRK, Stefan - ZOEHRER, Siegfried - BAUER, Wolfgang - SCHENNACH, Robert. Modifying cellulose fibers by adsorption/precipitation of xylan. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 189-201.,

Registrované v: WOS

3. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA26 ANTAL, Miroslav - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials. II. Distribution of functional groups in lignin, hemicellulose, and cellulose components. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 643-650. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1984.070290220>

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207.,

Registrované v: WOS

2. [1.1] LI, Jian - BAI, Xiaowei - FANG, Yang - CHEN, Yingquan - WANG, Xianhua - CHEN, Hanping - YANG, Haiping. Comprehensive mechanism of initial stage for lignin pyrolysis. In COMBUSTION AND FLAME. ISSN 0010-2180, 2020, vol. 215, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.combustflame.2020.01.016>., Registrované v: WOS

3. [1.1] RAJAN, Kalavathy - MANN, Jeffrey K. - ENGLISH, Eldon - HARPER, David P. - CARRIER, Danielle Julie - RIALS, Timothy G. - LABBE, Nicole - CHMELY, Stephen C. Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 7, pp. 2665-2672., Registrované v: WOS

ADCA27 ANTAL, Miroslav - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Structure and papermaking properties of aminoalkylxylans. In *Papier*, 1997, vol. 51, p. 223-226. ISSN 0031-1340.

Ohlasy:

1. [1.1] MILETZKY, Albrecht - PUNZ, Manuel - ZANKEL, Armin - SCHLADER, Sandra - CZIBULA, Caterina - GANSER, Christian - TEICHERT, Christian - SPIRK, Stefan - ZOEHRER, Siegfried - BAUER, Wolfgang - SCHENNACH, Robert. Modifying cellulose fibers by adsorption/precipitation of xylan. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 189-201.,

Registrované v: WOS

2. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising

properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA28 ANTAL, M. - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials I. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 637-642. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1984.070290219>

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
2. [1.1] KERANEN, Anni - LEIVISKA, Tiina - HORMI, Osmo - TANSKANEN, Juha. Preparation of cationized pine sawdust for nitrate removal: Optimization of reaction conditions. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2015, vol. 160, no., pp. 105-112., Registrované v: WOS
3. [1.1] KHOSROWSHAHI, Elnaz Marzi - RAZMI, Habib. Application of sunflower stalk-carbon nitride nanosheets as a green sorbent in the solid-phase extraction of polycyclic aromatic hydrocarbons followed by high-performance liquid chromatography. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2018, vol. 41, no. 9, pp. 2020-2028., Registrované v: WOS

ADCA29 ANTAL, M. - ŠIMKOVIC, Ivan - EBRINGEROVÁ, Anna - MICKO, M. New aspects in cationization of lignocellulose materials. 4. Modification of aspen wood meal with quaternary ammonium groups. In *Journal of Applied Polymer Science*, 1986, vol. 31, p. 621-625. ISSN 0021-8995.

Ohlasy:

1. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA30 ANTONOV, Y.A. - LASHKO, N.P. - GLOTOVA, Y.K. - MALOVÍKOVÁ, Anna - MARKOVIČ, Oskar. Effect of the structural features of pectins and alginates on their thermodynamic compatibility with gelatin in aqueous media. In *Food Hydrocolloids*, 1996, vol. 10, p. 1-9. ISSN 0268-005X. Dostupné na: [https://doi.org/10.1016/S0268-005X\(96\)80047-6](https://doi.org/10.1016/S0268-005X(96)80047-6)

Ohlasy:

1. [1.1] ESQUENA, Jordi. Water-in-water (W/W) emulsions. In *CURRENT OPINION IN COLLOID & INTERFACE SCIENCE*. ISSN 1359-0294, 2016, vol. 25, no., pp. 109-119., Registrované v: WOS
2. [1.1] GUTNICK, D. L. - BACH, H. Biosurfactants. In *COMPREHENSIVE BIOTECHNOLOGY, VOL 3: INDUSTRIAL BIOTECHNOLOGY AND COMMODITY PRODUCTS, 2ND EDITION*, 2019, vol., no., pp. 699-715., Registrované v: WOS
3. [1.1] HINTON, Thomas J. - JALLERAT, Quentin - PALCHESKO, Rachelle N. - PARK, Joon Hyung - GRODZICKI, Martin S. - SHUE, Hao-Jan - RAMADAN, Mohamed H. - HUDSON, Andrew R. - FEINBERG, Adam W.

Three-dimensional printing of complex biological structures by freeform reversible embedding of suspended hydrogels. In SCIENCE ADVANCES. ISSN 2375-2548, 2015, vol. 1, no. 9, pp., Registrované v: WOS

4. [1.1] LIU, Jun - SHIM, Youn Young - TSE, Timothy J. - WANG, Yong - REANEY, Martin J. T. Flaxseed gum a versatile natural hydrocolloid for food and non-food applications. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 75, no., pp. 146-157., Registrované v: WOS

5. [1.1] VORON'KO, Nicolay G. - DERKACH, Svetlana R. - KUCHINA, Yuliya A. - SOKOLAN, Nina I. - KURANOVA, Lyudmila K. - OBLUCHINSKAYA, Ekaterina D. Influence of added gelatin on the rheological properties of a Fucus vesiculosus extract. In FOOD BIOSCIENCE. ISSN 2212-4292, 2019, vol. 29, no., pp. 1-8., Registrované v: WOS

6. [1.2] DA SILVA, J. A. Lopes - RAO, M. A. Pectins: Structure, functionality, and uses. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 353-411., Registrované v: SCOPUS

7. [1.2] GOH, Kelvin K.T. - TEO, Anges - SARKAR, Anwesha - SINGH, Harjinder. Milk protein-polysaccharide interactions. In Milk Proteins: From Expression to Food, 2019-11-15, pp. 499-535., Registrované v: SCOPUS

8. [1.2] TOLSTOGUZOV, Vladimir. Phase behavior in mixed polysaccharide systems. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 589-627., Registrované v: SCOPUS

9. [1.2] WANG, Qi - PAGÁN, Jordi - SHI, John. Pectin from fruits. In Functional Foods: Biochemical and Processing Aspects, 2016-04-19, 2, pp. 263-309., Registrované v: SCOPUS

ADCA31 ARAI, Tsutomu - BIELY, Peter - UHLIARIKOVÁ, Iveta - SATO, Nobuaki - MAKISHIMA, Satoshi - MIZUNO, Masahiro - NOZAKI, Kouichi - KANEKO, Satoshi - AMANO, Yoshihiko**. Structural characterization of hemicellulose released from corn cob in continuous flow type hydrothermal reactor. In *Journal of Bioscience and Bioengineering*, 2019, vol. 127, p. 222-230. (2018: 2.032 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1389-1723. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2018.07.016>

Ohlasy:

1. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - ALONSO, Jose Luis - SAEZ, Felicia - NEGRO, Maria Jose - GULLON, Beatriz. Xylooligosaccharides from steam-exploded barley straw: Structural features and assessment of bifidogenic properties. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 124, no., pp. 131-142. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.08.014>., Registrované v: WOS

2. [1.1] CHU, Jian - JIA, Tian-Yuan - GONG, Zhong-Ying - DONG, Chen-Ying - ZHOU, Da-Wei. Characterization of Biosynthetic Pathway of Tetrasaccharide Repeating Unit of Escherichia Coli O77 O-antigen by Matrix-assisted Laser Desorption-Ionization Time-of-Flight Mass Spectrometry. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2020, vol. 48, no. 8, pp. 1096-1103. Dostupné na: <https://doi.org/10.19756/j.issn.0253-3820.191770>., Registrované v: WOS

3. [1.1] LI, Jinbao - FENG, Pan - XIU, Huijuan - LI, Jingyu - YANG, Xue - MA, Feiyan - LI, Xiang - ZHANG, Xuefei - KOZLIAK, Evguenii - JI, Yun. Morphological changes of lignin during separation of wheat straw

components by the hydrothermal-ethanol method. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 294, no., pp., Registrované v: WOS

4. [1.1] POLETTTO, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.01.005>., Registrované v: WOS

5. [1.1] ZOGHLAMI, Aya - PAES, Gabriel. Lignocellulosic Biomass: Understanding Recalcitrance and Predicting Hydrolysis. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2019, vol. 7, no., pp., Registrované v: WOS

6. [1.2] LI, Jinbao - FENG, Pan - XIU, Huijuan - LI, Jingyu - SONG, Te - LI, Xiang. Investigation of Lignin Deposition Morphology on the Fibers of Wheat Straw Subjected to Hydrothermal-Ethanol Two-Step Fractional Separation. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2019-11-01, 38, 11, pp. 9-15., Registrované v: SCOPUS

ADCA32 ARMSTRONG, Michael C. - ŠESTÁK, Sergej - ALI, Ahmed A. - SAGINI, Hanan A.M. - BROWN, Max - BATY, Karen - TREUMANN, Achim - SCHRODER, Martin. Bypass of activation loop phosphorylation by aspartate 836 in activation of the endoribonuclease activity of Ire1. In *Molecular and Cellular Biology*, 2017, vol. 37, p. e00655-16. (2016: 4.398 - IF, Q1 - JCR, 3.478 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0270-7306. Dostupné na: <https://doi.org/10.1128/MCB.00655-16>

Ohlasy:

1. [1.1] ABDULLAH, Ahmad - RAVANAN, Palaniyandi. The unknown face of IRE1 alpha Beyond ER stress. In EUROPEAN JOURNAL OF CELL BIOLOGY. ISSN 0171-9335, 2018, vol. 97, no. 5, pp. 359-368., Registrované v: WOS

2. [1.1] ARINO, Joaquin - VELAZQUEZ, Diego - CASAMAYOR, Antonio. Ser/Thr protein phosphatases in fungi: structure, regulation and function. In MICROBIAL CELL. ISSN 2311-2638, 2019, vol. 6, no. 5, pp. 217-256., Registrované v: WOS

3. [1.1] BHOIR, Siddhant - SHAIK, Althaf - THIRUVENKATAM, Vijay - KIRUBAKARAN, Sivapriya. High yield bacterial expression, purification and characterisation of bioactive Human Torsled-like Kinase 1B involved in cancer. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

4. [1.1] TANG, Chih-Hang Anthony - CHANG, Shiun - PATON, Adrienne W. - PATON, James C. - GABRILOVICH, Dmitry I. - PLOEGH, Hidde L. - DEL VALLE, Juan R. - HU, Chih-Chi Andrew. Phosphorylation of IRE1 at S729 regulates RIDD in B cells and antibody production after immunization. In JOURNAL OF CELL BIOLOGY. ISSN 0021-9525, 2018, vol. 217, no. 5, pp. 1739-1755., Registrované v: WOS

5. [1.1] URRÁ, Hery - PIHAN, Philippe - HETZ, Claudio. The UPRosome-decoding novel biological outputs of IRE1 alpha function. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2020, vol. 133, no. 15, pp. Dostupné na: <https://doi.org/10.1242/jcs.218107>., Registrované v: WOS

6. [1.1] XIA, Xuhua. Translation Control of HAC1 by Regulation of

Splicing in *Saccharomyces cerevisiae*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 12, pp., Registrované v: WOS

7. [1.2] LI, Jianrong - YU, Qilin - ZHANG, Bing - XIAO, Chenpeng - MA, Tianyu - YI, Xiao - LIANG, Chao - LI, Mingchun. Stress-associated endoplasmic reticulum protein 1 (SERP1) and Atg8 synergistically regulate unfolded protein response (UPR) that is independent on autophagy in *Candida albicans*. In International Journal of Medical Microbiology. ISSN 14384221, 2018-04-01, 308, 3, pp. 378-386., Registrované v: SCOPUS

ADCA33 ARROYO, Javier - FARKAŠ, Vladimír - SANZ, Ana B - CABIB, Enrico. 'Strengthening the fungal cell wall through chitin–glucan cross-links: effects on morphogenesis and cell integrity'. In *Cellular microbiology*. - Vel'ká Británie : Blackwell Synergy, 2016, vol. 18, p. 1239-1250. (2015: 4.460 - IF, Q1 - JCR, 2.949 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1462-5814. Dostupné na: <https://doi.org/10.1111/cmi.12615>

Ohlasy:

1. [1.1] ASIF, Tayyaba - JAVED, Urooj - ZAFAR, Syeda Bushra - ANSARI, Asma - UL QADER, Shah Ali - AMAN, Afsheen. Bioconversion of Colloidal Chitin Using Novel Chitinase from *Glutamicibacter uratoxydans* Exhibiting Anti-fungal Potential by Hydrolyzing Chitin Within Fungal Cell Wall. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 8, pp. 4129-4143. Dostupné na: <https://doi.org/10.1007/s12649-019-00746-2>., Registrované v: WOS

2. [1.1] COSME, Fernanda - FERNANDES, Conceicao - RIBEIRO, Tania - FILIPE-RIBEIRO, Luis - NUNES, Fernando M. White Wine Protein Instability: Mechanism, Quality Control and Technological Alternatives for Wine Stabilisation-An Overview. In BEVERAGES. ISSN 2306-5710, 2020, vol. 6, no. 1, pp. Dostupné na: <https://doi.org/10.3390/beverages6010019>., Registrované v: WOS

3. [1.1] DUBA, Adrian - GORIEWA-DUBA, Klaudia - WACHOWSKA, Urszula. A Review of the Interactions between Wheat and Wheat Pathogens: *Zymoseptoria tritici*, *Fusarium* spp. and *Parastagonospora nodorum*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS

4. [1.1] ELHASI, Tarek - BLOMBERG, Anders. Integrins in disguise mechanosensors in *Saccharomyces cerevisiae* as functional integrin analogues. In MICROBIAL CELL. ISSN 2311-2638, 2019, vol. 6, no. 8, pp. 335-355., Registrované v: WOS

5. [1.1] GEOGHEGAN, Ivey - STEINBERG, Gero - GURR, Sarah. The Role of the Fungal Cell Wall in the Infection of Plants. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, 2017, vol. 25, no. 12, pp. 957-967., Registrované v: WOS

6. [1.1] GOW, Neil A. R. - LATGE, Jean-Paul - MUNRO, Carol A. The Fungal Cell Wall: Structure, Biosynthesis, and Function. In MICROBIOLOGY SPECTRUM, 2017, vol. 5, no. 3, pp., Registrované v: WOS

7. [1.1] HESHOF, Ruud - VISSCHER, Bram - VAN DE ZILVER, Eric - VAN DE VONDERVOORT, Rick - VAN KEULEN, Femke - DELAHAIJE, Roy J. B. M. - WIND, Richele D. Production of tailor-made enzymes to facilitate lipid extraction from the oleaginous yeast *Schwanniomyces occidentalis*. In AMB

- EXPRESS. ISSN 2191-0855, 2020, vol. 10, no. 1, pp. Dostupné na:
<https://doi.org/10.1186/s13568-020-00974-z>., Registrované v: WOS
8. [1.1] CHENG, Xingkai - JI, Xiaoxue - GE, Yanzhen - LI, Jingjing - QI, Wenzhe - QIAO, Kang. Characterization of Antagonistic *Bacillus methylotrophicus* Isolated From Rhizosphere and Its Biocontrol Effects on Maize Stalk Rot. In PHYTOPATHOLOGY. ISSN 0031-949X, 2019, vol. 109, no. 4, pp. 571-581., Registrované v: WOS
9. [1.1] CHEN, Miaomiao - WANG, Likun - HOU, Junliang - YANG, Shushen - ZHENG, Xin - CHEN, Liang - LI, Xiaofang. Mycoextraction: Rapid Cadmium Removal by Macrofungi-Based Technology from Alkaline Soil. In MINERALS, 2018, vol. 8, no. 12, pp., Registrované v: WOS
10. [1.1] KANG, Liqin - ZHANG, Xingwei - LIU, Xiao - WANG, Rui - LIU, Cuicui - ZHOU, Jiangsheng - LIU, Zhonghua - YUAN, Sheng. Comparative study of beta-glucan-degrading enzymes from *Coprinopsis cinerea* for their capacities to induce stipe cell wall extension. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 152, no., pp. 516-524. Dostupné na:
<https://doi.org/10.1016/j.ijbiomac.2020.02.299>., Registrované v: WOS
11. [1.1] KANG, Liqin - ZHOU, Jiangsheng - WANG, Rui - ZHANG, Xingwei - LIU, Cuicui - LIU, Zhonghua - YUAN, Sheng. Glucanase-Induced Stipe Wall Extension Shows Distinct Differences from Chitinase-Induced Stipe Wall Extension of *Coprinopsis cinerea*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 21, pp., Registrované v: WOS
12. [1.1] KANG, Liqin - ZHU, Yiting - BAI, Yang - YUAN, Sheng. Characteristics, transcriptional patterns and possible physiological significance of glycoside hydrolase family 16 members in *Coprinopsis cinerea*. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, 2019, vol. 366, no. 7, pp., Registrované v: WOS
13. [1.1] LIU, Xiao - WANG, Rui - BI, Jingjing - KANG, Liqin - ZHOU, Jiangsheng - DUAN, Baiyun - LIU, Zhonghua - YUAN, Sheng. A novel endo-beta-1,6-glucanase from the mushroom *Coprinopsis cinerea* and its application in studying of cross-linking of beta-1,6-glucan and the wall extensibility in stipe cell walls. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 160, no., pp. 612-622. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.244>., Registrované v: WOS
14. [1.1] LIU, Yang - CHEN, Jiareng - CUI, Bin - YIN, Pengfei - ZHANG, Chao. Design and Preparation of Biomass-Derived Carbon Materials for Supercapacitors: A Review. In C-JOURNAL OF CARBON RESEARCH, 2018, vol. 4, no. 4, pp., Registrované v: WOS
15. [1.1] PEREZ-LLANO, Yordanis - CARIDAD RODRIGUEZ-PUPO, Eya - DRUZHININA, Irina S. - CHENTHAMARA, Komal - CAI, Feng - GUNDE-CIMERMAN, Nina - ZALAR, Polona - GOSTINCAR, Cene - KOSTANJSEK, Rok - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria. Stress Reshapes the Physiological Response of Halophile Fungi to Salinity. In CELLS, 2020, vol. 9, no. 3, pp. Dostupné na:
<https://doi.org/10.3390/cells9030525>., Registrované v: WOS
16. [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike -

- BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207., Registrované v: WOS
17. [1.1] SINGH, Anu - DUTTA, P. K. Green synthesis, characterization and biological evaluation of chitin glucan based zinc oxide nanoparticles and its curcumin conjugation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 156, no., pp. 514-521. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.081>., Registrované v: WOS
18. [1.1] STEINFELD, Lea - VAFAEI, Ali - ROESNER, Janin - MERZENDORFER, Hans. Chitin Prevalence and Function in Bacteria, Fungi and Protists. In *TARGETING CHITIN-CONTAINING ORGANISMS*. ISSN 0065-2598, 2019, vol. 1142, no., pp. 19-59., Registrované v: WOS
19. [1.1] THOMAS, Paul - LAI, Chin Wei - BIN JOHAN, Mohd Rafie. Recent developments in biomass-derived carbon as a potential sustainable material for super-capacitor-based energy storage and environmental applications. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, 2019, vol. 140, no., pp. 54-85., Registrované v: WOS
20. [1.1] UEKI, Atsuko - TAKEHARA, Toshiaki - ISHIOKA, Gen - KAKU, Nobuo - UEKI, Katsuji. Production of beta-1,3-glucanase and chitosanase from clostridial strains isolated from the soil subjected to biological disinfestation. In *AMB EXPRESS*. ISSN 2191-0855, 2019, vol. 9, no., pp., Registrované v: WOS
21. [1.1] UEKI, Atsuko - TAKEHARA, Toshiaki - ISHIOKA, Gen - KAKU, Nobuo - UEKI, Katsuji. beta-1,3-Glucanase production as an anti-fungal enzyme by phylogenetically different strains of the genus *Clostridium* isolated from anoxic soil that underwent biological disinfestation. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 12, pp. 5563-5578. Dostupné na: <https://doi.org/10.1007/s00253-020-10626-8>., Registrované v: WOS
22. [1.1] URBAR-ULLOA, Jesus - MONTANO-SILVA, Paul - SOFIA RAMIREZ-PELAYO, Ana - FERNANDEZ-CASTILLO, Elisa - AMAYA-DELGADO, Lorena - RODRIGUEZ-GARAY, Benjamin - VERDIN, Jorge. Cell surface display of proteins on filamentous fungi. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 17, pp. 6949-6972., Registrované v: WOS
23. [1.1] WANG, Jiashuai - ZHANG, Xiao - LI, Zhe - MA, Yanqing - MA, Lei. Recent progress of biomass-derived carbon materials for supercapacitors. In *JOURNAL OF POWER SOURCES*. ISSN 0378-7753, 2020, vol. 451, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.227794>., Registrované v: WOS
24. [1.1] ZHOU, Jiangsheng - KANG, Liqin - LIU, Cuicui - NIU, Xin - WANG, Xiaojun - LIU, Hailong - ZHANG, Wenming - LIU, Zhonghua - LATGE, Jean-Paul - YUAN, Sheng. Chitinases Play a Key Role in Stipe Cell Wall Extension in the Mushroom *Coprinopsis cinerea*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2019, vol. 85, no. 15, pp., Registrované v: WOS

25. [1.2] LEE, Keunsook K. - KUBO, Karen - ABDELAZIZ, Jehan Abdelmoneim - CUNNINGHAM, Iain - DE SILVA DANTAS, Alessandra - CHEN, Xiaolin - OKADA, Hiroki - OHYA, Yoshikazu - GOW, Neil A.R. Yeast species-specific, differential inhibition of β -1,3-glucan synthesis by poacic acid and caspofungin. In *Cell Surface*, 2018-09-01, 3, pp. 12-25., Registrované v: SCOPUS
26. [1.2] ORLEAN, Peter - FUNAI, Danielle. Priming and elongation of chitin chains: Implications for chitin synthase mechanism. In *Cell Surface*, 2019-12-01, 5, pp., Registrované v: SCOPUS
27. [1.2] POPOLO, Laura - DEGANI, Genny - CAMILLONI, Carlo - FONZI, William A. The PHR family: The role of extracellular transglycosylases in shaping *Candida albicans* cells. In *Journal of Fungi*, 2017-12-01, 3, 4, pp., Registrované v: SCOPUS
28. [1.2] VAN LEEUWE, Tim M. - ARENTSHORST, Mark - ERNST, Tim - ALAZI, Ebru - PUNT, Peter J. - RAM, Arthur F.J. Efficient marker free CRISPR/Cas9 genome editing for functional analysis of gene families in filamentous fungi. In *Fungal Biology and Biotechnology*, 2019-09-21, 6, 1, pp., Registrované v: SCOPUS
29. [1.2] VERDÍN, Jorge - SÁNCHEZ-LEÓN, Eddy - RICO-RAMÍREZ, Adriana M. - MARTÍNEZ-NÚÑEZ, Leonora - FAJARDO-SOMERA, Rosa A. - RIQUELME, Meritxell. Off the wall: The rhyme and reason of *Neurospora crassa* hyphal morphogenesis. In *Cell Surface*, 2019-12-01, 5, pp., Registrované v: SCOPUS

ADCA34 ARUMUGAM, Nanthakumar - BIELY, Peter - PUCHART, Vladimír - SINGH, Suren - PILLAI, Santhosh*. Structure of peanut shell xylan and its conversion to oligosaccharides. In *Process Biochemistry*, 2018, vol. 72, p. 124-129. (2017: 2.616 - IF, Q2 - JCR, 0.761 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1359-5113. Dostupné na: <https://doi.org/10.1016/j.procbio.2018.06.024>

Ohlasy:

1. [1.1] CAROLYN, J. Schultz - LIM, Wai L. - KHOR, Shi F. - NEUMANN, Kylie A. - SCHULZ, Jakob M. - ANSARI, Omid - SKEWES, Mark A. - BURTON, Rachel A. Consumer and health-related traits of seed from selected commercial and breeding lines of industrial hemp, *Cannabis sativa* L. In *JOURNAL OF AGRICULTURE AND FOOD RESEARCH*. ISSN 2666-1543, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.jafr.2020.100025>., Registrované v: WOS
2. [1.1] SORITA, Guilherme Dallarmi - LEIMANN, Fernanda Vitoria - SALVADOR FERREIRA, Sandra Regina. Biorefinery approach: Is it an upgrade opportunity for peanut by-products? In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 105, no., pp. 56-69. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.08.011>., Registrované v: WOS
3. [1.1] YAMAMOTO, Yohei - KISHIMURA, Hideki - KINOSHITA, Yasunori - SABURI, Wataru - KUMAGAI, Yuya - YASUI, Hajime - OJIMA, Takao. Enzymatic production of xylooligosaccharides from red alga dulse (*Palmaria* sp.) wasted in Japan. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2019, vol. 82, no., pp. 117-122., Registrované v: WOS
4. [1.1] ZEUNER, Birgitte - MEYER, Anne S. Enzymatic transfructosylation for synthesis of human milk oligosaccharides. In

CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 493, no., pp.
Dostupné na: <https://doi.org/10.1016/j.carres.2020.108029>., Registrované v: WOS

5. [1.1] ZEUNER, Birgitte - TEZE, David - MUSCHOL, Jan - MEYER, Anne S. Synthesis of Human Milk Oligosaccharides: Protein Engineering Strategies for Improved Enzymatic Transglycosylation. In MOLECULES, 2019, vol. 24, no. 11, pp., Registrované v: WOS

6. [1.1] ZHOU, Chufan - WANG, Yixiang. Recent progress in the conversion of biomass wastes into functional materials for value-added applications. In SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS. ISSN 1468-6996, 2020, vol. 21, no. 1, pp. 787-804. Dostupné na: <https://doi.org/10.1080/14686996.2020.1848213>., Registrované v: WOS

ADCA35 ARUMUGAM, Nathakumar - BIELY, Peter - PUCHART, Vladimír - GERRANO, Abe Shegro - DE MUKHERJEE, Koel - SINGH, Suren - PILLAI, Santhosh**. Xylan from bambara and cowpea biomass and their structural elucidation. In *International Journal of Biological Macromolecules*, 2019, vol. 132, p. 987-993. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.04.030>

Ohlasy:

1. [1.1] BOTTO, Emiliana - GIOIA, Larissa - DEL PILAR MENENDEZ, Maria - RODRIGUEZ, Paula. Pseudozyma sp. isolation from Eucalyptus leaves and its hydrolytic activity over xylan. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 21, no., pp., Registrované v: WOS

2. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS

ADCA36 ASPINALL, G.O. - CAPEK, Peter - CARPENTER, R.C. - GOWDA, D.CH. - SZAFRANEK, J. A novel L-fuco-4-O-methyl-D-glucorono-D-xylan from Hyptis suaveolens. In *Carbohydrate Research*, 1991, vol. 214, p. 107-113. (1991 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)90534-2](https://doi.org/10.1016/S0008-6215(00)90534-2)

Ohlasy:

1. [1.1] ACUNA-GUTIERREZ, Catalina - CAMPOS-BOZA, Stefanny - HERNANDEZ-PRIDYBAILO, Andres - JIMENEZ, Victor M. Nutritional and Industrial Relevance of Particular Neotropical Pseudo-cereals. In FOOD TECH TRANSITIONS: RECONNECTING AGRI-FOOD, TECHNOLOGY AND SOCIETY, 2019, vol., no., pp. 65-79., Registrované v: WOS

2. [1.1] CRUZ-RUBIO, Jose Manuel - LOEPPERT, Renate - VIERNSTEIN, Helmut - PRAZNIK, Werner. Trends in the Use of Plant Non-Starch Polysaccharides within Food, Dietary Supplements, and Pharmaceuticals: Beneficial Effects on Regulation and Wellbeing of the Intestinal Tract. In SCIENTIA PHARMACEUTICA. ISSN 0036-8709, 2018, vol. 86, no. 4, pp., Registrované v: WOS

3. [1.1] LI, Rong - TANG, Gengqiu - LIU, Xile - LI, Junni - WANG, Dong - JI, Shengguo. An ethnopharmacological review of *Hyptis suaveolens* (L.) Poit. In *TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 1596-5996, 2020, vol. 19, no. 7, pp. 1541-1550. Dostupné na: <https://doi.org/10.4314/tjpr.v19i7.29>., Registrované v: WOS
4. [1.1] MUELLER, Monika - CAVARKAPA, Andrea - UNGER, Frank M. - VIERNSTEIN, Helmut - PRAZNIK, Werner. Prebiotic potential of neutral oligo- and polysaccharides from seed mucilage of *Hyptis suaveolens*. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 508-514., Registrované v: WOS
5. [1.1] OMOSA, Leonidah K. - MIDIWO, Jacob O. - MASILA, Veronica M. - GISACHO, Boniface M. - MUNAYI, Renee - FRANCISCA-KAMAKAMA - CHEMUTAI, Kitur Phylis - ELHABOOB, Gihan - SAEED, Mohamed E. M. - HAMDOUN, Sami - KUETE, Victor - EFFERTH, Thomas. Cytotoxicity of 91 Kenyan indigenous medicinal plants towards human CCRF-CEM leukemia cells. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2016, vol. 179, no., pp. 177-196., Registrované v: WOS
6. [1.1] PABLO PEREZ-OROZCO, Juan - MONICA SANCHEZ-HERRERA, Leticia - ISELA ORTIZ-BASURTO, Rosa. Effect of concentration, temperature, pH, co-solutes on the rheological properties of *Hyptis suaveolens* L. mucilage dispersions. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2019, vol. 87, no., pp. 297-306., Registrované v: WOS
7. [1.1] PRAZNIK, Werner - CAVARKAPA, Andrea - UNGER, Frank M. - LOEPPERT, Renate - HOLZER, Wolfgang - VIERNSTEIN, Helmut - MUELLER, Monika. Molecular dimensions and structural features of neutral polysaccharides from the seed mucilage of *Hyptis suaveolens* L. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1997-2004., Registrované v: WOS
8. [1.2] Hao, Z., & Mohnen, D. (2014). A review of xylan and lignin biosynthesis: Foundation for studying arabidopsis irregular xylem mutants with pleiotropic phenotypes. *Critical Reviews in Biochemistry and Molecular Biology*, 49(3), 212-241, Registrované v: SCOPUS

ADCA37 AUXTOVA-SAMAJOVA, O. - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - KUBAČKOVÁ, M. - KARACSONYI, S. - BILISICS, Ladislav. Effect of galactoglucomannan-derived oligosaccharides on elongation growth of pea and spruce stem segments stimulated by auxin. In *Planta*, 1995, vol. 196, p. 420-424. Dostupné na: <https://doi.org/10.1007/BF00203638>

Ohlasy:

1. [1.1] ASGHER, Mohd. - KHAN, M. Iqbal R. - ANJUM, Naser A. - KHAN, Nafees A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In *PROTOPLASMA*. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 399-413., Registrované v: WOS

ADCA38 AUXTOVA-SAMAJOVA, O. - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - KUBAČKOVÁ, M. - KARACSONYI, S. - BILISICS, Ladislav. Inhibition of auxin stimulated short-term elongation growth of pea stem segments by galactoglucomannan-derived oligosaccharides. In *Journal of Plant Physiology : Biochemistry, Physiology and Molecular Biology of Plants*, 1996, vol. 147, p. 611-613. ISSN 0176-1617.

Ohlasy:

1. [1.1] LARSKAYA, I. A. - GORSHKOVA, T. A. Plant oligosaccharides outsiders among elicitors? In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2015, vol. 80, no. 7, pp. 881-900., Registrované v: WOS
2. [1.1] LARSKAYA, I. A. - GORSHKOV, O. - TROFIMOVA, O. - GORSHKOVA, T. A. The Influence of Effectors of the Ca(2+) Signaling System and Oligosaccharin OSRG on IAA-Induced Formation of Adventitious Roots on Explants of Buckwheat Hypocotyls. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2020, vol. 67, no. 4, pp. 626-635. Dostupné na: <https://doi.org/10.1134/S1021443720040111>., Registrované v: WOS
3. [1.1] Larskaya, I.A.; Gorshkova, T.A.: Растительные олигосахариды: аутсайдеры среди элиситоров? (обзор). In: BIOCHEMISTRY (MOSCOW) Source: Биохимия Volume: 80 Issue: 7 Pages: 1049-1071, Registrované v: WOS

ADCA39 BABINCOVÁ, Melánia - BAČOVÁ, Zuzana - MACHOVÁ, Eva - KOGAN, Grigorij. Antioxidant properties of carboxymethyl glucan: Comparative analysis. In *Journal of Medicinal Food : Official Journal of the Korean Society of Food Science and Nutrition*, 2002, vol. 5, p. 79-83. ISSN 1096-620X.

Ohlasy:

1. [1.1] CARVALHO-GALVAO, Alynne - GADELHA, Danilo D. A. - DE BRITO ALVES, Jose L. - KHAN, Barkat A. - CASTRO-GOMEZ, Raul J. H. - CRUZ, Josiane C. - MAGNANI, Marciane - BRAGA, Valdir A. A Newly Isolated Carboxymethyl-Glucan (CM-G) Restores Depressed Baroreflex Sensitivity in Renovascular Hypertensive Rats. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] CETIN, Ebru. Pretreatment with glucan attenuates isoprenaline-induced myocardial injury in rats. In EXPERIMENTAL PHYSIOLOGY. ISSN 0958-0670, 2019, vol. 104, no. 4, pp. 505-513., Registrované v: WOS
3. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats. In BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS
4. [1.1] DA SILVA ARAUJO, Vilma Barbosa - FERREIRA DE MELO, Adma Nadja - DE SOUZA, Neyrijane Targino - BARBOZA DA SILVA, Vania Maria - CASTRO-GOMEZ, Raul H. - SILVA, Alexandre Sergio - DE SOUZA, Evandro Leite - MAGNANI, Marciane. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 8, pp. 14950-14958., Registrované v: WOS
5. [1.1] FAIZI, Mehrdad - SALIMI, Ahmad - SEYDI, Enayatolla - NASERZADEH, Parvaneh - KOUHNAVARD, Mehdi - RAHIMI, Atena - POURAHMAD, Jalal. Toxicity of cuprizone a Cu²⁺ chelating agent on isolated mouse brain mitochondria: a justification for demyelination and subsequent behavioral dysfunction. In TOXICOLOGY MECHANISMS AND METHODS. ISSN 1537-6516, 2016, vol. 26, no. 4, pp. 276-283., Registrované v: WOS
6. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer

Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS

7. [1.1] FRANCIOSO, Antonio - DINARELLI, Simone - GIRASOLE, Marco - CERVONI, Laura - D'ERME, Maria - MURA, Francesco - BOFFI, Alberto - MONTANARI, Elita - MOSCA, Luciana. Behind Resveratrol Stabilization by Carboxymethylated (1,3/1,6)-beta-D-Glucan: Does the Polyphenol Play a Role in Polymer Structural Organization? In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS

8. [1.1] GULZAR, Saqib - BENJAKUL, Soottawat - HOZZEIN, Wael N. Impact of beta-glucan on debittering, bioaccessibility and storage stability of skim milk fortified with shrimp oil nanoliposomes. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2020, vol. 55, no. 5, pp. 2092-2103., Registrované v: WOS

9. [1.1] KAHRIZI, Farzad - SALIMI, Ahmad - NOORBAKHSH, Farshid - FAIZI, Mehrdad - MEHRI, Freshteh - NASERZADEH, Parvaneh - NADERI, Nima - POURAHMAD, Jalal. Repeated Administration of Mercury Intensifies Brain Damage in Multiple Sclerosis through Mitochondrial Dysfunction. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2016, vol. 15, no. 4, pp. 835-841., Registrované v: WOS

10. [1.1] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 572-579., Registrované v: WOS

11. [1.1] LIU, Fang - WANG, Zhuanzi - LI, Wenjian - ZHOU, Libin - DU, Yan - ZHANG, Miaomiao - WEI, Yanting. The mechanisms for the radioprotective effect of beta-D-glucan on high linear-energy-transfer carbon ion irradiated mice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 282-292., Registrované v: WOS

12. [1.1] MADRIGAL-BUJADAR, Eduardo - ANTONIO MORALES-GONZALEZ, Jose - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - REYES-ARELLANO, Alicia - ALVAREZ-GONZALEZ, Isela - PEREZ-PASTEN, Ricardo - MADRIGAL-SANTILLAN, Eduardo. Prevention of Aflatoxin B-1-Induced DNA Breaks by beta-D-Glucan. In TOXINS, 2015, vol. 7, no. 6, pp. 2145-2158., Registrované v: WOS

13. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJADAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLEDO, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS

14. [1.1] MEHRI, Freshteh - FAIZI, Mehrdad - SALIMI, Ahmad - SEYDI, Enayatollah - POURAHMAD, Jalal. Toxicity of 4-methylimidazole on isolated brain mitochondria: using both in vivo and in vitro methods. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2015, vol. 97, no. 5, pp. 663-673., Registrované v: WOS
15. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. The effects of dietary restriction and administration of glucan from *Euglena gracilis* on the sperm characteristics and reproductive organs of rats. In ANDROLOGIA. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS
16. [1.1] SRINIVAS, Kota - MURALIKRISHNA, Narra - KUMAR, Kalva Bharath - RAGHU, Ellendula - MAHENDER, Aileni - KIRANMAYEE, Kasula - YASHODAHARA, Velivela - SADANANDAM, Abbagani. Biolistic transformation of *Scoparia dulcis* L. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2016, vol. 22, no. 1, pp. 61-68., Registrované v: WOS
17. [1.2] KOC, F. - ERISGIN, Z. - TEKELIOGLU, Y. - TAKIR, S. The effect of beta glucan on MTX induced testicular damage in rats. In Biotechnic and Histochemistry. ISSN 10520295, 2018-01-02, 93, 1, pp. 70-75., Registrované v: SCOPUS
18. [1.2] MAHESHWARI, Gunjan - SOWRIRAJAN, Sumathi - JOSEPH, Baby. β -Glucan, a dietary fiber in effective prevention of lifestyle diseases – An insight. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2019-07-01, 19, pp., Registrované v: SCOPUS

ADCA40 BABINCOVÁ, Melánia - MACHOVÁ, Eva - KOGAN, Grigorij.

Carboxymethylated glucan inhibits lipid peroxidation in liposomes. In *Zeitschrift für Naturforschung C*, 1999, vol. 54, p. 1084-1088. ISSN 0939-5075.

Ohlasy:

1. [1.1] FAIZI, Mehrdad - SALIMI, Ahmad - SEYDI, Enayatollah - NASERZADEH, Parvaneh - KOUHNAVARD, Mehdi - RAHIMI, Atena - POURAHMAD, Jalal. Toxicity of cuprizone a Cu^{2+} chelating agent on isolated mouse brain mitochondria: a justification for demyelination and subsequent behavioral dysfunction. In TOXICOLOGY MECHANISMS AND METHODS. ISSN 1537-6516, 2016, vol. 26, no. 4, pp. 276-283., Registrované v: WOS
2. [1.1] KAHRIZI, Farzad - SALIMI, Ahmad - NOORBAKHSH, Farshid - FAIZI, Mehrdad - MEHRI, Freshteh - NASERZADEH, Parvaneh - NADERI, Nima - POURAHMAD, Jalal. Repeated Administration of Mercury Intensifies Brain Damage in Multiple Sclerosis through Mitochondrial Dysfunction. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2016, vol. 15, no. 4, pp. 835-841., Registrované v: WOS
3. [1.1] LI, X. H. - CHEN, Y. P. - CHENG, Y. F. - YANG, W. L. - WEN, C. - ZHOU, Y. M. Effect of yeast cell wall powder with different particle sizes on the growth performance, serum metabolites, immunity and oxidative status of broilers. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2016, vol. 212, no., pp. 81-89., Registrované v: WOS
4. [1.1] MEHRI, Freshteh - FAIZI, Mehrdad - SALIMI, Ahmad - SEYDI, Enayatollah - POURAHMAD, Jalal. Toxicity of 4-methylimidazole on isolated brain mitochondria: using both in vivo and in vitro methods. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN

0277-2248, 2015, vol. 97, no. 5, pp. 663-673., Registrované v: WOS
5. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying -
ZHOU, Lu - HUANG, Shiqi - LI, Hui. The antioxidant activities of six (1>
3)-beta-D-glucan derivatives prepared from yeast cell wall. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS

ADCA41 BABINCOVA, M. - ALTANEROVÁ, Veronika - LAMPERT, M. -
ALTANER, Čestmír - MACHOVÁ, Eva - ŠRÁMKA, M. - BABINEC, P.
Site-specific in vivo targeting of magnetoliposomes using externally applied
magnetic field. In *Zeitschrift für Naturforschung C - A Journal of biosciences*, 2000,
vol. 55, no. 3-4, p. 278-281.

Ohlasy:

1. [1.1] FRAZIER, Nick - GHANDEHARI, Hamidreza. Hyperthermia
approaches for enhanced delivery of nanomedicines to solid tumors. In
BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol.
112, no. 10, pp. 1967-1983., Registrované v: WOS
2. [1.1] OMOSA, Leonidah K. - MIDIWO, Jacob O. - MASILA,
Veronica M. - GISACHO, Boniface M. - MUNAYI, Renee -
FRANCISCA-KAMAKAMA - CHEMUTAI, Kitur Phylis - ELHABOOB, Gihan
- SAEED, Mohamed E. M. - HAMDOUN, Sami - KUETE, Victor - EFFERTH,
Thomas. Cytotoxicity of 91 Kenyan indigenous medicinal plants towards human
CCRF-CEM leukemia cells. In JOURNAL OF ETHNOPHARMACOLOGY.
ISSN 0378-8741, 2016, vol. 179, no., pp. 177-196., Registrované v: WOS
3. [1.1] YINGCHONCHAROEN, Phatsapong - KALINOWSKI, Danuta
S. - RICHARDSON, Des R. Lipid-Based Drug Delivery Systems in Cancer
Therapy: What Is Available and What Is Yet to Come. In
PHARMACOLOGICAL REVIEWS. ISSN 0031-6997, 2016, vol. 68, no. 3, pp.
701-787., Registrované v: WOS
4. [1.2] KUMAR, Vijay. Target-oriented drug delivery systems. In
Modern Pharmaceutics: Fifth Edition, 2016-04-19, 2-2, pp. 329-398.,
Registrované v: SCOPUS
5. [1.2] SWAIN, Suryakanta - PATRA, Chinam Niranjana - RAO,
Muddana Eswara - SAHU, Prafulla Kumar. Magnetically modulated drug
delivery systems. In Pharmaceutical Drug Delivery Systems and Vehicles,
2016-02-03, pp. 267-296., Registrované v: SCOPUS

ADCA42 BAGAG, A. - LAPRÉVOTE, O. - HIRSCH, Ján - KOVÁČIK, Vladimír.
Atmospheric pressure photoionization mass spectrometry of per-O-methylated
oligosaccharides related to D-xylans. In *Carbohydrate Research*, 2008, vol. 343, ., p.
2813-2818. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, Current Contents -
CCC). (2008 - Current Contents). ISSN 0008-6215. Dostupné na:
<https://doi.org/10.1016/j.carres.2008.05.024>

Ohlasy:

1. [1.1] KAUPPILA, Tiina J. - SYAGE, Jack A. - BENTER, Thorsten.
RECENT DEVELOPMENTS IN ATMOSPHERIC PRESSURE
PHOTOIONIZATION-MASS SPECTROMETRY. In MASS
SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp.
423-449., Registrované v: WOS

ADCA43 BACHANOVA, K. - KLAUDINY, Jaroslav - KOPERNICKY, J. - ŠIMÚTH, Jozef. Identification of honeybee peptide active against *Paenibacillus* larvae larvae through bacterial growth-inhibition assay on polyacrylamide gel. In *Apidologie*, 2002, vol. 33, p. 259-269. ISSN 0044-8435. Dostupné na: <https://doi.org/10.1051/apido:2002015>

Ohlasy:

1. [1.1] BUCEKOVA, Marcela - BURIOVA, Monika - PEKARIK, Ladislav - MAJTAN, Viktor - MAJTAN, Juraj. Phytochemicals-mediated production of hydrogen peroxide is crucial for high antibacterial activity of honeydew honey. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BUCEKOVA, Marcela - JURICOVA, Valeria - MONTON, Enrique - MARTINOTTI, Simona - RANZATO, Elia - MAJTAN, Juraj. Microwave processing of honey negatively affects honey antibacterial activity by inactivation of bee-derived glucose oxidase and defensin-1. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 240, no., pp. 1131-1136., Registrované v: WOS
3. [1.1] BUCEKOVA, Marcela - BUGAROVA, Veronika - GODOCIKOVA, Jana - MAJTAN, Juraj. Demanding New Honey Qualitative Standard Based on Antibacterial Activity. In *FOODS*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091263>., Registrované v: WOS
4. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] DANIHLIK, Jiri - ARONSTEIN, Kate - PETRIVALSKY, Marek. Antimicrobial peptides: a key component of honey bee innate immunity Physiology, biochemistry, and chemical ecology. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2015, vol. 54, no. 2, pp. 123-136., Registrované v: WOS
6. [1.1] ELHAG, Osama - ZHOU, Dingzhong - SONG, Qi - SOOMRO, Abdul Aziz - CAI, Minmin - ZHENG, Longyu - YU, Ziniu - ZHANG, Jibin. Screening, Expression, Purification and Functional Characterization of Novel Antimicrobial Peptide Genes from *Hermetia illucens* (L.). In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
7. [1.1] ERLER, Silvio - MORITZ, Robin F. A. Pharmacophagy and pharmacophory: mechanisms of self-medication and disease prevention in the honeybee colony (*Apis mellifera*). In *APIDOLOGIE*. ISSN 0044-8435, 2016, vol. 47, no. 3, pp. 389-411., Registrované v: WOS
8. [1.1] HUSSAIN, Muhammad Barkaat. Role of Honey in Topical and Systemic Bacterial Infections. In *JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE*. ISSN 1075-5535, 2018, vol. 24, no. 1, pp. 15-24., Registrované v: WOS
9. [1.1] JONCZYK-MATYSIAK, Ewa - POPIELA, Ewa - OWCZAREK, Barbara - HODYRA-STEFANIAK, Katarzyna - SWITALA-JELEN, Kinga - LODEJ, Norbert - KULA, Dominika - NEUBERG, Joanna - MIGDAL, Pawel - BAGINSKA, Natalia - ORWAT, Filip - WEBER-DABROWSKA, Beata - ROMAN, Adam - GORSKI, Andrzej. Phages in Therapy and Prophylaxis of American Foulbrood Recent Implications From Practical Applications. In *FRONTIERS IN MICROBIOLOGY*. ISSN

1664-302X, 2020, vol. 11, no., pp. Dostupné na:

<https://doi.org/10.3389/fmicb.2020.01913>., Registrované v: WOS

10. [1.1] KHILNANI, Jasmin C. - WING, Helen J. Protocols to test the activity of antimicrobial peptides against the honey bee pathogen *Paenibacillus* larvae. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, 2015, vol. 117, no., pp. 54-56., Registrované v: WOS

11. [1.1] KRONGDANG, Sasiprapa - EVANS, Jay D. - CHEN, Yanping - MOOKHPLOY, Wannapha - CHANTAWANNAKUL, Panuwan. Comparative susceptibility and immune responses of Asian and European honey bees to the American foulbrood pathogen, *Paenibacillus* larvae. In INSECT SCIENCE. ISSN 1672-9609, 2019, vol. 26, no. 5, pp. 831-842., Registrované v: WOS

12. [1.1] MARIA ALONSO-SALCES, Rosa - MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - AUBONE, Ines - GISELLE DE PIANO, Fiorella - ANTUNEZ, Karina - ROSA FUSELLI, Sandra. Natural strategies for the control of *Paenibacillus* larvae, the causative agent of American foulbrood in honey bees: a review. In APIDOLOGIE. ISSN 0044-8435, 2017, vol. 48, no. 3, pp. 387-400., Registrované v: WOS

13. [1.1] MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - ROSA FUSELLI, Sandra - MARIA ALONSO-SALCES, Rosa. OPTIMAL CONCENTRATION OF ORGANIC SOLVENTS TO BE USED IN THE BROTH MICRODILUTION METHOD TO DETERMINE THE ANTIMICROBIAL ACTIVITY OF NATURAL PRODUCTS AGAINST *PAENIBACILLUS* LARVAE. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, 2017, vol. 61, no. 1, pp. 37-53., Registrované v: WOS

14. [1.1] MOKAYA, Hosea O. - NJERU, Loise K. - LATTORFF, H. Michael G. African honeybee royal jelly: Phytochemical contents, free radical scavenging activity, and physicochemical properties. In FOOD BIOSCIENCE. ISSN 2212-4292, 2020, vol. 37, no., pp. Dostupné na:

<https://doi.org/10.1016/j.fbio.2020.100733>., Registrované v: WOS

15. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In JOURNAL OF TISSUE VIABILITY. ISSN 0965-206X, 2016, vol. 25, no. 2, pp. 98-118., Registrované v: WOS

16. [1.2] FUSELLI, Sandra Rosa - CUGNATA, Noelia Melina - MARÍNEZ, Pablo Giménez - ALONSO-SALCES, Rosa María. Control and prevention of American foulbrood in honey bees. In Control and Prevention of American Foulbrood in Honey Bees, 2017-01-01, pp. 1-128., Registrované v: SCOPUS

17. [1.2] GROSSO, Guillermo Salamanca - TANGARIFE, Mónica Patricia Osorio - MÉNDEZ, Laura María Reyes. Physicochemical parameters of quality of royal jelly produced by *Apis mellifera* L. (Hymenoptera: Apidae), in Colombia. In Zootecnia Tropical. ISSN 07987269, 2015-01-01, 31, 4, pp. 311-324., Registrované v: SCOPUS

18. [1.2] KHAZAEI, Mozafar - ANSARIAN, Atefe - GHANBARI, Elham. New Findings on Biological Actions and Clinical Applications of Royal Jelly: A Review. In Journal of Dietary Supplements. ISSN 19390211, 2018-09-03, 15, 5, pp. 757-775., Registrované v: SCOPUS

19. [1.2] METWALLY IBRAHIM, Samah E.L. - KOSBA, Ayman Ahmed. Royal jelly supplementation reduces skeletal muscle lipotoxicity and insulin resistance in aged obese rats. In Pathophysiology. ISSN 09284680,

- 2018-12-01, 25, 4, pp. 307-315., Registrované v: SCOPUS
20. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In Bioengineering, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS
21. [1.2] RAMÓN-SIERRA, Jesús Manuel - MAGAÑA-ORTIZ, Denis Israel - RUIZ-RUIZ, Jorge Carlos - ORTIZ-VÁZQUEZ, Elizabeth. Antimicrobial activity of protein extracted from *Melipona Beecheii* honey. In Stingless Bee's Honey from Yucatan: Culture, Traditional Uses and Nutraceutical Potential, 2016-01-01, pp. 135-146., Registrované v: SCOPUS
22. [3.2] Alreshoodi, Fahad M.; Sultanbawa, Yasmina. Antimicrobial Activity of Royal Jelly. IN Anti-Infective Agents, 2015, vol. 13, Issue: 1, p. 50-59., Registrované v: BIOSIS Citation Index

ADCA44 BAILEY, Michael J. - BIELY, Peter - POUTANEN, K. Interlaboratory testing of methods for assay of xylanase activity. In *Journal of Biotechnology*, 1992, vol. 23, p. 257-270. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/0168-1656\(92\)90074-J](https://doi.org/10.1016/0168-1656(92)90074-J)

Ohlasy:

1. [1.1] ABD EL-NASSER, Nadia H. - EL-MAHDY, El Sayed M. - SHOSHA, Wafaa G. H. - EL SAYED, Gehad H. Isolation and Screening of Pectinolytic *Streptomyces* Sp. From Soil Samples of Egypt. In RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2018, vol. 9, no. 2, pp. 744-751., Registrované v: WOS
2. [1.1] ABDEL-SATER, Mohamed A. - HUSSEIN, Nemmat A. - FETAYAN, Nashwa A. - GAD, Sabreen A. Immobilization of Cellulases Produced by *Penicillium brevicompactum* AUMC 10987, using Cross-Linkage, Chitosan-Coating and Encapsulation. In CATRINA-THE INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1687-5052, 2019, vol. 18, no. 1, pp. 139-149., Registrované v: WOS
3. [1.1] ABID, Khalil - JABRI, Jihene - BECKERS, Yves - YAICH, Hela - MALEK, Atef - REKHIS, Jamel - KAMOUN, Mohamed. Influence of adding fibrolytic enzymes on the ruminal fermentation of date palm by-products. In ARCHIVES ANIMAL BREEDING. ISSN 0003-9438, 2019, vol. 62, no. 1, pp., Registrované v: WOS
4. [1.1] ABID, K. - JABRI, J. - BECKERS, Y. - YAICH, H. - MALEK, A. - REKHIS, J. - KAMOUN, M. Effects of exogenous fibrolytic enzymes on the ruminal fermentation of agro-industrial by-products. In SOUTH AFRICAN JOURNAL OF ANIMAL SCIENCE. ISSN 0375-1589, 2019, vol. 49, no. 4, pp. 612-618., Registrované v: WOS
5. [1.1] ABOAGYE, I. A. - LYNCH, J. P. - CHURCH, J. S. - BAAH, J. - BEAUCHEMIN, K. A. Digestibility and growth performance of sheep fed alfalfa hay treated with fibrolytic enzymes and a ferulic acid esterase producing bacterial additive. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2015, vol. 203, no., pp. 53-66., Registrované v: WOS
6. [1.1] ABRAHAM, Reinu E. - PURI, Munish. Nano-immobilized cellulases for biomass processing with application in biofuel production. In METHODS IN ENZYMOLOGY: NANOARMORING OF ENZYMES WITH CARBON NANOTUBES AND MAGNETIC NANOPARTICLES. ISSN 0076-6879, 2020, vol. 630, no., pp. 327-346. Dostupné na:

<https://doi.org/10.1016/bs.mie.2019.09.006>., Registrované v: WOS

7. [1.1] ADEMAKINWA, Adedeji Nelson - AGBOOLA, Femi Kayode. Kinetic and thermodynamic investigations of cell-wall degrading enzymes produced by *Aureobasidium pullulans* via induction with orange peels: application in lycopene extraction. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2019, vol. 49, no. 10, pp. 949-960., Registrované v: WOS

8. [1.1] ADHYARU, Dharmesh N. - BHATT, Nikhil S. - MODI, H. A. - DIVECHA, Jyoti. Cellulase-free-thermo-alkali-solvent-stable xylanase from *Bacillus altitudinis* DHN8: Over-production through statistical approach, purification and bio-deinking/ bio-bleaching potential. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 12, no., pp. 220-227., Registrované v: WOS

9. [1.1] ADHYARU, Dharmesh N. - BHATT, Nikhil S. - MODI, H. A. - DIVECHA, Jyoti. Insight on xylanase from *Aspergillus tubingensis* FDHN1: Production, high yielding recovery optimization through statistical approach and application. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 6, no., pp. 51-57., Registrované v: WOS

10. [1.1] ADIGUZEL, Gulsah - SONMEZ, Zeynep - ADIGUZEL, Ahmet - NADAROGLU, Hayrunnisa. Purification and characterization of a thermostable endo-beta-1,4 mannanase from *Weissella viridescens* LB37 and its application in fruit juice clarification. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2016, vol. 242, no. 5, pp. 769-776., Registrované v: WOS

11. [1.1] AGYEKUM, A. K. - KIARIE, E. - WALSH, M. C. - NYACHOTI, C. M. Postprandial portal glucose and lactate fluxes, insulin production, and portal vein-drained viscera oxygen consumption in growing pigs fed a high-fiber diet supplemented with a multi-enzyme cocktail. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2016, vol. 94, no. 9, pp. 3760-3770., Registrované v: WOS

12. [1.1] AGYEKUM, A. K. - KIARIE, E. - WALSH, M. C. - NYACHOTI, C. M. Postprandial portal fluxes of essential amino acids, volatile fatty acids, and urea-nitrogen in growing pigs fed a high-fiber diet supplemented with a multi-enzyme cocktail. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2016, vol. 94, no. 9, pp. 3771-3785., Registrované v: WOS

13. [1.1] AGYEKUM, A. K. - SANDS, J. S. - REGASSA, A. - KIARIE, E. - WEIHRAUCH, D. - KIM, W. K. - NYACHOTI, C. M. Effect of supplementing a fibrous diet with a xylanase and beta-glucanase blend on growth performance, intestinal glucose uptake, and transport-associated gene expression in growing pigs. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2015, vol. 93, no. 7, pp. 3483-3493., Registrované v: WOS

14. [1.1] AJIJOLAKEWU, Kamoldeen A. - LEHA, Cheu Peng - LEE, Chee Keong - NADIAH, Wan Abdullah Wan. Characterization of novel *Trichoderma* hemicellulase and its use to enhance downstream processing of lignocellulosic biomass to simple fermentable sugars. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 166-175., Registrované v: WOS

15. [1.1] AL LOMAN, Abdullah - ISLAM, S. M. Mahfuzul - LI, Qian - JU, Lu-Kwang. Enzyme recycle and fed-batch addition for high-productivity soybean flour processing to produce enriched soy protein and concentrated

- hydrolysate of fermentable sugars. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 241, no., pp. 252-261., Registrované v: WOS
16. [1.1] AL LOMAN, Abdullah - JU, Lu-Kwang. Towards complete hydrolysis of soy flour carbohydrates by enzyme mixtures for protein enrichment: A modeling approach. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 86, no., pp. 25-33., Registrované v: WOS
17. [1.1] ALI, Sameh Samir - WU, Jian - XIE, Rongrong - ZHOU, Feng - SUN, Jianzhong - HUANG, Miao. Screening and characterizing of xylanolytic and xylose-fermenting yeasts isolated from the wood-feeding termite, *Reticulitermes chinensis*. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 7, pp., Registrované v: WOS
18. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - JOSE NEGRO, Maria - BALLESTEROS, Ignacio - MIGUEL OLIVA, Jose - SAEZ, Felicia. Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 41-48., Registrované v: WOS
19. [1.1] ALVAREZ-NAVARRETE, M. - REYNA LOPEZ, G. E. - FLORES-GARCIA, A. - LOPEZ GOMEZ, R. - MARTINEZ-PACHECO, M. M. Selection and molecular identification of fungal isolates that produce xylanolytic enzymes. In GENETICS AND MOLECULAR RESEARCH. ISSN 1676-5680, 2015, vol. 14, no. 3, pp. 8100-8116., Registrované v: WOS
20. [1.1] AL-BATTASHI, Huda - ANNAMALAI, Neelamegam - AL-KINDI, Shatha - NAIR, Anu Sadasivan - AL-BAHRY, Saif - VERMA, Jay Prakash - SIVAKUMAR, Nallusamy. Production of bioplastic (poly-3-hydroxybutyrate) using waste paper as a feedstock: Optimization of enzymatic hydrolysis and fermentation employing *Burkholderia sacchari*. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2019, vol. 214, no., pp. 236-247., Registrované v: WOS
21. [1.1] AL-TOHAMY, Rania - KENAWY, El-Refaie - SUN, Jianzhong - ALI, Sameh Samir. Performance of a Newly Isolated Salt-Tolerant Yeast Strain *Sterigmatomyces halophilus* SSA-1575 for Azo Dye Decolorization and Detoxification. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01163>., Registrované v: WOS
22. [1.1] AMADI, Onyetugo C. - EGONG, Egong J. - NWAGU, Tochukwu N. - OKPALA, Gloria - ONWOSI, Chukwudi O. - CHUKWU, Greg C. - OKOLO, Bartholomew N. - AGU, Reginald C. - MONEKE, Anene N. Process optimization for simultaneous production of cellulase, xylanase and ligninase by *Saccharomyces cerevisiae* SCPW 17 under solid state fermentation using Box-Behnken experimental design. In HELIYON, 2020, vol. 6, no. 7, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e04566>., Registrované v: WOS
23. [1.1] AMOOZEGAR, Mohammad Ali - SAFARPOUR, Atefeh - NOGHABI, Kambiz Akbari - BAKHTIARY, Tale - VENTOSA, Antonio. Halophiles and Their Vast Potential in Biofuel Production. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
24. [1.1] AMORE, Antonella - PARAMESWARAN, Binod - KUMAR, Ramesh - BIROLO, Leila - VINCIGUERRA, Roberto - MARCOLONGO,

- Loredana - IONATA, Elena - LA CARA, Francesco - PANDEY, Ashok - FARACO, Vincenzo. Application of a new xylanase activity from *Bacillus amyloliquefaciens* XR44A in brewer's spent grain saccharification. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2015, vol. 90, no. 3, pp. 573-581., Registrované v: WOS
25. [1.1] ANBARASAN, Sasikala - WAHLSTROM, Ronny - HUMMEL, Michael - OJAMO, Heikki - SIXTA, Herbert - TURUNEN, Ossi. High stability and low competitive inhibition of thermophilic *Thermopolyspora flexuosa* GH10 xylanase in biomass-dissolving ionic liquids. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1487-1498., Registrované v: WOS
26. [1.1] ANDBERG, Martina - PENTTILA, Merja - SALOHEIMO, Markku. Swollenin from *Trichoderma reesei* exhibits hydrolytic activity against cellulosic substrates with features of both endoglucanases and cellobiohydrolases. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2015, vol. 181, no., pp. 105-113., Registrované v: WOS
27. [1.1] ANDRADE, Alexandro Pereira - DE FIGUEIREDO, Mauro Pereira - DE QUADROS, Danilo Gusmao - FERREIRA, Joel Queiroga - WHITNEY, Travis Raymond - LUZ, Yann Santos - OLIVEIRA SANTOS, Hosnerson Renan - SILVA SOUZA, Mateus Neto. Chemical and biological treatment of cotton gin trash for fattening Santa Ines lambs. In *LIVESTOCK SCIENCE*. ISSN 1871-1413, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.livsci.2020.104146>., Registrované v: WOS
28. [1.1] ANGADAM, Justine O. - DLANGAMANDLA, Nkosikho - NTWAMPE, Seteno K. O. - TOMBO, Elie F. Itoba - CHIDI, Boredi S. Sustainable *Nepenthes mirabilis* Facilitated Recovery of Reducing Sugars from Grape Pomace. In *BIORESOURCES*. ISSN 1930-2126, 2019, vol. 14, no. 2, pp. 3944-3960., Registrované v: WOS
29. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS
30. [1.1] AN, Qi - WU, Xue-Jun - HAN, Mei-Ling - CUI, Bao-Kai - HE, Shuang-Hui - DAI, Yu-Cheng - SI, Jing. Sequential Solid-State and Submerged Cultivation of the White Rot Fungus *Pleurotus ostreatus* on Biomass and the Activity of Lignocellulolytic Enzymes. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8791-8805., Registrované v: WOS
31. [1.1] ARCHANA, Gautam - AMIT, Kumar - DHARM, Dutt. Production and Characterization of Cellulase-free Xylanase by *Aspergillus flavus* ARC-12 and its application in pre-bleaching of Ethanol-Soda Pulp of *Eulaliopsis binata*. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2017, vol. 12, no. 8, pp. 63-71., Registrované v: WOS
32. [1.1] ARIAEENEJAD, Shohreh - HOSSEINI, Elnaz - MOTAMEDI, Elaheh - MOOSAVI-MOVAHEDI, Ali A. - SALEKDEH, Ghasem Hosseini. Application of carboxymethyl cellulose-g-poly(acrylic acid-co-acrylamide) hydrogel sponges for improvement of efficiency, reusability and thermal stability of a recombinant xylanase. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2019, vol. 375, no., pp., Registrované v: WOS
33. [1.1] ARIAEENEJAD, Shohreh - MALEKI, Morteza - HOSSEINI, Elnaz - KAVOUSHI, Kaveh - MOOSAVI-MOVAHEDI, Ali A. - SALEKDEH,

Ghasem Hosseini. Mining of camel rumen metagenome to identify novel alkali-thermostable xylanase capable of enhancing the recalcitrant lignocellulosic biomass conversion. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 281, no., pp. 343-350., Registrované v: WOS

34. [1.1] ARIAEENEJAD, Shohreh - HOSSEINI, Elnaz - MALEKI, Morteza - KAVOUSI, Kaveh - MOOSAVI-MOVAHEDI, Ali A. - SALEKDEH, Ghasem Hosseini. Identification and characterization of a novel thermostable xylanase from camel rumen metagenome. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, no., pp. 1295-1302., Registrované v: WOS

35. [1.1] ARIAEENEJAD, Shohreh - JOKAR, Farzaneh - HADIAN, Parvin - MA'MANI, Leila - GHARAGHANI, Sajjad - FEREIDOONNEZHAD, Masood - SALEKDEH, Ghasem Hosseini. An efficient nano-biocatalyst for lignocellulosic biomass hydrolysis: Xylanase immobilization on organically modified biogenic mesoporous silica nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 3462-3473. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.08.211>., Registrované v: WOS

36. [1.1] ARIAEENEJAD, Shohreh - MOTAMED, Elaheh - SALEKDEH, Ghasem Hosseini. Stable cellulase immobilized on graphene oxide@CMC-g-poly(AMPS-co-AAm) hydrogel for enhanced enzymatic hydrolysis of lignocellulosic biomass. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2019.115661>., Registrované v: WOS

37. [1.1] ARONSSON, Anna - GULER, Fatma - PETOUKHOF, Maxim V. - CRENNELL, Susan J. - SVERGUN, Dmitri I. - LINARES-PASTEN, Javier A. - KARLSSON, Eva Nordberg. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2018, vol. 1866, no. 2, pp. 292-306., Registrované v: WOS

38. [1.1] ARTE, Elisa - HUANG, Xin - NORDLUND, Emilia - KATINA, Kati. Biochemical characterization and technofunctional properties of bioprocessed wheat bran protein isolates. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 289, no., pp. 103-111., Registrované v: WOS

39. [1.1] ASAD, Saeed Ahmad - TABASSUM, Ayesha - HAMEED, Abdul - UL HASSAN, Fayyaz - AFZAL, Aftab - KHAN, Sabaz Ali - AHMED, Rafiq - SHAHZAD, Muhammad. Determination of lytic enzyme activities of indigenous Trichoderma isolates from Pakistan. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, 2015, vol. 46, no. 4, pp. 1053-1064., Registrované v: WOS

40. [1.1] ASEM, Dhaneshwaree - LEO, Vincent Vineeth - PASSARI, Ajit Kumar - TONSING, Mary Vanlalhrui - JOSHI, J. Beslin - UTHANDI, Sivakumar - HASHEM, Abeer - ABD ALLAH, Elsayed Fathi - SINGH, Bhim Pratap. Evaluation of gastrointestinal bacterial population for the production of holocellulose enzymes for biomass deconstruction. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS

41. [1.1] ASTOLFI, Viviane - ASTOLFI, Angela Luiza - MAZUTTI, Marcio A. - RIGO, Elisandra - DI LUCCIO, Marco - CAMARGO, Aline Frumi - DALASTRA, Caroline - KUBENECK, Simone - FONGARO, Gislaine -

- TREICHEL, Helen. Cellulolytic enzyme production from agricultural residues for biofuel purpose on circular economy approach. In **BIOPROCESS AND BIOSYSTEMS ENGINEERING**. ISSN 1615-7591, 2019, vol. 42, no. 5, pp. 677-685., Registrované v: WOS
42. [1.1] ATAEL, Davoud - HAMIDI-ESFAHANI, Zohreh - AHMADI-GAVLIGHI, Hassan. Enzymatic production of xylooligosaccharide from date (*Phoenix dactylifera* L.) seed. In **FOOD SCIENCE & NUTRITION**. ISSN 2048-7177, 2020, vol. 8, no. 12, pp. 6699-6707. Dostupné na: <https://doi.org/10.1002/fsn3.1964>., Registrované v: WOS
43. [1.1] AYADI, Dorra Zouari - SAYARI, Aida Hmida - BEN HLIMA, Hajer - BEN MABROUK, Sameh - MEZGHANI, Monia - BEJAR, Samir. Improvement of *Trichoderma reesei* xylanase II thermal stability by serine to threonine surface mutations. In **INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES**. ISSN 0141-8130, 2015, vol. 72, no., pp. 163-170., Registrované v: WOS
44. [1.1] AZOUZ, Rasha A. M. - HEGAZY, Usama M. - SAID, Mahmoud M. - BASSUINY, Roqaya - SALEM, Ahmed M. - FAHMY, Afaf S. Improving the catalytic efficiency of thermostable *Geobacillus stearothermophilus* xylanase XT6 by single-amino acid substitution. In **JOURNAL OF BIOCHEMISTRY**. ISSN 0021-924X, 2020, vol. 167, no. 2, pp. 203-215. Dostupné na: <https://doi.org/10.1093/jb/mvz086>., Registrované v: WOS
45. [1.1] AZZOUZ, Zahra - BETTACHE, Azzeddine - BOUCHERBA, Nawel - AMGHAR, Zahir - BENALLAOUA, Said. OPTIMIZATION OF XYLANASE PRODUCTION BY NEWLY ISOLATED STRAIN *TRICHODERMA AFROHARZIANUM* ISOLATE AZ 12 IN SOLID STATE FERMENTATION USING RESPONSE SURFACE METHODOLOGY. In **CELLULOSE CHEMISTRY AND TECHNOLOGY**. ISSN 0576-9787, 2020, vol. 54, no. 5-6, pp. 451-462. Dostupné na: <https://doi.org/10.35812/CelluloseChemTechnol.2020.54.46>., Registrované v: WOS
46. [1.1] BAGEWADI, Zabin K. - MULLA, Sikandar I. - NINNEKAR, Harichandra Z. Purification, characterization, gene cloning and expression of GH-10 xylanase (*Penicillium citrinum* isolate HZN13). In **3 BIOTECH**. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
47. [1.1] BAGEWADI, Zabin K. - MULLA, Sikandar I. - SHOUCHE, Yogesh - NINNEKAR, Harichandra Z. Xylanase production from *Penicillium citrinum* isolate HZN13 using response surface methodology and characterization of immobilized xylanase on glutaraldehyde-activated calcium-alginate beads. In **3 BIOTECH**. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
48. [1.1] BAKRI, Y. - AKEED, Y. - JAWHAR, M. - ARABI, M. I. E. EVALUATION OF XYLANASE PRODUCTION FROM FILAMENTOUS FUNGI WITH DIFFERENT LIFESTYLES. In **ACTA ALIMENTARIA**. ISSN 0139-3006, 2020, vol. 49, no. 2, pp. 197-203. Dostupné na: <https://doi.org/10.1556/066.2020.49.2.9>., Registrované v: WOS
49. [1.1] BANDIKARI, Ramesh - KATIKE, Umamahesh - SEELAM, Naga Sivudu - OBULAM, Vijaya Sarathi Reddy. Valorization of de-oiled cakes for xylanase production and optimization using central composite design by *Trichoderma koeningi* isolate. In **TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI**. ISSN 0250-4685, 2017, vol. 42, no. 3, pp. 317-328., Registrované v: WOS

50. [1.1] BANIK, Shyamal. Fungal dry retting An ecofriendly and water saving technology for retting of jute. In INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH. ISSN 0971-0426, 2016, vol. 41, no. 2, pp. 212-216., Registrované v: WOS
51. [1.1] BAPTISTA, Sara L. - CUNHA, Joana T. - ROMANI, Aloia - DOMINGUES, Lucilia. Xylitol production from lignocellulosic whole slurry corn cob by engineered industrial *Saccharomyces cerevisiae* PE-2. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 267, no., pp. 481-491., Registrované v: WOS
52. [1.1] BAPTISTA, Sara L. - CARVALHO, Luis C. - ROMANI, Aloia - DOMINGUES, Lucilia. Development of a sustainable bioprocess based on green technologies for xylitol production from corn cob. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112867>., Registrované v: WOS
53. [1.1] BASOTRA, Neha - JOSHI, Swati - SATYANARAYANA, T. - PATI, Pratap Kumar - TSANG, Adrian - CHADHA, Bhupinder S. Expression of catalytically efficient xylanases from thermophilic fungus *Malbranchea cinnamomea* for synergistically enhancing hydrolysis of lignocellulosics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 185-192., Registrované v: WOS
54. [1.1] BEDADE, Dattatray - BEREZINA, Oksana - SINGHAL, Rekha - DESKA, Jan - SHAMEKH, Salem. Extracellular xylanase production from a new xylanase producer *Tuber maculatum* mycelium under submerged fermentation and its characterization. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 288-293., Registrované v: WOS
55. [1.1] BEDADE, Dattatray - BEREZINA, Oksana - SINGHAL, Rekha - DESKA, Jan - SHAMEKH, Salem. Extracellular xylanase production from a new xylanase producer *Tuber maculatum* mycelium under submerged fermentation and its characterization. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 288-293., Registrované v: WOS
56. [1.1] BELT, Tiina - MOLLERUP, Filip - HANNINEN, Tuomas - RAUTKARI, Lauri. Inhibitory effects of Scots pine heartwood extractives on enzymatic holocellulose hydrolysis by wood decaying fungi. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2018, vol. 132, no., pp. 150-156., Registrované v: WOS
57. [1.1] BERIKASHVILI, Violet - SOKHADZE, Kakha - KACHLISHVILI, Eva - ELISASHVILI, Vladimir - CHIKINDAS, Michael L. *Bacillus amyloliquefaciens* Spore Production Under Solid-State Fermentation of Lignocellulosic Residues. In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, 2018, vol. 10, no. 4, pp. 755-761., Registrované v: WOS
58. [1.1] BHARTI, Amit Kumar - KUMAR, Amit - KUMAR, Alok - DUTT, Dharm. Exploitation of *Parthenium hysterophorus* biomass as low-cost substrate for cellulase and xylanase production under solid-state fermentation using *Talaromyces stipitatus* MTCC 12687. In JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES. ISSN 1687-8507, 2018, vol. 11, no. 4, pp. 271-280., Registrované v: WOS
59. [1.1] BIBRA, Mohit - KUNREDDY, Venkat Reddy - SANI, Rajesh

K. Thermostable Xylanase Production by *Geobacillus* sp Strain DUSELR13, and Its Application in Ethanol Production with Lignocellulosic Biomass. In MICROORGANISMS. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS

60. [1.1] BISWAS, Pallavi - BHARTI, Amit K. - KADAM, Ashish - DUTT, Dharm. Wheat Bran as Substrate for Enzyme Production and its Application in the Bio-deinking of Mixed Office Waste (MOW) Paper. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 5788-5806., Registrované v: WOS

61. [1.1] BOTTO, Emiliana - GIOIA, Larissa - DEL PILAR MENENDEZ, Maria - RODRIGUEZ, Paula. *Pseudozyma* sp. isolation from Eucalyptus leaves and its hydrolytic activity over xylan. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 21, no., pp., Registrované v: WOS

62. [1.1] BOUAZIZ, Fatma - BEN ABDEDDAYEM, Amal - KOUBAA, Mohamed - BARBA, Francisco J. - BEN JEDDOU, Khawla - KACEM, Imen - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Bioethanol Production from Date Seed Cellulosic Fraction Using *Saccharomyces cerevisiae*. In SEPARATIONS, 2020, vol. 7, no. 4, pp. Dostupné na: <https://doi.org/10.3390/separations7040067>., Registrované v: WOS

63. [1.1] BUENO, Micheli Maria - SILVEIRA THYS, Roberta Cruz - RODRIGUES, Rafael C. Microbial Enzymes as Substitutes of Chemical Additives in Baking Wheat Flour-Part I: Individual Effects of Nine Enzymes on Flour Dough Rheology. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2016, vol. 9, no. 12, pp. 2012-2023., Registrované v: WOS

64. [1.1] BURHAN, Khairul Hadi - KRESNOWATI, Made Tri Ari Penia - SETIADI, Tjandra. Evaluation of Simultaneous Saccharification and Fermentation of Oil Palm Empty Fruit Bunches for Xylitol Production. In BULLETIN OF CHEMICAL REACTION ENGINEERING AND CATALYSIS. ISSN 1978-2993, 2019, vol. 14, no. 3, pp. 559-567., Registrované v: WOS

65. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. FUNGAL STRAINS IMPROVEMENT FOR XYLANASE OVER PRODUCTION THROUGH PHYSICAL AND CHEMICAL MUTAGENESIS. In AGROLIFE SCIENTIFIC JOURNAL. ISSN 2285-5718, 2017, vol. 6, no. 1, pp. 40-47., Registrované v: WOS

66. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. SCREENING OF MICROORGANISMS DISPLAYING ACETYL XYLAN ESTERASE ACTIVITY. In SCIENTIFIC PAPERS-SERIES B-HORTICULTURE. ISSN 2285-5653, 2018, vol. 62, no., pp. 715-720., Registrované v: WOS

67. [1.1] BUSTAMANTE-VARGAS, Cindy Elena - DE OLIVEIRA, Debora - NYARI, Nadia L. D. - VALDUGA, Eunice - ALVARADO SOARES, Monica Beatriz - BACKES, Geciane Toniazzi - DALLAGO, Rogerio Marcos. In situ immobilization of commercial pectinase in rigid polyurethane foam and application in the hydrolysis of pectic oligosaccharides. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 122, no., pp. 35-43., Registrované v: WOS

68. [1.1] CAKMAKCI, Emrah - YUCE-DURSUN, Basak - DEMIR, Serap. Maleic anhydride functionalization of OSTE based coatings via thiol-ene "Click" reaction for the covalent immobilization of xylanase. In REACTIVE &

FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 111, no., pp. 38-43.,
Registrované v: WOS

69. [1.1] CARE, Andrew - PETROLL, Kerstin - GIBSON, Emily S. Y. -
BERGQUIST, Peter L. - SUNNA, Anwar. Solid-binding peptides for
immobilisation of thermostable enzymes to hydrolyse biomass polysaccharides.
In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no.,
pp., Registrované v: WOS

70. [1.1] CEM, Celenkli - SEVDA, Ucar - RECEP, Kotan -
HAYRUNISA, Nadaroglu - NESLIHAN, Dikbas. Partial Purification of Phytase
and Mannanase from *Lactobacillus plantarum* and Kinetic Determination of the
Features of the *L. plantarum* immobilized onto the Magnetite Florisil
Nanoparticle. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN
2278-4535, 2019, vol. 14, no. 8, pp. 112-119., Registrované v: WOS

71. [1.1] COIMBRA, Michelle Cardoso - DUQUE, Aleta - SAEZ, Felicia
- MANZANARES, Paloma - GARCIA-CRUZ, Crispin Humberto -
BALLESTEROS, Mercedes. Sugar production from wheat straw biomass by
alkaline extrusion and enzymatic hydrolysis. In RENEWABLE ENERGY. ISSN
0960-1481, 2016, vol. 86, no., pp. 1060-1068., Registrované v: WOS

72. [1.1] COLOMBO, Livia Tavares - VALERIO DE OLIVEIRA,
Marcelo Nagem - CARNEIRO, Deisy Guimaraes - DE SOUZA, Robson Assis -
TOCANTINS ALVIM, Mariana Caroline - DOS SANTOS, Josenilda Carlos -
DA SILVA, Cynthia Canedo - PEREIRA VIDIGAL, Pedro Marcus - DA
SILVEIRA, Wendel Batista - LOPES PASSOS, Flavia Maria. Applying
functional metagenomics to search for novel lignocellulosic enzymes in a
microbial consortium derived from a thermophilic composting phase of
sugarcane bagasse and cow manure. In ANTONIE VAN LEEUWENHOEK
INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR
MICROBIOLOGY. ISSN 0003-6072, 2016, vol. 109, no. 9, pp. 1217-1233.,
Registrované v: WOS

73. [1.1] COOPER-BRIBIESCA, Barbara - NAVARRO-OCANA, Arturo
- DIAZ-RUIZ, Gloria - AGUILAR-OSORIOL, Guillermo -
RODRIGUEZ-SANOJA, Romina - WACHER, Carmen. Lactic Acid
Fermentation of Arabinoxylan From Nejayote by *Streptococcus infantarius* ssp.
infantarius 25124 Isolated From Pozol. In FRONTIERS IN MICROBIOLOGY.
ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

74. [1.1] CORNETTI, Aline A. A. - FERRAZ, Andre - MILAGRES,
Adriane M. F. Enzyme-aided xylan extraction from alkaline-sulfite pretreated
sugarcane bagasse and its incorporation onto eucalyptus kraft pulps. In
CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp.
Dostupné na: <https://doi.org/10.1016/j.carres.2020.108003>., Registrované v:
WOS

75. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI,
Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO,
Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An
in-house-produced substrate for xylanase evaluation to substitute birchwood
xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197,
no., pp. 167-173., Registrované v: WOS

76. [1.1] COSTA, Patricia dos Santos - BUECHLI, Fernanda - ROBL,
Diogo - DELABONA, Priscila da Silva - RABELO, Sarita Candida - DA CRUZ
PRADELLA, Jose Geraldo. Enhancement of *Penicillium echinulatum* glycoside

hydrolase enzyme complex. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2016, vol. 43, no. 5, pp. 627-639., Registrované v: WOS

77. [1.1] COUTINHO, Thamara C. - MALAFATTI, Joao O. D. - PARIS, Elaine C. - TARDIOLI, Paulo W. - FARINAS, Cristiane S.

Hydroxyapatite-CoFe₂O₄ Magnetic Nanoparticle Composites for Industrial Enzyme Immobilization, Use, and Recovery. In ACS APPLIED NANO MATERIALS. ISSN 2574-0970, 2020, vol. 3, no. 12, pp. 12334-12345.

Dostupné na: <https://doi.org/10.1021/acsanm.0c02811>., Registrované v: WOS

78. [1.1] COUTINHO, Thamara C. - TARDIOLI, Paulo W. - FARINAS, Cristiane S. Hydroxyapatite nanoparticles modified with metal ions for xylanase immobilization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 344-353.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.058>., Registrované v: WOS

79. [1.1] CUERTEN, Christin - ANDERS, Nico - JUCHEM, Niels - IHLING, Nina - VOLKENBORN, Kristina - KNAPP, Andreas - JAEGER, Karl-Erich - BUECHS, Jochen - SPIESS, Antje C. Fast automated online xylanase activity assay using HPAEC-PAD. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 57-69., Registrované v: WOS

80. [1.1] DA COSTA, Jessyca Aline - MARQUES, Jose Edvan - BARROS GONCALVES, Luciana Rocha - PONTE ROCHA, Maria Valderez. Enhanced enzymatic hydrolysis and ethanol production from cashew apple bagasse pretreated with alkaline hydrogen peroxide. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 179, no., pp. 249-259., Registrované v: WOS

81. [1.1] DAL PICOLLI, Thais - AVER, Kaliane Regalin - FONTANA, Roselei Claudete - CAMASSOLA, Marli. High-performance of Agaricus blazei fungus for the biological pretreatment of elephant grass. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 1, pp. 42-50., Registrované v: WOS

82. [1.1] DALAGNOL, Luiza M. G. - SILVEIRA, Vitoria C. C. - DA SILVA, Halisson Baron - MANFROI, Vitor - RODRIGUES, Rafael C. Improvement of pectinase, xylanase and cellulase activities by ultrasound: Effects on enzymes and substrates, kinetics and thermodynamic parameters. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 61, no., pp. 80-87., Registrované v: WOS

83. [1.1] DALAGNOL, Luiza M. G. - DAL MAGRO, Lucas - SILVEIRA, Vitoria C. C. - RODRIGUES, Eliseu - MANFROI, Vitor - RODRIGUES, Rafael C. Combination of ultrasound, enzymes and mechanical stirring: A new method to improve Vitis vinifera Cabernet Sauvignon must yield, quality and bioactive compounds. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2017, vol. 105, no., pp. 197-204., Registrované v: WOS

84. [1.1] DAMIS, Siti Intan Rosdianah - MURAD, Abdul Munir Abdul - ABU BAKAR, Farah Diba - RASHID, Siti Aishah - JAAFAR, Nardiah Rizwana - ILLIAS, Rosli Md. Protein engineering of GH11 xylanase from Aspergillus fumigatus RT-1 for catalytic efficiency improvement on kenaf biomass hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229,

2019, vol. 131, no., pp., Registrované v: WOS

85. [1.1] DAMMAK, Ilyes - KHOUFI, Sonia - SAYADI, Sami. A performance comparison of olive oil mill wastewater enzymatic treatments. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2016, vol. 100, no., pp. 61-71., Registrované v: WOS

86. [1.1] DANG, Yahui - LIU, Mingqi - WU, Xiaoqian. Recombinant rice xylanase-inhibiting protein inhibits GH11 endo-xylanases through competitive inhibition. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2019, vol. 156, no., pp. 17-24., Registrované v: WOS

87. [1.1] DANG, Ya-hui - LIU, Ming-qi - WANG, Qian. Inhibiting the Catalytic Activity of Family GH11 Xylanases by Recombinant Rice Xylanase-Inhibiting Protein. In CATALYSIS LETTERS. ISSN 1011-372X, 2018, vol. 148, no. 7, pp. 2139-2148., Registrované v: WOS

88. [1.1] DANIEL, J. L. P. - QUEIROZ, O. C. M. - ARRIOLA, K. G. - STAPLES, C. R. - ROMERO, J. J. - SHIN, J. H. - PASCHOALOTO, J. R. - NUSSIO, L. G. - ADESOGAN, A. T. Effects of maturity at ensiling of bermudagrass and fibrolytic enzyme application on the performance of early-lactation dairy cows. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2016, vol. 99, no. 12, pp. 9716-9723., Registrované v: WOS

89. [1.1] DASH, Pradeep Kumar - BHATTACHARYYA, Pratap - SHAHID, Mohammad - ROY, Pritesh Sunder - PADHY, Soumya Ranjan - SWAIN, Chinmaya Kumar - KUMAR, Upendra - KUMAR, Anjani - GAUTAM, Priyanka - LAL, Banawari - PANNEERSELVAM, Periyasamy - NAYAK, Amaresh Kumar. Structural diversity and efficacy of culturable cellulose decomposing bacteria isolated from rice-pulse resource conservation practices. In DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY. ISSN 0363-9045, 2019, vol. 45, no. 10, pp. 963-978., Registrované v: WOS

90. [1.1] DAS, Arundhati - RAY, Lalitagauri. Production of crude xylanase using a isolated fungal strain Aspergillus sp.S6 by solid state fermentation. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2016, vol. 3, no. 10, pp. 3343-3360., Registrované v: WOS

91. [1.1] DE FIGUEIREDO, Franciane Cristina - AZEVEDO CARVALHO, Ana Flavia - BRIENZO, Michel - CAMPIONI, Tania Sila - DE OLIVA-NETO, Pedro. Chemical input reduction in the arabinoxylan and lignocellulose alkaline extraction and xylooligosaccharides production. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 228, no., pp. 164-170., Registrované v: WOS

92. [1.1] DE LIMA, Gabriel Goetten - SCHOENHERR, Zaira Chiodini Pedri - MAGALHAES, Washington Luiz Esteves - TAVARES, Lorena Benathar Ballod - HELM, Cristiane Vieira. Enzymatic activities and analysis of a mycelium-based composite formation using peach palm (Bactris gasipaes) residues on Lentinula edodes. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s40643-020-00346-2>., Registrované v: WOS

93. [1.1] DE OLIVEIRA SIMOES, Lorena Caixeta - DA SILVA, Ronivaldo Rodrigues - DE OLIVEIRA NASCIMENTO, Carlos Eduardo - BOSCOLO, Mauricio - GOMES, Eleni - DA SILVA, Roberto. Purification and Physicochemical Characterization of a Novel Thermostable Xylanase Secreted by the Fungus Myceliophthora heterothallica F.2.1.4. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 188,

no. 4, pp. 991-1008., Registrované v: WOS

94. [1.1] DE SOUZA, Angelica R. - DE ARAUJO, Gabriela C. - ZANPHORLIN, Leticia M. - RULLER, Roberto - FRANCO, Fernanda C. - TORRES, Fernando A. G. - MERTENS, Jeffrey A. - BOWMAN, Michael J. - GOMES, Eleni - DA SILVA, Roberto. Engineering increased thermostability in the GH-10 endo-1,4-beta-xylanase from *Thermoascus aurantiacus* CBMAI 756. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 20-26., Registrované v: WOS

95. [1.1] DE SOUZA, Elias Luiz - SELLIN, Noeli - MARANGONI, Cintia - SOUZA, Ozair. The Influence of Different Strategies for the Saccharification of the Banana Plant Pseudostem and the Detoxification of Concentrated Broth on Bioethanol Production. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 3, pp. 943-965., Registrované v: WOS

96. [1.1] DENG, Fang - AITA, Giovanna M. Fumaric Acid Production by *Rhizopus oryzae* ATCCA (R) 20344 (TM) from Lignocellulosic Syrup. In BIOENERGY RESEARCH. ISSN 1939-1234, 2018, vol. 11, no. 2, pp. 330-340., Registrované v: WOS

97. [1.1] DENG, Fang - AITA, Giovanna M. Detoxification of dilute ammonia pretreated energy cane bagasse enzymatic hydrolysate by soluble polyelectrolyte flocculants. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 112, no., pp. 681-690., Registrované v: WOS

98. [1.1] DENG, Fang - CHEONG, Dae-Yeol - AITA, Giovanna M. Optimization of activated carbon detoxification of dilute ammonia pretreated energy cane bagasse enzymatic hydrolysate by response surface methodology. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 115, no., pp. 166-173., Registrované v: WOS

99. [1.1] DESHMUKH, Rehan Ahmed - JAGTAP, Sharmili - MANDAL, Madan Kumar - MANDAL, Suraj Kumar. Purification, biochemical characterization and structural modelling of alkali-stable beta-1,4-xylan xylanohydrolase from *Aspergillus fumigatus* R1 isolated from soil. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2016, vol. 16, no., pp., Registrované v: WOS

100. [1.1] DHIMAN, Saurabh Sudha - HAW, Jung-Rim - KALYANI, Dayanand - KALIA, Vipin C. - KANG, Yun Chan - LEE, Jung-Kul. Simultaneous pretreatment and saccharification: Green technology for enhanced sugar yields from biomass using a fungal consortium. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 179, no., pp. 50-57., Registrované v: WOS

101. [1.1] DHIMAN, Saurabh Sudha - DAVID, Aditi - BRABAND, Vanessa W. - HUSSEIN, Abdulmenan - SALEM, David R. - SANI, Rajesh K. Improved bioethanol production from corn stover: Role of enzymes, inducers and simultaneous product recovery. In APPLIED ENERGY. ISSN 0306-2619, 2017, vol. 208, no., pp. 1420-1429., Registrované v: WOS

102. [1.1] DHIVAHAR, J. - KHUSRO, Ameer - AGASTIAN, Paul - ISAAC, S. Suthakar. Isolation and characterization of hyper-xylanase producing *Bacillus* spp. from faeces of the Indian flying fox (*Pteropus giganteus*). In ACTA CHIROPTEROLOGICA. ISSN 1508-1109, 2019, vol. 21, no. 1, pp. 229-236., Registrované v: WOS

103. [1.1] DHRUW, Chandrabhan - HUSAIN, Khadim - KUMAR, Vyas -

SONAWANE, Vijay Chintaman. Novel xylanase producing *Bacillus* strain X2: molecular phylogenetic analysis and its application for production of xylooligosaccharides. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-02322-1>., Registrované v: WOS

104. [1.1] DIAZ, Gabriela - CONIGLIO, Romina O. - VELAZQUEZ, Juan E. - ZAPATA, Pedro D. - VILLALBA, Laura - FONSECA, Maria. Adding value to lignocellulosic wastes via their use for endoxylanase production by *Aspergillus* fungi. In MYCOLOGIA. ISSN 0027-5514, 2019, vol. 111, no. 2, pp. 195-205., Registrované v: WOS

105. [1.1] DING, Changhe - LI, Mengxing - HU, Yuqi. High-activity production of xylanase by *Pichia stipitis*: Purification, characterization, kinetic evaluation and xylooligosaccharides production. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 72-77., Registrované v: WOS

106. [1.1] DING, Changhe - WANG, Xiang - LI, Mengxing. Evaluation of six white-rot fungal pretreatments on corn stover for the production of cellulolytic and ligninolytic enzymes, reducing sugars, and ethanol. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 14, pp. 5641-5652., Registrované v: WOS

107. [1.1] DLANGAMANDLA, Nkosikho - NTWAMPE, Seteno Karabo Obed - ANGADAM, Justine Oma - ITOBA-TOMBO, Elie Fereche - CHIDI, Boredi Silas - MEKUTO, Lukhanyo. Integrated Hydrolysis of Mixed Agro-Waste for a Second Generation Biorefinery Using *Nepenthes mirabilis* Pod Digestive Fluids. In PROCESSES. ISSN 2227-9717, 2019, vol. 7, no. 2, pp., Registrované v: WOS

108. [1.1] DO NASCIMENTO, Rodrigo Pires - REIS, Alberto Delgado - GIRIO, Francisco - PEREIRA JR, Nei - DA SILVA BON, Elba Pinto - RODRIGUES COELHO, Rosalie Reed. A Thermotolerant Xylan-Degrading Enzyme Is Produced by *Streptomyces malaysiensis* AMT-3 Using by-Products From the Food Industry. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2020, vol. 63, no., pp. Dostupné na: <https://doi.org/10.1590/1678-4324-2020190243>., Registrované v: WOS

109. [1.1] DOERING, Clemens - HUSSEIN, Mohamed A. - JEKLE, Mario - BECKER, Thomas. On the assessments of arabinoxylan localization and enzymatic modifications for enhanced protein networking and its structural impact on rye dough and bread. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 229, no., pp. 178-187., Registrované v: WOS

110. [1.1] DONG, Ce - QIAO, Jie - WANG, Xinping - SUN, Wenli - CHEN, Lixia - LI, Shuntang - WU, Ke - MA, Lixin - LIU, Yi. Engineering *Pichia pastoris* with surface-display minicellulosomes for carboxymethyl cellulose hydrolysis and ethanol production. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01749-1>., Registrované v: WOS

111. [1.1] DONG, Zhen - DING, Zhirong - ZHANG, Shengyi - ZHANG, Yao - FAN, Hongxuan - YANG, Yanyan. Natural Fibers From the Bark of Mulberry Branches for Textile Application. In FIBRES & TEXTILES IN EASTERN EUROPE. ISSN 1230-3666, 2017, vol. 25, no. 3, pp. 20-25., Registrované v: WOS

112. [1.1] DOS REIS, L. - RITTER, C. E. T. - FONTANA, R. C. -

CAMASSOLA, M. - DILLON, A. J. P. STATISTICAL OPTIMIZATION OF MINERAL SALT AND UREA CONCENTRATION FOR CELLULASE AND XYLANASE PRODUCTION BY *Penicillium echinulatum* IN SUBMERGED FERMENTATION. In BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING. ISSN 0104-6632, 2015, vol. 32, no. 1, pp. 13-22., Registrované v: WOS

113. [1.1] DOS SANTOS, Jaqueline Pozzada - ZAVAREZE, Eleonora da Rosa - GUERRA DIAS, Alvaro Renato - VANIER, Nathan Levien. Immobilization of xylanase and xylanase-beta-cyclodextrin complex in polyvinyl alcohol via electrospinning improves enzyme activity at a wide pH and temperature range. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 1676-1684., Registrované v: WOS

114. [1.1] DOS SANTOS, Jaqueline Pozzada - DITTGEN, Caroline Lambrecht - MELLO EL HALAL, Shanise Lisie - VANIER, Nathan Levien. Catalytic Efficiency, Structure, and Recycling Behavior of Electrospun Polyvinyl Alcohol-Xylanase Fibers Cross-Linked by Glutaraldehyde. In FOOD BIOPHYSICS. ISSN 1557-1858, 2020, vol. 15, no. 2, pp. 155-161. Dostupné na: <https://doi.org/10.1007/s11483-019-09618-7>., Registrované v: WOS

115. [1.1] DOS SANTOS, Juliana A. - VIEIRA, Juliana M. F. - VIDEIRA, Alexandre - MEIRELLES, Lucas A. - RODRIGUES, Andre - TANIWAKI, Marta H. - SETTE, Lara D. Marine-derived fungus *Aspergillus cf. tubingensis* LAMAI 31: a new genetic resource for xylanase production. In AMB EXPRESS. ISSN 2191-0855, 2016, vol. 6, no., pp., Registrované v: WOS

116. [1.1] DOS SANTOS, Tamires Carvalho - REIS, Nadabe dos Santos - SILVA, Tatielle Pereira - FERREIRA BONOMO, Renata Cristina - AGUIAR-OLIVEIRA, Elizama - DE OLIVEIRA, Julieta Rangel - FRANCO, Marcelo. Production, Optimisation and Partial Characterisation of Enzymes from Filamentous Fungi Using Dried Forage Cactus Pear as Substrate. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 571-579., Registrované v: WOS

117. [1.1] DOS SANTOS, Tiago T. - O'NEILL, Helen V. Masey - GONZALEZ-ORTIZ, Gemma - CAMACHO-FERNANDEZ, Daniel - LOPEZ-COELLO, Carlos. Xylanase, protease and superdosing phytase interactions in broiler performance, carcass yield and digesta transit time. In ANIMAL NUTRITION. ISSN 2405-6383, 2017, vol. 3, no. 2, pp. 121-126., Registrované v: WOS

118. [1.1] DUTTA, Dipanjan - BANERJEE, Sudeshna - MUKHERJEE, Anjan - GHOSH, Koushik. POTENTIAL GUT ADHERENT PROBIOTIC BACTERIA ISOLATED FROM ROHU, LABEO ROHITA (ACTINOPTERYGII: CYPRINIFORMES: CYPRINIDAE): CHARACTERISATION, EXO-ENZYME PRODUCTION, PATHOGEN INHIBITION, CELL SURFACE HYDROPHOBICITY, AND BIO-FILM FORMATION. In ACTA ICHTHYOLOGICA ET PISCATORIA. ISSN 0137-1592, 2018, vol. 48, no. 3, pp. 221-233., Registrované v: WOS

119. [1.1] DUTTA, Dipanjan - BANERJEE, Sudeshna - MUKHERJEE, Anjan - GHOSH, Koushik. SELECTION AND PROBIOTIC CHARACTERIZATION OF EXOENZYME-PRODUCING BACTERIA ISOLATED FROM THE GUT OF CATLA CATLA (ACTINOPTERYGII: CYPRINIFORMES: CYPRINIDAE). In ACTA ICHTHYOLOGICA ET

PISCATORIA. ISSN 0137-1592, 2015, vol. 45, no. 4, pp. 373-384., Registrované v: WOS

120. [1.1] DYSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314.

Dostupné na: <https://doi.org/10.1021/acs.jafc.9b05459>., Registrované v: WOS

121. [1.1] ELEGBEDE, J. A. - LATEEF, A. Valorization of Corn-Cob by Fungal Isolates for Production of Xylanase in Submerged and Solid State Fermentation Media and Potential Biotechnological Applications. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 8, pp. 1273-1287., Registrované v: WOS

122. [1.1] ELISASHVILI, Vladimir - KACHLISHVILI, Eva - ASATIANI, Mikheil D. Efficient production of lignin-modifying enzymes and phenolics removal in submerged fermentation of olive mill by-products by white-rot basidiomycetes. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2018, vol. 134, no., pp. 39-47., Registrované v: WOS

123. [1.1] ELISASHVILI, Vladimir - KACHLISHVILI, Eva - ASATIANI, Mikheil. Shiitake Medicinal Mushroom, *Lentinus edodes* (Higher Basidiomycetes) Productivity and Lignocellulolytic Enzyme Profiles during Wheat Straw and Tree Leaf Bioconversion. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2015, vol. 17, no. 1, pp. 77-86., Registrované v: WOS

124. [1.1] ELIZABETH, T. Abikoye - JULIUS, K. Oloke - EKAETTE, N. Dike - SUDIPTA, S. Bora - DAS, S. - BAROOAH, M. Influence of Different Substrates on Lignolytic Enzyme Production in Improved Strains of Wood Ear Mushroom (*Auricularia* Species). In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2016, vol. 75, no. 12, pp. 740-746., Registrované v: WOS

125. [1.1] EL-SHARKAWY, Reyad Mohamed - EL-SHORA, Hamed Mohamed. Biocontrol of Wilt-Inducing *Fusarium oxysporum* by Aqueous Leaf Extract from Egyptian *Ammi majus* and *Ammi visnaga*. In EGYPTIAN JOURNAL OF BOTANY. ISSN 0375-9237, 2020, vol. 60, no. 2, pp. 423-435. Dostupné na: <https://doi.org/10.21608/ejbo.2020.20709.1409>., Registrované v: WOS

126. [1.1] EVELYN - AMRAINI, S. Z. - PRATIWI, E. D. - ISMALA, U. N. Production of Cellulase and Xylanase from *Eupenicillium Javanicum* by Solid-State Fermentation Utilizing Pineapple Crown Leaves Waste as the Substrate. In UNIVERSITAS RIAU INTERNATIONAL CONFERENCE ON SCIENCE AND ENVIRONMENT 2020 (URICSE-2020). ISSN 1742-6588, 2020, vol. 1655, no., pp. Dostupné na:

<https://doi.org/10.1088/1742-6596/1655/1/012113>., Registrované v: WOS

127. [1.1] EZEILO, Uchenna R. - WAHAB, Roswanira Abdul - MAHAT, Naji Arafat. Optimization studies on cellulase and xylanase production by *Rhizopus oryzae* UC2 using raw oil palm frond leaves as substrate under solid state fermentation. In RENEWABLE ENERGY. ISSN 0960-1481, 2020, vol. 156, no., pp. 1301-1312. Dostupné na:

<https://doi.org/10.1016/j.renene.2019.11.149>., Registrované v: WOS

128. [1.1] FANG, Cheng - WANG, Qinhong - SELVARAJ, Jonathan Nimal - ZHOU, Yuling - MA, Lixin - ZHANG, Guimin - MA, Yanhe. High copy and stable expression of the xylanase XynHB in *Saccharomyces cerevisiae* by rDNA-mediated integration. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

129. [1.1] FANG, Chunjuan - CHEN, Xiaoyan. Potential biocontrol efficacy of *Trichoderma atroviride* with cellulase expression regulator *ace1* gene knock-out. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 7, pp., Registrované v: WOS

130. [1.1] FANCHINI TERRASAN, Cesar Rafael - CARMONA, Eleonora Cano. SOLID-STATE FERMENTATION OF BREWER'S SPENT GRAIN FOR XYLANOLYTIC ENZYMES PRODUCTION BY *Penicillium janczewskii* AND ANALYSES OF THE FERMENTED SUBSTRATE. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2015, vol. 31, no. 6, pp. 1826-1836., Registrované v: WOS

131. [1.1] FANCHINI TERRASAN, Cesar Rafael - MANUEL GUIBAN, Jose - CARMONA, Eleonora Cano. Xylanase and beta-xylosidase from *Penicillium janczewskii*: Purification, characterization and hydrolysis of substrates. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2016, vol. 23, no., pp. 54-62., Registrované v: WOS

132. [1.1] FANCHINI TERRASAN, Cesar Rafael - TROBO-MASEDA, Lara - MORENO-PEREZ, Sonia - CANO CARMONA, Eleonora - COSTA PESSELA, Benevides - MANUEL GUIBAN, Jose. Co-immobilization and stabilization of xylanase, beta-xylosidase and alpha-L-arabinofuranosidase from *Penicillium janczewskii* for arabinoxylan hydrolysis. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 5, pp. 614-623., Registrované v: WOS

133. [1.1] FAN, Guangsen - WU, Qihua - LI, Qin - SUN, Baoguo - MA, Yanli - WU, Keliang - WANG, Chunyan - TENG, Chao - YANG, Ran - LI, Xiuting. Impact of the disulfide bond on hydrolytic characteristics of a xylanase from *Talaromyces thermophiles* F1208. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 1748-1757. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.270>., Registrované v: WOS

134. [1.1] FARHAT-KHEMAKHEM, Ameny - BLIBECH, Monia - BOUKHRIS, Ines - MAKNI, Mohamed - CHOUAYEKH, Hichem. Assessment of the potential of the multi-enzyme producer *Bacillus amyloliquefaciens* US573 as alternative feed additive. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2018, vol. 98, no. 3, pp. 1208-1215., Registrované v: WOS

135. [1.1] FARIA, Nuno Torres - MARQUES, Susana - FONSECA, Cesar - FERREIRA, Frederico Castelo. Direct xylan conversion into glycolipid biosurfactants, mannosylerythritol lipids, by *Pseudozyma antarctica* PYCC 5048(T). In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 71, no., pp. 58-65., Registrované v: WOS

136. [1.1] FARYAR, Reza - LINARES-PASTEN, Javier A. - IMMERZEEL, Peter - MAMO, Gashaw - ANDERSSON, Maria - STALBRAND, Henrik - MATTIASSON, Bo - KARLSSONA, Eva Nordberg. Production of prebiotic xylooligosaccharides from alkaline extracted wheat straw

using the K80R-variant of a thermostable alkali-tolerant xylanase. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2015, vol. 93, no., pp. 1-10., Registrované v: WOS

137. [1.1] FERNANDES DUARTE, Alysson Wagner - BARATO, Mariana Blanco - NOBRE, Fernando Suzigan - POLEZEL, Danilo Augusto - DE OLIVEIRA, Tassio Brito - DOS SANTOS, Juliana Aparecida - RODRIGUES, Andre - SETTE, Lara Duraes. Production of cold-adapted enzymes by filamentous fungi from King George Island, Antarctica. In *POLAR BIOLOGY*. ISSN 0722-4060, 2018, vol. 41, no. 12, pp. 2511-2521., Registrované v: WOS

138. [1.1] FERRI, Maura - HAPPEL, Anton - ZANAROLI, Giulio - BERTOLINI, Marco - CHIESA, Stefano - COMMISSO, Mauro - GUZZO, Flavia - TASSONI, Annalisa. Advances in combined enzymatic extraction of ferulic acid from wheat bran. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2020, vol. 56, no., pp. 38-45. Dostupné na:

<https://doi.org/10.1016/j.nbt.2019.10.010>., Registrované v: WOS

139. [1.1] FERRI, Maura - VANNINI, Micaela - EHRNELL, Maria - ELIASSON, Lovisa - XANTHAKIS, Epameinondas - MONARI, Stefania - SISTI, Laura - MARCHESE, Paola - CELLI, Annamaria - TASSONI, Annalisa. From winery waste to bioactive compounds and new polymeric biocomposites: A contribution to the circular economy concept. In *JOURNAL OF ADVANCED RESEARCH*. ISSN 2090-1232, 2020, vol. 24, no., pp. 1-11. Dostupné na:

<https://doi.org/10.1016/j.jare.2020.02.015>., Registrované v: WOS

140. [1.1] FITRIA, F. - PUJIYANTO, Sri - RAHARJO, Budi - RAHMANI, Nanik - YOPI, Y. Partial Purification and Characterization of Xylanase Enzyme from Marine Bacterium *Bacillus safensis* strain LBF P20 from Pari Island Jakarta. In *AGRITECH-JURNAL TEKNOLOGI PERTANIAN*. ISSN 0216-0455, 2017, vol. 37, no. 1, pp. 30-37., Registrované v: WOS

141. [1.1] FONSECA, Rafael F. - MELO, Caio C. B. - SANCHES, Beatriz B. C. P. - BERTUCCI-NETO, Victor - FARINAS, Cristiane S. - KWONG, Wu H. Modelling of solid-state fermentation over wide operational range for application in process optimization. In *CANADIAN JOURNAL OF CHEMICAL ENGINEERING*. ISSN 0008-4034, 2018, vol. 96, no. 8, pp. 1723-1734., Registrované v: WOS

142. [1.1] FRANCIOSINI, Maria Pia - CASAGRANDE-PROIETTI, Patrizia - FORTE, Claudio - BEGHELLI, Daniela - ACUTI, Gabriele - ZANICHELLI, Dario - DAL BOSCO, Alessandro - CASTELLINI, Cesare - TRABALZA-MARINUCCI, Massimo. Effects of oregano (*Origanum vulgare* L.) and rosemary (*Rosmarinus officinalis* L.) aqueous extracts on broiler performance, immune function and intestinal microbial population. In *JOURNAL OF APPLIED ANIMAL RESEARCH*. ISSN 0971-2119, 2016, vol. 44, no. 1, pp. 474-479., Registrované v: WOS

143. [1.1] FRASSATTO, Priscila Aparecida Casciadori - CASCIA TORI, Fernanda Perpetua - THOMEIO, Joao Claudio - GOMES, Eleni - BOSCOLO, Mauricio - DA SILVA, Roberto. Fungal cellulases: production by solid-state cultivation in packed-bed bioreactor using solid agro-industrial by-products as substrates and application for hydrolysis of sugarcane bagasse. In *SEMINA-CIENCIAS AGRARIAS*. ISSN 1676-546X, 2020, vol. 41, no. 5, pp. 2097-2115. Dostupné na:

<https://doi.org/10.5433/1679-0359.2020v41n5Supl1p2097>., Registrované v: WOS

144. [1.1] FRATEBIANCHI, D. - GONZALEZ, M. - TENORIO, C. - CAVALITTO, S. F. - RUIZ-LARREA, F. Characterization and winemaking application of a novel pectin-degrading enzyme complex from *Aspergillus sojae* ATCC 20235. In *VITIS*. ISSN 0042-7500, 2017, vol. 56, no. 2, pp. 85-93., Registrované v: WOS
145. [1.1] GALANOPOULOU, Anastasia P. - MORAIS, Sarah - GEORGOULIS, Anastasios - MORAG, Ely - BAYER, Edward A. - HATZINIKOLAOU, Dimitris G. Insights into the functionality and stability of designer cellulosomes at elevated temperatures. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 20, pp. 8731-8743., Registrované v: WOS
146. [1.1] GANGWAR, Avdhesh K. - PRAKASH, N. Tejo - PRAKASH, Ranjana. Amenability of Acacia and Eucalyptus Hardwood Pulps to Elemental Chlorine-Free Bleaching: Application and Efficacy of Microbial Xylanase. In *BIORESOURCES*. ISSN 1930-2126, 2015, vol. 10, no. 4, pp. 8405-8413., Registrované v: WOS
147. [1.1] GANGWAR, Avdhesh K. - PRAKASH, N. Tejo - PRAKASH, Ranjana. An Eco-Friendly Approach: Incorporating a Xylanase Stage at Various Places in ECF and Chlorine-based Bleaching of Eucalyptus Pulp. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5381-5388., Registrované v: WOS
148. [1.1] GAUTERIO, Gabrielle Victoria - VIEIRA, Matheus Cardoso - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - LADEIRA SANZO, Ana Virginia - KALIL, Susana Juliano. Production of xylanolytic enzymes and xylooligosaccharides by *Aureobasidium pullulans* CCT 1261 in submerged cultivation. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 335-345., Registrované v: WOS
149. [1.1] GAUTERIO, Gabrielle Victoria - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - RIBEIRO, Tairine da Rosa - KALIL, Susana Juliano. Maximization of xylanase production by *Aureobasidium pullulans* using a by-product of rice grain milling as xylan source. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 23, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101511>., Registrované v: WOS
150. [1.1] GEETHA, Karupphasamy - GUNASEKARAN, Paramasamy. Purification of Endoxylanase from *Bacillus pumilus* B20 for Production of Prebiotic Xylooligosaccharide Syrup; An In vitro Study. In *IRANIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 1728-3043, 2017, vol. 15, no. 4, pp. 232-240., Registrované v: WOS
151. [1.1] GENEROSO, Wesley Cardoso - MALAGO-, Wilson - PEREIRA-, Nei - HENRIQUE-SILVA, Flavio. Triggering the Expression of Cellulolytic Genes Using a Recombinant Endoxylanase from *Trichoderma harzianum* IOC-3844. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2016, vol. 9, no. 3, pp. 931-941., Registrované v: WOS
152. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of different fermentation strategies on beta-mannanase production in fed-batch bioreactor system. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
153. [1.1] GHAYOUR-NAJAFABADI, Peiman - KHOSRAVINIA, Heshmatollah - GHEISARI, Abbasali - AZARFAR, Arash - KHANAHMADI, Morteza. Productive performance, nutrient digestibility and intestinal

morphometry in broiler chickens fed corn or wheat-based diets supplemented with bacterial- or fungal-originated xylanase. In ITALIAN JOURNAL OF ANIMAL SCIENCE. ISSN 1594-4077, 2018, vol. 17, no. 1, pp. 165-174., Registrované v: WOS

154. [1.1] GHAZALA, Imen - HADDAR, Anissa - BEN ROMDHANE, Molka - ELLOUZ-CHAANOUNI, Semia. Screening and Molecular Identification of New Microbial Strains for Production of Enzymes of Biotechnological Interest. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2016, vol. 59, no., pp., Registrované v: WOS

155. [1.1] GHAZALA, Imen - SAYARI, Nadhem - BEN ROMDHANE, Molka - ELLOUZ-CHAABOUNI, Semia - HADDAR, Anissa. Assessment of pectinase production by *Bacillus mojavenensis* I4 using an economical substrate and its potential application in oil sesame extraction. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2015, vol. 52, no. 12, pp. 7710-7722., Registrované v: WOS

156. [1.1] GHEISARI, A. - NAJAFABADI, P. Ghayour - KHOSRAVINIA, H. Energy utilisation and growth performance of broilers receiving maize or wheat based diets supplemented with bacterial or fungal originated xylanase. In EUROPEAN POULTRY SCIENCE. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS

157. [1.1] GHOSHAL, G. - BANERJEE, U. C. - SHIVHARE, U. S. Isolation, Screening and Optimization of Xylanase Production in Submerged Fermentation Using *P. citrinum*. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2015, vol. 74, no. 7, pp. 400-405., Registrované v: WOS

158. [1.1] GOMEZ, Sara - PAYNE, Asia M. - SAVKO, Martin - FOX, Gavin C. - SHEPARD, William E. - FERNANDEZ, Francisco J. - CRISTINA VEGA, M. Structural and functional characterization of a highly stable endo-beta-1,4-xylanase from *Fusarium oxysporum* and its development as an efficient immobilized biocatalyst. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

159. [1.1] GONZALEZ-ORTIZ, Gemma - KOZLOWSKI, Krzysztof - DRAZBO, Aleksandra - BEDFORD, Michael R. Response of turkeys fed wheat-barley-rye based diets to xylanase supplementation. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2017, vol. 229, no., pp. 117-123., Registrované v: WOS

160. [1.1] GRONQVIST, S. - KAMPPURI, T. - MALONEY, T. - VEHVILAINEN, M. - LIITIA, T. - SUURNAKKI, A. Enhanced pre-treatment of cellulose pulp prior to dissolution into NaOH/ZnO. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 6, pp. 3981-3990., Registrované v: WOS

161. [1.1] GRONQVIST, S. - TREIMANIS, A. - KAMPPURI, T. - MALONEY, T. - SKUTE, M. - GRINFELDS, U. - VEHVILAINEN, M. - SUURNAKKI, A. The effect of the outermost fibre layers on solubility of dissolving grade pulp. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 6, pp. 3955-3965., Registrované v: WOS

162. [1.1] GROSSMANN, Isabel - DOERING, Clemens - JEKLE, Mario - BECKER, Thomas - KOEHLER, Peter. Compositional Changes and Baking Performance of Rye Dough As Affected by Microbial Transglutaminase and Xylanase. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 28, pp. 5751-5758., Registrované v: WOS

163. [1.1] GUERFALI, Mohamed - SAIDI, Adel - GARGOURI, Ali - BELGHITH, Hafedh. Enhanced Enzymatic Hydrolysis of Waste Paper for Ethanol Production Using Separate Saccharification and Fermentation. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 1, pp. 25-42., Registrované v: WOS
164. [1.1] GUIDO, E. S. - SILVEIRA, J. T. - KALIL, S. J. Enzymatic production of xylooligosaccharides from beechwood xylan: effect of xylanase preparation on carbohydrate profile of the hydrolysates. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2019, vol. 26, no. 2, pp. 713-721., Registrované v: WOS
165. [1.1] GUO, Xin-Yue - LIN, Shu-Ling - GUO, Li-Qiong - LIN, Jun-Fang - YE, Zhi-Wei. Heterologous expression of the multi-functional cellulase gene (mfc) from the mollusc *Ampullaria crosseana*, in *Volvariella volvacea*. In JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY. ISSN 1462-0316, 2016, vol. 91, no. 4, pp. 325-331., Registrované v: WOS
166. [1.1] HAHN SCHNEIDER, Willian Daniel - DOS REIS, Laisa - FONTANA, Roselei Claudete - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Exploring strategies for the use of glycerol in the production of cellulases and xylanases, and the use of these enzymes in the hydrolysis of lignocellulosic biomass. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 122, no., pp. 114-118., Registrované v: WOS
167. [1.1] HAHN SCHNEIDER, Willian Daniel - FONTANA, Roselei Claudete - BAUDEL, Henrique Macedo - DE SIQUEIRA, Felix Goncalves - RENCORET, Jorge - GUTIERREZ, Ana - ISABEL DE EUGENIO, Laura - PRIETO, Alicia - JESUS MARTINEZ, Maria - MARTINEZ, Angel T. - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Lignin degradation and detoxification of eucalyptus wastes by on-site manufacturing fungal enzymes to enhance second-generation ethanol yield. In APPLIED ENERGY. ISSN 0306-2619, 2020, vol. 262, no., pp. Dostupné na: <https://doi.org/10.1016/j.apenergy.2020.114493>., Registrované v: WOS
168. [1.1] HAMALAINEN, Joonas - GRANSTROM, Tom - MOLLERUP, Filip - WANG, Yawei - XIONG, Hairong - TURUNEN, Ossi. Effect of enzymatic high temperature prehydrolysis on the subsequent cellulose hydrolysis of steam-pretreated spruce in high solids concentration. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2016, vol. 91, no. 6, pp. 1844-1852., Registrované v: WOS
169. [1.1] HANSEN, Gustav H. - LUBECK, Mette - FRISVAD, Jens C. - LUBECK, Peter S. - ANDERSEN, Birgitte. Production of cellulolytic enzymes from ascomycetes: Comparison of solid state and submerged fermentation. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 9, pp. 1327-1341., Registrované v: WOS
170. [1.1] HAN, Mei-Ling - AN, Qi - HE, Sai-Fei - ZHANG, Xiao-Lin - ZHANG, Ming-Hui - GAO, Xin-Hua - WU, Qian - BIAN, Lu-Sen. Solid-state Fermentation on Poplar Sawdust and Corncob Wastes for Lignocellulolytic Enzymes by Different *Pleurotus ostreatus* Strains. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4982-4995., Registrované v: WOS
171. [1.1] HAN, Xiaolong - LIU, Guodong - SONG, Wenxia - QIN, Yuqi - QU, Yinbo. Continuous feeding of spent ammonium sulphite liquor improves the

- production and saccharification performance of cellulase by *Penicillium oxalicum*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 245, no., pp. 984-992., Registrované v: WOS
172. [1.1] HAN, Zhenggang - SHANG-GUAN, Fang - YANG, Jiangke. Characterization of a novel cold-active xylanase from *Luteimonas* species. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 8, pp., Registrované v: WOS
173. [1.1] HAN, Zhenggang - SHANG-GUAN, Fang - YANG, Jiangke. Molecular and Biochemical Characterization of a Bimodular Xylanase From *Marinifilaceae* Bacterium Strain SPP2. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
174. [1.1] HAO, Xixun - WEN, Peiyao - WANG, Jia - WANG, Jinye - YOU, Jiabin - ZHANG, Junhua. Production of xylooligosaccharides and monosaccharides from hydrogen peroxide-acetic acid-pretreated poplar by two-step enzymatic hydrolysis. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122349>., Registrované v: WOS
175. [1.1] HAQ, Ikram-ul - NAZIR, Komal - YASIN, Ghulam - ALI, Sajid - DUA, Mahnoor. Analysis of Extra-Cellular Productions of *Bacillus subtilis* Sub-Merged Fermentation Cultures Supplemented with Rotten Potatoes and Sugar Beets. In *BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS*. ISSN 0974-6455, 2020, vol. 13, no. 2, pp. 541-549. Dostupné na: <https://doi.org/10.21786/bbrc/13.2/27>., Registrované v: WOS
176. [1.1] HARAHAP, Budi Mandra - KRESNOWATI, Made Tri Ari Penia. Moderate pretreatment of oil palm empty fruit bunches for optimal production of xylitol via enzymatic hydrolysis and fermentation. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2018, vol. 8, no. 2, pp. 255-263., Registrované v: WOS
177. [1.1] HASNA, Nait M'Barek - HASSAN, Hajjaj. Cellulolytic fungi from central Morocco: comparative analysis of enzyme activities, in silico prediction of physico-chemical properties and molecular docking. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2020, vol. 15, no. 5, pp. 50-60., Registrované v: WOS
178. [1.1] HA, Dung T. - KANARSKY, Albert - KANARSKAYA, Zosia A. - SHCHERBAKOV, Andrei - SHCHERBAKOVA, Elena N. Biosynthesis of exopolysaccharides by soil bacteria *Paenibacillus mucilaginosus* on a nutrient molasses medium. In *IZVESTIYA VUZOV-PRIKLADNAYA KHIMIYA I BIOTEKHNOLOGIYA*. ISSN 2227-2925, 2020, vol. 10, no. 4, pp. 708-718. Dostupné na: <https://doi.org/10.21285/2227-2925-2020-10-4-708-718>., Registrované v: WOS
179. [1.1] HA, Dung T. - KANARSKY, Albert - KANARSKAYA, Zosia A. - SHCHERBAKOV, Andrei - SHCHERBAKOVA, Elena N. - PRANOVICH, Andrey. Impact of cultivation conditions on xylanase production and growth in *Paenibacillus mucilaginosus*. In *IZVESTIYA VUZOV-PRIKLADNAYA KHIMIYA I BIOTEKHNOLOGIYA*. ISSN 2227-2925, 2020, vol. 10, no. 3, pp. 459-469. Dostupné na: <https://doi.org/10.21285/2227-2925-2020-10-3-459-469>., Registrované v: WOS
180. [1.1] HEBAL, Hakim - PARVIAINEN, Arno - ANBARASAN, Sasikala - LI, He - MAKKONEN, Laura - BANKAR, Sandip - KING, Alistair W. T. - KILPELAINEN, Ilkka - BENALLAOUA, Said - TURUNEN, Ossi.

Inhibition of hyperthermostable xylanases by superbase ionic liquids. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 95, no., pp. 148-156. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.03.022>., Registrované v: WOS

181. [1.1] HERCULANO, Polyanna Nunes - MOREIRA, Keila Aparecida - BEZERRA, Raquel Pedrosa - PORTO, Tatiana Souza - DE SOUZA-MOTTA, Cristina Maria - FIGUEIREDO PORTO, Ana Lucia. Potential application of waste from castor bean (*Ricinus communis* L.) for production for xylanase of interest in the industry. In *BIOTECH*. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS

182. [1.1] HE, Ronglin - CAI, Pengli - WU, Gaihong - ZHANG, Can - ZHANG, Dongyuan - CHEN, Shulin. Mutagenesis and evaluation of cellulase properties and cellulose hydrolysis of *Talaromyces piceus*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2015, vol. 31, no. 11, pp. 1811-1819., Registrované v: WOS

183. [1.1] HOFFMAM, Zaira B. - ZANPHORLIN, Leticia M. - COTA, Junio - DIOGO, Jose A. - ALMEIDA, Gabriela B. - DAMASIO, Andre R. L. - SQUINA, Fabio - MURAKAMI, Mario T. - RULLER, Roberto. Xylan-specific carbohydrate-binding module belonging to family 6 enhances the catalytic performance of a GH11 endo-xylanase. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2016, vol. 33, no. 4, pp. 467-472., Registrované v: WOS

184. [1.1] HONG, Joo-Hyun - JANG, Seokyeon - HEO, Young Mok - MIN, Mihee - LEE, Hwanhwi - LEE, Young Min - LEE, Hanbyul - KIM, Jae-Jin. Investigation of Marine-Derived Fungal Diversity and Their Exploitable Biological Activities. In *MARINE DRUGS*. ISSN 1660-3397, 2015, vol. 13, no. 7, pp. 4137-4155., Registrované v: WOS

185. [1.1] HO, Hooi Ling. Biotechnology of Microbial Xylanase: Overview. In *RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY*. ISSN 2327-9354, 2018, vol., no., pp. 294-325., Registrované v: WOS

186. [1.1] HUANG, Zhen-Bang - CHEN, Xiu-Zhen - QIN, Li-Na - WU, Hong-Qing - SU, Xiao-Yun - DONG, Zhi-Yang. A novel major facilitator transporter TrSTR1 is essential for pentose utilization and involved in xylanase induction in *Trichoderma reesei*. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2015, vol. 460, no. 3, pp. 663-669., Registrované v: WOS

187. [1.1] HUSSAIN, H. - NGAINI, Z. - CHONG, N. F-M. Modified bicinchoninic acid assay for accurate determination of variable length reducing sugars in carbohydrates. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2018, vol. 25, no. 6, pp. 2614-2619., Registrované v: WOS

188. [1.1] HU, Xiaojiao - CUI, Yang - LU, Xiaomin - SONG, Weibin - LEI, Lei - ZHU, Jinjie - LAI, Jinsheng - E, Lizhu - ZHAO, Haiming. Maize WI5 encodes an endo-1,4-beta-xylanase required for secondary cell wall synthesis and water transport in xylem. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2020, vol. 62, no. 10, pp. 1607-1624. Dostupné na: <https://doi.org/10.1111/jipb.12923>., Registrované v: WOS

189. [1.1] HWANGBO, Myung - TRAN, Janessa L. - CHU, Kung-Hui. Effective one-step saccharification of lignocellulosic biomass using magnetite-biocatalysts containing saccharifying enzymes. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2019, vol. 647, no., pp. 806-813.,

Registrované v: WOS

190. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS

191. [1.1] CHANG, Chen-Wei - WEBB, Colin. Production of a generic microbial feedstock for lignocellulose biorefineries through sequential bioprocessing. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 227, no., pp. 35-43., Registrované v: WOS

192. [1.1] CHARLES-RODRIGUEZ, Veronica - GUERRERO-MATA, Alejandro - MARTINEZ-VAZQUEZ, Gabriela - CRUZ-HERNANDEZ, Mario A. - BELMARES-CERDA, Ruth E. - ROBLEDO, Armando. Bioreactor Analysis for the Corn-Cob Valorization in the Xylanase Production. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 6, pp. 995-1001., Registrované v: WOS

193. [1.1] CHATURVEDI, Shivani - BHATTACHARYA, Amrik - NAIN, Lata - PRASANNA, Radha - KHARE, Sunil K. Valorization of agro-starchy wastes as substrates for oleaginous microbes. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2019, vol. 127, no., pp., Registrované v: WOS

194. [1.1] CHEBAIBI, Salima - GRANDCHAMP, Mathilde Leriche - BURGE, Gregoire - CLEMENT, Tiphaine - ALLAIS, Florent - LAZIRI, Fatiha. Improvement of protein content and decrease of anti-nutritional factors in olive cake by solid-state fermentation: A way to valorize this industrial by-product in animal feed. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 128, no. 3, pp. 384-390., Registrované v: WOS

195. [1.1] CHEN, Xiang - XIN, Donglin - WANG, Rui - QIN, Yujie - WEN, Peiyao - HOU, Xincun - ZHANG, Junhua. Factors affecting hydrolytic action of xylanase during pennisetum saccharification: Role of cellulose and its derivatives. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 130, no., pp. 49-56., Registrované v: WOS

196. [1.1] CHEN, Xiang - XIN, Donglin - SUN, Fubao Fuelbiol - ZHANG, Junhua. Factors affecting the hydrolytic action of xylanase during pennisetum saccharification: role of lignin. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3143-3152. Dostupné na: <https://doi.org/10.1007/s10570-020-02996-z>., Registrované v: WOS

197. [1.1] CHEN, Zhou - LIU, Yangliu - ZAKY, Ahmed A. - LIU, Lu - CHEN, Yaoyao - LI, Siting - JIA, Yingmin. Characterization of a novel xylanase from *Aspergillus flavus* with the unique properties in production of xylooligosaccharides. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2019, vol. 59, no. 4, pp. 351-358., Registrované v: WOS

198. [1.1] CHEN, Zhou - ZAKY, Ahmed A. - LIU, Yangliu - CHEN, Yaoyao - LIU, Lu - LI, Siting - JIA, Yingmin. Purification and characterization of a new xylanase with excellent stability from *Aspergillus flavus* and its application in hydrolyzing pretreated corncobs. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2019, vol. 154, no., pp. 91-97., Registrované v: WOS

199. [1.1] CHIYANZY, Idan - BRIENZO, Michel - GARCIA-APARICIO, Maria - AGUDELO, Roberto - GOERGENSE, Johann. Spent coffee ground mass solubilisation by steam explosion and enzymatic hydrolysis. In JOURNAL OF

- CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2015, vol. 90, no. 3, pp. 449-458., Registrované v: WOS
200. [1.1] CHUGH, Priya - SONI, Raman - SONI, Sanjeev Kumar. Deoiled Rice Bran: A Substrate for Co-Production of a Consortium of Hydrolytic Enzymes by *Aspergillus niger* P-19. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2016, vol. 7, no. 3, pp. 513-525., Registrované v: WOS
201. [1.1] CHYLENSKI, Piotr - FORSBERG, Zarah - STAHLBERG, Jerry - VARNAL, Aniko - LERSCH, Martin - BENGTSSON, Oskar - SAEBO, Solve - HORN, Svein Jarle - EIJSINK, Vincent G. H. Development of minimal enzyme cocktails for hydrolysis of sulfite-pulped lignocellulosic biomass. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 246, no., pp. 16-23., Registrované v: WOS
202. [1.1] IKRAM-UL HAQ - AHMED, Mashooq - LANJAR, Ghulam Qadir - ALI, Kazim - SHEHRYAR. Efficiency of growth cultures of *Bacillus subtilis* with *Luffa cylindrica* used as carbon source. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2020, vol. 17, no. 4, pp. 4136-4143., Registrované v: WOS
203. [1.1] IKRAM-UL HAQ - JATOI, Imranullah - GILL, Nazia Parveen - SANGRASI, Sikandar Ali - KOMAL, Hadiqa - ALI, Noman. Certain Extracellular Productions in *Bacillus subtilis* Cultures Supplemented with Banana Waste as Substrate. In INTERNATIONAL JOURNAL OF PHARMACEUTICAL AND PHYTOPHARMACOLOGICAL RESEARCH. ISSN 2250-1029, 2020, vol. 10, no. 3, pp. 99-107., Registrované v: WOS
204. [1.1] ITO, Toshihiko - SATO, Anna - TAKAHASHI, Itsuki - ITO, Takahito - TAKANO, Kouto - NOGE, Koji - OKUDA, Masaki - HASHIZUME, Katsumi. Identification of enzymes from genus *Trichoderma* that can accelerate formation of ferulic acid and ethyl ferulate in collaboration with rice koji enzyme in sake mash. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 128, no. 2, pp. 177-182., Registrované v: WOS
205. [1.1] JABRI, Jihene - ABID, Khalil - YAICH, Hela - MALEK, Atef - REKHIS, Jamel - KAMOUN, Mohamed. Effect of combining exogenous fibrolytics enzymes supplementation with alkali and acid pre-treatments on wheat straw hydrolysis and ruminal fermentation. In INDIAN JOURNAL OF ANIMAL SCIENCES. ISSN 0367-8318, 2019, vol. 89, no. 7, pp. 76-81., Registrované v: WOS
206. [1.1] JABRI, Jihene - ABID, Khalil - YAICH, Hela - MALEK, Atef - REKHIS, Jamel - KAMOUN, Mohamed. Effect of combining exogenous fibrolytics enzymes with *Saccharomyces cerevisiae* or *Eucalyptus* essential oil on the in vitro ruminal fermentation and digestibility of wheat straw. In INDIAN JOURNAL OF ANIMAL SCIENCES. ISSN 0367-8318, 2019, vol. 89, no. 2, pp. 161-165., Registrované v: WOS
207. [1.1] JAMPALA, Preethi - TADIKAMALLA, Satish - PREETHI, M. - RAMANUJAM, Swathy - UPPULURI, Kiran Babu. Concurrent production of cellulase and xylanase from *Trichoderma reesei* NCIM 1186: enhancement of production by desirability-based multi-objective method. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
208. [1.1] JESUS, Meirielly S. - ROMANI, Aloia - GENISHEVA, Zlatina - TEIXEIRA, Jose A. - DOMINGUES, Lucilia. Integral valorization of vine pruning residue by sequential autohydrolysis stages. In JOURNAL OF

- CLEANER PRODUCTION. ISSN 0959-6526, 2017, vol. 168, no., pp. 74-86.,
 Registrované v: WOS
209. [1.1] JIANG, Fengchao - MA, Lijuan - CAI, Rui - MA, Qing - GUO, Gaojie - DU, Liping - XIAO, Dongguang. Efficient crude multi-enzyme produced by *Trichoderma reesei* using corncob for hydrolysis of lignocellulose. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
210. [1.1] JIANG, Wei - PEI, Rui - ZHOU, Shu-Feng. 3D-printed xylanase within biocompatible polymers as excellent catalyst for lignocellulose degradation. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2020, vol. 400, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2020.125920>., Registrované v: WOS
211. [1.1] JIANG, Ying - WU, Yue - LI, Huixin. Immobilization of *Thermomyces lanuginosus* Xylanase on Aluminum Hydroxide Particles Through Adsorption: Characterization of Immobilized Enzyme. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 12, pp. 2016-2023., Registrované v: WOS
212. [1.1] JIE HUANGFU - QI, Feng - LIU, Hongwei - ZOU, Hanfa - AHMED, Muhammad Saad - LI, Chun. Novel helper factors influencing recombinant protein production in *Pichia pastoris* based on proteomic analysis under simulated microgravity. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 2, pp. 653-665., Registrované v: WOS
213. [1.1] JIN, Wenyao - XU, Xiaochen - YANG, Fenglin - LI, Conglin - ZHOU, Ming. Performance enhancement by rumen cultures in anaerobic co-digestion of corn straw with pig manure. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 115, no., pp. 120-129., Registrované v: WOS
214. [1.1] KACEM, Imen - KOUBAA, Mohamed - MAKTOUF, Sameh - CHAARI, Fatma - NAJAR, Taha - CHAABOUNI, Moncef - ETTIS, Nadia - CHAABOUNI, Semia Ellouz. Multistage process for the production of bioethanol from almond shell. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 211, no., pp. 154-163., Registrované v: WOS
215. [1.1] KACHLISHVILI, Eva - KOBAKHIDZE, Aza - RUSITASHVILI, Mariam - TSOKILAU, Ana - ELISASHVILI, Vladimir. Comparison of Mono- and Dikaryotic Medicinal Mushrooms Lignocellulolytic Enzyme Activity. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2019, vol. 21, no. 11, pp. 1115-1122., Registrované v: WOS
216. [1.1] KACHLISHVILI, Eva - KOBAKHIDZE, Aza - RUSITASHVILI, Mariam - TSOKILAU, Ana - ELISASHVILI, Vladimir. Elucidation of the Higher Basidiomycetes Enzyme Activity in Dependence on the Medicinal Mushroom Inoculum Form, Precultivation Medium, Age, and Size. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2020, vol. 22, no. 11, pp. 1099-1108., Registrované v: WOS
217. [1.1] KALIM, Bushra - ALI, Nazish Mazhar. Optimization of fermentation media and growth conditions for microbial xylanase production. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
218. [1.1] KALLEL, Fatma - DRISS, Dorra - BOUAZIZ, Fatma - NEIFER, Mohamed - GHORBEL, Raoudha - CHAABOUNI, Semia Ellouz. Production of xylooligosaccharides from garlic straw xylan by purified xylanase from *Bacillus mojavensis* UEB-FK and their in vitro evaluation as prebiotics. In

- FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 94, no., pp. 536-546., Registrované v: WOS
219. [1.1] KALLEL, Fatma - DRISS, Dorra - CHAABOUNI, Semia Ellouz - GHORBEL, Raoudha. Biological Activities of Xylooligosaccharides Generated from Garlic Straw Xylan by Purified Xylanase from *Bacillus mojavensis* UEB-FK. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 2, pp. 950-964., Registrované v: WOS
220. [1.1] KALLEL, Fatma - DRISS, Dorra - CHAARI, Fatma - ZOUARI-ELLOUZI, Soumaya - CHAABOUNI, Moncef - GHORBEL, Raoudha - CHAABOUNI, Semia Ellouz. Statistical optimization of low-cost production of an acidic xylanase by *Bacillus mojavensis* UEB-FK: Its potential applications. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 5, no., pp. 1-10., Registrované v: WOS
221. [1.1] KAMEI, Ichiro - UCHIDA, Kana - ARDIANTI, Virginia. Conservation of Xylose Fermentability in *Phlebia* Species and Direct Fermentation of Xylan by Selected Fungi. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 192, no. 3, pp. 895-909. Dostupné na: <https://doi.org/10.1007/s12010-020-03375-x>, Registrované v: WOS
222. [1.1] KAMENNAYA, Nina A. - GRAY, Justine - ITO, Seiko - KAINUMA, Mami - NGUYEN, My Vu - KHILYAS, Irina V. - BIRARDA, Giovanni - BERNIE, Fujun - HUNT, Mackenzie - VASADIA, Dipali - LIN, Joseph - HOLMAN, Hoi-Ying - TOROK, Tamas - COHEN, Michael F. Deconstruction of plant biomass by a *Cellulomonas* strain isolated from an ultra-basic (lignin-stripping) spring. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, 2020, vol. 202, no. 5, pp. 1077-1084. Dostupné na: <https://doi.org/10.1007/s00203-020-01816-z>, Registrované v: WOS
223. [1.1] KAMPPURI, Taina - VEHVILAINEN, Marianna - BACKFOLK, Kaj - HEISKANEN, Isto. Characterization of endoglucanase rich *Trichoderma reesei* cellulase mixtures and their effect on alkaline solubility of dissolving pulp. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 6, pp. 3901-3911., Registrované v: WOS
224. [1.1] KANDIYIL, S. K. - MALEK, R. A. - KAUL, R. Hatti - HO, C. K. - EL ENSHASY, H. A. A Novel Approach in Lactose Based Induction for Enhanced Production of 1-4-Beta Xylanase by Recombinant *Escherichia coli*. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2019, vol. 78, no. 5, pp. 287-294., Registrované v: WOS
225. [1.1] KANDIYIL, S. - MALEK, R. Abdul - AZIZ, R. - EL ENSHASY, H. A. Development of an Industrially Feasible Medium for Enhanced Production of Extremely Thermophilic Recombinant Endo-1,4-beta-xylanase by *Escherichia coli*. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2018, vol. 77, no. 1, pp. 41-49., Registrované v: WOS
226. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - TURHAN, Irfan. beta-Mannanase production and kinetic modeling from carob extract by using recombinant *Aspergillus sojae*. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2019, vol. 35, no. 6, pp., Registrované v: WOS
227. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN,

- Irfan. Partial purification and characterization of a recombinant beta-mannanase from *Aspergillus fumigatus* expressed in *Aspergillus sojae* grown on carob extract. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na: <https://doi.org/10.1007/s13399-019-00487-1>., Registrované v: WOS
228. [1.1] KAUR, Amanjot - SINGH, Avtar - PATRA, Arun Kumar - MAHAJAN, Ritu. Cost-effective scouring of flax fibers using cellulase-free xylano-pectinolytic synergism from a bacterial isolate. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2016, vol. 131, no., pp. 107-111., Registrované v: WOS
229. [1.1] KAUR, Amanjot - VARGHESE, Libin Mathew - MAHAJAN, Ritu. Simultaneous production of industrially important alkaline xylanase-pectinase enzymes by a bacterium at low cost under solid-state fermentation conditions. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2019, vol. 66, no. 4, pp. 574-585., Registrované v: WOS
230. [1.1] KAUSHIK, Prachi - MISHRA, Abhishek - MALIK, Anushree - SHARMA, Shweta. Production and shelf life evaluation of storable myco-granules for multiple environmental applications. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2015, vol. 100, no., pp. 70-78., Registrované v: WOS
231. [1.1] KELBERT, Maikon - ROMANI, Aloia - COELHO, Eduardo - PEREIRA, Francisco B. - TEIXEIRA, Jose A. - DOMINGUES, Lucilia. Lignocellulosic bioethanol production with revalorization of low-cost agroindustrial by-products as nutritional supplements. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 64, no., pp. 16-24., Registrované v: WOS
232. [1.1] KELBERT, Maikon - ROMANI, Aloia - COELHO, Eduardo - PEREIRA, Francisco B. - TEIXEIRA, Jose A. - DOMINGUES, Lucilia. Simultaneous Saccharification and Fermentation of Hydrothermal Pretreated Lignocellulosic Biomass: Evaluation of Process Performance Under Multiple Stress Conditions. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2016, vol. 9, no. 3, pp. 750-762., Registrované v: WOS
233. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. Optimization and Kinetic Evaluation of Acetylxyylan Esterase and Xylanase Production by *Trichoderma reesei* Using Corn Cob Xylan. In *ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL*. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>., Registrované v: WOS
234. [1.1] KHALEDI, Nima - TAHERI, Parissa - RASTEGAR, Mahrokh Falahati. Identification, virulence factors characterization, pathogenicity and aggressiveness analysis of *Fusarium* spp., causing wheat head blight in Iran. In *EUROPEAN JOURNAL OF PLANT PATHOLOGY*. ISSN 0929-1873, 2017, vol. 147, no. 4, pp. 897-918., Registrované v: WOS
235. [1.1] KHAMBHATY, Yasmin - AKSHAYA, R. - SUGANYA, C. Rama - SREERAM, Kalarical Janardhanan - RAO, Jonnalagadda Raghava. A logical and sustainable approach towards bamboo pulp bleaching using xylanase from *Aspergillus nidulans*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 452-459., Registrované v: WOS

236. [1.1] KHARAZMI, Sara - TAHERI-KAFRANI, Asghar - SOOZANIPOUR, Asieh - NASROLLAHZADEH, Mahmoud - VARMA, Rajender S. Xylanase immobilization onto trichlorotriazine-functionalized polyethylene glycol grafted magnetic nanoparticles: A thermostable and robust nanobiocatalyst for fruit juice clarification. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 402-413. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.273>., Registrované v: WOS
237. [1.1] KHARDZIANI, Tamar - KACHLISHVILI, Eva - SOKHADZE, Kakha - ELISASHVILI, Vladimir - WEEKS, Richard - CHIKINDAS, Michael L. - CHISTYAKOV, Vladimir. Elucidation of Bacillus subtilis KATMIRA 1933 Potential for Spore Production in Submerged Fermentation of Plant Raw Materials. In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, 2017, vol. 9, no. 4, pp. 435-443., Registrované v: WOS
238. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice husk. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
239. [1.1] KHELIL, Omar - CHOUBANE, Slimane - CHEBA, Ben Amar. Polyphenols content of spent coffee grounds subjected to physico-chemical pretreatments influences lignocellulolytic enzymes production by Bacillus sp R2. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 211, no., pp. 769-773., Registrované v: WOS
240. [1.1] KHUSRO, Ameer - KALIYAN, Barathi Kannan - AL-DHABI, Naif Abdullah - ARASU, Mariadhas Valan - AGASTIAN, Paul. Statistical optimization of thermo-alkali stable xylanase production from Bacillus tequilensis strain ARMATI. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2016, vol. 22, no., pp. 16-25., Registrované v: WOS
241. [1.1] KIM, Dal Rye - LIM, Hee Kyung - LEE, Kee In - HWANG, In Taek. Identification of a New 1,4-beta-D-xylosidase Pae1263 from the Whole Genome Sequence of Paenibacillus terrae HPL-003. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 2, pp. 168-175., Registrované v: WOS
242. [1.1] KIM, Sun Min - GUO, Jia - KWAK, Suryang - JIN, Yong-Su - LEE, D. K. - SINGH, Vijay. Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 183, no., pp. 70-77., Registrované v: WOS
243. [1.1] KIM, Young-Hee - CHOI, Kyoung-Hwa - HONG, Jin-Young - LEE, Jeung-Min - KIM, Soo-Ji - JO, Chang-Wook - JEONG, So Young. Investigation of Microorganisms Deteriorating Ancient Ola Leaf Manuscripts. In RESTAURATOR-INTERNATIONAL JOURNAL FOR THE PRESERVATION OF LIBRARY AND ARCHIVAL MATERIAL. ISSN 0034-5806, 2020, vol. 41, no. 3, pp. 119-129. Dostupné na: <https://doi.org/10.1515/res-2020-0004>., Registrované v: WOS
244. [1.1] KIRAN, Esra Uckun - LIU, Yu. Bioethanol production from mixed food waste by an effective enzymatic pretreatment. In FUEL. ISSN 0016-2361, 2015, vol. 159, no., pp. 463-469., Registrované v: WOS

245. [1.1] KISIDAYOVA, Svetlana - PRISTAS, Peter - ZIMOVCAKOVA, Michaela - WENCELOVA, Monika Blantar - HOMOL'OVA, Lucia - MIHALIKOVA, Katarina - COBANOVA, Klaudia - GRESAKOVA, L'ubomira - VARADYOVA, Zora. The effects of high dose of two manganese supplements (organic and inorganic) on the rumen microbial ecosystem. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
246. [1.1] KONT, Riin - PIHLAJANIEMI, Ville - BORISOVA, Anna S. - ARO, Nina - MARJAMAA, Kaisa - LOOGEN, Judith - BUECHS, Jochen - EIJSINK, Vincent G. H. - KRUUS, Kristiina - VALJAMAE, Priit. The liquid fraction from hydrothermal pretreatment of wheat straw provides lytic polysaccharide monooxygenases with both electrons and H₂O₂ co-substrate. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no. 1, pp., Registrované v: WOS
247. [1.1] KORKMAZ, Melih N. - OZDEMIR, Sennur C. - UZEL, Atac. Xylanase production from marine derived *Trichoderma pleuroticola* 08CK001 strain isolated from Mediterranean coastal sediments. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2017, vol. 57, no. 10, pp. 839-851., Registrované v: WOS
248. [1.1] KOTI, Sravanthi - GOVUMONI, Sai Prashanthi - GENTELA, Jahnvi - RAO, L. Venkateswar. Enhanced bioethanol production from wheat straw hemicellulose by mutant strains of pentose fermenting organisms *Pichia stipitis* and *Candida shehatae*. In SPRINGERPLUS. ISSN 2193-1801, 2016, vol. 5, no., pp., Registrované v: WOS
249. [1.1] KO, Ja Kyong - KO, Hyeokjin - KIM, Kyoung Heon - CHOI, In-Geol. Characterization of the biochemical properties of recombinant Xyn10C from a marine bacterium, *Saccharophagus degradans* 2-40. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2016, vol. 39, no. 4, pp. 677-684., Registrované v: WOS
250. [1.1] KUGE, Takayuki - WATANABE, Akira - HASEGAWA, Satoshi - TERAMOTO, Haruhiko - INUI, Masayuki. Functional analysis of arabinofuranosidases and a xylanase of *Corynebacterium alkanolyticum* for arabinoxylan utilization in *Corynebacterium glutamicum*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 5019-5032., Registrované v: WOS
251. [1.1] KUMAR, Amit - DUTT, Dharm - GAUTAM, Archana. PRETREATMENT AND ENZYMATIC HYDROLYSIS OF PEARL MILLET STOVER BY MULTI-ENZYMES FROM *ASPERGILLUS NIDULANS* AKB-25. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 7-8, pp. 781-790., Registrované v: WOS
252. [1.1] KUMAR, Bharti Amit - AMIT, Kumar - ALOK, Kumar - DHARM, Dutt. Wheat bran fermentation for the production of cellulase and xylanase by *Aspergillus niger* NFCCI 4113. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2018, vol. 13, no. 5, pp. 11-18., Registrované v: WOS
253. [1.1] KUMAR, Varun - HARSH, Nirmal Sudhir Kumar - NAITHANI, Sanjay - THAPLIYAL, Bipin Prakash - SHARMA, Shrikant. Production optimization of alkali-thermo tolerant crude endoglucanase from *Funalia leonina* by response surface methodology. In CURRENT SCIENCE. ISSN 0011-3891, 2017, vol. 113, no. 9, pp. 1750-1754., Registrované v: WOS
254. [1.1] KUMAR, Vishal - CHHABRA, Deepak - SHUKLA, Pratyosh.

- Xylanase production from *Thermomyces lanuginosus* VAPS-24 using low cost agro-industrial residues via hybrid optimization tools and its potential use for saccharification. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 243, no., pp. 1009-1019., Registrované v: WOS
255. [1.1] KUMAR, Vishal - SHUKLA, Pratyooosh. Extracellular xylanase production from *T. lanuginosus* VAPS24 at pilot scale and thermostability enhancement by immobilization. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 71, no., pp. 53-60., Registrované v: WOS
256. [1.1] LAERKE, H. N. - ARENT, S. - DALSGAARD, S. - KNUDSEN, K. E. Bach. Effect of xylanases on ileal viscosity, intestinal fiber modification, and apparent ileal fiber and nutrient digestibility of rye and wheat in growing pigs. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2015, vol. 93, no. 9, pp. 4323-4335., Registrované v: WOS
257. [1.1] LANDARANI-ISFAHANI, Amir - TAHERI-KAFRANI, Asghar - AMINI, Mina - MIRKHANI, Valiollah - MOGHADAM, Majid - SOOZANIPOUR, Asieh - RAZMJOU, Amir. Xylanase Immobilized on Novel Multifunctional Hyperbranched Polyglycerol-Grafted Magnetic Nanoparticles: An Efficient and Robust Biocatalyst. In *LANGMUIR*. ISSN 0743-7463, 2015, vol. 31, no. 33, pp. 9219-9227., Registrované v: WOS
258. [1.1] LARNAUDIE, Valeria - FERRARI, Mario Daniel - LAREO, Claudia. Enzymatic Hydrolysis of Liquid Hot Water-Pretreated Switchgrass at High Solid Content. In *ENERGY & FUELS*. ISSN 0887-0624, 2019, vol. 33, no. 5, pp. 4361-4368., Registrované v: WOS
259. [1.1] LEE, Hanbyul - LEE, Young Min - HEO, Young Mok - LEE, Jaejung - KIM, Jun Seok - KANG, Kyu Young - KIM, Jae-Jin. Utilization of agricultural residues for enhancement of cellulolytic enzyme production and enzymatic saccharification by *Trichoderma harzianum* KUC1716. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 109, no., pp. 185-191., Registrované v: WOS
260. [1.1] LEO, Vincent V. - PASSARI, Ajit K. - JOSHI, J. Beslin - MISHRA, Vineet K. - UTHANDI, Sivakumar - RAMESH, N. - GUPTA, Vijai K. - SAIKIA, Ratul - SONAWANE, Vijay C. - SINGH, Bhim P. A Novel Triculture System (CC3) for Simultaneous Enzyme Production and Hydrolysis of Common Grasses through Submerged Fermentation. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
261. [1.1] LIANG, Wen-Sing - FANG, Tsuei-Yun - LIN, Hong-Ting - LIU, Tristan C. - LU, Wen-Jung - TZOU, Wen-Shyong - TANG, Shye-Jye - LIN, Fu-Pang - LIU, Shiu-Mei - PAN, Chornng-Liang. Cloning, expression, and characterization of *Pseudomonas vesicularis* MA103 beta-1,3-xylanase in *Escherichia coli* ClearColi BL21(DE3). In *FISHERIES SCIENCE*. ISSN 0919-9268, 2015, vol. 81, no. 6, pp. 1135-1143., Registrované v: WOS
262. [1.1] LIAN, Zhina - WANG, Yane - LUO, Jing - LAI, Chenhuan - YONG, Qiang - YU, Shiyuan. An integrated process to produce prebiotic xylooligosaccharides by autohydrolysis, nanofiltration and endo-xylanase from alkali-extracted xylan. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 314, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123685>., Registrované v: WOS
263. [1.1] LIGUORI, Rossana - IONATA, Elena - MARCOLONGO, Loredana - DE SOUZA VANDENBERGHE, Luciana Porto - LA CARA,

- Francesco - FARACO, Vincenzo. Optimization of *Arundo donax* Saccharification by (Hemi)cellulolytic Enzymes from *Pleurotus ostreatus*. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS
264. [1.1] LIN, Hui - SUN, Mei-Jing - LI, Jia-Huan - XU, Quan-Ming - YANG, Bin - WANG, Qi - XIE, Wei-Jie - SUN, Shu-Jing - HU, Kai-Hui - ZHANG, Liao-Yuan. Purification and Characterization of Xylanase from Spent Mushroom Compost and its Application in Saccharification of Biomass Wastes. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 220-230., Registrované v: WOS
265. [1.1] LIN, Chaoyang - SHEN, Zhicheng - ZHU, Tingheng - QIN, Wensheng. Newly Isolated *Penicillium ramulosum* N1 Is Excellent for Producing Protease-Resistant Acidophilic Xylanase. In JOURNAL OF MOLECULAR MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1464-1801, 2015, vol. 25, no. 5, pp. 320-326., Registrované v: WOS
266. [1.1] LIU, Jiantong - CAI, Yuyuan - LIU, Ling - ZHU, Jing - LI, Hong - ZHAN, Rui - XIAO, Naidong - ZHAO, Shumiao - HE, Mingxiong - HU, Guoquan - LIANG, Yuxiang - HU, Jinglong - PENG, Nan. Enhanced lactic acid production by *Bacillus coagulans* through simultaneous saccharification, biodegradation, and fermentation. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2020, vol. 14, no. 3, pp. 533-543. Dostupné na: <https://doi.org/10.1002/bbb.2086>., Registrované v: WOS
267. [1.1] LIU, Rui - CHEN, Ling - JIANG, Yanping - ZOU, Gen - ZHOU, Zhihua. A novel transcription factor specifically regulates GH11 xylanase genes in *Trichoderma reesei*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
268. [1.1] LIU, Xueqiang - LIU, Yu - JIANG, Zhengqiang - LIU, Haijie - YANG, Shaoqing - YAN, Qiaojuan. Biochemical characterization of a novel xylanase from *Paenibacillus barengoltzii* and its application in xylooligosaccharides production from corncobs. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 264, no., pp. 310-318., Registrované v: WOS
269. [1.1] LIU, Yihan - HUANG, Lin - LI, Weiguo - GUO, Wei - ZHENG, Hongchen - WANG, Jianling - LU, Fuping. Studies on properties of the xylan-binding domain and linker sequence of xylanase XynG1-1 from *Paenibacillus campinasensis* G1-1. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2015, vol. 42, no. 12, pp. 1591-1599., Registrované v: WOS
270. [1.1] LI, Fangbing - WANG, Hui - XIN, Huaxia - CAI, Jianfeng - FU, Qing - JIN, Yu. Development, validation and application of a hydrophilic interaction liquid chromatography-evaporative light scattering detection based method for process control of hydrolysis of xylans obtained from different agricultural wastes. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 212, no., pp. 155-161., Registrované v: WOS
271. [1.1] LI, Hailong - WU, Hongli - XIONG, Lian - CHEN, Xuefang - WANG, Can - QI, Gaoxiang - HUANG, Chao - GUO, Haijun - LUO, Mutan - LIU, Jian - LONG, Minnan - CHEN, Xinde. The hydrolytic efficiency and synergistic action of recombinant xylan-degrading enzymes on xylan isolated from sugarcane bagasse. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 199-206., Registrované v: WOS
272. [1.1] LI, Hailong - WU, Hongli - JIANG, Fengjiao - WU, Jinlian -

XUE, Yong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression and Characterization of an Acidic GH11 Family Xylanase from *Hypocrea orientalis*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 228-238., Registrované v: WOS 273. [1.1] LI, Hailong - WU, Jinlian - JIANG, Fengjiao - XUE, Yong - LIU, Jian - GAN, Lihui - ALI, Nasir - LONG, Minnan. Functional expression and synergistic cooperation of xylan-degrading enzymes from *Hypocrea orientalis* and *Aspergillus niger*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2015, vol. 90, no. 11, pp. 2083-2091., Registrované v: WOS 274. [1.1] LI, He - TURUNEN, Ossi. Effect of acidic amino acids engineered into the active site cleft of *Thermopolyspora flexuosa* GH11 xylanase. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2015, vol. 62, no. 4, pp. 433-440., Registrované v: WOS 275. [1.1] LI, He - VOUTILAINEN, Sanni - OJAMO, Heikki - TURUNEN, Ossi. Stability and activity of *Dictyoglomus thermophilum* GH11 xylanase and its disulphide mutant at high pressure and temperature. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 70, no., pp. 66-71., Registrované v: WOS 276. [1.1] LI, Jing - SHI, Suan - KANG, Li - WANG, Wei - GUAN, Wenjian. Cellulase production from kraft hardwood pulp by *Trichoderma reesei* rut C-30. In *BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR*. ISSN 1932-104X, 2019, vol. 13, no. 5, pp. 1160-1168., Registrované v: WOS 277. [1.1] LI, Pei-jun - XIA, Jin-lan - SHAN, Yang - NIE, Zhen-yuan. Comparative study of multi-enzyme production from typical agro-industrial residues and ultrasound-assisted extraction of crude enzyme in fermentation with *Aspergillus japonicus* PJ01. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2015, vol. 38, no. 10, pp. 2013-2022., Registrované v: WOS 278. [1.1] LI, Pei-jun - XIA, Jin-lan - SHAN, Yang - NIE, Zhen-yuan - WANG, Fei-ran. Effects of Surfactants and Microwave-assisted Pretreatment of Orange Peel on Extracellular Enzymes Production by *Aspergillus japonicus* PJ01. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 176, no. 3, pp. 758-771., Registrované v: WOS 279. [1.1] LI, Pei-Jun - XIA, Jin-Lan - SHAN, Yang - NIE, Zhen-Yuan - SU, Dong-Lin - GAO, Qi-Rui - ZHANG, Chuang - MA, Ya-Long. Optimizing Production of Pectinase from Orange Peel by *Penicillium oxalicum* PJ02 Using Response Surface Methodology. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2015, vol. 6, no. 1, pp. 13-22., Registrované v: WOS 280. [1.1] LI, Pei-jun - XIA, Jin-lan - NIE, Zhen-yuan - SHAN, Yang. Saccharification of orange peel wastes with crude enzymes from new isolated *Aspergillus japonicus* PJ01. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2016, vol. 39, no. 3, pp. 485-492., Registrované v: WOS 281. [1.1] LI, Qian - AL LOMAN, Abdullah - CALLOW, Nicholas V. - ISLAM, S. M. Mahfuzul - JU, Lu-Kwang. Leveraging pH profiles to direct enzyme production (cellulase, xylanase, polygalacturonase, pectinase, alpha-galactosidase, and invertase) by *Aspergillus foetidus*. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 137, no., pp.

247-254., Registrované v: WOS

282. [1.1] LI, Qin - SUN, Baoguo - JIA, Huiyong - HOU, Jie - YANG, Ran - XIONG, Ke - XU, Youqiang - LI, Xiuting. Engineering a xylanase from *Streptomyces rochei* L10904 by mutation to improve its catalytic characteristics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 101, no., pp. 366-372., Registrované v: WOS

283. [1.1] LI, Qin - SUN, Baoguo - XIONG, Ke - TENG, Chao - XU, Youqiang - LI, Liangjun - LI, Xiuting. Improving special hydrolysis characterization into *Talaromyces thermophilus* F1208 xylanase by engineering of N-terminal extension and site-directed mutagenesis in C-terminal. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 96, no., pp. 451-458., Registrované v: WOS

284. [1.1] LI, Qin - SUN, Baoguo - LI, Xiuting - XIONG, Ke - XU, Youqiang - YANG, Ran - HOU, Jie - TENG, Chao. Improvement of the catalytic characteristics of a salt-tolerant GH10 xylanase from *Streptomyces rochei* L10904. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 1447-1455., Registrované v: WOS

285. [1.1] LI, Qin - WU, Qiuhua - SUN, Baoguo - YANG, Ran - HOU, Xia - TENG, Chao - ZHANG, Chengnan - LI, Xiuting. Effect of disulfide bridge on hydrolytic characteristics of xylanase from *Penicillium janthinellum*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 405-413., Registrované v: WOS

286. [1.1] LI, Xinli - HUANG, Can - YU, Xinlei - LIU, Shuang - WANG, Zhiwen - TANG, Ya-Jie - CHEN, Tao. Highly efficient hemicellulose utilization for acetoin production by an engineered *Bacillus subtilis*. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2018, vol. 93, no. 12, pp. 3428-3435., Registrované v: WOS

287. [1.1] LI, Yanli - LIU, Jiahao - WANG, Gang - YANG, Meiying - YANG, Xue - LI, Tongbing - CHEN, Guang. De novo transcriptome analysis of *Pleurotus djamor* to identify genes encoding CAZymes related to the decomposition of corn stalk lignocellulose. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 128, no. 5, pp. 529-536., Registrované v: WOS

288. [1.1] LI, Yonghao - LIU, Chenguang - BAI, Fengwu - ZHAO, Xinqing. Overproduction of cellulase by *Trichoderma reesei* RUT C30 through batch-feeding of synthesized low-cost sugar mixture. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 216, no., pp. 503-510., Registrované v: WOS

289. [1.1] LI, Yonghao - ZHANG, Xiaoyue - XIONG, Liang - MEHMOOD, Muhammad Aamer - ZHAO, Xinqing - BAI, Fengwu. On-site cellulase production and efficient saccharification of corn stover employing *cbh2* overexpressing *Trichoderma reesei* with novel induction system. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 238, no., pp. 643-649., Registrované v: WOS

290. [1.1] LI, Yong-Hao - ZHANG, Xiao-Yue - ZHANG, Fei - PENG, Liang-Cai - ZHANG, Da-Bing - KONDO, Akihiko - BAI, Feng-Wu - ZHAO, Xin-Qing. Optimization of cellulolytic enzyme components through engineering *Trichoderma reesei* and on-site fermentation using the soluble inducer for cellulosic ethanol production from corn stover. In BIOTECHNOLOGY FOR

- BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
291. [1.1] LI, Zhe - GUO, Xiaoxiao - FENG, Xudong - LI, Chun. An environment friendly and efficient process for xylitol bioconversion from enzymatic corn cob hydrolysate by adapted *Candida tropicalis*. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2015, vol. 263, no., pp. 249-256., Registrované v: WOS
292. [1.1] LI, Zhihong - ZHANG, Xiaoshuai - WANG, Qingqing - LI, Chunran - ZHANG, Nianying - ZHANG, Xinkai - XU, Birui - MA, Baoliang - SCHRADER, Tobias E. - COATES, Leighton - KOVALEVSKY, Andrey - HUANG, Yandong - WAN, Qun. Understanding the pH-Dependent Reaction Mechanism of a Glycoside Hydrolase Using High-Resolution X-ray and Neutron Crystallography. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 9, pp. 8058-8069., Registrované v: WOS
293. [1.1] LI, Zhihong - ZHANG, Xiaoshuai - LI, Chunran - KOVALEVSKY, Andrey - WAN, Qun. Studying the Role of a Single Mutation of a Family 11 Glycoside Hydrolase Using High-Resolution X-ray Crystallography. In PROTEIN JOURNAL. ISSN 1572-3887, 2020, vol. 39, no. 6, pp. 671-680. Dostupné na: <https://doi.org/10.1007/s10930-020-09938-5>., Registrované v: WOS
294. [1.1] LOMAN, Abdullah A. - JU, Lu-Kwang. Optimization of Enzymatic Process Condition for Protein Enrichment, Sugar Recovery and Digestibility Improvement of Soy Flour. In JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY. ISSN 0003-021X, 2016, vol. 93, no. 8, pp. 1063-1073., Registrované v: WOS
295. [1.1] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the beta-xy11 gene in *Trichoderma orientalis* EU7-22. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 8, no., pp., Registrované v: WOS
296. [1.1] LONG, Chuannan - CHENG, Yijin - CUI, Jingjing - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Enhancing Cellulase and Hemicellulase Production in *Trichoderma orientalis* EU7-22 via Knockout of the creA. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2018, vol. 60, no. 1, pp. 55-61., Registrované v: WOS
297. [1.1] LONG, Chuannan - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Optimization of Xylanase Production by *Trichoderma orientalis* Using Corn Cobs and Wheat Bran via Statistical Strategy. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2019, vol. 10, no. 5, pp. 1277-1284., Registrované v: WOS
298. [1.1] LONG, Lingfeng - ZHANG, Yunbo - REN, Hongyan - SUN, Haiyan - SUN, Fubao F. - QIN, Wensheng. Recombinant expression of *Aspergillus niger* GH10 endo-xylanase in *Pichia pastoris* by constructing a double-plasmid co-expression system. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2020, vol. 95, no. 3, pp. 535-543. Dostupné na: <https://doi.org/10.1002/jctb.6250>., Registrované v: WOS
299. [1.1] LOPES, Leandro S. - VIEIRA, Nicolly - DA LUZ, Jose Maria R. - SILVA, Marliane de Cassia S. - CARDOSO, Wilton Soares - KASUYA, Maria Catarina M. Production of fungal enzymes in Macauba coconut and enzymatic degradation of textile dye. In BIOCATALYSIS AND

AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 26, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101651>., Registrované v: WOS

300. [1.1] LOUREIRO, Dana B. - BRAIA, Mauricio - ROMANINI, Diana - TUBIO, Gisela. Partitioning of xylanase from *Thermomyces lanuginosus* in PEG/NaCit aqueous two-phase systems: Structural and functional approach. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2017, vol. 129, no., pp. 25-30., Registrované v: WOS

301. [1.1] LUTHFI, Abdullah Amru Indera - TAN, Jian Ping - HARUN, Shuhaida - MANAF, Shareena Fairuz Abdul - JAHIM, Jamaliah Md. Homogeneous solid dispersion (HSD) system for rapid and stable production of succinic acid from lignocellulosic hydrolysate. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2019, vol. 42, no. 1, pp. 117-130., Registrované v: WOS

302. [1.1] LUTHFI, Abdullah Amru Indera - JAHIM, Jamaliah Md - HARUN, Shuhaida - TAN, Jian Ping - MOHAMMAD, Abdul Wahab. Biorefinery approach towards greener succinic acid production from oil palm frond bagasse. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 10, pp. 1527-1537., Registrované v: WOS

303. [1.1] LU, Xueli - FANG, Yunxia - TIAN, Bin - TONG, Tao - WANG, Jiahui - WANG, Hua - CAI, Shengguan - HU, Jiang - ZENG, Dali - XU, Heng - ZHANG, Xiaoqin - XUE, Dawei. Genetic variation of HvXYN1 associated with endoxylanase activity and TAX content in barley (*Hordeum vulgare* L.). In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no., pp., Registrované v: WOS

304. [1.1] MAAN, Poonam - BHARTI, Amit Kumar - GAUTAM, Sneha - DUTT, Dharm. Screening of Important Factors for Xylanase and Cellulase Production from the Fungus *C. cinerea* RM-1 NFCCI-3086 through Plackett-Burman Experimental Design. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8269-8276., Registrované v: WOS

305. [1.1] MAAN, Poonam - BHARTI, Amit Kumar - GAUTAM, Sneha - DUTT, Dharm. Screening of Important Factors for Xylanase and Cellulase Production from the Fungus *C. cinerea* RM-1 NFCCI-3086 through Plackett-Burman Experimental Design. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8269-8276., Registrované v: WOS

306. [1.1] MADHAIYAN, Munusamy - POONGUZHALI, Selvaraj - SARAVANAN, Venkatakrishnan Sivaraj - PRAGATHESWARI, Dhandapani - DURAI PANDIYAN, Veeramuthu - AL-DHABI, Naif Abdullah - SANTHANAKRISHNAN, Palani. *Paenibacillus methanolicus* sp. nov., a xylanolytic, methanol-utilizing bacterium isolated from the phyllosphere of bamboo (*Pseudosasa japonica*). In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2016, vol. 66, no., pp. 4362-4366., Registrované v: WOS

307. [1.1] MAFEI, Thamyres Del Torto - NETO, Flavia Sanchez Penalva Pinto - PEIXOTO, Guilherme - DE BAPTISTA NETO, Alvaro - MONTI, Rubens - MASARIN, Fernando. Extraction and Characterization of Hemicellulose from Eucalyptus By-product: Assessment of Enzymatic Hydrolysis to Produce Xylooligosaccharides. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 190, no. 1, pp. 197-217. Dostupné na: <https://doi.org/10.1007/s12010-019-03076-0>., Registrované v: WOS

308. [1.1] MACHADO, Angela S. - VALADARES, Fernanda - SILVA, Tatiane F. - MILAGRES, Adriane M. F. - SEGATO, Fernando - FERRAZ, Andre. The Secretome of *Phanerochaete chrysosporium* and *Trametes versicolor* Grown in Microcrystalline Cellulose and Use of the Enzymes for Hydrolysis of Lignocellulosic Materials. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00826>., Registrované v: WOS
309. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
310. [1.1] MAKHUELE, Rhulani - NCUBE, Ignatious - VAN RENSBURG, Elbert Lukas Jansen - LA GRANGE, Daniel Coenrad. Isolation of fungi from dung of wild herbivores for application in bioethanol production. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, 2017, vol. 48, no. 4, pp. 648-655., Registrované v: WOS
311. [1.1] MALHOTRA, Girisha - CHAPADGAONKAR, Shilpa S. Production and applications of xylanases – An overview. In Biotechnologia. ISSN 08607796, 2018-01-01, 99, 1, pp. 59-72., Registrované v: WOS
312. [1.1] MALINOWSKA, Klara H. - RIND, Thomas - VERDORFER, Tobias - GAUB, Hermann E. - NASH, Michael A. Quantifying Synergy, Thermostability, and Targeting of Cellulolytic Enzymes and Cellulosomes with Polymerization-Based Amplification. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 14, pp. 7133-7140., Registrované v: WOS
313. [1.1] MAMATHA, Pingili - RAJ, Marla Shailaja - RAMAKRISHNA, Raparla. Comparative analysis of enzymes production by *Aspergillus niger* using Pretreated *Albizia lebbek* fruit pods. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2020, vol. 15, no. 7, pp. 98-104., Registrované v: WOS
314. [1.1] MANSOUR, A. A. - DA COSTA, A. - ARNAUD, T. - LU-CHAU, T. A. - FDZ-POLANCO, Maria - MOREIRA, M. T. - RIVERO, J. A. Cacho. Review of lignocellulolytic enzyme activity analyses and scale-down to microplate-based assays. In TALANTA. ISSN 0039-9140, 2016, vol. 150, no., pp. 629-637., Registrované v: WOS
315. [1.1] MARDONES, Wladimir - CALLEGARI, Eduardo - EYZAGUIRRE, Jaime. Heterologous expression of a *Penicillium purpurogenum* exo-arabinanase in *Pichia pastoris* and its biochemical characterization. In FUNGAL BIOLOGY. ISSN 1878-6146, 2015, vol. 119, no. 12, pp. 1267-1278., Registrované v: WOS
316. [1.1] MARIM, Renan Alberto - AVELINO, Katielle Vieira - WIETZIKOSKI HALABURA, Marisangela Isabel - ARAUJO, Nelma Lopes - SANTANA, Thiago Teodoro - LINDE, Giani Andrea - COLAUTO, Nelson Barros - DO VALLE, Juliana Silveira. *Lentinus crinitus* RESPONSE TO BLUE LIGHT ON CARBOHYDRATE-ACTIVE ENZYMES. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2020, vol. 36, no. 3, pp. 924-931. Dostupné na: <https://doi.org/10.14393/BJ-v36n3a2020-49986>., Registrované v: WOS
317. [1.1] MARTELLI-TOSI, Milena - TORRICILLAS, Marcela da Silva

- MARTINS, Maria Alice - GARRIDO DE ASSIS, Odilio Benedito - TAPIA-BLACIDO, Delia Rita. Using Commercial Enzymes to Produce Cellulose Nanofibers from Soybean Straw. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2016, vol., no., pp., Registrované v: WOS
318. [1.1] MARTINEZ-PACHECO, Mauro M. - FLORES-GARCIA, Alberto - ZAMUDIO-JARAMILLO, Miguel A. - CARMEN CHAVEZ-PARGA, Ma - ALVAREZ-NAVARRETE, Mariana. Optimization of production of xylanases with low cellulases in *Fusarium solani* by means of a solid state fermentation using statistical experimental design. In REVISTA ARGENTINA DE MICROBIOLOGIA. ISSN 0325-7541, 2020, vol. 52, no. 4, pp. 328-338. Dostupné na: <https://doi.org/10.1016/j.ram.2019.12.003>., Registrované v: WOS
319. [1.1] MARTINS, Manoela - AVILA, Patricia Felix - PAIM DE ANDRADE, Cristiane Conte - GOLDBECK, Rosana. Synergic recombinant enzyme association to optimize xylo-oligosaccharides production from agricultural waste. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 28, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101747>., Registrované v: WOS
320. [1.1] MASUTTI, Dayanne C. - BORGOGNONE, Alessandra - SCARDOVI, Fabio - VACCARI, Claudio - SETTI, Leonardo. Effects on the Enzymes Production from Different Mixes of Agro-Food Wastes. In ICHEAP12: 12TH INTERNATIONAL CONFERENCE ON CHEMICAL & PROCESS ENGINEERING. ISSN 1974-9791, 2015, vol. 43, no., pp. 487-492., Registrované v: WOS
321. [1.1] MASUTTI, Dayanne C. - SCARDOVI, Fabio - BORGOGNONE, Alessandra - SETTI, Leonardo. Agro-food Wastes for the Release of Phyto-Chemicals and the Production of Enzymes by Solid State Fermentation Using *Pleurotus ostreatus*. In 5TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL BIOTECHNOLOGY (IBIC 2016). ISSN 1974-9791, 2016, vol. 49, no., pp. 139-144., Registrované v: WOS
322. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-oligosaccharides and arabinoxyloligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 260, no., pp. 53-61., Registrované v: WOS
323. [1.1] MATSAKAS, Leonidas - ANTONOPOULOU, Io - CHRISTAKOPOULOS, Paul. Evaluation of *Myceliophthora thermophila* as an Enzyme Factory for the Production of Thermophilic Cellulolytic Enzymes. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 3, pp. 5140-5158., Registrované v: WOS
324. [1.1] MAZLAN, Nurul Aishah - SAMAD, Kamaliah Abdul - YUSSOF, Hafizuddin Wan - SAUFI, Syed Mohd - JAHIM, Jamaliah. Xylooligosaccharides from potential agricultural waste: Characterization and screening on the enzymatic hydrolysis factors. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 129, no., pp. 575-584., Registrované v: WOS
325. [1.1] MA, Jiangshan - ZHANG, Keke - HUANG, Mei - HECTOR, Stanton B. - LIU, Bin - TONG, Chunyi - LIU, Qian - ZENG, Jiarui - GAO, Yan -

- XU, Ting - LIU, Ying - LIU, Xuanming - ZHU, Yonghua. Involvement of Fenton chemistry in rice straw degradation by the lignocellulolytic bacterium *Pantoea ananatis* Sd-1. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
326. [1.1] MA, Jiangshan - ZHANG, Keke - LIAO, Hongdong - HECTOR, Stanton B. - SHI, Xiaowei - LI, Jianglin - LIU, Bin - XU, Ting - TONG, Chunyi - LIU, Xuanming - ZHU, Yonghua. Genomic and secretomic insight into lignocellulolytic system of an endophytic bacterium *Pantoea ananatis* Sd-1. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
327. [1.1] MA, Kedong - RUAN, Zhiyong. Production of a lignocellulolytic enzyme system for simultaneous bio-delignification and saccharification of corn stover employing co-culture of fungi. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 175, no., pp. 586-593., Registrované v: WOS
328. [1.1] MA, Lijuan - CUI, Youzhi - CAI, Rui - LIU, Xueqiang - ZHANG, Cuiying - XIAO, Dongguang. Optimization and evaluation of alkaline potassium permanganate pretreatment of corncob. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 180, no., pp. 1-6., Registrované v: WOS
329. [1.1] MA, Lijuan - MA, Qing - CAI, Rui - ZONG, Zhiyou - DU, Liping - GUO, Gaojie - ZHANG, Yingying - XIAO, Dongguang. Effect of mannanase domain from *Trichoderma reesei* on its biochemical characters and synergistic hydrolysis of sugarcane bagasse. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2018, vol. 98, no. 7, pp. 2540-2547., Registrované v: WOS
330. [1.1] MA, Lijuan - MA, Qing - GUO, Gaojie - DU, Liping - ZHANG, Yingying - CUI, Youzhi - XIAO, Dongguang. Optimization of sodium percarbonate pretreatment for improving 2,3-butanediol production from corncob. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2018, vol. 48, no. 3, pp. 218-225., Registrované v: WOS
331. [1.1] MA, S. - WANG, X. X. - ZHENG, X. L. - TIAN, J. Z. - BIAN, K. - LI, L. - XU, R. Physicochemical properties of wheat grains affected by after-ripening. In QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS. ISSN 1757-8361, 2016, vol. 8, no. 2, pp. 189-194., Registrované v: WOS
332. [1.1] MCCLEARY, Barry V. - MCGEOUGH, Paraic. A Comparison of Polysaccharide Substrates and Reducing Sugar Methods for the Measurement of endo-1,4-beta-Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 5, pp. 1152-1163., Registrované v: WOS
333. [1.1] MEEHNIAN, Harmanpreet - JANA, Asim K. Cotton Stalk Pretreatment Using *Daedalea flavida*, *Phlebia radiata*, and *Flavodon flavus*: Lignin Degradation, Cellulose Recovery, and Enzymatic Saccharification. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 181, no. 4, pp. 1465-1484., Registrované v: WOS
334. [1.1] MEEHNIAN, Harmanpreet - JANA, Asim K. - JANA, Mithu Maiti. Variation in Particle Size, Moisture Content and Supplements for Improvement of Cotton Stalks' Lignin Degradation by *Phlebia radiata* and Saccharification. In INDIAN CHEMICAL ENGINEER. ISSN 0019-4506, 2018,

vol. 60, no. 2, pp. 196-209., Registrované v: WOS

335. [1.1] MEEHNIAN, Harmanpreet - JANA, Asim K. - JANA, Mithu Maiti. Effect of particle size, moisture content, and supplements on selective pretreatment of cotton stalks by *Daedalea flavida* and enzymatic saccharification. In 3 BIOTECH. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS

336. [1.1] MEHNATI-NAJAFABADI, Vajihe - TAHERI-KAFRANI, Asghar - BORDBAR, Abdol-Khalegh. Xylanase immobilization on modified superparamagnetic graphene oxide nanocomposite: Effect of PEGylation on activity and stability. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 418-425., Registrované v: WOS

337. [1.1] Mehnati-Najafabadi, V (Mehnati-Najafabadi, Vajihe); Taheri-Kafrani, A (Taheri-Kafrani, Asghar); Bordbar, AK (Bordbar, Abdol-Khalegh); Eidi, A (Eidi, Akram). Covalent immobilization of xylanase from *Thermomyces lanuginosus* on aminated superparamagnetic graphene oxide nanocomposite. In: JOURNAL OF THE IRANIAN CHEMICAL SOCIETY. ISSN 1735-207X, 2019, Volume: 16 Issue: 1 Pages: 21-31, Registrované v: WOS

338. [1.1] MENDONCA, Elenira H. M. - AVANCI, Nilton Cesar - ROMANO, Luis Henrique - BRANCO, Daniel Lopes - DE PADUA, Alessandra Xavier - WARD, Richard John - DE BAPTISTA NETO, Alvaro - LOURENZONI, Marcos Roberto. Recombinant xylanase production by *Escherichia coli* using a non-induced expression system with different nutrient sources. In BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING. ISSN 0104-6632, 2020, vol. 37, no. 1, pp. 29-39. Dostupné na: <https://doi.org/10.1007/s43153-019-00004-x>., Registrované v: WOS

339. [1.1] MENEGOL, Daiane - FONTANA, Roselei Claudete - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Second-generation ethanol production from elephant grass at high total solids. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 211, no., pp. 280-290., Registrované v: WOS

340. [1.1] MENEGOL, Daiane - SCHOLL, Angelica Luisi - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Influence of different chemical pretreatments of elephant grass (*Pennisetum purpureum*, Schum.) used as a substrate for cellulase and xylanase production in submerged cultivation. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2016, vol. 39, no. 9, pp. 1455-1464., Registrované v: WOS

341. [1.1] MENEGOL, D. - SCHOLL, A. L. - DILLON, A. J. P. - CAMASSOLA, M. USE OF ELEPHANT GRASS (*Pennisetum purpureum*) AS SUBSTRATE FOR CELLULASE AND XYLANASE PRODUCTION IN SOLID-STATE CULTIVATION BY *Penicillium echinulatum*. In BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING. ISSN 0104-6632, 2017, vol. 34, no. 3, pp. 691-700., Registrované v: WOS

342. [1.1] METREVELI, Eka - KACHLISHVILI, Eva - SINGER, Steven W. - ELISASHVILI, Vladimir. Alteration of white-rot basidiomycetes cellulase and xylanase activities in the submerged co-cultivation and optimization of enzyme production by *Irpex lacteus* and *Schizophyllum commune*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 241, no., pp. 652-660., Registrované v: WOS

343. [1.1] MHIRI, Sonia - BOUANANE-DARENFED, Amel - JEMLI,

- Sonia - NEIFAR, Sawssan - AMERI, Rihab - MEZGHANI, Monia - BOUACEM, Khelifa - JAOUADI, Bassem - BEJAR, Samir. A thermophilic and thermostable xylanase from *Caldicoprobacter algeriensis*: Recombinant expression, characterization and application in paper biobleaching. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 808-817. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.162>., Registrované v: WOS
344. [1.1] MIGUEL OLIVA, Jose; JOSE NEGRO, Maria; MANZARES, Paloma; BALLESTEROS, Ignacio; ANGEL CHAMORRO, Miguel; SAEZ, Felicia; BALLESTEROS, Mercedes; MORENO, Antonio D. A Sequential Steam Explosion and Reactive Extrusion Pretreatment for Lignocellulosic Biomass Conversion within a Fermentation-Based Biorefinery Perspective. In FERMENTATION. ISSN 2311-5637, 2017, vol. 3, article no. 15, Registrované v: WOS
345. [1.1] MISHRA, Vartika - JANA, Asim K. Fungal Pretreatment of Sweet Sorghum Bagasse with Combined CuSO₄-Gallic Acid Supplement for Improvement in Lignin Degradation, Selectivity, and Enzymatic Saccharification. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 200-217., Registrované v: WOS
346. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Enhancement in multiple lignolytic enzymes production for optimized lignin degradation and selectivity in fungal pretreatment of sweet sorghum bagasse. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 236, no., pp. 49-59., Registrované v: WOS
347. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Fungal pretreatment of sweet sorghum bagasse with supplements: improvement in lignin degradation, selectivity and enzymatic saccharification. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
348. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Improvement of selective lignin degradation in fungal pretreatment of sweet sorghum bagasse using synergistic CuSO₄-syngingic acid supplements. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2017, vol. 193, no., pp. 558-566., Registrované v: WOS
349. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Synergistic effect of syngingic acid and gallic acid supplements in fungal pretreatment of sweet sorghum bagasse for improved lignin degradation and enzymatic saccharification. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 55, no., pp. 116-125., Registrované v: WOS
350. [1.1] MISHRA, Vartika - JANA, Asim K. Sweet Sorghum Bagasse Pretreatment by *Coriolus versicolor* in Mesh Tray Bioreactor for Selective Delignification and Improved Saccharification. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2019, vol. 10, no. 9, pp. 2689-2702., Registrované v: WOS
351. [1.1] MI, Lan - YANG, Bin - HU, Xialu - LUO, Yang - LIU, Jianxin - YU, Zhongtang - WANG, Jiakun. Comparative Analysis of the Microbiota Between Sheep Rumen and Rabbit Cecum Provides New Insight Into Their Differential Methane Production. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
352. [1.1] MOHAMED, Magda A. - GHANEM, Manal M. E. -

- ABD-ELAZIZ, Ahmed M. - SHAMS-ELDIN, Ibrahim M. Purification and characterization of xylanase isoenzymes from red palm weevil *Rhynchophorus ferrugineus*. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 14, no., pp. 321-327., Registrované v: WOS
353. [1.1] MOHAPATRA, Sonali - JENA, Swarnamanjuri - JENA, Pradip Kumar - BADHAI, Jhasketan - ACHARYA, Achyuta Nanda - THATOI, Hrudayanath. Partial consolidated bioprocessing of pretreated *Pennisetum* sp. by anaerobic thermophiles for enhanced bioethanol production. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 256, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.127126>., Registrované v: WOS
354. [1.1] MONARI, Stefania - FERRI, Maura - VANNINI, Micaela - SISTI, Laura - MARCHESE, Paola - EHRNELL, Maria - XANTHAKIS, Epameinondas - CELLI, Annamaria - TASSONI, Annalisa. Cascade strategies for the full valorisation of Garganega white grape pomace towards bioactive extracts and bio-based materials. In *PLOS ONE*. ISSN 1932-6203, 2020, vol. 15, no. 9, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0239629>., Registrované v: WOS
355. [1.1] MONTIEL, Carmina - HERNANDEZ-MELENDZ, Oscar - VIVALDO-LIMA, Eduardo - HERNANDEZ-LUNA, Martin - BARZANA, Eduardo. Enhanced Bioethanol Production from Blue Agave Bagasse in a Combined Extrusion-Saccharification Process. In *BioEnergy Research*. ISSN 1939-1234, 2016, vol. 9, no. 4, pp. 1005-1014., Registrované v: WOS
356. [1.1] MORAIS, Camila G. - LARA, Carla A. - OLIVEIRA, Evelyn S. - PETER, Gabor - DLAUCHY, Denes - ROSA, Carlos A. *Spencermartinsiella silvicola* sp nov., a yeast species isolated from rotting wood. In *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*. ISSN 1466-5026, 2016, vol. 66, no., pp. 604-608., Registrované v: WOS
357. [1.1] MOSINA, Ntsoaki Leticia - SCHUBERT, Wolf-Dieter - COWAN, Don A. Characterization and homology modelling of a novel multi-modular and multi-functional *Paenibacillus mucilaginosus* glycoside hydrolase. In *EXTREMOPHILES*. ISSN 1431-0651, 2019, vol. 23, no. 6, pp. 681-686., Registrované v: WOS
358. [1.1] MOTESHAFI, Hadis - MOUSAVI, Seyyed Mohammad - HASHEMI, Maryam. Enhancement of xylanase productivity using industrial by-products under solid suspended fermentation in a stirred tank bioreactor, with a dissolved oxygen constant control strategy. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 42, pp. 35559-35567., Registrované v: WOS
359. [1.1] MOTESHAFI, H. - HASHEMI, M. - MOUSAVI, S. M. - MOUSIVAND, M. Characterization of produced xylanase by *Bacillus subtilis* D3d newly isolated from apricot phyllosphere and its potential in pre-digestion of BSG. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*. ISSN 1226-086X, 2016, vol. 37, no., pp. 251-260., Registrované v: WOS
360. [1.1] MOTESHAFI, H. - MOUSAVI, S. M. - HASHEMI, M. Aeration challenge in high BSG suspended fermentation: Impact of stirred-tank bioreactor scale. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2019, vol. 130, no., pp., Registrované v: WOS
361. [1.1] MUKHERJEE, Anjan - DUTTA, Dipanjan - BANERJEE, Sudeshna - RINGO, Einar - BREINES, Eva Marie - HAREIDE, Ellinor -

- CHANDRA, Goutam - GHOSH, Koushik. Culturable autochthonous gut bacteria in rohu, *Labeo rohita*. In vitro growth inhibition against pathogenic *Aeromonas* spp., stability in gut, bio-safety and identification by 16S rRNA gene sequencing. In SYMBIOSIS. ISSN 0334-5114, 2017, vol. 73, no. 3, pp. 165-177., Registrované v: WOS
362. [1.1] MUKHERJEE, Anjan - DUTTA, Dipanjan - BANERJEE, Sudeshna - RINGO, Einar - BREINES, Eva Marie - HAREIDE, Ellinor - CHANDRA, Goutam - GHOSH, Koushik. Potential probiotics from Indian major carp, *Cirrhinus mrigala*. Characterization, pathogen inhibitory activity, partial characterization of bacteriocin and production of exoenzymes. In RESEARCH IN VETERINARY SCIENCE. ISSN 0034-5288, 2016, vol. 108, no., pp. 76-84., Registrované v: WOS
363. [1.1] MUKHERJEE, Anjan - GHOSH, Koushik. Antagonism against fish pathogens by cellular components and verification of probiotic properties in autochthonous bacteria isolated from the gut of an Indian major carp, *Catla catla* (Hamilton). In AQUACULTURE RESEARCH. ISSN 1355-557X, 2016, vol. 47, no. 7, pp. 2243-2255., Registrované v: WOS
364. [1.1] MUKHERJEE, Trinetra - BANIK, Avishek - MUKHOPADHYAY, Subhra Kanti. Plant Growth-Promoting Traits of a Thermophilic Strain of the *Klebsiella* Group with its Effect on Rice Plant Growth. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2020, vol. 77, no. 10, pp. 2613-2622. Dostupné na: <https://doi.org/10.1007/s00284-020-02032-0>., Registrované v: WOS
365. [1.1] NADAROGLU, Hayrunnisa - ADIGUZEL, Gulsah - ADIGUZEL, Ahmet - SONMEZ, Zeynep. A thermostable-endo-beta-(1,4)-mannanase from *Pediococcus acidilactici* (M17): purification, characterization and its application in fruit juice clarification. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2017, vol. 243, no. 2, pp. 193-201., Registrované v: WOS
366. [1.1] NADAROGLU, Hayrunnisa - ADIGUZEL, Ahmet - ADIGUZEL, Gulsah. Purification and characterisation of beta-mannanase from *Lactobacillus plantarum* (M24) and its applications in some fruit juices. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2015, vol. 50, no. 5, pp. 1158-1165., Registrované v: WOS
367. [1.1] NAHAR, Nurun - PRYOR, Scott W. Effects of reduced severity ammonia pretreatment on pelleted corn stover. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 163-172., Registrované v: WOS
368. [1.1] NAHAR, Nurun - RIPPLINGER, David - PRYOR, Scott W. Process yield and economic trade-offs for enzymatic hydrolysis of alkaline pretreated corn stover. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2017, vol. 99, no., pp. 97-105., Registrované v: WOS
369. [1.1] NARRA, Madhuri - RUDAKIYA, Darshan M. - MACWAN, Kumud - PATEL, Nidhi. Black liquor: A potential moistening agent for production of cost-effective hydrolytic enzymes by a newly isolated cellulose-xylanase fungal strain *Aspergillus tubingensis* and its role in higher saccharification efficiency. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 306, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123149>., Registrované v: WOS
370. [1.1] NATHAN, Vinod Kumar - RANI, Mary Esther -

- RATHINASAMY, Gunaseeli - DHIRAVIAM, Kannan Narayanan. Low Molecular Weight Xylanase from *Trichoderma viride* VKF3 for Bio-bleaching of Newspaper Pulp. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5264-5278., Registrované v: WOS
371. [1.1] NGUYEN THANH TRUNG - NGUYEN MINH HUNG - NGUYEN HUY THUAN - NGUYEN XUAN CANH - SCHWEDER, Thomas - JUERGEN, Britta. An auto-inducible phosphate-controlled expression system of *Bacillus licheniformis*. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2019, vol. 19, no., pp., Registrované v: WOS
372. [1.1] NIKINMAA, Markus - ALAM, Syed Ariful - RAULIO, Mari - KATINA, Kati - KAJALA, Ilkka - NORDLUND, Emilia - SOZER, Nesli. Bioprocessing of bran with exopolysaccharide producing microorganisms as a tool to improve expansion and textural properties of extruded cereal foams with high dietary fibre content. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 77, no., pp. 170-177., Registrované v: WOS
373. [1.1] NOGUEIRA, Cleitiane da Costa - DE ARAUJO PADILHA, Carlos Eduardo - DE SA LEITAO, Ana Laura - ROCHA, Patricia Maria - DE MACEDO, Gorete Ribeiro - DOS SANTOS, Everaldo Silvino. Enhancing enzymatic hydrolysis of green coconut fiber-Pretreatment assisted by tween 80 and water effect on the post-washing. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 112, no., pp. 734-740., Registrované v: WOS
374. [1.1] NOGUEIRA, Cleitiane da Costa - DE ARAUJO PADILHA, Carlos Eduardo - DE JESUS, Anderson Alles - DE SANTANA SOUZA, Domingos Fabiano - DE ASSIS, Cristiane Fernandes - DE SOUSA JUNIOR, Francisco Caninde - DOS SANTOS, Everaldo Silvino. Pressurized pretreatment and simultaneous saccharification and fermentation with in situ detoxification to increase bioethanol production from green coconut fibers. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 130, no., pp. 259-266., Registrované v: WOS
375. [1.1] NOORT, Martijn W. J. - MATTILA, Outi - KATINA, Kati - VAN DER KAMP, Jan Willem. HealthBread: Wholegrain and high fibre breads with optimised textural quality. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 78, no., pp. 57-65., Registrované v: WOS
376. [1.1] NOROUZI, Sara - BIRGANI, Nazanin Hajati - MAGHAMI, Parvaneh - ARIAENEJAD, Shohreh. Improvement of PersiXyn2 activity and stability in presence of Trehalose and proline as a natural osmolyte. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 348-357. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.288>., Registrované v: WOS
377. [1.1] NUTONGKAEW, Tanawut - PRASERTSAN, Poonsuk - LEAMDUM, Chonticha - SATTAYASAMITSATHIT, Supalak - NOPARAT, Pongsak. Bioconversion of Oil Palm Trunk Residues Hydrolyzed by Enzymes from Newly Isolated Fungi and Use for Ethanol and Acetic Acid Production Under Two-Stage and Simultaneous Fermentation. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 4, pp. 1333-1347. Dostupné na: <https://doi.org/10.1007/s12649-019-00678-x>., Registrované v: WOS
378. [1.1] NUTONGKAEW, Tanawut - PRASERTSAN, Poonsuk - O-THONG, Sompong - CHANTHONG, Sukonlarat - SUYOTHA, Wasana.

Improved Methane Production Using Lignocellulolytic Enzymes from *Trichoderma koningiopsis* TM3 Through Co-digestion of Palm Oil Mill Effluent and Oil Palm Trunk Residues. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 10, pp. 5123-5136. Dostupné na: <https://doi.org/10.1007/s12649-019-00838-z>., Registrované v: WOS

379. [1.1] OLADI, Saeed - AITA, Giovanna M. Interactive effect of enzymes and surfactant on the cellulose digestibility of un-washed and washed dilute ammonia pretreated energy cane bagasse. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 109, no., pp. 221-230., Registrované v: WOS

380. [1.1] OUTEIRINO, David - COSTA-TRIGO, Ivan - DE SOUZA OLIVEIRA, Ricardo Pinheiro - PEREZ GUERRA, Nelson - MANUEL DOMINGUEZ, Jose. A novel approach to the biorefinery of brewery spent grain. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 85, no., pp. 135-142., Registrované v: WOS

381. [1.1] PACCANARO, Maria Chiara - SELLA, Luca - CASTIGLIONI, Carla - GIACOMELLO, Francesca - MARTINEZ-ROCHA, Ana Lilia - D'OVIDIO, Renato - SCHAEFER, Wilhelm - FAVARON, Francesco. Synergistic Effect of Different Plant Cell Wall-Degrading Enzymes Is Important for Virulence of *Fusarium graminearum*. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2017, vol. 30, no. 11, pp. 886-895., Registrované v: WOS

382. [1.1] PASCHOS, Thomas - XIROS, Charilaos - CHRISTAKOPOULOS, Paul. Simultaneous saccharification and fermentation by co-cultures of *Fusarium oxysporum* and *Saccharomyces cerevisiae* enhances ethanol production from liquefied wheat straw at high solid content. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 76, no., pp. 793-802., Registrované v: WOS

383. [1.1] PASCHOS, Thomas - XIROS, Charilaos - CHRISTAKOPOULOS, Paul. Ethanol effect on metabolic activity of the ethalogenic fungus *Fusarium oxysporum*. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2015, vol. 15, no., pp., Registrované v: WOS

384. [1.1] PATANE, Cristina - MALVUCCIO, Angelo - SAITA, Alessandro - RIZZARELLI, Paola - SIRACUSA, Laura - RIZZO, Valeria - MURATORE, Giuseppe. Nutritional changes during storage in fresh-cut long storage tomato as affected by biocompostable polylactide and cellulose based packaging. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2019, vol. 101, no., pp. 618-624., Registrované v: WOS

385. [1.1] PATANE, Cristina - PELLEGRINO, Alessandra - SAITA, Alessandro - SIRACUSA, Laura - RUBERTO, Giuseppe - BARBAGALLO, Riccardo. Mediterranean long storage tomato as a source of novel products for the agrifood industry: Nutritional and technological traits. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 85, no., pp. 445-448., Registrované v: WOS

386. [1.1] PATANE, Cristina - PELLEGRINO, Alessandra - DI SILVESTRO, Isabella. Effects of calcium carbonate application on physiology, yield and quality of field-grown tomatoes in a semi-arid Mediterranean climate. In CROP & PASTURE SCIENCE. ISSN 1836-0947, 2018, vol. 69, no. 4, pp. 411-418., Registrované v: WOS

387. [1.1] PATANE, C. - PELLEGRINO, A. - MALVUCCIO, A. - SIRACUSA, L. - RUBERTO, G. - RIZZO, V. - GIUFFRIDA, F. Minimally

- processed long-storage Mediterranean tomato: a novel product from traditional crops in the agrifood industry. In III INTERNATIONAL CONFERENCE ON FRESH-CUT PRODUCE: MAINTAINING QUALITY AND SAFETY. ISSN 0567-7572, 2016, vol. 1141, no., pp. 297-303., Registrované v: WOS
388. [1.1] PATEL, Harshvadan - CHAPLA, Digantkumar - SHAH, Amita. Bioconversion of pretreated sugarcane bagasse using enzymatic and acid followed by enzymatic hydrolysis approaches for bioethanol production. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 109, no., pp. 323-331., Registrované v: WOS
389. [1.1] PATEL, Kartik - DUDHAGARA, Pravin. Optimization of xylanase production by *Bacillus tequilensis* strain UD-3 using economical agricultural substrate and its application in rice straw pulp bleaching. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 30, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101846>., Registrované v: WOS
390. [1.1] PATEL, Kartik - DUDHAGARA, Pravin. Compatibility testing and enhancing the pulp bleaching process by hydrolases of the newly isolated thermophilic *Isotericola variabilis* strain UD-6. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2020, vol. 38, no. 2, pp. 144-160. Dostupné na: <https://doi.org/10.1080/10242422.2019.1711067>., Registrované v: WOS
391. [1.1] PATHAK, Puneet - BHARDWAJ, Nishi Kant - SINGH, Ajay Kumar. Enzymatic deinking for recycling of photocopier waste papers using crude cellulase and xylanase of *Trichoderma harzianum* PPDDN10 NFCCI 2925. In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2015, vol. 30, no. 4, pp. 689-700., Registrované v: WOS
392. [1.1] PAZ, Alicia - OUTEIRINO, David - PEREZ GUERRA, Nelson - MANUEL DOMINGUEZ, Jose. Enzymatic hydrolysis of brewer's spent grain to obtain fermentable sugars. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 275, no., pp. 402-409., Registrované v: WOS
393. [1.1] PEDRI, Z. C. - LOZANO, L. M. S. - HERMANN, K. L. - HELM, C. V. - PERALTA, R. M. - TAVARES, L. B. B. Influence of nitrogen sources on the enzymatic activity and growth by *Lentinula edodes* in biomass *Eucalyptus benthamii*. In BRAZILIAN JOURNAL OF BIOLOGY. ISSN 1519-6984, 2015, vol. 75, no. 4, pp. 940-947., Registrované v: WOS
394. [1.1] PENGILLY, C. - GARCIA-APARICIO, M. P. - DIEDERICKS, D. - BRIENZO, M. - GOERGENS, J. F. Enzymatic hydrolysis of steam-pretreated sweet sorghum bagasse by combinations of cellulase and endo-xylanase. In FUEL. ISSN 0016-2361, 2015, vol. 154, no., pp. 352-360., Registrované v: WOS
395. [1.1] PENGILLY, C. - GARCIA-APARICIO, M. P. - DIEDERICKS, D. - GORGENS, J. F. Optimization of Enzymatic Hydrolysis of Steam Pretreated Triticale Straw. In BIOENERGY RESEARCH. ISSN 1939-1234, 2016, vol. 9, no. 3, pp. 851-863., Registrované v: WOS
396. [1.1] PEREIRA, Barbara - ARANTES, Valdeir. Production of cellulose nanocrystals integrated into a biochemical sugar platform process via enzymatic hydrolysis at high solid loading. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 152, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112377>., Registrované v: WOS
397. [1.1] PEREZ-RODRIGUEZ, N. - TORRADO AGRASAR, A. -

DOMINGUEZ, J. M. High hydrostatic pressure as pretreatment and adjuvant for the enzymatic release of ferulic acid from corn cob. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 204-210., Registrované v: WOS

398. [1.1] PEREZ-RODRIGUEZ, N. - MOREIRA, C. D. - AGRASAR, A. Torrado - DOMINGUEZ, J. M. Feruloyl esterase production by *Aspergillus terreus* CECT 2808 and subsequent application to enzymatic hydrolysis. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2016, vol. 91, no., pp. 52-58., Registrované v: WOS

399. [1.1] PERE, Jaakko - PAAKKONEN, Elina - JI, Yun - RETULAINEN, Elias. Influence of the Hemicellulose Content on the Fiber Properties, Strength, and Formability of Handsheets. In *BIORESOURCES*. ISSN 1930-2126, 2019, vol. 14, no. 1, pp. 251-263., Registrované v: WOS

400. [1.1] PERE, Jaakko - TAMMELIN, Tekla - NIEMI, Piritta - LILLE, Martina - VIRTANEN, Tommi - PENTTILA, Paavo A. - AHVENAINEN, Patrik - GRONQVIST, Stina. Production of High Solid Nanocellulose by Enzyme-Aided Fibrillation Coupled with Mild Mechanical Treatment. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 51, pp. 18853-18863. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05202>., Registrované v: WOS

401. [1.1] PEROVIC, Milica N. - JUGOVIC, Zorica D. Knezevic - ANTOV, Mirjana G. Improved recovery of protein from soy grit by enzyme-assisted alkaline extraction. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2020, vol. 276, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfoodeng.2019.109894>., Registrované v: WOS

402. [1.1] PERWEZ, Mohammad - AHMAD, Razi - SARDAR, Meryam. A reusable multipurpose magnetic nanobiocatalyst for industrial applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 16-24., Registrované v: WOS

403. [1.1] PERWEZ, Mohammad - MAZUMDER, Jahirul Ahmed - SARDAR, Meryam. Preparation and characterization of reusable magnetic combi-CLEA of cellulase and hemicellulase. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2019, vol. 131, no., pp., Registrované v: WOS

404. [1.1] PINHEIRO, Guilherme L. - DE AZEVEDO-MARTINS, Allan C. - ALBANO, Rodolpho M. - DE SOUZA, Wanderley - FRASES, Susana. Comprehensive analysis of the cellulolytic system reveals its potential for deconstruction of lignocellulosic biomass in a novel *Streptomyces* sp. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 1, pp. 301-319., Registrované v: WOS

405. [1.1] POORNIMA, Shanmugam - DIVYA, Palanisamy - KARMEGAM, Natchimuthu - KARTHIK, Vivekanandhan - SUBBAIYA, Ramasamy. Aqueous two-phase partitioning and characterization of xylanase produced by *Streptomyces geysiriensis* from low cost lignocellulosic substrates. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2020, vol. 130, no. 6, pp. 571-576. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2020.07.008>., Registrované v: WOS

406. [1.1] PRAJAPATI, Sanjeev Kumar - BHATTACHARYA, Arghya - MALIK, Anushree - VIJAY, V. K. Pretreatment of algal biomass using fungal crude enzymes. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND*

- BIOPRODUCTS. ISSN 2211-9264, 2015, vol. 8, no., pp. 8-14., Registrované v: WOS
407. [1.1] PRASERTSAN, Poonsuk - KHANGKHACHIT, Wiyada - DUANGSUWAN, Wiriya - MAMIMIN, Chonticha - O-THONG, Sompong. Direct hydrolysis of palm oil mill effluent by xylanase enzyme to enhance biogas production using two-steps thermophilic fermentation under non-sterile condition. In INTERNATIONAL JOURNAL OF HYDROGEN ENERGY. ISSN 0360-3199, 2017, vol. 42, no. 45, pp. 27759-27766., Registrované v: WOS
408. [1.1] PUROHIT, Anjali - RAI, Shushil Kumar - CHOWNK, Manisha - SANGWAN, Rajender Singh - YADAV, Sudesh Kumar. Xylanase from *Acinetobacter pittii* MASK 25 and developed magnetic cross-linked xylanase aggregate produce predominantly xylopentose and xylohexose from agro biomass. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 244, no., pp. 793-799., Registrované v: WOS
409. [1.1] QIAN, Changli - LIU, Ning - YAN, Xing - WANG, Qian - ZHOU, Zhihua - WANG, Qianfu. Engineering a high-performance, metagenomic-derived novel xylanase with improved soluble protein yield and thermostability. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 70, no., pp. 35-41., Registrované v: WOS
410. [1.1] QIN, Lei - ZHAO, Xiong - LI, Wen-Chao - ZHU, Jia-Qing - LIU, Li - LI, Bing-Zhi - YUAN, Ying-Jin. Process analysis and optimization of simultaneous saccharification and co-fermentation of ethylenediamine-pretreated corn stover for ethanol production. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
411. [1.1] RAHIKAINEN, Jenni - MATTILA, Outi - MALONEY, Thaddeus - LOVIKKA, Ville - KRUIUS, Kristiina - SUURNAKKI, Anna - GRONQVIST, Stina. High consistency mechano-enzymatic pretreatment for kraft fibres: effect of treatment consistency on fibre properties. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5311-5322. Dostupné na: <https://doi.org/10.1007/s10570-020-03123-8>., Registrované v: WOS
412. [1.1] RAHMANI, Nanik - JANNAH, Alifah Mafatikhul - LISDIYANTI, Puspita - PRASETYA, Bambang - YOPI. Enzymatic hydrolysis of Lignocellulosic Biomass by *Kitasatospora* sp to Produce Xylo-oligosaccharides (XOS). In PROCEEDINGS OF THE 3RD INTERNATIONAL SYMPOSIUM ON APPLIED CHEMISTRY (ISAC) 2017. ISSN 0094-243X, 2017, vol. 1904, no., pp., Registrované v: WOS
413. [1.1] RAHMANI, Nanik - KAHAR, Prihardi - LISDIYANTI, Puspita - HERMIATI, Euis - LEE, Jaemin - YOPI - PRASETYA, Bambang - OGINO, Chiaki - KONDO, Akihiko. Xylanase and feruloyl esterase from actinomycetes cultures could enhance sugarcane bagasse hydrolysis in the production of fermentable sugars. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2018, vol. 82, no. 5, pp. 904-915., Registrované v: WOS
414. [1.1] RAHMANI, N. - APRILIANA, P. - JANNAH, A. M. - RATNAKOMALA, S. - LISDIYANTI, P. - HERMIATI, E. - PRASETYA, B. - YOPI. Endo-xylanase enzyme from marine actinomycetes and its potential for xylooligosaccharide production. In 2ND INTERNATIONAL CONFERENCE ON NATURAL PRODUCTS AND BIORESOURCE SCIENCES 2018. ISSN 1755-1307, 2019, vol. 251, no., pp., Registrované v: WOS
415. [1.1] RAHMANI, N. - OKTAVIA, A. - NURYATI - ASTUTI, D. -

- NUGRAHA, S. - NURO, F. - MULYANI, E. S. - HERMIATI, E. - RAMADHAN, K. P. - LISDIYANTI, P. - YOPI - PRASETYA, B. Endo-xylanase Enzyme Production using Agroindustrial Biomass as Feedstock by *Kitasatospora* sp. In INTERNATIONAL SYMPOSIUM OF INNOVATIVE BIO-PRODUCTION INDONESIA ON BIOTECHNOLOGY AND BIOENGINEERING 2019. ISSN 1755-1307, 2020, vol. 439, no., pp. Dostupné na: <https://doi.org/10.1088/1755-1315/439/1/012028>., Registrované v: WOS 416. [1.1] RAMACHANDRAN, Priyadharshini - KIM, Tae-Su - DHIMAN, Saurabh Sudha - LI, Jinglin - PARK, Ji-Hyun - CHOI, Joon-Ho - KIM, Jae Young - KIM, Dongwook - LEE, Jung-Kul. Saccharification of sunflower stalks using lignocellulases from a fungal consortium comprising *Pholiota adiposa* and *Armillaria gemina*. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2015, vol. 38, no. 9, pp. 1645-1653., Registrované v: WOS 417. [1.1] RAMANJANEYULU, Golla - REDDY, Bontha Rajasekhar. Optimization of Xylanase Production through Response Surface Methodology by *Fusarium* sp BVKT R2 Isolated from Forest Soil and Its Application in Saccharification. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS 418. [1.1] RAMANJANEYULU, G. - SRIDEVI, A. - SESHAPANI, P. - RAMYA, A. - KUMAR, K. Dileep - REDDY, G. Praveen Kumar - REDDY, B. Rajasekhar. Enhanced production of xylanase by *Fusarium* sp BVKT R2 and evaluation of its biomass saccharification efficiency. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS 419. [1.1] RAMANJANEYULU, G. - RAMYA, A. - KUMARI, B. S. Shanthi - KUMAR, Kanderi Dileep - REDDY, B. Rajasekhar. Xylanase-producing microflora in Eastern Ghats of Andhra Pradesh, India. In JOURNAL OF FORESTRY RESEARCH. ISSN 1007-662X, 2017, vol. 28, no. 2, pp. 291-298., Registrované v: WOS 420. [1.1] RAMANJANEYULU, G. - RAMYA, A. - REDDY, B. Rajasekhar. MICROBIAL POPULATION DYNAMICS OF EASTERN GHATS OF ANDHRA PRADESH FOR XYLANASE PRODUCTION. In MICROBIAL BIOTECHNOLOGY: TECHNOLOGICAL CHALLENGES AND DEVELOPMENTAL TRENDS, 2017, vol., no., pp. 355-372., Registrované v: WOS 421. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS 422. [1.1] RANA, Nidhi - SHARMA, Vaishali - RATHOUR, Ranju Kumari - ABUJA, Vishal - BHATIA, Ravi Kant - BHATT, Arvind Kumar. Utilization of corn cob waste for xylanase production by newly isolated *Bacillus pumilus* XRL5 and its application in saccharification of lignocellulosic biomass. In TRENDS IN CARBOHYDRATE RESEARCH. ISSN 0975-0304, 2019, vol. 11, no. 3, pp. 20-32., Registrované v: WOS 423. [1.1] RAN, Tao - SALEEM, Atef - SHEN, YiZhao - RIBEIRO, Gabriel - TSANG, Adrian - BEAUCHEMIN, Karen A. - YANG, Wenzhu - MCALLISTER, Tim. Effects of a recombinant fibrolytic enzyme on fiber

- digestion, ruminal fermentation, nitrogen balance and total tract digestibility of heifers fed a high forage diet. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2019, vol. 97, no., pp. 419-420., Registrované v: WOS
424. [1.1] RAO, Junchao - ZHANG, Rongzhen - XU, Guanyu - LI, Lihong - XU, Yan. Efficient production of (S)-1-phenyl-1,2-ethanediol using xylan as co-substrate by a coupled multi-enzyme Escherichia coli system. In MICROBIAL CELL FACTORIES, 2020, vol. 19, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12934-020-01344-x>., Registrované v: WOS
425. [1.1] RASTOGI, Shubhangi - SONI, Raman - KAUR, Jaspreet - SONI, Sanjeev Kumar. Unravelling the capability of Pyrenophora phaeocomes S-1 for the production of ligno-hemicellulolytic enzyme cocktail and simultaneous bio-delignification of rice straw for enhanced enzymatic saccharification. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 222, no., pp. 458-469., Registrované v: WOS
426. [1.1] RAVICHANDRA, K. - YASWANTH, V. V. N. - NIKHILA, B. - AHMAD, Jamal - RAO, P. Srinivasa - UMA, A. - RAVINDRABABU, V. - PRAKASHAM, R. S. Xylanase Production by Isolated Fungal Strain, Aspergillus fumigatus RSP-8 (MTCC 12039): Impact of Agro-industrial Material as Substrate. In SUGAR TECH. ISSN 0972-1525, 2016, vol. 18, no. 1, pp. 29-38., Registrované v: WOS
427. [1.1] RAZA, Ahmad - BASHIR, Saira - TABASSUM, Romana. Statistical based experimental optimization for co-production of endo-glucanase and xylanase from Bacillus sonorensis BD92 with their application in biomass saccharification. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2019, vol. 64, no. 3, pp. 295-305., Registrované v: WOS
428. [1.1] REIS, W. L. S. - DETMANN, E. - BATISTA, E. D. - RUFINO, L. M. A. - GOMES, D. I. - BENTO, C. B. P. - MANTOVANI, H. C. - VALADARES FILHO, S. C. Effects of ruminal and post-ruminal protein supplementation in cattle fed tropical forages on insoluble fiber degradation, activity of fibrolytic enzymes, and the ruminal microbial community profile. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2016, vol. 218, no., pp. 1-16., Registrované v: WOS
429. [1.1] REQUE, Priscilla Magro - BARRETO PINILLA, Cristian Mauricio - GAUTERIO, Gabrielle Victoria - KALIL, Susana Juliano - BRANDELLI, Adriano. Xylooligosaccharides production from wheat middlings bioprocessed with Bacillus subtilis. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 126, no., pp., Registrované v: WOS
430. [1.1] REZAEI, F. - SIMMONS, C. W. - LEE, C. M. - LABAVITCH, J. - VANDERGHEYNST, J. S. DYNAMICS IN CARBOHYDRATE ACTIVE ENZYMES AND MICROBIAL COMMUNITIES DURING ENSILAGE OF FOOD PROCESSING RESIDUES. In APPLIED ENGINEERING IN AGRICULTURE. ISSN 0883-8542, 2016, vol. 32, no. 3, pp. 439-447., Registrované v: WOS
431. [1.1] ROETS, C. - ROSE, S. H. - MULLER, M. - MANLEY, M. LABORATORY AND COMMERCIAL-SCALE EVALUATION OF THE EFFECT OF PURE AND COMMERCIAL ENDOXYLANASES AND ENDOGLUCANASES ON WHEAT FLOUR BREAD QUALITY. In ACTA ALIMENTARIA. ISSN 0139-3006, 2015, vol. 44, no. 2, pp. 276-288., Registrované v: WOS
432. [1.1] ROMANI, Aloia - LARRAMENDI, Antonio - YANEZ,

Remedios - CANCELA, Angeles - SANCHEZ, Angel - TEIXEIRA, Jose A. - DOMINGUES, Lucilia. Valorization of Eucalyptus nitens bark by organosolv pretreatment for the production of advanced biofuels. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 132, no., pp. 327-335.,

Registrované v: WOS

433. [1.1] ROMANI, Aloia - MORAIS, Eduarda S. - SOARES, Pedro O. - FREIRE, Mara G. - FREIRE, Carmen S. R. - SILVESTRE, Armando J. D. - DOMINGUES, Lucilia. Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 311, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123524>., Registrované v: WOS

434. [1.1] ROONGSAWANG, Niran - PUSEENAM, Aekkachai - KITIKHUN, Supattra - SAE-TANG, Kittapong - HARNPICARNCHAI, Piyanun - OHASHI, Takao - FUJIYAMA, Kazuhito - TIRASOPHON, Witoon - TANAPONGPIPAT, Sutipa. A Novel Potential Signal Peptide Sequence and Overexpression of ER-Resident Chaperones Enhance Heterologous Protein Secretion in Thermotolerant Methylophilic Yeast Ogataea thermomethanolica. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2016, vol. 178, no. 4, pp. 710-724., Registrované v: WOS

435. [1.1] ROSA-SIBAKOV, Natalia - HAKALA, Terhi K. - SOZER, Nesli - NORDLUND, Emilia - POUTANEN, Kaisa - AURA, Anna-Marja. Birch pulp xylan works as a food hydrocolloid in acid milk gels and is fermented slowly in vitro. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 154, no., pp. 305-312., Registrované v: WOS

436. [1.1] ROSSI, Ruggero - CAVINA, Mattia - SETTI, Leonardo. Characterization of Electron Transfer Mechanism in Mediated Microbial Fuel Cell by Entrapped Electron Mediator in Saccharomyces Cerevisiae. In 5TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL BIOTECHNOLOGY (IBIC 2016). ISSN 1974-9791, 2016, vol. 49, no., pp. 559-564., Registrované v: WOS

437. [1.1] ROSSI, Ruggero - FEDRIGUCCI, Andrea - SETTI, Leonardo. Characterization of Electron Mediated Microbial Fuel Cell by Saccharomyces Cerevisiae. In ICHEAP12: 12TH INTERNATIONAL CONFERENCE ON CHEMICAL & PROCESS ENGINEERING. ISSN 1974-9791, 2015, vol. 43, no., pp. 337-342., Registrované v: WOS

438. [1.1] ROYVARAN, Maryam - TAHERI-KAFRANI, Asghar - ISFAHANI, Amir Landarani - MOHAMMADI, Shima. Functionalized superparamagnetic graphene oxide nanosheet in enzyme engineering: A highly dispersive, stable and robust biocatalyst. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2016, vol. 288, no., pp. 414-422., Registrované v: WOS

439. [1.1] RUDAKIYA, Darshan M. - GUPTE, Akshaya. Degradation of hardwoods by treatment of white rot fungi and its pyrolysis kinetics studies. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2017, vol. 120, no., pp. 21-35., Registrované v: WOS

440. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - MAKINEN, Susanna - VEHEMAANPERA, Jari - HATAKKA, Annele - MAKELA, Miia R. Saccharification of Lignocelluloses by Carbohydrate Active Enzymes of the White Rot Fungus Dichomitus squalens. In PLOS ONE. ISSN 1932-6203, 2015,

vol. 10, no. 12, pp., Registrované v: WOS

441. [1.1] SAJIB, Mursalin - FALCK, Peter - SARDARI, Roya R. R. - MATHEW, Sindhu - GREY, Carl - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Valorization of Brewer's spent grain to prebiotic oligosaccharide: Production, xylanase catalyzed hydrolysis, in-vitro evaluation with probiotic strains and in a batch human fecal fermentation model. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 268, no., pp. 61-70., Registrované v: WOS

442. [1.1] SAKITA, Gabriel Zanuto - VENTOSO BOMPADRE, Thiago Francisco - DINESHKUMAR, Dhanasekaran - TAVARES LIMA, Paulo de Mello - ABDALLA FILHO, Adibe Luiz - CAMPIONI, Tania Sila - DE OLIVA NETO, Pedro - BREMER NETO, Herman - LOUVANDINI, Helder - ABDALLA, Adibe Luiz. Fibrolytic enzymes improving in vitro rumen degradability of tropical forages. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439, 2020, vol. 104, no. 5, pp. 1267-1276. Dostupné na: <https://doi.org/10.1111/jpn.13373>., Registrované v: WOS

443. [1.1] SAN MARTIN-DAVISON, Jessica - BALLESTEROS, Mercedes - MANZANARES, Paloma - PETIT-BREUILH SEPULVEDA, Ximena - VERGARA-FERNANDEZ, Alberto. Effects of Temperature on Steam Explosion Pretreatment of Poplar Hybrids with Different Lignin Contents in Bioethanol Production. In INTERNATIONAL JOURNAL OF GREEN ENERGY. ISSN 1543-5075, 2015, vol. 12, no. 8, pp. 832-842., Registrované v: WOS

444. [1.1] SANDRI, Ivana Greice - DA SILVEIRA, Mauricio Moura. Production and Application of Pectinases from *Aspergillus niger* Obtained in Solid State Cultivation. In BEVERAGES. ISSN 2306-5710, 2018, vol. 4, no. 3, pp., Registrované v: WOS

445. [1.1] SANGO, Chakarvati - KAUR, Prabhjot - BHARDWAJ, Nishi K. - SHARMA, Jitender. Bacterial cellulase treatment for enhancing reactivity of prehydrolysed kraft dissolving pulp for viscose. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 6, pp., Registrované v: WOS

446. [1.1] SANTOSH, Ingle - ASHTAVINAYAK, Paradh - AMOL, Dudhane - SANJAY, Patil. Enhanced bioethanol production from different sugarcane bagasse cultivars using co-culture of *Saccharomyces cerevisiae* and *Scheffersomyces (Pichia) stipitis*. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-3437, 2017, vol. 5, no. 3, pp. 2861-2868., Registrované v: WOS

447. [1.1] SANTOS, Maiara P. - REINOSO, Felipe A. M. - TAVILLA, Veronica - FERRAZ, Andre - MILAGRES, Adriane M. F. On-site produced and commercially available alkali-active xylanases compared for xylan extraction from sugarcane bagasse. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 18, no., pp., Registrované v: WOS

448. [1.1] SAROJ, Paramjeet - MANASA, P. - NARASIMHULU, Korrapati. Characterization of thermophilic fungi producing extracellular lignocellulolytic enzymes for lignocellulosic hydrolysis under solid-state fermentation. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS

449. [1.1] SATRIA, Heri - YANDRI - NURHASANAH - YUWONO, Suripto Dwi - HERASARI, Dian. Extracellular hydrolytic enzyme activities of

indigenous actinomycetes on pretreated bagasse using choline acetate ionic liquid. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 24, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101503>., Registrované v: WOS

450. [1.1] SELLA, L. - GAZZETTI, K. - CASTIGLIONI, C. - SCHAEFER, W. - D'OVIDIO, R. - FAVARON, F. The *Fusarium graminearum* Xyr1 transcription factor regulates xylanase expression but is not essential for fungal virulence. In *PLANT PATHOLOGY*. ISSN 0032-0862, 2016, vol. 65, no. 5, pp. 713-722., Registrované v: WOS

451. [1.1] SETTI, Leonardo - SAMAEI, Seyedeh Parya - MAGGIORE, Irene - NISSEN, Lorenzo - GIANOTTI, Andrea - BABINI, Elena. Comparing the Effectiveness of Three Different Biorefinery Processes at Recovering Bioactive Products from Hemp (*Cannabis sativa* L.) Byproduct. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2020, vol. 13, no. 12, pp. 2156-2171. Dostupné na: <https://doi.org/10.1007/s11947-020-02550-6>., Registrované v: WOS

452. [1.1] SHAHRESTANI, Hourasa - TAHERI-KAFRANI, Asghar - SOOZANIPOUR, Asieh - TAVAKOLI, Omid. Enzymatic clarification of fruit juices using xylanase immobilized on 1,3,5-triazine-functionalized silica-encapsulated magnetic nanoparticles. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2016, vol. 109, no., pp. 51-58., Registrované v: WOS

453. [1.1] SHAHRYARI, Zohre - FAZAELIPOOR, Mohammad H. - GHASEMI, Younes - LENNARTSSON, Patrik R. - TAHERZADEH, Mohammad J. Amylase and Xylanase from Edible Fungus *Neurospora intermedia*: Production and Characterization. In *MOLECULES*, 2019, vol. 24, no. 4, pp., Registrované v: WOS

454. [1.1] SHAH, Firoz - MALI, Tuulia - LUNDELL, Taina K. Polyporales Brown Rot Species *Fomitopsis pinicola*: Enzyme Activity Profiles, Oxalic Acid Production, and Fe³⁺-Reducing Metabolite Secretion. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS

455. [1.1] SHANG, Tingting - SI, Dayong - ZHANG, Dongyan - LIU, Xuhui - ZHAO, Longmei - HU, Cong - FU, Yu - ZHANG, Rijun. Enhancement of thermoalkaliphilic xylanase production by *Pichia pastoris* through novel fed-batch strategy in high cell-density fermentation. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2017, vol. 17, no., pp., Registrované v: WOS

456. [1.1] SHANTHI, Vasamsetty - ROYMON, Marthoor George. Isolation, Identification and Partial Optimization of Novel Xylanolytic Bacterial Isolates from Bhilai-Durg Region, Chhattisgarh, India. In *IRANIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 1728-3043, 2018, vol. 16, no. 3, pp. 200-212., Registrované v: WOS

457. [1.1] SHARMA, Abha - SHARMA, Anamika - SINGH, Jyoti - SHARMA, Pushpendra - TOMAR, Govind Singh - SINGH, Surender - NAIN, Lata. A biorefinery approach for the production of ferulic acid from agroresidues through ferulic acid esterase of lactic acid bacteria. In *3 BIOTECH*. ISSN 2190-572X, 2020, vol. 10, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-02360-9>., Registrované v: WOS

458. [1.1] SHARMA, Manju - MAHAJAN, Chhavi - BHATTI, Manpreet

- S. - CHADHA, Bhupinder Singh. Profiling and production of hemicellulases by thermophilic fungus *Malbranchea flava* and the role of xylanases in improved bioconversion of pretreated lignocellulosics to ethanol. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
459. [1.1] SHATALOV, Anatoly A. Efficient eco-clean upgrading of isolated cellulose fibers by polyoxometalate (POM) catalyzed ozonation boosted by enzymes. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 21, pp. 5092-5102., Registrované v: WOS
460. [1.1] SHAWKY, Bahaa T. - RAGAB, Tamer I. M. - HUSSEIN, Hussein M. - ZAHRAN, Magdy K. Optimization of Cellulolytic enzymes production from local potent fungi using full factorial design for bioethanol production from MFEX-treated rice straw using *Klebsiella oxytoca* P2. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2018, vol. 15, no. 1, pp. 250-261., Registrované v: WOS
461. [1.1] SHELOMI, Matan - HECKEL, David G. - PAUCHET, Yannick. Ancestral gene duplication enabled the evolution of multifunctional cellulases in stick insects (Phasmatodea). In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 71, no., pp. 1-11., Registrované v: WOS
462. [1.1] SHEN, Rui - LI, Hong-Qiang - ZHANG, Jie - XU, Jian. Effects of Impurities in Alkali-Extracted Xylan on Its Enzymatic Hydrolysis to Produce Xylo-Oligosaccharides. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2016, vol. 179, no. 5, pp. 740-752., Registrované v: WOS
463. [1.1] SHI, Changyou - HE, Jun - YU, Jie - YU, Bing - HUANG, Zhiqing - MAO, Xiangbing - ZHENG, Ping - CHEN, Daiwen. Solid state fermentation of rapeseed cake with *Aspergillus niger* for degrading glucosinolates and upgrading nutritional value. In JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY. ISSN 2049-1891, 2015, vol. 6, no., pp., Registrované v: WOS
464. [1.1] SHUDDHODANA - GUPTA, Munishwar N. - BISARIA, Virendra S. Effectiveness of cross-linked enzyme aggregates of cellulolytic enzymes in hydrolyzing wheat straw. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2018, vol. 126, no. 4, pp. 445-450., Registrované v: WOS
465. [1.1] SCHOLL, Angelica Luisi - MENEGOL, Daiane - PITARELO, Ana Paula - FONTANA, Roselei Claudete - ZANDONA FILHO, Arion - RAMOS, Luiz Pereira - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Elephant grass pretreated by steam explosion for inducing secretion of cellulases and xylanases by *Penicillium echinulatum* S1M29 solid-state cultivation. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 77, no., pp. 97-107., Registrované v: WOS
466. [1.1] SCHOLL, Angelica Luisi - MENEGOL, Daiane - PITARELO, Ana Paula - FONTANA, Roselei Claudete - ZANDONA FILHO, Anon - RAMOS, Luiz Pereira - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Elephant grass (*Pennisetum purpureum* Schum.) pretreated via steam explosion as a carbon source for cellulases and xylanases in submerged cultivation. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 70, no., pp. 280-291., Registrované v: WOS
467. [1.1] SCHOLL, Angelica Luisi - MENEGOL, Daiane - PITARELO,

Ana Paula - FONTANA, Roselei Claudete - ZANDONA FILHO, Arion - RAMOS, Luiz Pereira - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Elephant grass pretreated by steam explosion for inducing secretion of cellulases and xylanases by *Penicillium echinulatum* S1M29 solid-state cultivation. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 77, no., pp. 97-107., Registrované v: WOS

468. [1.1] SCHWARZ, Dominik - DOERRSTEIN, Joerg - KUGLER, Sabine - SCHIEDER, Doris - ZOLLFRANK, Cordt - SIEBER, Volker. Integrated biorefinery concept for grass silage using a combination of adapted pulping methods for advanced saccharification and extraction of lignin. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2016, vol. 216, no., pp. 462-470., Registrované v: WOS

469. [1.1] SINGH, Namita - DEVI, Anita - JARYAL, Rajneesh - RANI, Kaushalya. An Ecofriendly and Efficient Strategy for Cost Effective Production of Lignocellulotic Enzymes. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 6, pp. 891-898., Registrované v: WOS

470. [1.1] SINGLA, Diksha - TAGGAR, Monica Sachdeva - KOCHER, Gurvinder Singh - KALIA, Anu. CELLULASE PRODUCTION BY *ASPERGILLUS FUMIGATUS* USING DIFFERENT PLANT-BASED AGRICULTURAL BIOMASS FOR PADDY STRAW SACCHARIFICATION. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2018, vol. 52, no. 9-10, pp. 803-813., Registrované v: WOS

471. [1.1] SOHAIL, Muhammad - LATIF, Zakia. Phylogenetic Analysis of Polygalacturonase-Producing *Bacillus* and *Pseudomonas* Isolated From Plant Waste Material. In *JUNDISHAPUR JOURNAL OF MICROBIOLOGY*. ISSN 2008-3645, 2016, vol. 9, no. 1, pp., Registrované v: WOS

472. [1.1] SOMBOON, Chollada - BOONRUNG, Santhaya - KATEKAEW, Somporn - EKPRASERT, Jindarat - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of low molecular weight alkali stable xylanase from *Neosartorya spinosa* UZ-2-11. In *MYCOSCIENCE*. ISSN 1340-3540, 2020, vol. 61, no. 3, pp. 128-135. Dostupné na: <https://doi.org/10.1016/j.myc.2020.01.004>., Registrované v: WOS

473. [1.1] SOOZANIPOUR, Asieh - TAHERI-KAFRANI, Asghar - ISFAHANI, Amir Landarani. Covalent attachment of xylanase on functionalized magnetic nanoparticles and determination of its activity and stability. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2015, vol. 270, no., pp. 235-243., Registrované v: WOS

474. [1.1] SRIDEVI, A. - NARASIMHA, G. - DEVI, P. Suvarnalatha. PRODUCTION OF XYLANASE BY *PENICILLIUM* SP. AND ITS BIOBLEACHING EFFICIENCY IN PAPER AND PULP INDUSTRY. In *INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH*. ISSN 0975-8232, 2019, vol. 10, no. 3, pp. 1307-1311., Registrované v: WOS

475. [1.1] SRIDEVI, A. - RAMANJANEYULU, G. - DEVI, P. Suvarnalatha. Biobleaching of paper pulp with xylanase produced by *Trichoderma asperellum*. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS

476. [1.1] SRIDEVI, A. - SANDHYA, A. - RAMANJANEYULU, G. - NARASIMHA, G. - DEVI, P. Suvarnalatha. Biocatalytic activity of *Aspergillus niger* xylanase in paper pulp biobleaching. In *3 BIOTECH*. ISSN 2190-572X,

- 2016, vol. 6, no., pp., Registrované v: WOS
477. [1.1] STORANI, Alem - GUERRERO, Sergio A. - IGLESIAS, Alberto A. On the functionality of the N-terminal domain in xylanase 10A from *Ruminococcus albus* 8. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109673>., Registrované v: WOS
478. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS
479. [1.1] SUNARDI - TANABE, Jun - ISHIGURI, Futoshi - OHSHIMA, Jyunichi - IIZUKA, Kazuya - YOKOTA, Shinso. Changes in lignocellulolytic enzyme activity during the degradation of *Picea jezoensis* wood by the white-rot fungus *Porodaedalea pini*. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2016, vol. 110, no., pp. 108-112., Registrované v: WOS
480. [1.1] SUNKAR, Bindu - KANNOJU, Balakrishna - BHUKYA, Bhima. Optimized Production of Xylanase by *Penicillium purpurogenum* and Ultrasound Impact on Enzyme Kinetics for the Production of Monomeric Sugars From Pretreated Corn Cobs. In *FRONTIERS IN MICROBIOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00772>., Registrované v: WOS
481. [1.1] SUN, Xiao-Bao - CAO, Jia-Wen - WANG, Jia-Kun - LIN, Hai-Zhen - GAO, De-Ying - QIAN, Guo-Ying - PARK, Yong-Doo - CHEN, Zhong-Fa - WANG, Qian. SpyTag/SpyCatcher molecular cyclization confers protein stability and resilience to aggregation. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2019, vol. 49, no., pp. 28-36., Registrované v: WOS
482. [1.1] SUSIC, Blazenka Baclija - HABE, Katarina - MIROSEVIC, Jasna Kudek. THE ROLE OF IMPROVISATION IN HIGHER MUSIC EDUCATION. In *12TH INTERNATIONAL CONFERENCE OF EDUCATION, RESEARCH AND INNOVATION (ICERI 2019)*. ISSN 2340-1095, 2019, vol., no., pp. 4473-4482., Registrované v: WOS
483. [1.1] SUTAY KOCABAS, Didem - GUDER, Sevgi - OZBEN, Neslihan. Purification strategies and properties of a low-molecular weight xylanase and its application in agricultural waste biomass hydrolysis. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2015, vol. 115, no., pp. 66-75., Registrované v: WOS
484. [1.1] SZABO, Orsolya Erzsebet - CSISZAR, Emilia - TOTH, Karolina - SZAKACS, George - KOCZKA, Bela. Ultrasound-assisted extraction and characterization of hydrolytic and oxidative enzymes produced by solid state fermentation. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 22, no., pp. 249-256., Registrované v: WOS
485. [1.1] TADDIA, Antonela - BRANDALEZE, Geronimo Nicolas - BOGGIONE, Maria Julia - BORTOLATO, Santiago Andres - TUBIO, Gisela. An integrated approach to the sustainable production of xylanolytic enzymes from *Aspergillus niger* using agro-industrial by-products. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2020, vol. 50, no. 10, pp. 979-991. Dostupné na: <https://doi.org/10.1080/10826068.2020.1777425>., Registrované v: WOS

486. [1.1] TAHA, Mohamed - KADALI, Krishna K. - AL-HOTHALY, Khalid - SMITH, Andrew T. - BALL, Andrew S. - ADETUTU, Eric M. An effective microplate method (Biolog MT2) for screening native lignocellulosic-straw-degrading bacteria. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2015, vol. 65, no. 4, pp. 2053-2064., Registrované v: WOS
487. [1.1] TAHA, Mohamed - SHAHSAVARI, Esmaeil - AL-HOTHALY, Khalid - MOURADOV, Aidyn - SMITH, Andrew T. - BALL, Andrew S. - ADETUTU, Eric M. Enhanced Biological Straw Saccharification Through Coculturing of Lignocellulose-Degrading Microorganisms. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 8, pp. 3709-3728., Registrované v: WOS
488. [1.1] TAHERI, Parissa. Disease resistance and virulence screen in Solanum tuberosum-Alternaria tenuissima interaction: the role of pathogenicity factors. In EUPHYTICA. ISSN 0014-2336, 2019, vol. 215, no. 2, pp., Registrované v: WOS
489. [1.1] TAHERZADEH-GHAHFAROKHI, Maryam - PANAHI, Reza - MOKHTARANI, Babak. Optimizing the combination of conventional carbonaceous additives of culture media to produce lignocellulose-degrading enzymes by Trichoderma reesei in solid state fermentation of agricultural residues. In RENEWABLE ENERGY. ISSN 0960-1481, 2019, vol. 131, no., pp. 946-955., Registrované v: WOS
490. [1.1] TANG, Hongting - BAO, Xiaoming - SHEN, Yu - SONG, Meihui - WANG, Shenghuan - WANG, Chengqiang - HOU, Jin. Engineering protein folding and translocation improves heterologous protein secretion in Saccharomyces cerevisiae. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol. 112, no. 9, pp. 1872-1882., Registrované v: WOS
491. [1.1] TANG, Hongting - WANG, Jiajing - WANG, Shenghuan - SHEN, Yu - PETRANOVIC, Dina - HOU, Jin - BAO, Xiaoming. Efficient yeast surface-display of novel complex synthetic cellulosomes. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
492. [1.1] TANG, Hongting - WANG, Shenghuan - WANG, Jiajing - SONG, Meihui - XU, Mengyang - ZHANG, Mengying - SHEN, Yu - HOU, Jin - BAO, Xiaoming. N-hypermannose glycosylation disruption enhances recombinant protein production by regulating secretory pathway and cell wall integrity in Saccharomyces cerevisiae. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
493. [1.1] TENG, Chao - JIANG, Yuefeng - XU, Youqiang - LI, Qin - LI, Xiuting - FAN, Guangsen - XIONG, Ke - YANG, Ran - ZHANG, Chengnan - MA, Rong - ZHU, Yunping - LI, Jinlong - WANG, Changtao. Improving the thermostability and catalytic efficiency of GH11 xylanase PjxA by adding disulfide bridges. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 128, no., pp. 354-362., Registrované v: WOS
494. [1.1] TERRONE, Carol Cabral - DE FREITAS, Caroline - FANCHINI TERRASAN, Cesar Rafael - DE ALMEIDA, Alex Fernando - CARMONA, Eleonora Cano. Agroindustrial biomass for xylanase production by Penicillium chrysogenum: Purification, biochemical properties and hydrolysis of hemicelluloses. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 33, no., pp. 39-45., Registrované v: WOS
495. [1.1] THANH TRUNG NGUYEN - MINH HUNG NGUYEN - HUY

- THUAN NGUYEN - HOANG ANH NGUYEN - THI HOI LE - SCHWEDER, Thomas - JUERGEN, Britta. A Phosphate Starvation-Inducible Ribonuclease of *Bacillus licheniformis*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2016, vol. 26, no. 8, pp. 1464-1472., Registrované v: WOS
496. [1.1] THANH TUNG LAI - THI THANH HA PHAM - ADJALLE, Kokou - MONTPLAISIR, Daniel - BROUILLETTE, Francois - BARNABE, Simon. Production of *Trichoderma Reesei* RUT C-30 Lignocellulolytic Enzymes Using Paper Sludge as Fermentation Substrate: An Approach for On-Site Manufacturing of Enzymes for Biorefineries. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 4, pp. 1081-1088., Registrované v: WOS
497. [1.1] THIRUNAVUKKARASU, N. - JAHNES, Ben - BROADSTOCK, Arthur - RAJULU, M. B. Govinda - MURALI, T. S. - GOPALAN, Venkat - SURYANARAYANAN, T. S. Screening marine-derived endophytic fungi for xylan-degrading enzymes. In CURRENT SCIENCE. ISSN 0011-3891, 2015, vol. 109, no. 1, pp. 112-120., Registrované v: WOS
498. [1.1] THITE, V. S. - NERURKAR, A. S. Xylanases of *Bacillus* spp. isolated from ruminant dung as potential accessory enzymes for agro-waste saccharification. In LETTERS IN APPLIED MICROBIOLOGY. ISSN 0266-8254, 2015, vol. 60, no. 5, pp. 456-466., Registrované v: WOS
499. [1.1] THOMAS, Leya - PARAMESWARAN, Binod - PANDEY, Ashok. Hydrolysis of pretreated rice straw by an enzyme cocktail comprising acidic xylanase from *Aspergillus* sp for bioethanol production. In RENEWABLE ENERGY. ISSN 0960-1481, 2016, vol. 98, no., pp. 9-15., Registrované v: WOS
500. [1.1] THOMAS, Leya - SINDHU, Raveendran - BINOD, Parameswaran - PANDEY, Ashok. Production of an alkaline xylanase from recombinant *Kluyveromyces lactis* (KY1) by submerged fermentation and its application in bio-bleaching. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2015, vol. 102, no., pp. 24-30., Registrované v: WOS
501. [1.1] THOMAS, Leya - SINDHU, Raveendran - BINOD, Parameswaran - PANDEY, Ashok. Production of a cellulase-free alkaline xylanase from *Bacillus pumilus* MTCC 5015 by submerged fermentation and its application in biobleaching. In INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0019-5189, 2015, vol. 53, no. 6, pp. 356-363., Registrované v: WOS
502. [1.1] TOGTOKHBAYAR, Norovsambuu - CERRILLO, Maria A. - BUENDIA RODRIGUEZ, German - ELGHANDOUR, Mona M. M. Y. - SALEM, Abdelfattah Z. M. - URANKHAICH, Chuluunbaatar - JIGJIDPUREV, Sukhbaatar - ODONGO, Nicholas E. - KHOLIF, Ahmed E. Effect of exogenous xylanase on rumen in vitro gas production and degradability of wheat straw. In ANIMAL SCIENCE JOURNAL. ISSN 1344-3941, 2015, vol. 86, no. 8, pp. 765-771., Registrované v: WOS
503. [1.1] TRIPATHI, S. - VERMA, P. - MISHRA, O. P. - SHARMA, N. - BHARDWAJ, N. K. - TANDON, R. Reduction in Refining Energy and Improvement in Pulp Freeness through Enzymatic Treatment Lab and Plant Scale Studies. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2019, vol. 78, no. 1, pp. 50-54., Registrované v: WOS
504. [1.1] TSAI, Chin-Yen - WANG, Kuang-Teng - WU, Yu-Sheng - YEH, Shinn-Ping - WU, Tsung-Meng. Secretory expression and characterization

- of xylanase isolated from *Bacillus subtilis* E20 increase the utilization of plant ingredients in tilapia feed. In *AQUACULTURE RESEARCH*. ISSN 1355-557X, 2019, vol. 50, no. 8, pp. 2240-2250., Registrované v: WOS
505. [1.1] TSEGAYE, Bahiru - BALOMAJUMDER, Chandrajit - ROY, Partha. Isolation and Characterization of Novel Lignolytic, Cellulolytic, and Hemicellulolytic Bacteria from Wood-Feeding Termite *Cryptotermes brevis*. In *INTERNATIONAL MICROBIOLOGY*. ISSN 1139-6709, 2019, vol. 22, no. 1, pp., Registrované v: WOS
506. [1.1] TUNDO, Silvio - PACCANARO, Maria Chiara - ELMAGHRABY, Ibrahim - MOSCETTI, Ilaria - D'OVIDIO, Renato - FAVARON, Francesco - SELLA, Luca. The Xylanase Inhibitor TAXI-I Increases Plant Resistance to *Botrytis cinerea* by Inhibiting the BcXyn11a Xylanase Necrotizing Activity. In *PLANTS-BASEL*, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/plants9050601>., Registrované v: WOS
507. [1.1] UDAY, Uma Shankar Prasad - BANDYOPADHYAY, Tarun Kanti - GOSWAMI, Saswata - BHUNIA, Biswanath. Optimization of physical and morphological regime for improved cellulase free xylanase production by fed batch fermentation using *Aspergillus niger* (KP874102.1) and its application in bio-bleaching. In *BIOENGINEERED*. ISSN 2165-5979, 2017, vol. 8, no. 2, pp. 137-146., Registrované v: WOS
508. [1.1] UDAY, Uma Shankar Prasad - GOSWAMI, Saswata - GOPIKRISHNA, Konga - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Identification of markers at various stages of batch fermentation and improved production of xylanase using *Aspergillus niger* (KP874102.1). In *BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
509. [1.1] UDAY, Uma Shankar Prasad - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Optimization of nutritional and physiochemical requirements on acidic xylanase production from *Aspergillus niger* KP874102.1. In *MATERIALS TODAY-PROCEEDINGS*. ISSN 2214-7853, 2016, vol. 3, no. 10, pp. 3367-3374., Registrované v: WOS
510. [1.1] UDAY, Uma Shankar Prasad - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Rapid development of xylanase assay conditions using Taguchi methodology. In *BIOENGINEERED*. ISSN 2165-5979, 2016, vol. 7, no. 6, pp. 424-431., Registrované v: WOS
511. [1.1] UDAY, Uma Shankar Prasad - MAJUMDAR, Ria - TIWARI, Onkar Nath - MISHRA, Umesh - MONDAL, Abhijit - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Isolation, screening and characterization of a novel extracellular xylanase from *Aspergillus niger* (KP874102.1) and its application in orange peel hydrolysis. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 401-409., Registrované v: WOS
512. [1.1] VAIDYANATH, Sharath - HARISH, B. S. - GAYATHRI, G. - TRILOKESH, C. - UPPULURI, Kiran Babu - ANBAZHAGAN, Veerappan. Maximizing the direct recovery and stabilization of cellulolytic enzymes from *Trichoderma harzanium* BPGF1 fermented broth using carboxymethyl inulin nanoparticles. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 160, no., pp. 964-970. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.185>., Registrované v: WOS
513. [1.1] VANDENBOSSCHE, Virginie - BRAULT, Julien - VILAREM,

- Gerard - RIGAL, Luc. Bio-catalytic action of twin-screw extruder enzymatic hydrolysis on the deconstruction of annual plant material: Case of sweet corn co-products. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 67, no., pp. 239-248., Registrované v: WOS
514. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioprospects. In *MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS*, 2019, vol., no., pp. 325-373., Registrované v: WOS
515. [1.1] VERMA, Digvijay - SATYANARAYANA, Tulasi. Xylanolytic Extremozymes Retrieved From Environmental Metagenomes: Characteristics, Genetic Engineering, and Applications. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.551109>., Registrované v: WOS
516. [1.1] VERONICA DIAZ, Gabriela - OLGA CONIGLIO, Romina - ELIZABET ALVARENGA, Adriana - DARIO ZAPATA, Pedro - LIDIA VILLALBA, Laura - ISABEL FONSECA, Maria. Secretomic analysis of cheap enzymatic cocktails of *Aspergillus niger* LBM 134 grown on cassava bagasse and sugarcane bagasse. In *MYCOLOGIA*. ISSN 0027-5514, 2020, vol. 112, no. 4, pp. 663-676. Dostupné na: <https://doi.org/10.1080/00275514.2020.1763707>., Registrované v: WOS
517. [1.1] VIRTANEN, Tommi - PENTTILA, Paavo A. - MALONEY, Thaddeus C. - GRONQVIST, Stina - KAMPPURI, Taina - VEHVILAINEN, Marianna - SERIMAA, Ritva - MAUNU, Sirkka Liisa. Impact of mechanical and enzymatic pretreatments on softwood pulp fiber wall structure studied with NMR spectroscopy and X-ray scattering. In *CELLULOSE*. ISSN 0969-0239, 2015, vol. 22, no. 3, pp. 1565-1576., Registrované v: WOS
518. [1.1] WAHAB, Mohd Khairul Hakimi Abdul - EL-ENSHASY, Hesham Ali - ABU BAKAR, Farah Diba - MURAD, Abdul Munir Abdul - JAHIM, Jamaliah Md - ILLIAS, Rosli Md. Improvement of cross-linking and stability on cross-linked enzyme aggregate (CLEA)-xylanase by protein surface engineering. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2019, vol. 86, no., pp. 40-49., Registrované v: WOS
519. [1.1] WAHAB, Mohd Khairul Hakimi bin Abdul - BIN JONET, Mohd Anuar - ILLIAS, Rosli Md. Thermostability enhancement of xylanase *Aspergillus fumigatus* RT-1. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 134, no., pp. 154-163., Registrované v: WOS
520. [1.1] WALLACE, Joshua - BRIENZO, Michel - GARCIA-APARICIO, Maria P. - GOERGENSE, Johann F. Lignin enrichment and enzyme deactivation as the root cause of enzymatic hydrolysis slowdown of steam pretreated sugarcane bagasse. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2016, vol. 33, no. 3, pp. 361-371., Registrované v: WOS
521. [1.1] WANG, Jiakun - LIU, Mei - WU, Yuelei - WANG, Liang - LIU, Jianxin - JIANG, Linshu - YU, Zhongtang. Medicinal herbs as a potential strategy to decrease methane production by rumen microbiota: a systematic evaluation with a focus on *Perilla frutescens* seed extract. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 22, pp. 9757-9771., Registrované v: WOS

522. [1.1] WANG, Juan - GONG, Yanfen - ZHAO, Shengming - LIU, Gang. A new regulator of cellulase and xylanase in the thermophilic fungus *Myceliophthora thermophila* strain ATCC 42464. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
523. [1.1] WANG, Juan - WU, Yaning - GONG, Yanfen - YU, Shaowen - LIU, Gang. Enhancing xylanase production in the thermophilic fungus *Myceliophthora thermophila* by homologous overexpression of Mtxyr1. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2015, vol. 42, no. 9, pp. 1233-1241., Registrované v: WOS
524. [1.1] WANG, J. K. - HE, B. - DU, W. - LUO, Y. - YU, Z. - LIU, J. X. Yeast with surface displayed xylanase as a new dual purpose delivery vehicle of xylanase and yeast. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2015, vol. 208, no., pp. 44-52., Registrované v: WOS
525. [1.1] WANG, Qian - DU, Wen - WENG, Xiao-Yan - LIU, Ming-Qi - WANG, Jia-Kun - LIU, Jian-Xin. Recombination of Thermo-Alkalistable, High Xylooligosaccharides Producing Endo-Xylanase from *Thermobifida fusca* and Expression in *Pichia pastoris*. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 3, pp. 1318-1329., Registrované v: WOS
526. [1.1] WANG, Qian - LUO, Yang - HE, Bo - JIANG, Lin-Shu - LIU, Jian-Xin - WANG, Jia-Kun. Characterization of a Novel Xylanase Gene from Rumen Content of Hu Sheep. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 7, pp. 1424-1436., Registrované v: WOS
527. [1.1] WANG, Qun - CHEN, Liang - YU, Daobing - LIN, Hui - SHEN, Qi - ZHAO, Yuhua. Excellent waste biomass-degrading performance of *Trichoderma asperellum* T-1 during submerged fermentation. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2017, vol. 609, no., pp. 1329-1339., Registrované v: WOS
528. [1.1] WANG, Zhao - WINESTRAND, Sandra - GILLGREN, Thomas - JONSSON, Leif J. Chemical and structural factors influencing enzymatic saccharification of wood from aspen, birch and spruce. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 109, no., pp. 125-134., Registrované v: WOS
529. [1.1] WANG, Zhenyu - CAO, Xingyuan - LI, Nan - YANG, Zhengjiao - LEI, Ming - ZHAO, Yang - WANG, Lizhi - LI, Zhenyu - LIU, Dong - NIU, Huanqing - YING, Hanjie. Production of Butanol Directly from Hemicellulose through Secretory Expression of a Xylanase in *Clostridium acetobutylicum*. In ENERGY & FUELS. ISSN 0887-0624, 2020, vol. 34, no. 3, pp. 3376-3382. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b04489>., Registrované v: WOS
530. [1.1] WATANABE, Masahiro - FUKADA, Harumi - ISHIKAWA, Kazuhiko. Construction of Thermophilic Xylanase and Its Structural Analysis. In BIOCHEMISTRY. ISSN 0006-2960, 2016, vol. 55, no. 31, pp. 4399-4409., Registrované v: WOS
531. [1.1] WICKRAMASINGHE, Gammadde Hewa Ishan Maduka - RATHNAYAKE, Pilimathalawe Panditharathna Attanayake Mudiyansele Samith Indika - CHANDRASEKHARAN, Naduviladath Vishvanath - WEERASINGHE, Mahindagoda Siril Samantha - WIJESUNDERA, Ravindra Lakshman Chundananda - WIJESUNDERA, Wijepurage Sandhya Sulochana.

Expression, Docking, and Molecular Dynamics of Endo-beta-1,4-xylanase I Gene of *Trichoderma virens* in *Pichia stipitis*. In **BIOMED RESEARCH INTERNATIONAL**. ISSN 2314-6133, 2017, vol., no., pp., Registrované v: WOS 532. [1.1] WIDYAHAPSARI, Dhina Aprilia Nurani - INDRATI, Retno - SETYABUDI, Sigit - SARDJONO. Evaluation of Lime Pretreatment for Bioconversion of Rice Straw to L-Lactic Acid by *Rhizopus Oryzae* AT3. In **AGRITECH-JURNAL TEKNOLOGI PERTANIAN**. ISSN 0216-0455, 2016, vol. 36, no. 3, pp. 253-260., Registrované v: WOS 533. [1.1] WONG, Ho-Lam - HU, Nien-Jen - JUANG, Tzong-Yuan - LIU, Yung-Chuan. Co-Immobilization of Xylanase and Scaffolding Protein onto an Immobilized Metal Ion Affinity Membrane. In **CATALYSTS**, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/catal10121408>., Registrované v: WOS 534. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Liuhao - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In **BIOCHEMICAL ENGINEERING JOURNAL**. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48., Registrované v: WOS 535. [1.1] WU, Qihua - FAN, Guangsen - YU, Taifei - SUN, Baoguo - TANG, Huihua - TENG, Chao - YANG, Ran - LI, Xiuting. Biochemical characteristics of the mutant xylanase T-XynC(122)C(166) and production of xylooligosaccharides from corncobs. In **INDUSTRIAL CROPS AND PRODUCTS**. ISSN 0926-6690, 2019, vol. 142, no., pp., Registrované v: WOS 536. [1.1] WU, Shuai - MA, Xiaojuan - CAO, Shilin - CHEN, Lihui - HUANG, Liulian - HUANG, Fang. Application of Enzymes for the Reduction of PFI Revolutions in the Secondary Pulping Process and Characteristics of Thermomechanical Pulp. In **BIORESOURCES**. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7487-7502. Dostupné na: <https://doi.org/10.15376/biores.15.4.7487-7502>., Registrované v: WOS 537. [1.1] WU, Shuyu - WANG, Yilin - SHEN, Tingting - WANG, Junhui - ZHANG, Guangya. Investigation on the underlying mechanism: How fusion xylanase-ELPs self-assembles into insoluble active aggregates. In **JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC**. ISSN 1381-1177, 2016, vol. 134, no., pp. 247-252., Registrované v: WOS 538. [1.1] WU, Xinxing - HUANG, Chen - ZHAI, Shengcheng - LIANG, Chen - HUANG, Caoming - LAI, Chenhuan - YONG, Qiang. Improving enzymatic hydrolysis efficiency of wheat straw through sequential autohydrolysis and alkaline post-extraction. In **BIORESOURCE TECHNOLOGY**. ISSN 0960-8524, 2018, vol. 251, no., pp. 374-380., Registrované v: WOS 539. [1.1] XIE, Xiao - YANG, Chunlei - GUAN, Le L. - WANG, Jiakun - XUE, Mingyuan - LIU, Jian X. Persistence of Cellulolytic Bacteria *Fibrobacter* and *Treponema* After Short-Term Corn Stover-Based Dietary Intervention Reveals the Potential to Improve Rumen Fibrolytic Function. In **FRONTIERS IN MICROBIOLOGY**. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS 540. [1.1] XIN, Donglin - YANG, Ming - CHEN, Xiang - ZHANG, Ying - WANG, Rui - WEN, Peiyao - ZHANG, Junhua. Improving cellulase recycling efficiency by decreasing the inhibitory effect of unhydrolyzed solid on recycled corn stover saccharification. In **RENEWABLE ENERGY**. ISSN 0960-1481,

- 2020, vol. 145, no., pp. 215-221. Dostupné na:
<https://doi.org/10.1016/j.renene.2019.06.029>., Registrované v: WOS
541. [1.1] XIN, Fengxue - CHEN, Tianpeng - JIANG, Yujiang - DONG, Weiliang - ZHANG, Wenming - ZHANG, Min - WU, Hao - MA, Jiangfeng - JIANG, Min. Strategies for improved isopropanol-butanol production by a Clostridium strain from glucose and hemicellulose through consolidated bioprocessing. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
542. [1.1] XIN, Fengxue - WANG, Chao - DONG, Weiliang - ZHANG, Wenming - WU, Hao - MA, Jiangfeng - JIANG, Min. Comprehensive investigations of biobutanol production by a non-acetone and 1,3-propanediol generating Clostridium strain from glycerol and polysaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
543. [1.1] XUE, Dongsheng - JIANG, Yanming - GONG, Chunjie. Exogenous xylanase expression simultaneously with the indigenous cellulase to increase the cellulose hydrolysis efficiency. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2019, vol. 140, no., pp. 126-132., Registrované v: WOS
544. [1.1] XUE, Qinglan - MA, Hongzhi - PENG, Shuhua - DENG, Mingyu - JIANG, Bo. Preparation and Properties of Modified Silica Support Immobilized Xylanase. In SCIENCE OF ADVANCED MATERIALS. ISSN 1947-2935, 2019, vol. 11, no. 7, pp. 1001-1007., Registrované v: WOS
545. [1.1] XU, Jiaying - GAO, Zhen - WU, Bin - HE, Bingfang. Lactose-induced production of a complete lignocellulolytic enzyme system by a novel bacterium Bacillus sp BS-5 and its application for saccharification of alkali-pretreated corn cob. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 5, pp. 2059-2070., Registrované v: WOS
546. [1.1] XU, Ning - HE, Aiyong - XU, Jiaying - XIN, Fengxue. Bioconversion of organosolv-treated bamboo into biobutanol integrated with on-site hydrolytic enzyme production. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 117-126. Dostupné na: <https://doi.org/10.1002/bbb.2065>., Registrované v: WOS
547. [1.1] YAACOB, Anis Surayani Mat - MAZLAN, Nurul Aishah - SAMAD, Kamaliah Abdul - SAUFI, Syed Mohd - YUSSOF, Hafizuddin Wan - JAHIM, Jamaliah. Factors affecting enzymatic hydrolysis of oil palm frond bagasse using cellic HTec2 for xylooligosaccharides production. In ASIAN JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 2307-8553, 2019, vol. 7, no. 1, pp. 122-129., Registrované v: WOS
548. [1.1] YADAVA, Sudha. Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology Foreword. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. XVI-+., Registrované v: WOS
549. [1.1] YANG, Jiangke - MA, Tengfei - FANG SHANG-GUAN - HAN, Zhenggang. Improving the catalytic activity of thermostable xylanase from Thermotoga maritima via mutagenesis of non-catalytic residues at glycone subsites. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 139, no., pp. Dostupné na:
<https://doi.org/10.1016/j.enzmictec.2020.109579>., Registrované v: WOS

550. [1.1] YANG, Jungwoo - KIM, Ji Eun - KIM, Jae Kyun - LEE, Sung Ho - YU, Ju-Hyun - KIM, Kyoung Heon. Evaluation of Commercial Cellulase Preparations for the Efficient Hydrolysis of Hydrothermally Pretreated Empty Fruit Bunches. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 7834-U2787., Registrované v: WOS
551. [1.1] YANG, Yinan - WANG, Lili - ZHANG, Yifeng - LI, Libo - SHI, Xuyang - LIU, Xintong - REN, Xiaodong - DOU, Sen. Transformation of Corn Stalk Residue to Humus-Like Substances during Solid-State Fermentation. In SUSTAINABILITY, 2019, vol. 11, no. 23, pp., Registrované v: WOS
552. [1.1] YANG, Zhiliang - ZHANG, Zisheng. Codon-optimized expression and characterization of a pH stable fungal xylanase in *Pichia pastoris*. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 53, no., pp. 80-87., Registrované v: WOS
553. [1.1] YAN, Jinping - WEI, Zhilei - WANG, Qiaoping - HE, Manman - LI, Shumei - IRBIS, Chagan. Bioethanol production from sodium hydroxide/hydrogen peroxide-pretreated water hyacinth via simultaneous saccharification and fermentation with a newly isolated thermotolerant *Kluyveromyces marxianus* strain. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 193, no., pp. 103-109., Registrované v: WOS
554. [1.1] YAN, Yu - BASU, Anindya - LI, Tinggang - HE, Jianzhong. Direct Conversion of Xylan to Butanol by a Wild-Type *Clostridium* Species Strain G117. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2016, vol. 113, no. 8, pp. 1702-1710., Registrované v: WOS
555. [1.1] YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>., Registrované v: WOS
556. [1.1] YATMAZ, Ercan - KARAHALIL, Ercan - GERMEC, Mustafa - ILGIN, Merve - TURHAN, Irfan. Controlling filamentous fungi morphology with microparticles to enhanced beta-mannanase production. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2016, vol. 39, no. 9, pp. 1391-1399., Registrované v: WOS
557. [1.1] YEGIN, Sirma - ALTINEL, Burak - TULUK, Kubra. A novel extremophilic xylanase produced on wheat bran from *Aureobasidium pullulans* NRRL Y-2311-1: Effects on dough rheology and bread quality. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 81, no., pp. 389-397., Registrované v: WOS
558. [1.1] YEGIN, Sirma - BUYUKKILECI, Ali Oguz - SARGIN, Sayit - GOKSUNGUR, Yekta. Exploitation of Agricultural Wastes and By-Products for Production of *Aureobasidium pullulans* Y-2311-1 Xylanase: Screening, Bioprocess Optimization and Scale Up. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 3, pp. 999-1010., Registrované v: WOS
559. [1.1] YEGIN, Sirma. Single-step purification and characterization of an extreme halophilic, ethanol tolerant and acidophilic xylanase from *Aureobasidium pullulans* NRRL Y-2311-1 with application potential in the food industry. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 67-75., Registrované v: WOS

560. [1.1] YEGIN, Sirma. Xylanase production by *Aureobasidium pullulans* on globe artichoke stem: Bioprocess optimization, enzyme characterization and application in saccharification of lignocellulosic biomass. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 5, pp. 441-449., Registrované v: WOS
561. [1.1] YENENLER, Asli - KURT, Hasan - SEZERMAN, Osman Ugur. Enhancing Enzymatic Properties of Endoglucanase I Enzyme from *Trichoderma Reesei* via Swapping from Cellobiohydrolase I Enzyme. In CATALYSTS, 2019, vol. 9, no. 2, pp., Registrované v: WOS
562. [1.1] YE, Yanxin - LI, Xuezhi - ZHAO, Jian. Production and Characteristics of a Novel Xylose- and Alkali-tolerant GH 43 beta-xylosidase from *Penicillium oxalicum* for Promoting Hemicellulose Degradation. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
563. [1.1] YU, Xiaoxiao - LIU, Yan - MENG, Jiatong - CHENG, Qiyue - ZHANG, Zaixiao - CUI, Yuxiao - LIU, Jiajing - TENG, Lirong - LU, Jiahui - MENG, Qingfan - REN, Xiaodong. Optimization of enzyme complexes for efficient hydrolysis of corn stover to produce glucose. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2015, vol. 28, no. 3, pp. 1115-1120., Registrované v: WOS
564. [1.1] ZAHOOR, Sana - JAVED, Huhammad Mohsin - BABAR, Masroor Ellahi. Characterization Of A Novel Hydrolytic Enzyme Producing Thermophilic Bacterium Isolated From The Hot Spring Of Azad Kashmir-Pakistan. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2016, vol. 59, no., pp., Registrované v: WOS
565. [1.1] ZHANG, Dongdong - WANG, Yi - ZHANG, Chunfang - ZHENG, Dan - GUO, Peng - CUI, Zongjun. Characterization of a Thermophilic Lignocellulose-Degrading Microbial Consortium with High Extracellular Xylanase Activity. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2018, vol. 28, no. 2, pp. 305-313., Registrované v: WOS
566. [1.1] ZHANG, Dongdong - WANG, Yi - ZHENG, Dan - GUO, Peng - CHENG, Wei - CUI, Zongjun. New combination of xylanolytic bacteria isolated from the lignocellulose degradation microbial consortium XDC-2 with enhanced xylanase activity. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 221, no., pp. 686-690., Registrované v: WOS
567. [1.1] ZHANG, Fei - BAI, Fengwu - ZHAO, Xinqing. Enhanced cellulase production from *Trichoderma reesei* Rut-C30 by engineering with an artificial zinc finger protein library. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2016, vol. 11, no. 10, pp. 1282-1290., Registrované v: WOS
568. [1.1] ZHANG, Fei - LI, Jia-Xiang - CHAMPREDA, Verawat - LIU, Chen-Guang - BAI, Feng-Wu - ZHAO, Xin-Qing. Global Reprogramming of Gene Transcription in *Trichoderma reesei* by Overexpressing an Artificial Transcription Factor for Improved Cellulase Production and Identification of Ypr1 as an Associated Regulator. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00649>., Registrované v: WOS
569. [1.1] ZHANG, Fei - ZHAO, Xinqing - BAI, Fengwu. Improvement of cellulase production in *Trichoderma reesei* Rut-C30 by overexpression of a novel regulatory gene Trvib-1. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524,

2018, vol. 247, no., pp. 676-683., Registrované v: WOS

570. [1.1] ZHANG, Jian-Xin - SHAN, Jin-Feng - MING, Hong - SONG, Dong-Ying - DUAN, Yan-Yan - NIE, Guo-Xing. Cloning and expression of a broad pH stable GH11 xylanase from *Aspergillus niger* C71. In *TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI*. ISSN 0250-4685, 2015, vol. 40, no. 4, pp. 323-333., Registrované v: WOS

571. [1.1] ZHANG, Jie - WANG, Yue-Hai - WEI, Quan-Yuan - DU, Xiao-Jia - QU, Yong-Shui. Investigating desorption during ethanol elution to improve the quality and antioxidant activity of xylo-oligosaccharides from corn stalk. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 249, no., pp. 342-347., Registrované v: WOS

572. [1.1] ZHANG, Jie - WANG, Yue-Hai - QU, Yong-Shui - WEI, Quan-Yuan - LI, Hong-Qiang. Effect of the organizational difference of corn stalk on hemicellulose extraction and enzymatic hydrolysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 112, no., pp. 698-704., Registrované v: WOS

573. [1.1] ZHANG, Shuai-Bing - ZHANG, Wei-Ji - ZHAI, Huan-Chen - LV, Yang-Yong - CAI, Jing-Ping - JIA, Feng - WANG, Jin-Shui - HU, Yuan-Sen. Expression of a wheat beta-1,3-glucanase in *Pichia pastoris* and its inhibitory effect on fungi commonly associated with wheat kernel. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2019, vol. 154, no., pp. 134-139., Registrované v: WOS

574. [1.1] ZHANG, Shuai-Bing - WANG, Le - LIU, Yan - ZHAI, Huan-Chen - CAI, Jing-Ping - HU, Yuan-Sen. Expression of feruloyl esterase A from *Aspergillus terreus* and its application in biomass degradation. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2015, vol. 115, no., pp. 153-157., Registrované v: WOS

575. [1.1] ZHANG, Xiaoyue - LI, Yonghao - ZHAO, Xinqing - BAI, Fengwu. Constitutive cellulase production from glucose using the recombinant *Trichoderma reesei* strain overexpressing an artificial transcription activator. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 223, no., pp. 317-322., Registrované v: WOS

576. [1.1] ZHAO, Dan - LIU, Pengfei - PAN, Chao - DU, Renpeng - PING, Wenxiang - GE, Jingping. Flax retting by degumming composite enzyme produced by *Bacillus licheniformis* HDYM-04 and effect on fiber properties. In *JOURNAL OF THE TEXTILE INSTITUTE*. ISSN 0040-5000, 2017, vol. 108, no. 4, pp. 507-510., Registrované v: WOS

577. [1.1] ZHAO, Longmei - GENG, Jiang - GUO, Yaoqi - LIAO, Xiudong - LIU, Xuhui - WU, Rujuan - ZHENG, Zhaojun - ZHANG, Rijun. Expression of the *Thermobifida fusca* xylanase Xyn11A in *Pichia pastoris* and its characterization. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2015, vol. 15, no., pp., Registrované v: WOS

578. [1.1] ZHOU, Haifeng - QIU, Xueqing - YANG, Dongjie - XIE, Shaoqu. Laccase and Xylanase Incubation Enhanced the Sulfomethylation Reactivity of Alkali Lignin. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2016, vol. 4, no. 3, pp. 1248-1254., Registrované v: WOS

579. [1.1] ZHOU, Ye-Bo - CAO, Jia-Wen - SUN, Xiao-Bao - WANG, Huan - GAO, De-Ying - LI, Yang-Nan - WU, Kai-Yue - WANG, Jia-Kun - QIAN, Guo-Ying - WANG, Qian. Enhanced stability of a rumen-derived

xylanase using SpyTag/SpyCatcher cyclization. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-2809-4>., Registrované v: WOS

580. [1.1] ZHU YUNPING - LI XIUTING. Preparation and characterization of immobilized xylanase from *Streptomyces ramosus* L2001 and its advantageous characteristics in xylo oligosaccharide production. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2015, vol. 10, no. 5, pp. 99-107., Registrované v: WOS

581. [1.1] ZHU, Youshuang - XIN, Fengxue - CHANG, Yunkang - ZHAO, Ying - WONG WEICHONG. Feasibility of reed for biobutanol production hydrolyzed by crude cellulase. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2015, vol. 76, no., pp. 24-30., Registrované v: WOS

582. [1.2] AGUSTIN, Y. E. - RIADI, L. - UTAMI, T. P. Xylanase production from combined *Reutealis trisperma* with potato dextrose broth by *Trichoderma reesei*: The effect of pretreatment. In IOP Conference Series: Materials Science and Engineering. ISSN 17578981, 2019-12-05, 703, 1, pp., Registrované v: SCOPUS

583. [1.2] AL-ASKAR, Abdulaziz Abdulrahman - SABER, Wesam Eldin Ismail Ali - GHONEEM, Khalid Mohamed - RASHAD, Younes Mohamed. Oxalic acid as the main molecule produced by *Trichoderma asperellum* MG323528 fermented on corn stover based medium. In Biotechnology. ISSN 1682296X, 2018-01-01, 17, 2, pp. 95-103., Registrované v: SCOPUS

584. [1.2] ARTE, Elisa - KATINA, Kati - HOLOPAINEN-MANTILA, Ulla - NORDLUND, Emilia. Effect of hydrolyzing enzymes on wheat bran cell wall integrity and protein solubility. In Cereal Chemistry. ISSN 00090352, 2016-03-01, 93, 2, pp. 162-171., Registrované v: SCOPUS

585. [1.2] ASHA, K. - SELVAKUMAR, G. - THIPPESWAMY, B. Isolation and screening of cellulolytic and xylanolytic microbes from composts and related environments. In Ecology, Environment and Conservation. ISSN 0971765X, 2016-01-01, 22, 4, pp. 1869-1874., Registrované v: SCOPUS

586. [1.2] AZZAZ, H. H. - ABOAMER, A. A. - ALZAHAR, Hoda - ABDO, M. M. - MURAD, H. A. Effect of xylanase and phytase supplementation on goat's performance in early lactation. In Pakistan Journal of Biological Sciences. ISSN 10288880, 2019-01-01, 22, 6, pp. 265-272., Registrované v: SCOPUS

587. [1.2] BAKRI, Yasser - AMMOUNEH, Hassan - HARBA, Muhanad - AKEED, Yasser - AUDI, Ruba - PENG, Leh Cheu. Xylanase production by a new *Bacillus pumilus* SY30A under solid state fermentation and its application in oil palm biomass pulp bleaching. In Journal of Sustainability Science and Management. ISSN 18238556, 2016-12-01, 11, 2, pp. 49-56., Registrované v: SCOPUS

588. [1.2] BANERJEE, Sudeshna - MUKHERJEE, Anjan - DUTTA, Dipanjan - GHOSH, Koushik. Non-starch polysaccharide degrading gut bacteria in Indian major carps and exotic carps. In Jordan Journal of Biological Sciences. ISSN 19956673, 2016-03-01, 9, 1, pp. 69-78., Registrované v: SCOPUS

589. [1.2] BELORKAR, S. A. - KAUSAR, H. Preliminary screening of molds for production of xylanase. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2018-03-01, 12, 2, pp. 161-164., Registrované v: SCOPUS

590. [1.2] BORSZCZ, Valeria - BOSCATO, Taisa P. - FLACH, Juliana -

CENCE, Karine - ZENI, Jamile - CANSIAN, Rogério Luis - BACKES, Geciane Toniazzi - VALDUGA, Eunice. Bacterial Biofilm Removal Using Solid-State-Produced Enzymes. In *Industrial Biotechnology*. ISSN 15509087, 2017-12-01, 13, 6, pp. 311-318., Registrované v: SCOPUS

591. [1.2] DÍAZ, Gabriela Verónica - ZAPATA, Pedro Darío - VILLALBA, Laura Lidia - FONSECA, María Isabel. Evaluation of new xylanolytic-producing isolates of *Aspergillus* from Misiones subtropical rainforest using sugarcane bagasse. In *Arab Journal of Basic and Applied Sciences*, 2019-01-02, 26, 1, pp. 292-301., Registrované v: SCOPUS

592. [1.2] DIKBAS, N. Purification and identification of β -mannanase from *Lactobacillus acidophilus* and its application for clarification of some fruit juice. In *Oxidation Communications*. ISSN 02094541, 2017-01-01, 40, 2, pp. 862-872., Registrované v: SCOPUS

593. [1.2] ELEGBEDE, Joseph Adetunji - LATEEF, Agbaje. Optimization of the production of xylanases in corn-cob-based media by *Aspergillus Niger* and *Trichoderma longibrachiatum* using Taguchi approach. In *Acta Biologica Szegediensis*. ISSN 1588385X, 2019-01-01, 63, 1, pp. 51-58., Registrované v: SCOPUS

594. [1.2] FADEL, Mohamed - EL-GHONEMY, Dina Helmy. Biological fungal treatment of olive cake for better utilization in ruminants nutrition in Egypt. In *International Journal of Recycling of Organic Waste in Agriculture*. ISSN 21953228, 2015-12-01, 4, 4, pp. 261-271., Registrované v: SCOPUS

595. [1.2] FALCK, Peter - ARONSSON, Anna - GREY, Carl - STÅLBRAND, Henrik - NORDBERG KARLSSON, Eva - ADLERCREUTZ, Patrick. Production of arabinoxylan-oligosaccharide mixtures of varying composition from rye bran by a combination of process conditions and type of xylanase. In *Bioresource Technology*. ISSN 09608524, 2015-01-01, 174, pp. 118-125., Registrované v: SCOPUS

596. [1.2] GAUTAM, Archana - KUMAR, Amit - BHARTI, Amit Kumar - DUTT, Dharm. Rice straw fermentation by *Schizophyllum commune* ARC-11 to produce high level of xylanase for its application in pre-bleaching. In *Journal of Genetic Engineering and Biotechnology*. ISSN 1687157X, 2018-12-01, 16, 2, pp. 693-701., Registrované v: SCOPUS

597. [1.2] GUO, Mengmeng - XU, Kang - WANG, Zhenlin. Effect of kilning on the composition of protein and arabinoxylan in wheat malt. In *Journal of the Institute of Brewing*. ISSN 00469750, 2019-01-01, 125, 3, pp. 288-293., Registrované v: SCOPUS

598. [1.2] HAQ, Ikram Ul. Understanding of diverse xylanolytic activity of *Bacillus* strains under extremophilic in-vitro conditions. In *Journal of Chemical and Pharmaceutical Research*, 2015-01-01, 7, 11, pp. 12-18., Registrované v: SCOPUS

599. [1.2] HEFFELS, Peter - BÜHRLE, Franziska - SCHIEBER, Andreas - WEBER, Fabian. Influence of common and excessive enzymatic treatment on juice yield and anthocyanin content and profile during bilberry (*Vaccinium myrtillus* L.) juice production. In *European Food Research and Technology*. ISSN 14382377, 2017-01-01, 243, 1, pp. 59-68., Registrované v: SCOPUS

600. [1.2] HELIANTI, Is - ULFAH, Maria - NURHAYATI, Niknik - SUHENDAR, Dadang - FINALISSARI, Anita Kusuma - WARDANI, Agustin Krisna. Production of Xylanase by Recombinant *Bacillus subtilis* DB104 Cultivated in Agroindustrial Waste Medium. In *HAYATI Journal of Biosciences*.

- ISSN 19783019, 2016-07-01, 23, 3, pp. 125-131., Registrované v: SCOPUS
601. [1.2] HOU, Lifan - SUN, Xiangyang - SUI, Jixue - DING, Changhe. Immobilization of a 22kDa xylanase on eudragit L-100 for xylo-oligosaccharide production. In *Advance Journal of Food Science and Technology*. ISSN 20424868, 2015-01-01, 7, 6, pp. 401-407., Registrované v: SCOPUS
602. [1.2] CHATURVEDI, Shivani - KUMARI, Arti - BHATACHARYA, Amrik - SHARMA, Anamika - NAIN, Lata - KHARE, Sunil K. Banana peel waste management for single-cell oil production. In *Energy, Ecology and Environment*. ISSN 23637692, 2018-10-01, 3, 5, pp. 296-303., Registrované v: SCOPUS
603. [1.2] ISMAIL, M. A. - MOUBASHER, A. H. - MOHAMED, Ramadan A. - AL-BEDAK, O. A. Agro-industrial residues as alternative sources for cellulases and xylanases production and purification of xylanase produced by *Aspergillus flavus* AUMC 10331 isolated from extreme habitat. In *Current Research in Environmental and Applied Mycology*, 2018-01-01, 8, 3, pp. 313-322., Registrované v: SCOPUS
604. [1.2] JAMPALA, Preethi - MURUGAN, Preethi - RAMANUJAM, Swathy - UPPULURI, Kiran Babu. Investigation on the effect of carbon and nitrogen sources for the production of cellulosome by *Trichoderma reesei* NCIM 1186 using saturated placket burman design. In *Biosciences Biotechnology Research Asia*. ISSN 09731245, 2015-01-01, 12, 2, pp. 1577-1586., Registrované v: SCOPUS
605. [1.2] Janveja, C., Rana, S. S., & Soni, S. K. (2016). Statistical optimization of media components for the enhanced B-xylanase and B-mannanase production from *aspergillus niger* C-5 via solid state fermentation of wheat bran. *International Journal of Pharma and Bio Sciences*, 7(1), B89-B102, Registrované v: SCOPUS
606. [1.2] JENA, Harekrushna - HALDER, Suman Kumar - SOREN, Jyoti Prakash - TAKÓ, Miklós - MONDAL, Keshab Chandra. Valorization of wheat bran for cost-effective production of cellulolytic enzymes by *Aspergillus fumigatus* SKH2 and utilization of the enzyme cocktail for saccharification of lignocellulosic biomass. In *Acta Biologica Szegediensis*. ISSN 1588385X, 2016-01-01, 60, 2, pp. 129-137., Registrované v: SCOPUS
607. [1.2] KHVEDELIDZE, Rusudan - TSIKLARI, Nino - ALEKSIDZE, Tinatin - KVESITADZE, Edisher. Enzymatic hydrolysis of lignocellulosic agricultural wastes to fermentable glucose. In *Bulletin of the Georgian National Academy of Sciences*. ISSN 01321447, 2016-01-01, 10, 2, pp. 138-147., Registrované v: SCOPUS
608. [1.2] KUMAR, Amit - DUTT, Dharm - GAUTAM, Archana. Production of crude enzyme from *Aspergillus nidulans* AKB-25 using black gram residue as the substrate and its industrial applications. In *Journal of Genetic Engineering and Biotechnology*. ISSN 1687157X, 2016-06-01, 14, 1, pp. 107-118., Registrované v: SCOPUS
609. [1.2] LEE, Young Sup - WON, Kyung Hye - OH, Jae Don - SHIN, Donghyun. In silico approach to calculate the transcript capacity. In *Genomics and Informatics*, 2019-01-01, 17, 3, pp., Registrované v: SCOPUS
610. [1.2] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the β -xyl1 gene in *Trichoderma orientalis* EU7-22. In *3 Biotech*. ISSN 2190572X, 2018-01-01, 8, 1, pp.,

Registrované v: SCOPUS

611. [1.2] LOUREIRO, Dana B. - ROMANINI, Diana - TUBIO, Gisela. Structural and functional analysis of *Aspergillus niger* xylanase to be employed in polyethylenglycol/salt aqueous two-phase extraction. In *Biocatalysis and Agricultural Biotechnology*. ISSN 18788181, 2016-01-01, 5, pp. 204-210.,

Registrované v: SCOPUS

612. [1.2] Malhotra, G., Jeshreena, R., & Chapadgaonkar, S. S. (2016). Aqueous two phase purification of xylanase obtained from a bacterial isolate. *International Journal of Pharma and Bio Sciences*, 7(4), B305-B308,

Registrované v: SCOPUS

613. [1.2] MANAN, Musaalbakri Abdul - WEBB, Colin. Evaluation of standard procedures for inoculum transfer for homogeneous distribution during the start-up of a fungal solid state fermentation process. In *Journal of Biotech Research*, 2018-01-01, 9, pp. 48-57., Registrované v: SCOPUS

614. [1.2] MANJU - BISHNOI, Narsi R. Enzyme production from low cost cellulosic biomass of water hyacinth by solid state fermentation. In *Annals of Biology*. ISSN 09700153, 2015-12-01, 31, 2, pp. 165-170., Registrované v: SCOPUS

615. [1.2] MILLICENT MABEL, M. - PARTHASARATHY, N. - RAJKUMAR, Johanna - GURURAJ, P. N. - THULASI PRIYADHARSHINI, M. A study on the immobilization of acid xylanase on chitosan from chitin of shrimp shells. In *Journal of Chemical and Pharmaceutical Sciences*. ISSN 09742115, 2016-01-01, 9, 1, pp. 268-271., Registrované v: SCOPUS

616. [1.2] NADAROGLU, H. - SONMEZ, Z. Purification of an endo-beta 1,4-mannanase from *Clitocybe Geotropa* and immobilization on chitosan-coated magnetite nanoparticles: Application for fruit juices. In *Digest Journal of Nanomaterials and Biostructures*, 2016-04-01, 11, 2, pp. 685-697., Registrované v: SCOPUS

617. [1.2] PADDER, Shahid Ahmad - DAR, G. H. - MOHIDDIN, F. A. - SHAH, M. D. Characterization and plant growth promoting aspects of a novel phosphate solubilizing brown sarson endophyte *Pseudomonas fluorescens* Strain smppsap5 isolated from Northern Himalayas of India. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-09-01, 10, 3, pp. 2003-2018., Registrované v: SCOPUS

618. [1.2] PANDEY, Ramsharan - NAHAR, Nurun - TUMULURU, Jaya Shankar - PRYOR, Scott W. Quantifying reductions in soaking in aqueous ammonia pretreatment severity and enzymatic hydrolysis conditions for corn stover pellets. In *Bioresource Technology Reports*, 2019-09-01, 7, pp., Registrované v: SCOPUS

619. [1.2] PANDIAN, R. - VIGNESWARAN, T. - LALITHAKUMARI, S. Characterization of CT cancer lung image using image compression algorithms and feature extraction. In *Journal of Scientific and Industrial Research*. ISSN 00224456, 2016-12-01, 75, 12, pp. 747-751., Registrované v: SCOPUS

620. [1.2] RAMNATH, L. - SITHOLE, B. - GOVINDEN, R. Identification of lipolytic enzymes isolated from bacteria indigenous to *Eucalyptus* wood species for application in the pulping industry. In *Biotechnology Reports*, 2017-09-01, 15, pp. 114-124., Registrované v: SCOPUS

621. [1.2] RANA, Vandana. Enzyme production from *trichoderma reesei* and *aspergillus* strain. In *SpringerBriefs in Applied Sciences and Technology*. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 69-86., Registrované v:

SCOPUS

622. [1.2] REFFAS, F. Z.I. - MISSOURI, A. - NOURINE, Z. - TIFRIT, A. - LARBI DAOUADJI, K. - TAYEB, S. - ABBOUNI, B. Optimization of cellulase production by bacterial strains, isolated from the soils of the North West of Algeria. In *Der Pharmacia Lettre*, 2016-01-01, 8, 17, pp. 42-48., Registrované v: SCOPUS
623. [1.2] ROSMINE, Emilda - SAINJAN, Neethu Changanedassery - SILVESTER, Reshma - ALIKKUNJU, Aneesa - VARGHESE, Saramma Aikkarakunnath. Statistical optimisation of xylanase production by estuarine *Streptomyces* sp. and its application in clarification of fruit juice. In *Journal of Genetic Engineering and Biotechnology*. ISSN 1687157X, 2017-12-01, 15, 2, pp. 393-401., Registrované v: SCOPUS
624. [1.2] SALCEDO-MENDOZA, Jairo - FLÓREZ-PARDO, Luz M. - LOPÉZ-GALÁN, Jorge. Significant enzymatic activities in the residues hydrolysis of the sugar cane harvestsup•/sup. In *DYNA (Colombia)*. ISSN 00127353, 2019-07-01, 86, 210, pp. 35-41., Registrované v: SCOPUS
625. [1.2] SELIM, Samy. Molecular characterization of thermostable xylanase producing *Thermoactinomyces vulgaris* HSB4. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-09-01, 10, 3, pp. 1965-1969., Registrované v: SCOPUS
626. [1.2] SELVARAJAN, E. - VEENA, R. Recent advances and future perspectives of thermostable xylanase. In *Biomedical and Pharmacology Journal*. ISSN 09746242, 2017-01-01, 10, 1, pp. 261-279., Registrované v: SCOPUS
627. [1.2] SHRIVASTAVA, Smriti - KUMAR, Vishal - BAWEJA, Mehak - SHUKLA, Pratyosh. Enhanced xylanase production from *Thermomyces lanuginosus* NCIM 1374/DSM 28966 using statistical analysis. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-09-01, 10, 3, pp. 2225-2230., Registrované v: SCOPUS
628. [1.2] SOHAIL, Muhammad - LATIF, Zakia. Phylogenetic analysis of polygalacturonase-producing *Bacillus* and *Pseudomonas* isolated from plant waste material. In *Jundishapur Journal of Microbiology*. ISSN 20083645, 2015-01-02, 9, 1, pp., Registrované v: SCOPUS
629. [1.2] SUKRI, Siti Sabrina Mohd - MUNAIM, Mimi Sakinah Abdul. Combination of entrapment and covalent binding techniques for xylanase immobilisation on alginate beads: Screening process parameters. In *Chemical Engineering Transactions*, 2017-01-01, 56, pp. 169-174., Registrované v: SCOPUS
630. [1.2] SULEMAN, Muhammad - FAIZ, Abu ul Hassan - SHAHBAZ, Muhammad - RIAZ, Ayesha. Effect of UV Irradiation of *Aspergillus Niger* on the Production of Xylanase in the Presence of Wheat Bran as Carbon Source. In *Pakistan Journal of Zoology*. ISSN 00309923, 2019-01-01, 51, 6, pp. 2393-2396., Registrované v: SCOPUS
631. [1.2] SWAMINATHAN, Jonesh - JAYAPAL, Perumal Raj - ASOKAN, Meera - RAMASAMY, Dhanasekar. Dilute acid pretreatment of sweet sorghum stalk and its characterization. In *International Journal of ChemTech Research*. ISSN 09744290, 2015-01-01, 8, 6, pp. 589-598., Registrované v: SCOPUS
632. [1.2] TEIXEIRA, Amito José - WESCHENFELDER, Leonardo Menoncin - ANTUNES, Angela - ZENI, Jamile - BACKES, Geciane Toniazzi - CANSIAN, Rogério Luis. Commercial and non-commercial pectinase and

- cellulase on the enzymatic hydrolysis efficacy of rice husk and tifton 85 hay. In *Acta Scientiarum Animal Sciences*. ISSN 18062636, 2019-01-01, 41, 1, pp., Registrované v: SCOPUS
633. [1.2] TENG, Chao - FAN, Yuanyuan - QU, Lingyu - ZHA, Peina - XIAO, Lin - LI, Xiuting. Optimization of high-producing xylanase by thermophilic fungi *talaromyces thermophilus* F1208. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2015-01-01, 15, 8, pp. 85-93., Registrované v: SCOPUS
634. [1.2] TOGTOKHBAYAR, Norovsambuu - URANKHAICH, Chuluunbaatar - AYUSHJAV, Otgonjargal - TSEVEGMED, Munkhnasan - ODONGO, Nicholas E. Effects of exogenous cellulase and xylanase enzyme preparations on feed intake, nutrient digestibility, growth, and economics of rearing Mongolian lambs. In *Journal of Agriculture and Rural Development in the Tropics and Subtropics*. ISSN 16129830, 2017-01-01, 118, 1, pp. 81-89., Registrované v: SCOPUS
635. [1.2] TOUMI, S. - TIFRIT, A. - HADJAZI, D. - CHAMA, Z. - ABBOUNI, B. Production of a thermostable amylase by yeast strain isolated from saharian soils cultivated in soft cheese whey. In *Der Pharmacia Lettre*, 2016-01-01, 8, 17, pp. 32-41., Registrované v: SCOPUS
636. [1.2] WAN AZELEE, Nur Izyan - JAHIM, Jamaliah Md - ISMAIL, Ahmad Fauzi - FUZI, Siti Fatimah Zaharah Mohamad - RAHMAN, Roshanida A. - GHAZALI, Nazlee Faisal - ILLIAS, Rosli Md. Enzymatic hydrolysis of pretreated kenaf using a recombinant xylanase: Effects of reaction conditions for optimum hemicellulose hydrolysis. In *American Journal of Agricultural and Biological Science*. ISSN 15574989, 2016-04-28, 11, 2, pp. 54-66., Registrované v: SCOPUS
637. [1.2] WANG, Juan - GONG, Yanfen - LAI, Yapeng - DENG, Tingting - XIE, Ning - LIU, Gang. The effect of RNA interference of MHR1 on cellulase activity in *Myceliophthora thermophila*. In *Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering*. ISSN 10002618, 2018-01-30, 35, 1, pp. 15-21., Registrované v: SCOPUS
638. [1.2] WANG, Zhao - WINESTRAND, Sandra - GILLGREN, Thomas - JÖNSSON, Leif J. Chemical and structural factors influencing enzymatic saccharification of wood from aspen, birch and spruce. In *Biomass and Bioenergy*. ISSN 09619534, 2018-02-01, 109, pp. 125-134., Registrované v: SCOPUS
639. [1.2] WIRATNO, Ekwana Nofa - SUHARJONO - WARDANI, Agustin Krisna. Phylogenetic identification of cellulolytic and butanol production bacteria based on 16S rDNA from Ranu Pani lake, east java, Indonesia. In *International Journal of ChemTech Research*. ISSN 09744290, 2015-01-01, 8, 10, pp. 249-258., Registrované v: SCOPUS
640. [1.2] YOUSSEF, Ghada A. - KABEIL, Sanaa S. - ELKADY, Samah K. - EL-AASSAR, Samy A. Production and optimization of xylanase from thermotolerant and alkali tolerant *Emericella nidulans* AS210136.01 isolate from lignocellulosic wastes. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2015-01-01, 9, special Edition 1, pp. 237-249., Registrované v: SCOPUS
641. [3.2] Cortez Ávila, María Guadalupe; Ardilas Arias, Alba Nelly; Salgado Román, Juan Manuel; Hernández Soto, Rosa; Hernández Maldonado, José Alfredo: Enzymatic activity of xylanase immobilized in sodium alginate

beads in citral hydrogenation using liquid médium. IN Acta universitaria, 2016, vol. 26, iss. 1, p. 48-55., Registrované v: SciELO Citation Index 642. [3.2] Suganya, W. Bioprospecting of a phyllospheric microorganism-*Aspergillus niger* for crude xylanase enzyme production. In: International Journal of Botany Studies, 2018, volume: 3, Issue: 6, Pages: 45-47, ISSN 2455-541X, Registrované v: BIOSIS Citation Index:

ADCA45 BALESTRI, Mirko - CECCARINI, Alessio - FORINO, Laura Maria Constantina - ZELKO, Ivan - MARTINKA, Michal - LUX, Alexander - CASTIGLIONE, Monica Ruffini. Cadmium uptake, localization and stress-induced morphogenic response in the fern *Pteris Vittata*. In *Planta*, 2014, vol. 239, p. 1055-1064. (2013: 3.376 - IF, Q1 - JCR, 1.562 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0032-0935. Dostupné na: <https://doi.org/10.1007/s00425-014-2036-z>

Ohlasy:

1. [1.1] ABID, Rafia - MANZOOR, Maria - DE OLIVEIRA, Letuzia M. - DA SILVA, Evandro - RATHINASABAPATHI, Bala - RENSING, Christopher - MAHMOOD, Seema - LIU, Xue - MA, Lena Q. Interactive effects of As, Cd and Zn on their uptake and oxidative stress in As-hyperaccumulator *Pteris vittata*. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2019, vol. 248, no., pp. 756-762., Registrované v: WOS
2. [1.1] ADAMCZYK-SZABELA, Dorota - LISOWSKA, Katarzyna - ROMANOWSKA-DUDA, Zdzislaw - WOLF, Wojciech M. Associated Effects of Cadmium and Copper Alter the Heavy Metals Uptake by *Melissa Officinalis*. In MOLECULES, 2019, vol. 24, no. 13, pp., Registrované v: WOS
3. [1.1] AVELLAN, Astrid - SCHWAB, Fabienne - MASION, Armand - CHAURAND, Perrine - BORSCHNECK, Daniel - VIDAL, Vladimir - ROSE, Jerome - SANTAELLA, Catherine - LEVARD, Clement. Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of *Arabidopsis thaliana* by X-ray Computed Nanotomography and Hyperspectral Imaging. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2017, vol. 51, no. 15, pp. 8682-8691., Registrované v: WOS
4. [1.1] CAMPOS, Naiara Viana - ARCANJO-SILVA, Samara - FREITAS-SILVA, Larisse - DE ARAUJO, Talita Oliveira - SOUZA-FERNANDES, Daniela Pinto - AZEVEDO, Aristeia Alves. Arsenic hyperaccumulation in *Pityrogramma calomelanos* L. (Link): adaptive traits to deal with high metalloid concentrations. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 11, pp. 10720-10729., Registrované v: WOS
5. [1.1] CANTAMESSA, Simone - MASSA, Nadia - GAMALERO, Elisa - BERTA, Graziella. Phytoremediation of a Highly Arsenic Polluted Site, Using *Pteris vittata* L. and Arbuscular Mycorrhizal Fungi. In PLANTS-BASEL, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091211>., Registrované v: WOS
6. [1.1] CORNU, J. Y. - BAKOTO, R. - BONNARD, O. - BUSSIÈRE, S. - CORIOU, C. - SIRGUEY, C. - STERCKEMAN, T. - THUNOT, S. - VISSE, M. I. - NGUYEN, C. Cadmium uptake and partitioning during the vegetative growth of sunflower exposed to low Cd²⁺ concentrations in hydroponics. In PLANT AND SOIL. ISSN 0032-079X, 2016, vol. 404, no. 1-2, pp. 263-275., Registrované v: WOS

7. [1.1] DE FREITAS-SILVA, Larisse - DE ARAUJO, Talita Oliveira - DA SILVA, Luzimar Campos - DE OLIVEIRA, Juraci Alves - DE ARAUJO, Joao Marcos. Arsenic accumulation in Brassicaceae seedlings and its effects on growth and plant anatomy. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2016, vol. 124, no., pp. 1-9., Registrované v: WOS
8. [1.1] HUANG, Xiaochen - TANG, Keli - XU, Xuping - CAI, Chunting. Interaction of Fe-Mn plaque and *Arthrobacter echigonensis* MN1405 and uptake and translocation of Cd by *Phytolacca acinosa* Roxb. In CHEMOSPHERE. ISSN 0045-6535, 2017, vol. 174, no., pp. 585-592., Registrované v: WOS
9. [1.1] HUA, Chen-Yu - CHEN, Jun-Xiu - CAO, Yue - LI, Hong-Bo - CHEN, Yanshan - MA, Lena Q. *Pteris vittata* coupled with phosphate rock effectively reduced As and Cd uptake by water spinach from contaminated soil. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 247, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.125916>., Registrované v: WOS
10. [1.1] KONG, Xiangpei - LI, Cuiling - ZHANG, Feng - YU, Qianqian - GAO, Shan - ZHANG, Maolin - TIAN, Huiyu - ZHANG, Jian - YUAN, Xianzheng - DING, Zhaojun. Ethylene promotes cadmium-induced root growth inhibition through EIN3 controlled XTH33 and LSU1 expression in *Arabidopsis*. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2018, vol. 41, no. 10, pp. 2449-2462., Registrované v: WOS
11. [1.1] KONG, Xiangshi - ZHAO, Yunxia - TIAN, Kai - HE, Xingbing - JIA, Yanyan - HE, Zaihua - WANG, Wenwen - XIANG, Changguo - TIAN, Xingjun. Insight into nitrogen and phosphorus enrichment on cadmium phytoextraction of hydroponically grown *Salix matsudana* Koidz cuttings. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 8, pp. 8406-8417. Dostupné na: <https://doi.org/10.1007/s11356-019-07499-4>., Registrované v: WOS
12. [1.1] LIU, Haiwei - WANG, Haiyun - MA, Yibing - WANG, Haohao - SHI, Yi. Role of transpiration and metabolism in translocation and accumulation of cadmium in tobacco plants (*Nicotiana tabacum* L.). In CHEMOSPHERE. ISSN 0045-6535, 2016, vol. 144, no., pp. 1960-1965., Registrované v: WOS
13. [1.1] LI, Qinchun - YANG, Xiaoyan - WANG, Hongbin - WANG, Haijuan - HE, Shujuan. Endogenous trans-zeatin content in plants with different metal-accumulating ability: a field survey. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 23, pp. 23422-23435., Registrované v: WOS
14. [1.1] MEUNIER, Jean Dominique - BARBONI, Doris - ANWAR-UL-HAQ, Muhammad - LEVARD, Clement - CHAURAND, Perrine - VIDAL, Vladimir - GRAUBY, Olivier - HUC, Roland - LAFFONT-SCHWOB, Isabelle - RABIER, Jacques - KELLER, Catherine. Effect of phytoliths for mitigating water stress in durum wheat. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 215, no. 1, pp. 229-239., Registrované v: WOS
15. [1.1] RONZAN, M. - ZANELLA, L. - FATTORINI, L. - DELLA ROVERE, F. - URGAST, D. - CANTAMESSA, S. - NIGRO, A. - BARBIERI, M. - DI TOPPI, L. Sanita - BERTA, G. - FELDMANN, J. - ALTAMURA, Mm. - FALASCA, G. The morphogenic responses and phytochelatin complexes induced by arsenic in *Pteris vittata* change in the presence of cadmium. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472,

2017, vol. 133, no., pp. 176-187., Registrované v: WOS

16. [1.1] SHARMA, R. - KAUR, R. Diallyl phthalate-triggered oxidative stress in *Spirodela polyrhiza* L. Schleiden: physiological effects and role of antioxidant defence system. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2020, vol. 17, no. 4, pp. 2245-2258. Dostupné na:

<https://doi.org/10.1007/s13762-019-02491-4>., Registrované v: WOS

17. [1.1] SHARMA, Shanti S. - YAMAMOTO, Kotaro - HAMAJI, Kohei - OHNISHI, Miwa - ANEGAWA, Aya - SHARMA, Shashi - THAKUR, Sveta - KUMAR, Vijay - UEMURA, Tomohiro - NAKANO, Akihiko - MIMURA, Tetsuro. Cadmium-induced changes in vacuolar aspects of *Arabidopsis thaliana*. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 114, no., pp. 29-37., Registrované v: WOS

18. [1.1] SONG, Yu - JIN, Liang - WANG, Xiaojuan. Cadmium absorption and transportation pathways in plants. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2017, vol. 19, no. 2, pp. 133-141., Registrované v: WOS

19. [1.1] TAO, Qi - LIU, Yuankun - LI, Meng - LI, Jinxing - LUO, Jipeng - LUX, Alexander - KOVAC, Jan - YUAN, Shu - LI, Bing - LI, Qiquan - LI, Huanxiu - LI, Tingqiang - WANG, Changquan. Cd-induced difference in root characteristics along root apex contributes to variation in Cd uptake and accumulation between two contrasting ecotypes of *Sedum alfredii*. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 243, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125290>., Registrované v: WOS

20. [1.1] UKAI, Yuko - INOUE, Komaki - KAMADA, Manaka - TERAMURA, Hiroshi - YANAGISAWA, Shunsuke - KITAZAKI, Kazuyoshi - SHOJI, Kazuhiro - GOTO, Fumiyuki - MOCHIDA, Keiichi - YOSHIHARA, Toshihiro - SHIMADA, Hiroaki. De novo transcriptome analysis reveals an unperturbed transcriptome under high cadmium conditions in the Cd-hypertolerant fern *Athyrium yokoscense*. In GENES & GENETIC SYSTEMS. ISSN 1341-7568, 2020, vol. 95, no. 2, pp. 65-74. Dostupné na: <https://doi.org/10.1266/ggs.19-00056>., Registrované v: WOS

21. [1.1] YUE, Runqing - LU, Caixia - QI, Jianshuang - HAN, Xiaohua - YAN, Shufeng - GUO, Shulei - LIU, Lu - FU, Xiaolei - CHEN, Nana - YIN, Haiyan - CHI, Haifeng - TIE, Shuanggui. Transcriptome Analysis of Cadmium-Treated Roots in Maize (*Zea mays* L.). In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS

22. [1.1] ZHAN, Yi-hua - ZHANG, Cheng-hao - ZHENG, Qiu-xun - HUANG, Zong-an - YU, Chen-liang. Cadmium stress inhibits the growth of primary roots by interfering auxin homeostasis in *Sorghum bicolor* seedlings. In JOURNAL OF PLANT BIOLOGY. ISSN 1226-9239, 2017, vol. 60, no. 6, pp. 593-603., Registrované v: WOS

23. [1.2] PIRŠELOVÁ, Beáta - KUNA, Roman - LUKÁČ, Peter - HAVRLENTOVÁ, Michaela. Effect of cadmium on growth, photosynthetic pigments, iron and cadmium accumulation of Faba Bean (*Vicia faba* cv. Aštar). In Agriculture. ISSN 05513677, 2016-08-01, 62, 2, pp. 72-79., Registrované v: SCOPUS

24. [1.2] SHAH, Kavita - NAHAKPAM, Sareeta - CHATURVEDI, Vyomendra - SINGH, Prerna. Cadmium-Induced Anatomical Abnormalities in

Plants. In Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation, 2018-12-05, pp. 111-139., Registrované v: SCOPUS

ADCA46 BÁLINT, Š. - FARKAŠ, Vladimír - BAUER, Š.. Biosynthesis of β -glucans catalyzed by a particulate enzyme preparation from yeast. In *FEBS Letters*, 1976, vol.64, no., p.44-47. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(76\)80244-X](https://doi.org/10.1016/0014-5793(76)80244-X)

Ohlasy:

1. [1.1] LIU, Yuntao - LI, Yiwen - ZHANG, Huilan - LI, Cheng - ZHANG, Zhiqing - LIU, Aiping - CHEN, Hong - HU, Bin - LUO, Qingying - LIN, Bokun - WU, Wenjuan. Polysaccharides from *Cordyceps militaris* cultured at different pH: Sugar composition and antioxidant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 349-358. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.182>., Registrované v: WOS
2. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal beta-Glucans. In *CATALYSTS*. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS
3. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS
4. [1.2] HARADA, Tokuya - HARADA, Akira. Curdlan and succinoglycan. In *Polysaccharides in Medicinal Applications*, 2017-01-01, pp. 21-58., Registrované v: SCOPUS

ADCA47 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - MENDICHI, Raniero - MISLOVIČOVÁ, Danica - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Effect of buccillamine on free-radical-mediated degradation of high-molar-mass hyaluronan induced in vitro by ascorbic acid and Cu(II) ions. In *Polymers : Open Access Polymer Science Journal*, 2014, vol. 6, no. 10, p. 2625-2644. (2013: 2.505 - IF, Q2 - JCR, 0.910 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 2073-4360. VEGA 2/0147/12. Dostupné na: <https://doi.org/10.3390/polym6102625>

Ohlasy:

1. [1.1] WU, T. - WU, C. - XIANG, Y. - HUANG, J. - LUAN, L. - CHEN, S. - HU, Y. Kinetics and mechanism of degradation of chitosan by combining sonolysis with H₂O₂/ascorbic acid. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 80, p. 76280-76287., Registrované v: WOS
2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and*

Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA48 BARAN, Richard - KOCHI, Hayataro - SAITO, Natsumi - SUEMATSU, Makoto - SOGA, Tomoyoshi - NISHIOKA, Takaaki - ROBERT, Martin - TOMITA, Masaru. MathDAMP: a package for differential analysis of metabolite profiles. In *BMC Bioinformatic*, 2006, vol. 7, p. 1-9. ISSN 1471-2105. Dostupné na: <https://doi.org/10.1186/1471-2105-7-530>

Ohlasy:

1. [1.1] CORRIAS, Giuseppe - BALESTRIERI, Antonella - POLITI, Carola - BARBERINI, Luigi - SABA, Luca. Metabolomic and Imaging: A Literature Review. In *CURRENT MEDICAL IMAGING REVIEWS*. ISSN 1573-4056, 2018, vol. 14, no. 6, pp. 887-898., Registrované v: WOS
2. [1.1] DE SOUZA, Leonardo Perez - NAAKE, Thomas - TOHGE, Takayuki - FERNIE, Alisdair R. From chromatogram to analyte to metabolite. How to pick horses for courses from the massive web resources for mass spectral plant metabolomics. In *GIGASCIENCE*. ISSN 2047-217X, 2017, vol. 6, no. 7, pp., Registrované v: WOS
3. [1.1] GUPTA, Shubham - AHADI, Sara - ZHOU, Wenyu - ROST, Hannes. DIALignR Provides Precise Retention Time Alignment Across Distant Runs in DIA and Targeted Proteomics. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2019, vol. 18, no. 4, pp. 806-817., Registrované v: WOS
4. [1.1] HOUNOUM, Blandine Madji - BLASCO, Helene - EMOND, Patrick - MAVEL, Sylvie. Liquid chromatography-high-resolution mass spectrometry-based cell metabolomics: Experimental design, recommendations, and applications. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2016, vol. 75, no., pp. 118-128., Registrované v: WOS
5. [1.1] CHAN, Eric Chun Yong - PASIKANTI, Kishore Kumar - HONG, Yanjun - HO, Paul C. - MAHENDRAN, Ratha - MANI, Lata Raman Nee - CHIONG, Edmund - ESUVARANATHAN, Kesavan. Metabonomic Profiling of Bladder Cancer. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2015, vol. 14, no. 2, pp. 587-602., Registrované v: WOS
6. [1.1] JI, Hongchao - LU, Hongmei - ZHANG, Zhimin. Pure ion chromatogram extraction via optimal k-means clustering. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 62, pp. S6977-S6985., Registrované v: WOS
7. [1.1] MIAS, George I. - YUSUFALY, Tahir - ROUSHANGAR, Raeuf - BROOKS, Lavidia R. K. - SINGH, Vikas V. - CHRISTOU, Christina. MathIOmica: An Integrative Platform for Dynamic Omics. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
8. [1.1] MYERS, Owen D. - SUMNER, Susan J. - LI, Shuzhao - BARNES, Stephen - DU, Xiuxia. One Step Forward for Reducing False Positive and False Negative Compound Identifications from Mass Spectrometry Metabolomics Data: New Algorithms for Constructing Extracted Ion Chromatograms and Detecting Chromatographic Peaks. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 17, pp. 8696-8703., Registrované v: WOS
9. [1.1] PARMAR, Krupa M. - GAIKWAD, Saurabh L. - DHAKEPHALKAR, Prashant K. - KOTHARI, Ramesh - SINGH, Ravindra Pal. Intriguing Interaction of Bacteriophage-Host Association: An Understanding in

- the Era of Omics. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
10. [1.1] ROUSHANGAR, R. - MIAS, G. I. MathIOmica-MSViewer: a dynamic viewer for mass spectrometry files for Mathematica. In JOURNAL OF MASS SPECTROMETRY. ISSN 1076-5174, 2017, vol. 52, no. 5, pp. 315-318., Registrované v: WOS
11. [1.1] SINGH, Digar - LEE, Sunmin - LEE, Choong Hwan. Metabolomics for empirical delineation of the traditional Korean fermented foods and beverages. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2017, vol. 61, no., pp. 103-115., Registrované v: WOS
12. [1.1] VASILAKOU, Eleni - MACHADO, Daniel - THEORELL, Axel - ROCHA, Isabel - NOEH, Katharina - OLDIGES, Marco - WAHL, S. Aljoscha. Current state and challenges for dynamic metabolic modeling. In CURRENT OPINION IN MICROBIOLOGY. ISSN 1369-5274, 2016, vol. 33, no., pp. 97-104., Registrované v: WOS
13. [1.1] VINCENT, Isabel M. - BARRETT, Michael P. Metabolomic-Based Strategies for Anti-Parasite Drug Discovery. In JOURNAL OF BIOMOLECULAR SCREENING. ISSN 1087-0571, 2015, vol. 20, no. 1, pp. 44-55., Registrované v: WOS
14. [1.1] WARREN, Charles R. Changes in small organic N during early stages of soil development. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2017, vol. 110, no., pp. 44-55., Registrované v: WOS
15. [1.1] WARREN, Charles R. Variation in small organic N compounds and amino acid enantiomers along an altitudinal gradient. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2017, vol. 115, no., pp. 197-212., Registrované v: WOS
16. [1.1] YAN SHI-KAI - LIU RUN-HUI - JIN HUI-ZI - LIU XIN-RU - YE JI - SHAN LEI - ZHANG WEI-DONG. "Omics" in pharmaceutical research: overview, applications, challenges, and future perspectives. In CHINESE JOURNAL OF NATURAL MEDICINES. ISSN 2095-6975, 2015, vol. 13, no. 1, pp. 3-21., Registrované v: WOS
17. [1.1] ZHAN, Xiang - PATTERSON, Andrew D. - GHOSH, Debashis. Kernel approaches for differential expression analysis of mass spectrometry-based metabolomics data. In BMC BIOINFORMATICS. ISSN 1471-2105, 2015, vol. 16, no., pp., Registrované v: WOS
18. [1.2] DUNN, Warwick B. - WINDER, Catherine L. - CARROLL, Kathleen M. Discovery-based studies of mammalian metabolomes with the application of mass spectrometry platforms. In Issues in Toxicology. ISSN 17577179, 2015-01-01, 2015-January, 21, pp. 162-198., Registrované v: SCOPUS
19. [1.2] IUCHI, Hitoshi - YAMADA, Rikuhiko G. - UEDA, Hiroki R. Metabolites as clock hands: Estimation of internal body time using blood metabolomics. In Neuromethods. ISSN 08932336, 2016-01-01, 105, pp. 245-254., Registrované v: SCOPUS
20. [1.2] RAMAUTAR, Rawi. CHAPTER 3: Capillary Electrophoresis-Mass Spectrometry Using Non-covalently Coated Capillaries for Metabolic Profiling of Biological Samples. In New Developments in NMR. ISSN 2044253X, 2018-01-01, 2018-January, 6, pp. 53-65., Registrované v: SCOPUS
21. [1.2] WEI, Run Min - HUANG, Feng Jie - XIE, Xie - CHI, Yi - ZHENG, Xiao Jiao - ZHAO, Ai Hua - CHEN, Tian Lu. Development and

application of metabolite batch quantitative tool. In Journal of Shanghai Jiaotong University (Medical Science). ISSN 16748115, 2015-01-28, 35, 1, pp. 146-150., Registrované v: SCOPUS

22. [1.2] YAN, Shikai - NAGLE, Dale G. - ZHOU, Yu Dong - ZHANG, Weidong. Application of Systems Biology in the Research of TCM Formulae. In Systems Biology and Its Application in TCM Formulas Research, 2018-02-20, pp. 31-67., Registrované v: SCOPUS

ADCA49 BARÁTH, Marek - HANSEN, Steen U. - DALTON, Charlotte - JAYSON, Gordon C. - MILLER, Gavin J. - GARDINER, John M. Modular synthesis of heparin-related tetra-, hexa- and octasaccharides with differential O-6 protections: programming for regio-defined 6-O-modifications. In *Molecules*, 2015, vol. 20, p. 6167-6180. (2014: 2.416 - IF, Q2 - JCR, 0.738 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules20046167>

Ohlasy:

1. [1.1] FERRO, Vito. Glycosaminoglycans and Their Mimetics. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 1, pp., Registrované v: WOS
2. [1.1] HERCZEG, Mihaly - DEMETER, Fruzsina - BALOGH, Timea - KELEMEN, Viktor - BORBAS, Aniko. Rapid Synthesis of l-Idosyl Glycosyl Donors from Thioglucosides for the Preparation of Heparin Disaccharides. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 25, pp. 3312-3316., Registrované v: WOS
3. [1.1] MENDE, Marco - BEDNAREK, Christin - WAWRYSZYN, Mirella - SAUTER, Paul - BISKUP, Moritz B. - SCHEPERS, Ute - BRAESE, Stefan. Chemical Synthesis of Glycosaminoglycans. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2016, vol. 116, no. 14, pp. 8193-8255., Registrované v: WOS
4. [1.1] MONNEAU, Yoan - ARENZANA-SEISDEDOS, Fernando - LORTAT-JACOB, Hugues. The sweet spot: how GAGs help chemokines guide migrating cells. In *JOURNAL OF LEUKOCYTE BIOLOGY*. ISSN 0741-5400, 2016, vol. 99, no. 6, pp. 935-953., Registrované v: WOS
5. [1.1] TSAI, Ching-Ting - ZULUETA, Medel Manuel L. - HUNG, Shang-Cheng. Synthetic heparin and heparan sulfate: probes in defining biological functions. In *CURRENT OPINION IN CHEMICAL BIOLOGY*. ISSN 1367-5931, 2017, vol. 40, no., pp. 152-159., Registrované v: WOS
6. [1.1] VALVERDE, Pablo - ARDA, Ana - REICHARDT, Niels-Christian - JIMENEZ-BARBERO, Jesus - GIMENO, Ana. Glycans in drug discovery. In *MEDCHEMCOMM*. ISSN 2040-2503, 2019, vol. 10, no. 10, pp. 1678-1691., Registrované v: WOS

ADCA50 BARBIERIKOVÁ, Zuzana - DVORANOVÁ, Dana - BELLA, Maroš - MILATA, Viktor - CZÍMEROVÁ, Adriana - BREZOVÁ, Vlasta. Fused-ring derivatives of quinoxalines: spectroscopic characterization and photoinduced processes investigated by EPR spin trapping technique. In *Molecules*, 2014, vol. 19, no. 8, p. 12078-12098. (2013: 2.095 - IF, Q3 - JCR, 0.707 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules190812078>

Ohlasy:

1. [1.1] EL-GHAMAZ, N. A. - MOQBEL, M. S. - EL-SHABAAN, M. M. Theoretical and experimental studies on structural and optical properties of

two quinoxaline 1,4-dioxide derivatives. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, 2020, vol. 31, no. 24, pp. 22012-22027. Dostupné na:

<https://doi.org/10.1007/s10854-020-04703-x>, Registrované v: WOS

2. [1.1] KIM, Guan-Woo - KIM, Jinseck - LEE, Gang-Young - KANG, Gyeongho - LEE, Jaechul - PARK, Taiho. A Strategy to Design a Donor-pi-Acceptor Polymeric Hole Conductor for an Efficient Perovskite Solar Cell. In ADVANCED ENERGY MATERIALS. ISSN 1614-6832, 2015, vol. 5, no. 14, pp., Registrované v: WOS

3. [1.1] LONG, Fengqin - CHEN, Zheng - HAN, Keli - ZHANG, Lu - ZHUANG, Wei. Differentiation between Enamines and Tautomerizable Imines Oxidation Reaction Mechanism using Electron-Vibration-Vibration Two Dimensional Infrared Spectroscopy. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 5, pp., Registrované v: WOS

4. [1.1] ZHANG, Dejun - LIU, Huaming - WEI, Qiong - ZHOU, Qibing. Structure-activity relationship study of anticancer thymidine-quinoxaline conjugates under the low radiance of long wavelength ultraviolet light for photodynamic therapy. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2016, vol. 107, no., pp. 180-191., Registrované v: WOS

ADCA51 BARBIERIKOVÁ, Zuzana - BELLA, Maroš - SEKERÁKOVÁ, Ľudmila - LIETAVA, Jozef - BOBENIČOVÁ, Miroslava - DVORANOVÁ, Dana - MILATA, Viktor - SÁDECKÁ, Jana - TOPOĽSKÁ, Dominika - HEIZER, Tomáš - HUDEC, Roman - CZÍMEROVÁ, Adriana - JANTOVÁ, Soňa - BREZOVÁ, Vlasta. Spectroscopic characterization, photoinduced processes and cytotoxic properties of substituted N-ethyl selenadiazoloquinolones. In *Journal of Physical Organic Chemistry*, 2013, vol. 26, no. 7, p. 565-574. (2012: 1.578 - IF, Q3 - JCR, 0.708 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0894-3230. Dostupné na: <https://doi.org/10.1002/poc.3133>

Ohlasy:

1. [1.1] BATALHA, Pedro Netto - BASTOS VIEIRA DE SOUZA, Maria Cecilia - PENA-CABRERA, Eduardo - CRUZ CRUZ, David - SANTOS BOECHAT, Fernanda da Costa. Quinolones in the Search for New Anticancer Agents. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2016, vol. 22, no. 39, pp. 6009-6020., Registrované v: WOS

2. [1.1] GAO, Feng - ZHANG, Xia - WANG, Tengfei - XIAO, Jiaqi. Quinolone hybrids and their anti-cancer activities: An overview. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2019, vol. 165, no., pp. 59-79., Registrované v: WOS

3. [1.1] GONCALVES, Pablo J. - BEZZERRA, Fabio C. - TELES, Amanda - MENEZES, Lucas B. - ALVES, Kamilla M. - ALONSO, Lais - ALONSO, Antonio - ANDRADE, Maria A. - BORISSEVITCH, Iouri E. - SOUZA, Guilherme R. L. - IGLESIAS, Bernardo A. Photoinactivation of Salmonella enterica (serovar Typhimurium) by tetra-cationic porphyrins containing peripheral [Ru(bpy)(2)Cl](+) units. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2020, vol. 391, no., pp. Dostupné na:

<https://doi.org/10.1016/j.jphotochem.2020.112375>, Registrované v: WOS

4. [1.1] RAFIQUE, Jamal - CANTO, Romulo F. S. - SABA, Sumbal -

BARBOSA, Flavio A. R. - BRAGA, Antonio L. Recent Advances in the Synthesis of Biologically Relevant Selenium-containing 5-Membered Heterocycles. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2016, vol. 20, no. 2, pp. 166-188., Registrované v: WOS

- ADCA52 BARBORÍKOVÁ, Jana - ŠUTOVSKÁ, Martina - KAZIMIEROVÁ, Ivana - JOŠKOVÁ, Marta - FRAŇOVÁ, Soňa - KOPECKÝ, Ján - CAPEK, Peter**. Extracellular polysaccharide produced by *Chlorella vulgaris* – Chemical characterization and anti-asthmatic profile. In *International Journal of Biological Macromolecules*, 2019, vol. 135, p. 1-11. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.05.104>
- Ohlasy:
1. [1.1] DURMAZ, Y. - KILICLI, M. - TOKER, O.S. - KONAR, N. - PALABIYIK, I. - TAMTURK, F. Using spray -dried microalgae in ice cream formulation as a natural colorant: Effect on physicochemical and functional properties. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, MAY 2020, vol. 47., Registrované v: WOS
 2. [1.1] EL-NAGGAR, N.E.A. - HUSSEIN, M.H. - SHAABAN-DESSUUKI, S.A. - DALAL, S.R. Production, extraction and characterization of *Chlorella vulgaris* soluble polysaccharides and their applications in AgNPs biosynthesis and biostimulation of plant growth. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 20 2020, vol. 10, no. 1., Registrované v: WOS
 3. [1.1] FERREIRA, A.S. - FERREIRA, S.S. - CORREIA, A. - VILANOVA, M. - SILVA, T.H. - COIMBRA, M.A. - NUNES, C. Reserve, structural and extracellular polysaccharides of *Chlorella vulgaris*: A holistic approach. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, JAN 2020, vol. 45., Registrované v: WOS
 4. [1.1] LI, Y.Q. - WANG, C.J. - LIU, H.Z. - SU, J.B. - LAN, C.Q. - ZHONG, M. - HU, X.Q. Production, isolation and bioactive estimation of extracellular polysaccharides of green microalga *Neochloris oleoabundans*. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, JUN 2020, vol. 48., Registrované v: WOS
 5. [1.1] SHUKLA, S.P. - KVIDEROVA, J. - ADAMEC, L. - ELSTER, J. Ecophysiological Features of Polar Soil Unicellular Microalgae(1). In JOURNAL OF PHYCOLOGY. ISSN 0022-3646, APR 2020, vol. 56, no. 2, p. 481-495., Registrované v: WOS
 6. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. Isolation, structures and biological activities of polysaccharides from *Chlorella*: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>., Registrované v: WOS
 7. [1.1] ZHAO, Ting - HAN, Xiaotian - CAO, Huidi. Effect of Temperature on Biological Macromolecules of Three Microalgae and Application of FT-IR for Evaluating Microalgal Lipid Characterization. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 51, pp. 33262-33268. Dostupné na: <https://doi.org/10.1021/acsomega.0c04961>., Registrované v: WOS

ADCA53 BARTHELDYOVÁ, Eliška - TURÁNEK-KNOTIGOVÁ, Pavlína - ZACHOVÁ, Kateřina - MAŠEK, Jozef - KULICH, Pavel - EFFENBERG, Roman - ZYKA, Daniel - HUBATKA, František - KOTOUČEK, Jan - ČELECHOVSKÁ, Hana - HÉŽOVÁ, Renata - TOMEČKOVÁ, Andrea - MAŠKOVÁ, Eliška - FOJTÍKOVÁ, Martina - MACAULAY, Stuart - BYSTRICKÝ, Peter - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema** - DROŽ, Ladislav - LEDVINA, Miroslav** - RAŠKA, Milan** - TURÁNEK, Jaroslav**. N-Oxy lipid-based click chemistry for orthogonal coupling of mannan onto nanoliposomes prepared by microfluidic mixing: Synthesis of lipids, characterisation of mannan-coated nanoliposomes and in vitro stimulation of dendritic cells. In *Carbohydrate Polymers*, 2019, vol. 207, p. 521-532. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.10.121>

Ohlasy:

1. [1.1] BASHIRI, Sahra - KOIRALA, Prashamsa - TOTH, Istvan - SKWARCZYNSKI, Mariusz. Carbohydrate Immune Adjuvants in Subunit Vaccines. In *PHARMACEUTICS*, 2020, vol. 12, no. 10, pp. Dostupné na: <https://doi.org/10.3390/pharmaceutics12100965>., Registrované v: WOS

ADCA54 BARTUSIK, D. - TOMANEK, B. - LATTOVÁ, Erika - PERREAULT, H. - TUSZYNSKI, J. - FALLONE, G. The efficacy of new colchine derivatives and variability of the T-Lymphoblastoid cells in three-dimensional culture using 19F MRI and HPLC-UV ex vivo. In *Bioorganic chemistry*, 2009, vol. 37, p. 193-201. (2008: 1.958 - IF, Q2 - JCR, 1.028 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0045-2068.

Ohlasy:

1. [1.1] MOREIRA, Debora A. R. - DE OLIVEIRA, Fernando M. - PIMENTEL, Dilton M. - GUEDES, Tiago J. - LUZ, Rita C. S. - DAMOS, Flavio S. - PEREIRA, Arnaldo C. - DA SILVA, Rodrigo A. B. - DOS SANTOS, Wallans T. P. Determination of Colchicine in Pharmaceutical Formulations and Urine by Multiple-Pulse Amperometric Detection in an FIA System Using Boron-Doped Diamond Electrode. In *JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY*. ISSN 0103-5053, 2018, vol. 29, no. 9, pp. 1796-1802., Registrované v: WOS

ADCA55 BATHÓOVÁ, Monika** - BOKOR, Boris - SOUKUP, Milan - LUX, Alexander - MARTINKA, Michal. Silicon-mediated cell wall modifications of sorghum root exodermis and suppression of invasion of fungus *Alternaria alternata*. In *Plant Pathology*, 2018, vol. 67, p. 1891-1900. (2017: 2.303 - IF, Q1 - JCR, 1.063 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0032-0862. Dostupné na: <https://doi.org/10.1111/ppa.12906>

Ohlasy:

1. [1.1] KRESZIES, Tino - KRESZIES, Victoria - LY, Falko - THANGAMANI, Priya Dharshini - SHELLAKKUTTI, Nandhini - SCHREIBER, Lukas. Suberized transport barriers in plant roots: the effect of silicon. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2020, vol. 71, no. 21, pp. 6799-6806. Dostupné na: <https://doi.org/10.1093/jxb/eraa203>., Registrované v: WOS
2. [3.2] Wang Ping; Zhou Qingping; Wang Pei. Research Progress on

ADCA56 BAUEROVÁ, Katarína - PAULOVÍČOVÁ, Ema - MIHALOVÁ, Danica -
DRÁFI, František - ŠTROSOVÁ, Miriam - MASCIA, Cinzia - BIASI, Fiorella -
ROVENSKÝ, Jozef - KUCHARSKÁ, Jarmila - GVOZDJÁKOVÁ, Anna -
PONIŠT, Silvester. Combined methotrexate and coenzyme Q10 therapy in
adjuvant-induced arthritis evaluated using parameters of inflammation and oxidative
stress. In *Acta Biochimica Polonica*, 2010, vol. 57, no. 3, p. 347-354. (2009: 1.262 -
IF, Q4 - JCR, 0.521 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current
Contents). ISSN 0001-527X.

Ohlasy:

1. [1.1] ABDOLLAHZAD, H. - AGHDASHI, M.A. - JAFARABADI,
M.A. - ALIPOUR, B. Effects of coenzyme Q(10) supplementation on
inflammatory cytokines (TNF-alpha, IL-6) and oxidative stress in rheumatoid
arthritis patients: A randomized controlled trial. In *ARCHIVES OF MEDICAL
RESEARCH*. ISSN 0188-4409, 2015, vol. 46, no. 7, p. 527-533., Registrované v:
WOS
2. [1.1] JHUN, J.Y. - LEE, S.H. - BYUN, J.K. - JEONG, J.H. - KIM,
E.K. - LEE, J. - JUNG, Y.O. - SHINE, D.Y. - PARK, S.H. - CHO, M.L.
Coenzyme Q10 suppresses Th17 cells and osteoclast differentiation and
ameliorates experimental autoimmune arthritis mice. In *IMMUNOLOGY
LETTERS*. ISSN 0165-2478, 2015, vol. 166, no. 2, p. 92-102., Registrované v:
WOS
3. [1.1] KARATAS, A. - KOCA, S.S. - OZGEN, M. - DAGLI, A.F. -
ERMAN, F. - SAHIN, N. - SAHIN, K. - ISIK, A. Pemetrexed ameliorates
experimental arthritis in rats. In *INFLAMMATION*. ISSN 0360-3997, 2015, vol.
38, no. 1, p. 9-15., Registrované v: WOS
4. [1.1] LEON FERNANDEZ, O.S. - VIEBAHN-HAENSLER, R. -
CABREJA, G.L. - ESPINOSA, I.S. - MATOS, Y.H. - ROCHE, L.D. - SANTOS,
B.T. - ORU, G.T. - POLO VEGA, J.C. Medical ozone increases methotrexate
clinical response and improves cellular redox balance in patients with rheumatoid
arthritis. In *EUROPEAN JOURNAL OF PHARMACOLOGY*. ISSN 0014-2999,
2016, vol. 789, p. 313-318., Registrované v: WOS
5. [1.1] NACHVAK, S.M. - ALIPOUR, B. - MAHDAVI, A.M. -
AGHDASHI, M.A. - ABDOLLAHZAD, H. - PASDAR, Y. - SAMADI, M. -
MOSTAFAI, R. Effects of coenzyme Q10 supplementation on matrix
metalloproteinases and DAS-28 in patients with rheumatoid arthritis: a
randomized, double-blind, placebo-controlled clinical trial. In *CLINICAL
RHEUMATOLOGY*. ISSN 0770-3198, 2019, vol. 38, no. 12, p. 3367-3374.,
Registrované v: WOS
6. [1.1] PAOLIELLO-PASCHOALATO, A.B. - MARCHI, L.F. - DE
ANDRADE, M.F. - KABEYA, L.M. - DONADI, E.A. - LUCISANO-VALIM,
Y.M. Fc gamma and complement receptors and complement proteins in
neutrophil activation in rheumatoid arthritis: contribution to pathogenesis and
progression and modulation by natural products. In *EVIDENCE-BASED
COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X,
2015, article number 429878., Registrované v: WOS
7. [1.1] QUAN, Y. - LUO, K. - CUI, S. - LIM, S.W. - SHIN, Y.J. - KO,

E.J. - KIM, J.H. - CHUNG, S.J. - KYUNG, S. - CHUNG, B.H. - YANG, C.W. The therapeutic efficacy of water-soluble coenzyme Q(10) in an experimental model of tacrolimus-induced diabetes mellitus. In KOREAN JOURNAL OF INTERNAL MEDICINE. ISSN 1226-3303, 2020, vol. 35, no. 6, p. 1443-1456., Registrované v: WOS

8. [1.1] SUN, I. O. - JIN, Long - JIN, Jian - LIM, Sun Woo - CHUNG, Byung Ha - YANG, Chul Woo. The effects of addition of coenzyme Q10 to metformin on sirolimus-induced diabetes mellitus. In KOREAN JOURNAL OF INTERNAL MEDICINE. ISSN 1226-3303, 2019, vol. 34, no. 2, pp. 365-374., Registrované v: WOS

9. [1.1] TAWFIK, M.K. Combination of coenzyme Q10 with methotrexate suppresses Freund's complete adjuvant-induced synovial inflammation with reduced hepatotoxicity in rats: Effect on oxidative stress and inflammation. In INTERNATIONAL IMMUNOPHARMACOLOGY. ISSN 1567-5769, 2015, vol. 24, no. 1, p. 80-87., Registrované v: WOS

10. [1.1] VETVICKA, V. - VETVICKOVA, J. Combination Therapy with Glucan and Coenzyme Q(10) in Murine Experimental Autoimmune Disease and Cancer. In ANTICANCER RESEARCH. ISSN 0250-7005, 2018, vol. 38, no. 6, pp. 3291-3297., Registrované v: WOS

11. [1.2] RAAFAT, M.H. - HAMAM, G.G. - FARHAN, M.S. - SABBAGH, L.M. - ABEDULDAEM, N.M. - SHARAF, A.M. Evaluation of the possible therapeutic role of omega-3 on ankle joint and lung in a model of rheumatoid arthritis in rats: A histological and immunohistochemical study. In EGYPTIAN JOURNAL OF HISTOLOGY. ISSN 1110-0559, 2018, vol. 41, no. 3, p. 250-263., Registrované v: SCOPUS

ADCA57 BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - DRÁFI, František - MIHALOVÁ, Danica - PAULOVÍČOVÁ, Ema - VOLPI, Nikola. Effect of nonanimal high- and low-molecular-mass chondroitin sulfates produced by a biotechnological process in an animal model of polyarthritis. In *Pharmacology : international journal of experimental and clinical pharmacology*, 2014, vol. 94, no. 3-4, p. 109-114. (2013: 1.581 - IF, Q3 - JCR, 0.618 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0031-7012. Dostupné na: <https://doi.org/10.1159/000366285>

Ohlasy:

1. [1.1] RONDANELLI, M. - BRASCHI, V. - GASPARRI, C. - NICHETTI, M. - FALIVA, M. A. - PERONI, G. - NASO, M. - IANNELLO, G. - SPADACCINI, D. - MIRAGLIA, N. - PUTIGNANO, P. - ALALWAN, T.A. - PERNA, S. Effectiveness of Non-Animal Chondroitin Sulfate Supplementation in the Treatment of Moderate Knee Osteoarthritis in a Group of Overweight Subjects: A Randomized, Double-Blind, Placebo-Controlled Pilot Study. In NUTRIENTS, 2019, vol. 11, no. 9, art. no. 2027., Registrované v: WOS

ADCA58 BAUEROVÁ, Katarína - MIHALOVÁ, Danica - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - KUCHARSKÁ, Jarmila - PAULOVÍČOVÁ, Ema - NOSÁL, Radomír - PONIŠT, Silvester. Effects of glucomannan isolated from *Candida utilis* on adjuvant arthritis in Lewis rats. In *Current Topics in Nutraceutical Research : an international scientific journal of decision makers in nutraceutical industry*, 2012, vol. 10, no. 1, p. 13-30. (2011: 0.286 - IF, Q4 - JCR, 0.126 - SJR, Q4 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1540-7535. APVV-21-055205

Ohlasy:

1. [1.1] BEHERA, S.S. - RAY, R.C. Konjac glucomannan, a promising polysaccharide of *Amorphophallus konjac* K. Koch in health care. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 01418130, 2016, vol. 92, p. 942-956., Registrované v: WOS
2. [1.1] FREITAS, F. - ROCA, C. - REIS, M.A.M. Fungi as sources of polysaccharides for pharmaceutical and biomedical applications. In Thakur V.K, Thakur M.K. edit. HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL. 3, BIODEGRADABLE POLYMERS. Scrivener publishing Beverly, MA-USA, 2015, p. 61-103. ISBN 978-1-119-04144-3; 978-1-119-04142-9., Registrované v: WOS
3. [1.1] KOROLENKO, T.A. - BGATOVA, N.P. - VETVICKA, V. Glucan and Mannan-Two Peas in a Pod. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 13 art. no. 3189., Registrované v: WOS
4. [1.1] MADRIGAL-SANTILLAN, E. - MADRIGAL-BUJAIDAR, E. - REYES-ARELLANO, A. - MORALES-GONZALEZ, J.A. - ALVAREZ-GONZALEZ, I. - SANCHEZ-GUTIERREZ, M. - IZQUIERDO-VEGA, J.A. - CALZADA-MENDOZA, C.C. - ANGUIANO-ROBLEDO, L. - MORALES-GONZALEZ, A. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, p. 369-388., Registrované v: WOS

ADCA59 BAUEROVÁ, Katarína - PONIŠT, Silvester - NAVAROVÁ, Jana - DUBNÍČKOVÁ, Martina - PAULOVÍČOVÁ, Ema - PAJTINKA, Martin - KOGAN, Grigorij - MIHALOVÁ, Danica. Glucomannan in prevention of oxidative stress and inflammation occurring in adjuvant arthritis. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p.691-696. (2007: 1.443 - IF, Q3 - JCR, 0.442 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] DEY, Y.N. - WANJARI, M.M. - KUMAR, D. - LOMASH, V. - JADHAV, A.D. Curative effect of *Amorphophallus paeoniifolius* tuber on experimental hemorrhoids in rats. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 03788741, 2016, vol. 192, p. 183-191., Registrované v: WOS
2. [1.1] FDHILA, K. - HADDAJI, N. - CHAKROUN, I. - MACHERKI, M.E.E. - NEFZI, F. - BAKHROUF, A. Glucomannan's protective effect on the virulence of *Vibrio splendidus* in pacific oyster. In FISH AND SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2016, vol. 56, p. 410-416., Registrované v: WOS
3. [1.1] PELUSO, I. - MANAFIKHI, H. - REGGI, R. - LONGHITANO, Y. - ZANZA, Ch. - PALMERY, M. Relationship between the peroxidation of leukocytes index ratio and the improvement of postprandial metabolic stress by a functional food. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2016, vol. 2016, art. no. 5630985., Registrované v: WOS

ADCA60 BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVÍČOVÁ, Ema - VOLPI, Nikola. Chondroitin sulfate effect on induced arthritis in rats. In *Osteoarthritis and Cartilage*, 2011, vol.

19, no. 11, p. 1373-1379. (2010: 3.953 - IF, Q1 - JCR, 1.852 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1063-4584. Dostupné na: <https://doi.org/10.1016/j.joca.2011.08.006>

Ohlasy:

1. [1.1] BISHNOI, M. - JAIN, A. - HURKAT, P. - JAIN, S.K.
Chondroitin sulphate: a focus on osteoarthritis. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2016, vol. 33, no. 5, p. 693-705., Registrované v: WOS
2. [1.1] DUAN, J. - AMSTER, I. J. Application of FTMS to the analysis of glycosaminoglycans. (Book Chapter). In FUNDAMENTALS AND APPLICATIONS OF FOURIER TRANSFORM MASS SPECTROMETRY. ISBN: 978-012814014-7;978-012814013-0, 2019, p. 623-649., Registrované v: WOS
3. [1.1] HASAN, H. - ISMAIL, H. - EL-ORFALI, Y. - KHAWAJA, G. Therapeutic benefits of Indole-3-Carbinol in adjuvant-induced arthritis and its protective effect against methotrexate induced-hepatic toxicity. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2018, vol. 18, art. no. 337., Registrované v: WOS
4. [1.1] JOO, I.-H. - MIN, G.-Y. - CHOI, H.-J. - SIM, B.-Y. - KIM, H.-Y. - KIM, J. - JI, J.-G. - KIM, J.-H. - KIM, D.-H. Effects of chondroitin sulfate on modulation of MMPs and TIMP-1 in a monosodium iodoacetate-induced osteoarthritis model. In INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. ISSN 1940-5901, 2018, vol. 11, no. 10, pp. 10749-10757., Registrované v: WOS
5. [1.1] MAHTAB, A. - RABBANI, S.A. - NEUPANE, Y.R. - PANDEY, S. - AHMAD, A. - KHAN, M.A. - GUPTA, N. - MADAAN, A. - JAGGI, M. - SANDAL, N. - RAWAT, H. - AQIL, M. - TALEGAONKAR, S. Facile functionalization of Teriflunomide-loaded nanoliposomes with Chondroitin sulphate for the treatment of Rheumatoid arthritis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, art. no. 116926., Registrované v: WOS
6. [1.1] OZALTIN, K. - LEHOCKY, M. - KUCEKOVA, Z. - HUMPOLICEK, P. - SAHA, P. A novel multistep method for chondroitin sulphate immobilization and its interaction with fibroblast cells. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 70, part 1, p. 94-100., Registrované v: WOS
7. [1.1] PERMUY, M. - GUEDE, D. - LOPEZ-PENA, M. - MUNOZ, F. - CAEIRO, J.R. - GONZALEZ-CANTALAPIEDRA, A. Comparison of various SYSADOA for the osteoarthritis treatment: an experimental study in rabbits. In BMC MUSCULOSKELETAL DISORDERS. ISSN 1471-2474, 2015, vol. 16, art. no. 120., Registrované v: WOS
8. [1.1] SEOL, B.G. - KIM, J.H. - WOO, M. - SONG, Y.O. - CHOI, Y.H. - NOH, J.S. - CHO, E.J. Skate cartilage extracts containing chondroitin sulfate ameliorates hyperlipidemia-induced inflammation and oxidative stress in high cholesterol diet-fed LDL receptor knockout mice in comparison with shark chondroitin sulfate. In NUTRITION RESEARCH AND PRACTICE. ISSN 1976-1457, 2020, vol. 14, no. 3, p. 175-187., Registrované v: WOS
9. [1.1] SONG, W. - LIU, Y.G. - DONG, X.H. - SONG, C. - BAI, Y.Y. - HU, P.P. - LI, L. - WANG, T.Y. Lactobacillus M5 prevents osteoarthritis

- induced by a high-fat diet in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2020, vol. 72, art. no. 104039., Registrované v: WOS
10. [1.1] WANG, Q.H. - YANG, C.Y. - HAO, R.J. - ZHENG, Z. - JIAO, Y. - DU, X.D. - DENG, Y.W. - HUANG, R.L. Molecular characterization of CHST11 and its potential role in nacre formation in pearl oyster *Pinctada fucata martensii*. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2017, vol. 28, p. 113-119., Registrované v: WOS
11. [1.1] WOO, M. - KWON, D.H. - CHOI, Y.H. - NOH, J.S. Inhibitory effects of skate cartilage chondroitin sulfate-rich extract on the production of inflammatory mediators and ROS in lipopolysaccharide-treated murine macrophages: a comparison with shark cartilage chondroitin sulfate. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL. ISSN 1071-2690, 2020, vol. 56, no. 4, p. 271-276., Registrované v: WOS
12. [1.1] ZHANG, N. - LIU, Z. - LUO, H. - WU, W. - NIE, K. - CAI, L. - TAN, S. - CHEN, X. - HUANG, Y. - LIU, J. - LV, M. - ZHANG, X. - FAN, Y. - LIN, Y. - YE, S. - LIU, Y. - WU, L. - XU, J. FM0807 decelerates experimental arthritis progression by inhibiting inflammatory responses and joint destruction via modulating NF-kappa B and MAPK pathways. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2019, vol. 39, part 9, art. no. BSR20182263., Registrované v: WOS
13. [1.2] MIN, G. Y. - PARK, J. M. - JOO, I. H. - SIM, B. Y. - CHOI, H. J. - KIM, H. Y. - KIM, J. - LEE, M. S. - KIM, D. H. Effects of chondroitin on blood related pathologic factor and weight bearing in MIA osteoarthritis model. In JOURNAL OF THE KOREAN SOCIETY OF FOOD SCIENCE AND NUTRITION. ISSN 1226-3311, 2019, vol. 48, no. 3, pp. 306-312., Registrované v: SCOPUS
14. [1.2] WANG, H.Y. - WANG, T. Effects of total knee arthroplasty on proximal tibial reconstruction using finite element analysis. In CHINESE JOURNAL OF TISSUE ENGINEERING RESEARCH. ISSN 1673-8225, 2016, vol. 20, no. 35, p. 5180-5186., Registrované v: SCOPUS

ADCA61 BAUEROVÁ, Katarína - PAULOVÍČOVÁ, Ema - MIHALOVÁ, Danica - ŠVÍK, Karol - PONIŠT, Silvester. Study of new ways of supplementary and combinatory therapy of rheumatoid arthritis with immunomodulators. Glucomannan and Imunoglukán® in adjuvant arthritis. In *Toxicology and industrial health : an international journal*, 2009, vol. 25, no. 4-5, p. 329-335. (2008: 0.700 - IF, Q4 - JCR, 0.261 - SJR, Q3 - SJR). ISSN 0748-2337. Dostupné na: <https://doi.org/10.1177/0748233709102945>

Ohlasy:

1. [1.1] ABD ELHALEM, Sahar Sobhy - HAGGAG, Nawal Zakaria - EL-SHINNAWY, Nashwa Ahmed. Bone marrow mesenchymal stem cells suppress IL-9 in adjuvant-induced arthritis. In AUTOIMMUNITY. ISSN 0891-6934, 2018, vol. 51, no. 1, pp. 25-34., Registrované v: WOS
2. [1.1] CASTILLO, Teresa A. - LEMOS, Renata A. - PEREIRA, Jose Raimundo G. - ALVES, Jose Maria A. - TEIXEIRA, Maria Francisca S. Mycelial Growth and Antimicrobial Activity of *Pleurotus* Species (Agaricomycetes). In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 2, pp. 191-200., Registrované v: WOS
3. [1.1] HAMAMURA, K. - NISHIMURA, A. - CHEN, A. - TAKIGAWA, S. - SUDO, A. - YOKOTA, H. Salubrinal acts as a Dusp2

inhibitor and suppresses inflammation in anti-collagen antibody-induced arthritis. In CELLULAR SIGNALLING. ISSN 0898-6568, 2015, vol. 27, no. 4, p. 828-835., Registrované v: WOS

4. [1.1] CHATURVEDI, Vivek Kumar - AGARWAL, Sonam - GUPTA, Krishna Kumar - RAMTEKE, Pramod W. - SINGH, M. P. Medicinal mushroom: boon for therapeutic applications. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 8, art. no. 334., Registrované v: WOS

5. [1.1] KAWASE, A. - NAKASAKA, M. - BANDO, H. - YASUDA, S. - SHIMADA, H. - IWAKI, M. Changes in Radixin Expression and Interaction with Efflux Transporters in the Liver of Adjuvant-Induced Arthritic Rats. In INFLAMMATION. ISSN 0360-3997, 2020, vol. 43, no. 1, p. 85-94., Registrované v: WOS

6. [1.1] KUMAR, K. Nutraceutical Potential and Processing Aspects of Oyster Mushrooms (Pleurotus Species). In CURRENT NUTRITION & FOOD SCIENCE. ISSN 1573-4013, 2020, vol. 16, no. 1, p. 3-14., Registrované v: WOS

7. [1.1] RAY, P. - CHATTERJEE, S. - SAHA, P. Immunomodulatory Activity of Natural Polysaccharides in Combating Covid -19, Cancer, Inflammatory Disorders: A Review. In INTERNATIONAL JOURNAL OF LIFE SCIENCE AND PHARMA RESEARCH. ISSN 2250-0480, 2020, vol. 10, no. 5, p. P191-P206., Registrované v: WOS

8. [1.1] THONGKLANG, N. - LUANGHARN, T. Testing agricultural wastes for the production of Pleurotus ostreatus. In MYCOSPHERE. ISSN 2077-7000, 2016, vol. 7, no. 6, pp. 766-772., Registrované v: WOS

9. [1.2] KHAN, A.A. - GANI, A. - KHANDAY, F.A. - MASOODI, F.A. Biological and pharmaceutical activities of mushroom β -glucan discussed as a potential functional food ingredient. In BIOACTIVE CARBOHYDRATES AND DIETARY FIBRE. ISSN 2212-6198, 2018, vol. 16, p. 1-13., Registrované v: SCOPUS

10. [1.2] PURWANINGSARI, D. - NUGRAHA, J. - WAHYUNINGSIH, S. P. A. - HAYAZA, S. - SUSILO, R. J. K. - DARMANTO, W. Effect of polysaccharide krestin on MMP3 expression and foot diameter in rheumatoid arthritis in rat. In INDIAN VETERINARY JOURNAL. ISSN 00196479, 2020, vol. 97, no. 1, p. 24-26., Registrované v: SCOPUS

11. [1.2] SANTA, H.S.D. - ROMAO, P.R.T. - PERES, A. - SOVRANI, V. - OLIVEIRA, F.R. - MONTEIRO, M.C. Dietary polysaccharides and immune modulation.(Book Chapter). In Ramawat K.G., Merillon J.-M. edit. POLYSACCHARIDES: BIOACTIVITY AND BIOTECHNOLOGY. Springer 2015, p. 1991-2016, ISBN 978-3-319-16298-0; 978-3-319-16297-3., Registrované v: SCOPUS

12. [3.2] WAKTOLA, Girma - TEMESGEN, Tasisa. Pharmacological activities of Oyster mushroom (Pleurotus ostreatus). In Novel Research in Microbiology Journal. ISSN 2537-0286, APR 2020, vol. 4, no. 2, p. 688-695., Registrované v: BIOSIS Citation Index

ADCA62 BELICKÁ, Ľudmila, Kľuková - BERTÓK, Tomáš - PETRÍKOVÁ, Miroslava - ŠEDIVÁ, Alena - MISLOVIČOVÁ, Danica - KATRLÍK, Jaroslav - VIKARTOVSKÁ, Alica - FILIP, Jaroslav - KASÁK, Peter - ANDICSOVÁ-ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - LUKÁČ, Jozef - ROVENSKÝ, Jozef - IMRICH, Richard - TKÁČ, Ján. Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three

bioanalytical methods. In *Analytica Chimica Acta*, 2015, vol. 853, p. 555-562. (2014: 4.513 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2014.10.029>

Ohlasy:

1. [1.1] DUARTE, C.E.M. - ABRANCHES, M.V. - SILVA, P.F. - DE PAULA, S.O. - CARDOSO, S.A. - OLIVEIRA, L.L. A new TRAF-like protein from *B. oleracea* ssp *botrytis* with lectin activity and its effect on macrophages. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, JAN 2017, vol. 94, A, p. 508-514., Registrované v: WOS
2. [1.1] GORI, A. - CRETICH, M. - VANNA, R. - SOLA, L. - GAGNI, P. - BRUNI, G. - LIPRINO, M. - GRAMATICA, F. - BURASTERO, S. - CHIARI, M. Multiple epitope presentation and surface density control enabled by chemoselective immobilization lead to enhanced performance in IgE-binding fingerprinting on peptide microarrays. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, AUG 29 2017, vol. 983, p. 189-197., Registrované v: WOS
3. [1.1] YAGHOUBI, M. - RAHIMI, F. - NEGAHDARI, B. - REZAYAN, A.H. - SHAFIEKHANI, A. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, SEP 29 2020, vol. 10, no. 1., Registrované v: WOS

ADCA63 KLUKOVÁ, Ľudmila, Kluková - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In *Analyst*. - Cambridge : Royal Society of Chemistry, 2016, vol. 141, p. 4278-4282. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c6an00793g>

Ohlasy:

1. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
2. [1.1] KASAK, Peter. Self-Assembled Monolayers for Surface Modification. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 217-255., Registrované v: WOS
3. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS
4. [1.1] LIANG JUN-YU - TONG PEI-HONG - LI JIAN-PING. Research and Application of Glycoprotein Sensors Based on Glycosyl Recognition. In *CHINESE JOURNAL OF ANALYTICAL CHEMISTRY*. ISSN 0253-3820, 2019, vol. 47, no. 9, pp. 1283-1292., Registrované v: WOS
5. [1.1] LI, Qian - TOFARIS, George K. - DAVIS, Jason J. Concentration-Normalized Electroanalytical Assaying of Exosomal Markers. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 5, pp.

3184-3190., Registrované v: WOS

6. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In ADVANCES IN CLINICAL CHEMISTRY, VOL 93. ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS

7. [1.1] SINGH, Manjot - ZANNELLA, Carla - FOLLIERO, Veronica - DI GIROLAMO, Rocco - BAJARDI, Francesco - CHIANESE, Annalisa - ALTUCCI, Lucia - DAMASCO, Achille - DEL SORBO, Maria Rosaria - IMPERATORE, Concetta - ROSSI, Manuela - VALADAN, Mohammadhassan - VARRA, Michela - VERGARA, Alessandro - FRANCI, Guanluigi - GALDIERO, Massimiliano - ALTUCCI, Carlo. Combating Actions of Green 2D-Materials on Gram Positive and Negative Bacteria and Enveloped Viruses. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na:

<https://doi.org/10.3389/fbioe.2020.569967>., Registrované v: WOS

8. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrode. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS

9. [1.1] XU, Li - WEN, Yanli - PANDIT, Santosh - MOKKAPATI, Venkata R. S. S. - MIJAKOVIC, Ivan - LI, Yan - DING, Min - REN, Shuzhen - LI, Wen - LIU, Gang. Graphene-based biosensors for the detection of prostate cancer protein biomarkers: a review. In BMC CHEMISTRY, 2019, vol. 13, no. 1, pp., Registrované v: WOS

10. [1.1] YANG, Haiying - QIN, Jianfang - ZHANG, Meng - SHEN, Huiyan - FENG, Jia - HAO, Haoyong. Label-free Lectin Impedimetric Biosensor Based on a Polyaniline/Graphene Nanocomposite for the Detection of Escherichia coli. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 9, pp. 8913-8927. Dostupné na: <https://doi.org/10.20964/2020.09.34>., Registrované v: WOS

11. [1.1] YAZDI, Mohammad Kaji - GHAZIZADEH, E. - NESHASTEHRIZ, Ali. Different liposome patterns to detection of acute leukemia based on electrochemical cell sensor. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1109, no., pp. 122-129. Dostupné na: <https://doi.org/10.1016/j.aca.2020.02.060>., Registrované v: WOS

12. [1.2] CHAKRABORTY, Avishek - TIBAREWALA, Dewaki Nandan - BARUI, Ananya. Impedance-based biosensors. In Bioelectronics and Medical Devices: From Materials to Devices Fabrication, Applications and Reliability, 2019-01-01, pp. 97-122., Registrované v: SCOPUS

13. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md - AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

14. [1.2] LIN, Hsing Ying - CHEN, Wen Hao - HUANG, Chen Han. Graphene in electrochemical biosensors. In Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp. 321-336., Registrované v: SCOPUS

ADCA64 BELICKÁ, Ľudmila, Kľuková - BERTÓK, Tomáš - TKÁČ, Ján. Properties and electrochemical utilization of graphene. Vlastnosti a elektrochemické využitie grafénu = Vlastnosti a elektrochemické využitie grafénu. In *Chemické listy*, 2014, vol. 108, p. 653-659. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] HAJKOVA, Zdenka - BAUEROVA, Pavla - FEJFAR, Antonin - SLOUF, Miroslav. Electron Microscope The Key to the Secrets of the Micro- and Nanoworld. In *CHEMICKE LISTY*. ISSN 0009-2770, 2018, vol. 112, no. 2, pp. 128-134., Registrované v: WOS

ADCA65 BELICKÝ, Štefan - DAMBORSKÝ, Pavel - ZAPATERO-RODRÍGUEZ, Julia - O'KENNEDY, Richard - TKÁČ, Ján. Full-length antibodies versus single chain antibody fragments for a selective impedimetric lectin-based glycoprofiling of prostate specific antigen. In *Electrochimica Acta*, 2017, vol. 246, p. 399-405. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2017.06.065>

Ohlasy:

1. [1.1] DINIZ, Flamarion Borges - RAPOSO DA SILVA, Diego Jose - UETA, Roseli Rudnick - RIBEIRO, Rogerio Tavares. Insights on the kinetics of concanavalin A adsorption on platinum and glassy carbon electrodes from electrochemical impedance spectroscopy data. In *COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS*. ISSN 0927-7757, 2019, vol. 577, no., pp. 40-47., Registrované v: WOS
2. [1.1] DUAN, Fenghe - ZHANG, Shuai - YANG, Longyu - ZHANG, Zhihong - HE, Linghao - WANG, Minghua. Bifunctional aptasensor based on novel two-dimensional nanocomposite of MoS₂ quantum dots and g-C₃N₄ nanosheets decorated with chitosan-stabilized Au nanoparticles for selectively detecting prostate specific antigen. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2018, vol. 1036, no., pp. 121-132., Registrované v: WOS
3. [1.1] MA, Shuo - LI, Xinchun - WANG, Xinyue - CHENG, Liang - LI, Zhong - ZHANG, Changzheng - YE, Zhenlong - QIAN, Qijun. Current Progress in CAR-T Cell Therapy for Solid Tumors. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2019, vol. 15, no. 12, pp. 2548-2560., Registrované v: WOS
4. [1.1] SANLI, Serdar - MOULAHOU, Hichem - UGURLU, Ozge - GHORBANIZAMANI, Faezeh - GUMUS, Zinar Pinar - EVRAN, Serap - COSKUNOL, Hakan - TIMUR, Suna. Screen printed electrode-based biosensor functionalized with magnetic cobalt/single-chain antibody fragments for cocaine biosensing in different matrices. In *TALANTA*. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121111>., Registrované v: WOS
5. [1.1] SUGAWARA, Kazuharu - ISHIZAKI, Sora - KURAMITZ, Hideki - KADOYA, Toshihiko. Electrochemical Sensing of Ovalbumin Based on the Interaction between Lysozyme Origin/Tyrosine-Rich Peptides Modified on Magnetic Beads and Oligothreonine/Ovalbumin-Origin Peptide. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 2, pp. 207-216. Dostupné na: <https://doi.org/10.1002/elan.201900336>., Registrované v: WOS

ADCA66 BELICKÝ, Štefan - ČERNOCKÁ, Hana - BERTÓK, Tomáš - HOLAZOVÁ, Alena - RÉBLOVÁ, Kamila - PALEČEK, Emil - TKÁČ, Ján - OSTATNÁ, Veronika. Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. In *Bioelectrochemistry*, 2017, vol. 117, p. 89-94. (2016: 3.346 - IF, Q1 - JCR, 0.750 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2017.06.005>

Ohlasy:

1. [1.1] CUI, Feiyun - ZHOU, Zhiru - ZHOU, H. Susan. Review-Measurement and Analysis of Cancer Biomarkers Based on Electrochemical Biosensors. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS
2. [1.1] LIANG JUN-YU - TONG PEI-HONG - LI JIAN-PING. Research and Application of Glycoprotein Sensors Based on Glycosyl Recognition. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2019, vol. 47, no. 9, pp. 1283-1292., Registrované v: WOS
3. [1.1] MIAO, Peng - JIANG, Yiting - WANG, Yuanhong - YIN, Jian - TANG, Yuguo. An electrochemical approach capable of prostate specific antigen assay in human serum based on exonuclease-aided target recycling amplification. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 257, no., pp. 1021-1026., Registrované v: WOS
4. [1.1] SALMINEN, Liina - NADEEM, Nimrah - ROLFSEN, Anne Lone - DORUM, Anne - LAAJALA, Teemu D. - GRENMAN, Seija - HIETANEN, Sakari - HEINOSALO, Taija - PERHEENTUPA, Antti - POUTANEN, Matti - BOLSTAD, Nils - CARPEN, Olli - LAMMINMAKI, Urpo - PETTERSSON, Kim - GIDWANI, Kamlesh - HYNINEN, Johanna - HUHTINEN, Kaisa. Exploratory Analysis of CA125-MGL andSTn Glycoforms in the Differential Diagnostics of Pelvic Masses. In JOURNAL OF APPLIED LABORATORY MEDICINE, 2020, vol. 5, no. 2, pp. 263-272. Dostupné na: <https://doi.org/10.1093/jalm/jfz012>., Registrované v: WOS

ADCA67 BELICOVÁ, Anna - EBRINGER, Libor - KRAJČOVIČ, Juraj - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Antimutagenic effect of heteroxylans, arabinogalactans, pectins and mannans in Euglena assay. In *World journal of microbiology and biotechnology*, 2001, vol. 17, p. 293-299. (2000: 0.530 - IF, Q3 - JCR, 0.345 - SJR, Q2 - SJR, Current Contents - CCC). (2001 - Current Contents). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1023/A:1016676401954>

Ohlasy:

1. [1.1] TAPDIQOV, Shamo Zokhrab - ZEYNALOV, Nizami Allahverdi - TAGHIYEV, Dilgam Babir - HUMBATOVA, Saadat Faik - MAMMEDOVA, Samira Mirali - NASIYYATI, Elnara Fakhraddin - BABAYEVA, Dilshad Talib. Hydrogels for Immobilization of Trypsine Based on Poly-N-vinylpyrrolidone and Arabinogalactan Graft Copolymers. In JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. ISSN 0253-5106, 2015, vol. 37, no. 6, pp. 1112-1118., Registrované v: WOS
2. [1.2] KRAJČOVIČ, Juraj - MATEJ VESTEG - SCHWARTZBACH, Steven D. Euglenoid flagellates: A multifaceted biotechnology platform. In Journal of Biotechnology. ISSN 01681656, 2015-05-01, 202, pp. 135-145., Registrované v: SCOPUS

3. [1.2] Krajčovič, J., Matej Vesteg, & Schwartzbach, S. D. (2015). Euglenoid flagellates: A multifaceted biotechnology platform. *Journal of Biotechnology*, 202, 135-145, Registrované v: SCOPUS
4. [1.2] TAPDIGOV, Shamo Z. - ZEYNALOV, Nizami A. - HUMBATOVA, Saadat F. - NAGIEV, Jalal A. - ISAZADEH, Aygun F. - HASANOVA, Mirvari Kh - SAFARALIYEVA, Samira F. Content of arabinogalactan from cherry gum (*Prunus avium*) and as polymer carrier for immobilization of trypsin. In *Asian Journal of Chemistry*. ISSN 09707077, 2016-01-01, 28, 1, pp. 489-493., Registrované v: SCOPUS

ADCA68 BELLA, Maroš - MILATA, Viktor. Application of 9-ethyl(1,2,5)selenadiazolo(3,4-h)quinolones in the synthesis of tricyclic azoloquinolones. In *Tetrahedron*, 2014, vol. 70, p. 4814-4819. (2013: 2.817 - IF, Q2 - JCR, 1.101 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2014.04.097>

Ohlasy:

1. [1.1] LUSPAI, Karol - RAPTA, Peter - BARBIERIKOVA, Zuzana - BREZOVA, Vlasta. Electrochemical Reduction of Quinoxaline Derivatives in situ EPR/UV-VIS-NIR Spectroelectrochemical Study. In XXXV MODERNI ELEKTROCHEMICKÉ METODY, 2015, vol., no., pp. 138-142., Registrované v: WOS

ADCA69 BELLA, Maroš - MILATA, Viktor. New approach to synthesis of 5,6- and 7,8-diaminoquinolines. In *Beilstein Journal of Organic Chemistry*, 2013, vol. 9, p. 2669-2674. (2012: 2.801 - IF, Q2 - JCR, 1.110 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1860-5397.

Ohlasy:

1. [1.1] ELSHERBINI, Mohamed - HAMAMA, Wafaa S. - ZOOROB, Hanafi H. Recent advances in the chemistry of selenium-containing heterocycles: Five-membered ring systems. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2016, vol. 312, no., pp. 149-177., Registrované v: WOS

ADCA70 BELLA, Maroš - STEINER, Bohumil - LANGER, Vratislav - KOŮŠ, Miroslav. Reaction of selected carbohydrate aldehydes with benzyl-magnesium halides: benzyl versus o-tolyl rearrangement. In *Beilstein Journal of Organic Chemistry*, 2014, vol. 10, p. 1942-1950. (2013: 2.820 - IF, Q2 - JCR, 1.097 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.10.202>

Ohlasy:

1. [1.1] MIRABELLA, S. - FIBBI, G. - MATASSINI, C. - FAGGI, C. - GOTI, A. - CARDONA, F. Accessing 2-substituted piperidine iminosugars by organometallic addition/intramolecular reductive amination: aldehyde vs. nitron route. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9121-9126., Registrované v: WOS
2. [1.2] Coxon, J. M. (2017). Molecular rearrangements. In Knipe, A. C. (ed.). *Organic Reaction Mechanisms 2014: An Annual Survey Covering the Literature Dated January to December 2017* (Wiley, chapter 12, pp. 621-711), Registrované v: SCOPUS
3. [1.2] MURRAY, B. A. Reactions of Aldehydes and Ketones and their Derivatives. In *Organic Reaction Mechanisms 2014: An Annual Survey Covering*

ADCA71 BELLA, Maroš - MILATA, Viktor. Synthesis of 9-ethyl(1,2,5)selenadiazol(3,4-h)quinolones by the application of modified Gold-Jacobs reaction to N-ethyl-2,1,3-benzoselenadiazol-4amine. In *Arkivoc*, v, 14, vol. 2014, p. 181-198. ISSN 1551-7004. Dostupné na: <https://doi.org/10.3998/ark.5550190.p008.451>

Ohlasy:

1. [1.1] MALCEK, Michal - KOZISKOVA, Julia - HERICH, Peter - RAPTA, Peter - STEPANENKO, Iryna - ARION, Vladimir B. Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2020, vol. 44, no. 30, pp. 13195-13206. Dostupné na: <https://doi.org/10.1039/d0nj02447c>., Registrované v: WOS
2. [1.1] MALVACIO, Ivana - MOYANO, E. Laura - VERA, D. Mariano A. Gas-phase synthesis of 3-carboethoxy-quinolin-4-ones. A comprehensive computational mechanistic study to uncover the dark side of the Gould-Jacobs reaction. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 87, pp. 83973-83981., Registrované v: WOS

ADCA72 BELLA, Maroš - ŠESTÁK, Sergej - MONCOL, Ján - KOÓŠ, Miroslav - POLÁKOVÁ, Monika**. Synthesis of 1,4-imino-L-lyxitols modified at C-5 and their biochemical evaluation as selective inhibitors of GH38 α -mannosidases. In *Beilstein Journal of Organic Chemistry*, 2018, vol. 14, p. 2156-2162. (2017: 2.330 - IF, Q2 - JCR, 0.929 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.14.189>

Ohlasy:

1. [1.1] RISQUEZ-CUADRO, Rocio - MATSUMOTO, Reimi - ORTEGA-CABALLERO, Fernando - NANBA, Eiji - HIGAKI, Katsumi - GARCIA FERNANDEZ, Jose Manuel - ORTIZ MELLET, Carmen. Pharmacological Chaperones for the Treatment of alpha-Mannosidosis. In *JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0022-2623, 2019, vol. 62, no. 12, pp. 5832-5843., Registrované v: WOS

ADCA73 BELLA, Maroš - YAN, Shi - ŠESTÁK, Sergej - KOZMON, Stanislav - LIN, Chun-Hung - MUCHA, Ján - KOÓŠ, Miroslav. Synthesis of a β -D-psicofuranosyl sulfone and inhibitory-activity evaluation against N-acetylglucosaminyltransferase. In *European Journal of Organic Chemistry*, 2017, vol. 2017, no. 41, p. 6179-6191. (2016: 2.834 - IF, Q2 - JCR, 1.177 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1434-193X. Dostupné na: <https://doi.org/10.1002/ejoc.201701102>

Ohlasy:

1. [1.1] BALCZEWSKI, Piotr - SKALIK, Joanna. Quinquevalent phosphorus acids. In *ORGANOPHOSPHORUS CHEMISTRY, VOL 48*. ISSN 0306-0713, 2019, vol. 48, no., pp. 234-379. Dostupné na: <https://doi.org/10.1039/9781788016988-00234>., Registrované v: WOS
2. [1.1] UEDA, Atsushi - NISHIMURA, Yuri - MAKURA, Yui - TANAKA, Masakazu - UENISHI, Jun'ichi. beta-SELECTIVE D-PSICOFURANOSYLATION OF PYRIMIDINE BASES AND THIOLS. In

HETEROCYCLES. ISSN 0385-5414, 2018, vol. 97, no. 2, pp. 729-743.,

Registrované v: WOS

3. [1.2] BAŁCZEWSKI, Piotr - WILK, Joanna. Quinquevalent phosphorus acids. In *Organophosphorus Chemistry*. ISSN 03060713, 2020-01-01, 49, pp. 198-331., Registrované v: SCOPUS

ADCA74 BELLA, Maroš - KOŮŠ, Miroslav - LIN, Chu-Hung. Towards inhibitors of glycosyltransferases: A novel approach to synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. In *Beilstein Journal of Organic Chemistry*, 2015, vol. 11, p. 1547-1552. (2014: 2.757 - IF, Q2 - JCR, 1.187 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.11.170>

Ohlasy:

1. [1.1] JAKUBCINOVA, Jana - KOZMON, Stanislav - SESTAK, Sergej - BARATH, Marek. Novel 1-O-Sulfono-alpha-d-Fructofuranosyl Sulfones as Possible Inhibitors of Human GnT-I Enzyme. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2020, vol. 5, no. 16, pp. 4967-4972. Dostupné na: <https://doi.org/10.1002/slct.202001098>., Registrované v: WOS

2. [1.1] LEONARD, Allison C. - PETRIE, Laurene E. - COX, Georgina. Bacterial Anti-adhesives: Inhibition of *Staphylococcus aureus* Nasal Colonization. In *ACS INFECTIOUS DISEASES*. ISSN 2373-8227, 2019, vol. 5, no. 10, pp. 1668-1681., Registrované v: WOS

ADCA75 BENCÚR, Peter - STENKELLNER, Herta - SVOBODA, Barbara - MUCHA, Ján - STRASSER, Richard - KOLARICH, Daniel - HANN, Stephan - KOLLENSPERGER, Gunda - GLOSSL, Josef - ALTMANN, Friedrich - MACH, L. *Arabidopsis thaliana* beta 1,2-xylosyltransferase: an unusual glycosyltransferase with the potential to act multiple stages of the plant N-glycosylation pathway. In *Biochemical Journal*, 2005, vol.388, p.515-525. ISSN 0264-6021.

Ohlasy:

1. [1.1] FANG, Lin - ISHIKAWA, Toshiki - RENNIE, Emilie A. - MURAWSKA, Gosia M. - LAO, Jeemeng - YAN, Jingwei - TSAI, Alex Yi-Lin - BAIDOO, Edward E. K. - XU, Jun - KEASLING, Jay D. - DEMURA, Taku - KAWAI-YAMADA, Maki - SCHELLER, Henrik V. - MORTIMER, Jenny C. Loss of Inositol Phosphorylceramide Sphingolipid Mannosylation Induces Plant Immune Responses and Reduces Cellulose Content in *Arabidopsis*. In *PLANT CELL*. ISSN 1040-4651, 2016, vol. 28, no. 12, pp. 2991-3004., Registrované v: WOS

2. [1.1] HORIUCHI, Risa - HIROTSU, Naoki - MIYANISHI, Nobumitsu. N-glycan transition of the early developmental stage in *Oryza sativa*. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2016, vol. 477, no. 3, pp. 426-432., Registrované v: WOS

3. [1.1] LARSEN, Joachim Steen - KARLSSON, Richard Torbjorn Gustav - TIAN, Weihua - SCHULZ, Morten Alder - MATTHES, Annemarie - CLAUSEN, Henrik - PETERSEN, Bent Larsen - YANG, Zhang. Engineering mammalian cells to produce plant-specific N-glycosylation on proteins. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 528-538. Dostupné na: <https://doi.org/10.1093/glycob/cwaa009>., Registrované v: WOS

4. [1.1] LUCAS, Pierre-Louis - MATHIEU-RIVET, Elodie - SONG, Philippe C. T. - OLTMANNS, Anne - LOUTELIER-BOURHIS, Corinne -

PLASSON, Carole - AFONSO, Carlos - HIPPLER, Michael - LEROUGE, Patrice - MATI-BAOUCHE, Narimane - BARDOR, Muriel. Multiple xylosyltransferases heterogeneously xylosylate protein N-linked glycans in *Chlamydomonas reinhardtii*. In *PLANT JOURNAL*. ISSN 0960-7412, 2020, vol. 102, no. 2, pp. 230-245. Dostupné na: <https://doi.org/10.1111/tpj.14620>., Registrované v: WOS

5. [1.1] MIKOLAJCZYK, Krzysztof - KACZMAREK, Radosław - CZERWINSKI, Marcin. How glycosylation affects glycosylation: the role of N-glycans in glycosyltransferase activity. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2020, vol. 30, no. 12, pp. 941-969. Dostupné na: <https://doi.org/10.1093/glycob/cwaa041>., Registrované v: WOS

6. [1.1] PEDERSEN, Carina T. - LOKE, Ian - LORENTZEN, Andrea - WOLF, Sara - KAMBLE, Manoj - KRISTENSEN, Sebastian K. - MUNCH, David - RADUTOIU, Simona - SPILLNER, Edzard - ROEPSTORFF, Peter - THAYSEN-ANDERSEN, Morten - STOUGAARD, Jens - DAM, Svend. N-glycan maturation mutants in *Lotus japonicus* for basic and applied glycoprotein research. In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 91, no. 3, pp. 394-407., Registrované v: WOS

7. [1.1] TJONDRO, Harry C. - LOKE, Ian - CHATTERJEE, Sayantani - THAYSEN-ANDERSEN, Morten. Human protein paucimannosylation: cues from the eukaryotic kingdoms. In *BIOLOGICAL REVIEWS*. ISSN 1464-7931, 2019, vol. 94, no. 6, pp. 2068-2100., Registrované v: WOS

ADCA76 BENNET, Neil A. - RYAN, James - BIELY, Peter - VRŠANSKÁ, Mária - KREMNIČKÝ, Ľubomír - MACRIS, Basil J. - KEKOS, Dimitris - CHRISTAKOPOULOS, Paul - KATAPODIS, Petros - CLAEYSSSENS, Marc - NERINCKX, Wim - NTAUMA, Patricia - BHAT, Mahalingeshwara K. Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of *Thermomyces lanuginosus* ATCC46882. In *Carbohydrate Research*, 1998, vol.306, p. 445-455. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(97\)10076-3](https://doi.org/10.1016/S0008-6215(97)10076-3)

Ohlasy:

1. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105639>., Registrované v: WOS

2. [1.1] CORREA, Juliana Moco - CHRISTI, Divair - DELLA TORRE, Carla Lieko - HENN, Caroline - DA CONCEICAO-SILVA, Jose Luis - KADOWAKI, Marina Kimiko - GARCIA SIMAO, Rita de Cassia. High levels of beta-xylosidase in *Thermomyces lanuginosus*: potential use for saccharification. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2016, vol. 47, no. 3, pp. 680-690., Registrované v: WOS

3. [1.1] CHADHA, B. S. - KAUR, Baljit - BASOTRA, Neha - TSANG, Adrian - PANDEY, Ashok. Thermostable xylanases from thermophilic fungi and bacteria: Current perspective. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2019, vol. 277, no., pp. 195-203., Registrované v: WOS

4. [1.1] CHANWICHA, Nantawan - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of alkaline xylanase from *Thermoascus aurantiacus* var. *levisporus* KKU-PN-I2-1 cultivated by solid-state fermentation. In MYCOSCIENCE. ISSN 1340-3540, 2015, vol. 56, no. 3, pp. 309-318., Registrované v: WOS
5. [1.1] JASIM, Raed Kadhim. ISOLATION AND MOLECULAR CHARACTERISATION XYLANASE PRODUCED BY SPOROLACTOBACILLI. In BANATS JOURNAL OF BIOTECHNOLOGY. ISSN 2068-4673, 2016, vol. 7, no. 14, pp. 30-37., Registrované v: WOS
6. [1.1] JIANG, Ying - WU, Yue - LI, Huixin. Immobilization of *Thermomyces lanuginosus* Xylanase on Aluminum Hydroxide Particles Through Adsorption: Characterization of Immobilized Enzyme. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 12, pp. 2016-2023., Registrované v: WOS
7. [1.1] LAL, Mohan - DUTT, Dharm - KUMAR, Amit - GAUTAM, Archana. OPTIMIZATION OF SUBMERGED FERMENTATION CONDITIONS FOR TWO XYLANASE PRODUCERS *COPRINELLUS DISSEMINATUS* MLK-01NTCC-1180 AND MLK-07NTCC-1181 AND THEIR BIOCHEMICAL CHARACTERIZATION. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2015, vol. 49, no. 5-6, pp. 471-483., Registrované v: WOS
8. [1.1] SINGH, Bijender - POCAS-FONSECA, Marcio J. - JOHRI, B. N. - SATYANARAYANA, Tulasi. Thermophilic molds: Biology and applications. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, 2016, vol. 42, no. 6, pp. 985-1006., Registrované v: WOS

ADCA77 BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - PINKOVÁ GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján**. Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. In *Biosensors and Bioelectronics*, 2019, vol. 131, p. 24-29. (2018: 9.518 - IF, Q1 - JCR, 2.553 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2019.01.052>

Ohlasy:

1. [1.1] HETEMI, D. - NOEL, V. - PINSON, J. Grafting of Diazonium Salts on Surfaces: Application to Biosensors. In BIOSENSORS-BASEL. JAN 2020, vol. 10, no. 1., Registrované v: WOS
2. [1.1] REDDY, K.K. - BANDAL, H. - SATYANARAYANA, M. - GOUD, K.Y. - GOBI, K.V. - JAYARAMUDU, T. - AMALRAJ, J. - KIM, H. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In ADVANCED SCIENCE. JUL 2020, vol. 7, no. 13., Registrované v: WOS
3. [1.1] SONG, Z. - LI, Y. - TENG, H. - DING, C.F. - XU, G.Y. - LUO, X.L. Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. In SENSORS AND ACTUATORS B-CHEMICAL. FEB 15 2020, vol. 305., Registrované v: WOS

ADCA78 BERTÓK, Tomáš - ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNE, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In *Langmuir*. - Washington : American Chemical Society, 2015, vol. 31, p. 7148-7157. (2014: 4.457 - IF, Q1 - JCR, 1.810 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.5b00944>

Ohlasy:

1. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In *SENSORS*. ISSN 1424-8220, 2016, vol. 16, no. 12., Registrované v: WOS
2. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2016, vol. 780, pp. 311-320., Registrované v: WOS
3. [1.1] CUI, Min - WANG, Yu - WANG, Hongpei - WU, Yumin - LUO, Xiliang. A label-free electrochemical DNA biosensor for breast cancer marker BRCA1 based on self-assembled antifouling peptide monolayer. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 244, pp. 742-749., Registrované v: WOS
4. [1.1] FARZIN, Leila - SHAMSIPUR, Mojtaba. Recent advances in design of electrochemical affinity biosensors for low level detection of cancer protein biomarkers using nanomaterial-assisted signal enhancement strategies. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 147, no., pp. 185-210., Registrované v: WOS
5. [1.1] GAO, Y. - LI, S.G. - LIU, Q. - LIU, S.S. - YE, L. - SONG, Z.J. - DU, W.D. Establishment of a 1, 4, 7, 10-tetraazacyclododecane-1,4,7,10-tetraacetic acid mono-N-hydroxysuccinimide ester (DOTA-NHS-ester) based lectin microarray for efficiently detecting serum glycans in gastric cancers. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, MAY 15 2020, vol. 597., Registrované v: WOS
6. [1.1] LORENCOVA, L. Functional Nanomaterials in Sensing and Biosensing Applications. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*. 2020, p. 109-167., Registrované v: WOS
7. [1.1] RODOVALHO, V. R. - ARAUJO, G. R. - VAZ, E. R. - UEIRA-VIEIRA, C. - GOULART, L. R. - MADURRO, J. M. - BRITO-MADURRO, A. G. Peptide-based electrochemical biosensor for juvenile idiopathic arthritis detection. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 100, no., pp. 577-582., Registrované v: WOS
8. [1.1] SUN, Mingyue - CHEN, Yajie - TIAN, Guohui - WU, Aiping - YAN, Haijing - FU, Honggang. Stable mesoporous ZnFe₂O₄ as an efficient electrocatalyst for hydrogen evolution reaction. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 190, pp. 186-192., Registrované v: WOS
9. [1.1] ZHANG, Xuezhu - ZAMBRANO, Amarayca - LIN, Zuan-Tao - XING, Yikun - RIPPY, Justin - WU, Tianfu. Immunosensors for Biomarker

Detection in Autoimmune Diseases. In ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS. ISSN 0004-069X, 2017, vol. 65, no. 2, pp. 111-121., Registrované v: WOS

- ADCA79 BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica - TKÁČ, Ján.
Comparison of the 2D and 3D nanostructured lectin-based biosensors for In situ detection of sialic acid on glycoproteins. In *International Journal of Electrochemical Science*, 2014, vol. 9, p. 890-900. (2013: 1.956 - IF, Q3 - JCR, 0.522 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1452-3981.
- Ohlasy:
1. [1.1] BASU, Joyeeta - SAMANTA, Nirmalya - JANA, Sukhendu - ROYCHAUDHURI, Chirasree. Towards reliability enhancement of graphene FET biosensor in complex analyte: Artificial neural network approach. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, 2018, vol. 91, no., pp. 154-159., Registrované v: WOS
 2. [1.1] BASU, J. - BARAL, A. - SAMANTA, N. - MUKHERJEE, N. - ROYCHAUDHURI, C. Low Noise Field Effect Biosensor with Electrochemically Reduced Graphene Oxide. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2018, vol. 165, no. 8, pp. B3201-B3207., Registrované v: WOS
 3. [1.1] GHOSH, Shyamasree. Nanotechnology and sialic acid biology. In SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE, 2020, vol., no., pp. 297-325. Dostupné na: <https://doi.org/10.1016/B978-0-12-816126-5.00011-1>., Registrované v: WOS
 4. [1.1] CHAKRABORTY, W. - RAY, R. - SAMANTA, N. - ROYCHAUDHURI, C. Quantitative differentiation of multiple virus in blood using nanoporous silicon oxide immunosensor and artificial neural network. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 180-188., Registrované v: WOS
 5. [1.1] JUNG, Il Young - KIM, Ji Su - CHOI, Bo Ram - LEE, Kyuri - LEE, Hyukjin. Hydrogel Based Biosensors for In Vitro Diagnostics of Biochemicals, Proteins, and Genes. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2017, vol. 6, no. 12, pp., Registrované v: WOS
 6. [1.1] KASAK, Peter. Self-Assembled Monolayers for Surface Modification. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 217-255., Registrované v: WOS
 7. [1.1] LIN, Donghai - PILLAI, Rajesh G. - LEE, William Edward - JEMERE, Abebaw B. An impedimetric biosensor for E. coli O157:H7 based on the use of self-assembled gold nanoparticles and protein G. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 3, pp., Registrované v: WOS
 8. [1.1] LI, Xiuling - XIONG, Yuting - QING, Guangyan - JIANG, Ge - LI, Xianqin - SUN, Taolei - LIANG, Xinmiao. Bioinspired Saccharide-Saccharide Interaction and Smart Polymer for Specific Enrichment of Sialylated Glycopeptides. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 21, pp. 13294-13302., Registrované v: WOS
 9. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

10. [1.1] MAL, Abhinaba - BOSE, Rajarshi - ROYCHAUDHURI, Chirasree. High Performance Biosensor Based on Electronic Transduction of Refractive Index Using 3D Nanostructured Biogenic Silica. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2018, vol. 5, no. 3, pp. 9783-9789., Registrované v: WOS
11. [1.1] RAY, R. - BASU, J. - GAZI, W. A. - SAMANTA, N. - BHATTACHARYYA, K. - ROYCHAUDHURI, C. Label-Free Biomolecule Detection in Physiological Solutions With Enhanced Sensitivity Using Graphene Nanogrids FET Biosensor. In IEEE TRANSACTIONS ON NANOBIOSCIENCE. ISSN 1536-1241, 2018, vol. 17, no. 4, pp. 433-442., Registrované v: WOS
12. [1.1] REBELO, Rita - BARBOSA, Ana I. - CABALLERO, David - KWON, Il Keun - OLIVEIRA, Joaquim M. - KUNDU, Subhas C. - REIS, Rui L. - CORRELO, Vitor M. 3D biosensors in advanced medical diagnostics of high mortality diseases. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 130, no., pp. 20-39., Registrované v: WOS
13. [1.2] MADKOUR, Loutfy H. Interfacing Biology Systems with Nanoelectronics for Nanodevices. In Advanced Structured Materials. ISSN 18698433, 2019-01-01, 116, pp. 701-759., Registrované v: SCOPUS

ADCA80 BERTÓK, Tomáš - KATRLÍK, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. Electrochemical lectin based biosensors as a label-free tool in glycomics. In *Microchimica Acta*, 2013, vol. 180, p. 1-13. (2012: 3.434 - IF, Q1 - JCR, 1.103 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-012-0876-4>

Ohlasy:

1. [1.1] ALIHEIDARI, Nahal - ALIAHMAD, Nojan - AGARWAL, Mangilal - DALIR, Hamid. Electrospun Nanofibers for Label-Free Sensor Applications. In SENSORS, 2019, vol. 19, no. 16, pp., Registrované v: WOS
2. [1.1] ALLA, Allan J. - D'ANDREA, Felipe B. - BHATTARAI, Jay K. - COOPER, Jared A. - TAN, Yih Horng - DEMCHENKO, Alexei V. - STINE, Keith J. Selective capture of glycoproteins using lectin-modified nanoporous gold monolith. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2015, vol. 1423, no., pp. 19-30., Registrované v: WOS
3. [1.1] BARTOSIK, Martin - HRSTKA, Roman. Bioelectrochemistry of nucleic acids for early cancer diagnostics analysis of DNA methylation and detection of microRNAs. In REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 0793-0135, 2017, vol. 36, no. 1, pp., Registrované v: WOS
4. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
5. [1.1] DAN, Xiuli - LIU, Wenlong - NG, Tzi Bun. Development and Applications of Lectins as Biological Tools in Biomedical Research. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, 2016, vol. 36, no. 2, pp. 221-247., Registrované v: WOS
6. [1.1] HE, Xiao-Peng - ZHU, Bi-Wen - ZANG, Yi - LI, Jia - CHEN, Guo-Rong - TIAN, He - LONG, Yi-Tao. Dynamic tracking of pathogenic

- receptor expression of live cells using pyrenyl glycoanthraquinone-decorated graphene electrodes. In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2015, vol. 6, no. 3, pp. 1996-2001., Registrované v: WOS
7. [1.1] HUANG, Yan - WEN, Yongqiang - BARYEH, Kwaku - TAKALKAR, Sunitha - LUND, Michelle - ZHANG, Xueji - LIU, Guodong. Lateral flow assay for carbohydrate antigen 19-9 in whole blood by using magnetized carbon nanotubes. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4287-4294., Registrované v: WOS
8. [1.1] JEROME, R. - SUNDRAMOORTHY, Ashok K. Hydrothermal Synthesis of Boron Nitride Quantum Dots/Poly(Luminol) Nanocomposite for Selective Detection of Ascorbic Acid. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2019, vol. 166, no. 9, pp. B3017-B3024., Registrované v: WOS
9. [1.1] KRIEG, Anne Katrin - GAUGLITZ, Guenter. Ultrasensitive Label-Free Immunoassay for Optical Determination of Amitriptyline and Related Tricyclic Antidepressants in Human Serum. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2015, vol. 87, no. 17, pp. 8845-8850., Registrované v: WOS
10. [1.1] LI, Huihui - ZHU, Shuqiang - CHENG, Ting - WANG, Shuxia - ZHU, Bin - LIU, Xiaoyan - ZHANG, Haixia. Binary boronic acid-functionalized attapulgite with high adsorption capacity for selective capture of nucleosides at acidic pH values. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2016, vol. 183, no. 5, pp. 1779-1786., Registrované v: WOS
11. [1.1] NIU, Yazhen - HE, Junlin - LI, Yuliang - ZHAO, Yilin - XIA, Chunyong - YUAN, Guolin - ZHANG, Lei - ZHANG, Yuchan - YU, Chao. Determination of alpha 2,3-sialylated glycans in human serum using a glassy carbon electrode modified with carboxylated multiwalled carbon nanotubes, a polyamidoamine dendrimer, and a glycan-recognizing lectin from *Maackia Amurensis*. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2016, vol. 183, no. 7, pp. 2337-2344., Registrované v: WOS
12. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
13. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Label-free electrochemical analysis of biomacromolecules. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS
14. [1.1] PALECEK, Emil. Label-free electrochemical analysis of chitosan and glucosamine-containing oligosaccharides. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 187, no., pp. 375-380., Registrované v: WOS
15. [1.1] RANGEL, Maria G. H. - SILVA, M. Luisa S. Detection of the cancer-associated T antigen using an *Arachis hypogaea* agglutinin biosensor. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 141, no., pp., Registrované v: WOS
16. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
17. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In *ADVANCES IN CLINICAL CHEMISTRY*, VOL 93.

- ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS
18. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A Vicia villosa agglutinin biosensor for cancer-associated Tn antigen. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS
19. [1.1] STRMECKI, Sladana - TREFULKA, Mojmir - ZATLOUKALOVA, Pavlina - DURECH, Michal - VOJTESEK, Borivoj - PALECEK, Emil. Immunoassays of chemically modified polysaccharides, glycans in glycoproteins and ribose in nucleic acids. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2017, vol. 955, no., pp. 108-115., Registrované v: WOS
20. [1.1] TREFULKA, Mojmir - DORCAK, Vlastimil - KRENKOVA, Jana - FORET, Frantisek - PALECEK, Emil. Electrochemical analysis of Os(VI)-modified glycoproteins and label-free glycoprotein detection eluted from lectin capillary column. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 239, no., pp. 10-15., Registrované v: WOS
21. [1.1] TREFULKA, Mojmir - PALECEK, Emil. Can voltammetry distinguish glycan isomers? In CHEMICAL PAPERS. ISSN 0366-6352, 2015, vol. 69, no. 1, pp. 241-244., Registrované v: WOS
22. [1.1] TREFULKA, Mojmir - PALECEK, Emil. Distinguishing glycan isomers by voltammetry. Modification of 2,3-sialyllactose and 2,6-sialyllactose by osmium(VI) complexes. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2017, vol. 85, no., pp. 19-22., Registrované v: WOS
23. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS
24. [1.1] VARGOVA, Veronika - HELMA, Robert - PALECEK, Emil - OSTATNA, Veronika. Electrochemical sensing of concanavalin A and ovalbumin interaction in solution. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2016, vol. 935, no., pp. 97-103., Registrované v: WOS
25. [1.1] WAHIBA, Mokhtari - FENG, Xue-Qing - ZANG, Yi - JAMES, Tony D. - LI, Jia - CHEN, Guo-Rong - HE, Xiao-Peng. A supramolecular pyrenyl glycoside-coated 2D MoS₂ composite electrode for selective cell capture. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2016, vol. 52, no. 78, pp. 11689-11692., Registrované v: WOS
26. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrosensor. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS
27. [1.1] ZHANG, Jing-Jing - CHENG, Fang-Fang - ZHENG, Ting-Ting - ZHU, Jun-Jie. Versatile aptasensor for electrochemical quantification of cell surface glycan and naked-eye tracking glycolytic inhibition in living cells. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 89, no., pp. 937-945., Registrované v: WOS
28. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md - AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In

Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

29. [3.1] Silva, PMS (Silva Priscila Marcelino dos Santos), Coelho, LCBB (Coelho Luana Cassandra Breitenbach Barroso), Correia, MTS (Correia Maria Tereza dos Santos). (2016). Electrochemical biosensing strategies to detect serum glycobiomarkers. In *Advances in Research*, 6(6), article no. AIR.24734

ADCA81 BERTÓK, Tomáš** - LORENCOVÁ, Lenka - CHOCHOLOVÁ, Erika - JÁNĚ, Eduard - VIKARTOVSKÁ, Alica - KASÁK, Peter - TKÁČ, Ján**.

Electrochemical impedance spectroscopy based biosensors: Mechanistic principles, analytical examples and challenges towards commercialization for assays of protein cancer biomarkers. In *ChemElectroChem*, 2019, vol. 6, p. 989-1003. (2018: 3.975 - IF, Q2 - JCR, 1.245 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celc.201800848>

Ohlasy:

1. [1.1] CIUCCI, Francesco. The Gaussian Process Hilbert Transform (GP-HT): Testing the Consistency of Electrochemical Impedance Spectroscopy Data. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2020, vol. 167, no. 12, pp. Dostupné na:

<https://doi.org/10.1149/1945-7111/aba937>., Registrované v: WOS

2. [1.1] DHANAPALA, Lasangi - KRAUSE, Colleen E. - JONES, Abby L. - RUSLING, James E. Printed Electrodes in Microfluidic Arrays for Cancer Biomarker Protein Detection. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/bios10090115>., Registrované v: WOS

3. [1.1] DOWNS, Alex M. - GERSON, Julian - PLOENSE, Kyle L. - PLAXCO, Kevin W. - DAUPHIN-DUCHARME, Philippe. Subsecond-Resolved Molecular Measurements Using Electrochemical Phase Interrogation of Aptamer-Based Sensors. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 14063-14068. Dostupné na:

<https://doi.org/10.1021/acs.analchem.0c03109>., Registrované v: WOS

4. [1.1] ECHEVERRI, Danilo - GARG, Monika - SILVA, Daniel Varon - OROZCO, Jahir. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. In *TALANTA*. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na:

<https://doi.org/10.1016/j.talanta.2020.121117>., Registrované v: WOS

5. [1.1] GARCIA, Luane Ferreira - BATISTA RODRIGUES, Edson Silvio - LINO DE SOUZA, Guilherme Rocha - WASTOWSKI, Isabela Jube - DE OLIVEIRA, Fernando Mota - PIO DOS SANTOS, Wallans Torres - GIL, Eric de Souza. Impedimetric Biosensor for Bovine Herpesvirus Type 1-antigen Detection. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 1100-1106. Dostupné na: <https://doi.org/10.1002/elan.201900606>., Registrované v: WOS

6. [1.1] GEORGE, Ankitha - AMRUTHA, M. S. - SRIVASTAVA, Priyanshu - SAI, V. V. R. - SUNIL, Sujatha - SRINIVASAN, Ramanathan. Label-Free Detection of Chikungunya Non-Structural Protein 3 Using Electrochemical Impedance Spectroscopy. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2019, vol. 166, no. 14, pp. B1356-B1363., Registrované v: WOS

7. [1.1] GODDARD, Nicholas J. - GUPTA, Ruchi. Speed and sensitivity Integration of electrokinetic preconcentration with a leaky waveguide biosensor.

- In SENSORS AND ACTUATORS B-CHEMICAL, 2019, vol. 301, no., pp.,
Registrované v: WOS
8. [1.1] HOBBS, Robert J. - THOMAS, Carol A. - HALLIWELL, Jennifer - GWENIN, Christopher D. Rapid Detection of Botulinum Neurotoxins-A Review. In TOXINS, 2019, vol. 11, no. 7, pp., Registrované v: WOS
9. [1.1] KHAN, Ibrahim - KHAN, Abdul Zeeshan - SUFYAN, Ali - KHAN, Mohd Yusuf - BASHA, Shaik Inayath - KHAN, Abuzar. Ultrasonically controlled growth of monodispersed octahedral BiVO₄ microcrystals for improved photoelectrochemical water oxidation. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2020, vol. 68, no., pp. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2020.105233>., Registrované v: WOS
10. [1.1] KULIKOVA, Tatiana - GORBATCHUK, Vladimir - STOIKOV, Ivan - ROGOV, Alexey - EVTUGYN, Gennady - HIANIK, Tibor. Impedimetric Determination of Kanamycin in Milk with Aptasensor Based on Carbon Black-Oligolactide Composite. In SENSORS, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174738>., Registrované v: WOS
11. [1.1] LENYK, Bohdan - FIGUEROA-MIRANDA, Gabriela - PAVLUSHKO, Ivan - LO, Young - TANNER, Julian A. - OFFENHAEUSSER, Andreas - MAYER, Dirk. Dual-Transducer Malaria Aptasensor Combining Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays. In CHEMELECTROCHEM. ISSN 2196-0216, 2020, vol. 7, no. 22, pp. 4594-4600. Dostupné na: <https://doi.org/10.1002/celc.202001212>., Registrované v: WOS
12. [1.1] PAULIUKAITE, Rasa - VOITECHOVIC, Edita. Multisensor Systems and Arrays for Medical Applications Employing Naturally-Occurring Compounds and Materials. In SENSORS, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123551>., Registrované v: WOS
13. [1.1] RADI, Abd-Elgawad - EISSA, Alsayed - WAHDAN, Tarek. Molecularly Imprinted Impedimetric Sensor for Determination of Mycotoxin Zearalenone. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 8, pp. 1788-1794. Dostupné na: <https://doi.org/10.1002/elan.201900528>., Registrované v: WOS
14. [1.1] REDDY, K. Koteswara - BANDAL, Harshad - SATYANARAYANA, Moru - GOUD, Kotagiri Yugender - GOBI, Kauveri Vengatajalabathy - JAYARAMUDU, Tippabattini - AMALRAJ, John - KIM, Hern. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In ADVANCED SCIENCE, 2020, vol. 7, no. 13, pp. Dostupné na: <https://doi.org/10.1002/advs.201902980>., Registrované v: WOS
15. [1.1] SALVADOR, J.Pablo - KOPPER, Klaudia - MITI, Andrea - SANCHIS, Ana - MARCO, M.Pilar. Multiplexed Immunosensor Based on the Amperometric Transduction for Monitoring of Marine Pollutants in Sea Water. In SENSORS, 2020, vol. 20, no. 19, pp. Dostupné na: <https://doi.org/10.3390/s20195532>., Registrované v: WOS
16. [1.1] SERAFIN, V - GAMELLA, M. - PEDRERO, M. - MONTERO-CALLE, A. - RAZZINO, C. A. - YANEZ-SEDENO, P. - BARDERAS, R. - CAMPUZANO, S. - PINGARRON, J. M. Enlightening the advancements in electrochemical bioanalysis for the diagnosis of Alzheimer's disease and other neurodegenerative disorders. In JOURNAL OF

PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2020.113437>., Registrované v: WOS

17. [1.1] SHIMAZAKI, Hiroko - SAITO, Kozue - MATSUDA, Atsushi - SAWAKAMI, Kazumi - KARIYA, Minoru - SEGAWA, Osamu - MIYASHITA, Yukiko - UEDA, Tetsuya - KOIZUKA, Michinori - NAKAMURA, Kazuhiro - KAJI, Hiroyuki - TAJIMA, Hideji - KUNO, Atsushi. Lectin Bead Array in a Single Tip Facilitates Fully Automatic Glycoprotein Profiling. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 17, pp. 11162-11169., Registrované v: WOS

18. [1.1] SUBRAMANI, Indra Gandi - PERUMAL, Veeradasan - GOPINATH, Subash C. B. - MOHAMED, Norani Muti - JOSHI, Nirav - OVINIS, Mark - LI SZE, Lim. 3D nanoporous hybrid nanoflower for enhanced non-faradaic redox-free electrochemical impedimetric biodetermination. In JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070, 2020, vol. 116, no., pp. 26-35. Dostupné na: <https://doi.org/10.1016/j.jtice.2020.11.006>., Registrované v: WOS

19. [1.1] TAKI, Motahareh - ROHILLA, Kushal J. - BARTON, Maria - FUNNEMAN, Madison - BENZABEH, Najiyah - NAPHADE, Swati - ELLERBY, Lisa M. - GAGNON, Keith T. - SHAMSI, Mohtashim H. Novel probes for label-free detection of neurodegenerative GGGGCC repeats associated with amyotrophic lateral sclerosis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 26, pp. 6995-7003., Registrované v: WOS

20. [1.1] TASIC, Nikola - MARTINS, Alisson Bezerra - YIFEI, Xue - GOES, Marcio Sousa - MARTIN-YERGA, Daniel - MAO, Lanqun - PAIXAO, Thiago R. L. C. - GONCALVES, Luis Moreira. Insights into electrochemical behavior in laser-scribed electrochemical paper-based analytical devices. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2020, vol. 121, no., pp. Dostupné na: <https://doi.org/10.1016/j.elecom.2020.106872>., Registrované v: WOS

21. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In BIOANALYSIS. ISSN 1757-6180, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na: <https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS

22. [1.1] VIKRANT, Kumar - BHARDWAJ, Neha - BHARDWAJ, Sanjeev K. - KIM, Ki-Hyun - DEEP, Akash. Nanomaterials as efficient platforms for sensing DNA. In BIOMATERIALS. ISSN 0142-9612, 2019, vol. 214, no., pp., Registrované v: WOS

23. [1.1] VU, Thanh T. - SONG, Sojin - LAI, Hien D. N. - NGOC LAN MAI - TRINH, Thuat T. - DO, Ha T. - DAI PHU-HUYNH - NGUYEN, Anh H. Coverage degrees of colloids on electrochemical electrodes and signal amplification for anti-citrullinated peptide antibody detection. In SENSING AND BIO-SENSING RESEARCH, 2020, vol. 27, no., pp. Dostupné na: <https://doi.org/10.1016/j.sbsr.2020.100322>., Registrované v: WOS

24. [1.1] XU, Jian - LEE, Hyowon. Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. In CHEMOSENSORS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>., Registrované v: WOS

25. [1.1] XU, Lizhou - SHOAIE, Nahid - JAHANPEYMA, Fatemeh -

ZHAO, Junjie - AZIMZADEH, Mostafa - AL-JAMAL, Khuloud T. Optical, electrochemical and electrical (nano)biosensors for detection of exosomes: A comprehensive overview. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112222>., Registrované v: WOS

ADCA82 BERTÓK, Tomáš - SEDIVA, A. - KATRLÍK, Jaroslav - GEMEINER, Peter - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (2012: 3.498 - IF, Q1 - JCR, 1.417 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2013.02.052>

Ohlasy:

1. [1.1] ABREU, Dieric S. - SOUSA, Ticyano P. - CASTRO, Caio B. - SOUSA, Mayara N. V. - SILVA, Thiago T. - ALMEIDA-NETO, Francisco W. Q. - QUEIROS, Marcos V. A. - RODRIGUES, Barbara S. F. - OLIVEIRA, Maria C. F. - PAULO, Tercio F. - CAVADA, Benildo S. - NASCIMENTO, Kyria S. - TEMPERINI, Marcia L. A. - DIOGENES, Izaura C. N. SAM of Gliotoxin on Gold: A Natural Product Platform for Sugar Recognition based on the Immobilization of Canavalia brasiliensis lectin (ConBr). In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 241, no., pp. 116-123., Registrované v: WOS
2. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In *SENSORS*. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS
3. [1.1] BHATTARAI, Jay K. - NEUPANE, Dharmendra - NEPAL, Bishal - MIKHAYLOV, Vasilii - DEMCHENKO, Alexei V. - STINE, Keith J. Preparation, Modification, Characterization, and Biosensing Application of Nanoporous Gold Using Electrochemical Techniques. In *NANOMATERIALS*. ISSN 2079-4991, 2018, vol. 8, no. 3, pp., Registrované v: WOS
4. [1.1] BOKEN, Jyoti - SONI, Sarvesh K. - KUMAR, Dinesh. Microfluidic Synthesis of Nanoparticles and their Biosensing Applications. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2016, vol. 46, no. 6, pp. 538-561., Registrované v: WOS
5. [1.1] BREITENBACH BARROSO COELHO, Luana Cassandra - DOS SANTOS SILVA, Priscila Marcelino - DE MENEZES LIMA, Vera Lucia - PONTUAL, Emmanuel Viana - GUEDES PAIVA, Patricia Maria - NAPOLEAO, Thiago Henrique - DOS SANTOS CORREIA, Maria Tereza. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2017, vol., no., pp., Registrované v: WOS
6. [1.1] CORDINA, Nicole M. - ZHANG, Wei - PACKER, Nicolle H. - WANG, Yuling. Rapid and sensitive glycan targeting by lectin-SERS assay. In *MOLECULAR OMICS*, 2020, vol. 16, no. 4, pp. 339-344., Registrované v: WOS
7. [1.1] CUI, Lei - ZHU, Bi-Wen - QU, Song - HE, Xiao-Peng - CHEN, Guo-Rong. "Clicked" galactosyl anthraquinone on graphene electrodes for the label-free impedance detection of live cancer cells. In *DYES AND PIGMENTS*. ISSN 0143-7208, 2015, vol. 121, no., pp. 312-315., Registrované v: WOS

8. [1.1] DA SILVA, Jussara Vieira - BRITO MADURRO, Ana Graci - MADURRO, Joao Marcos. Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2017, vol. 21, no. 7, pp. 2129-2139., Registrované v: WOS
9. [1.1] DAN, Xiuli - LIU, Wenlong - NG, Tzi Bun. Development and Applications of Lectins as Biological Tools in Biomedical Research. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, 2016, vol. 36, no. 2, pp. 221-247., Registrované v: WOS
10. [1.1] DELBIANCO, Martina - BHARATE, Priya - VARELA-ARAMBURU, Silvia - SEEBERGER, Peter H. Carbohydrates in Supramolecular Chemistry. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 4, pp. 1693-1752., Registrované v: WOS
11. [1.1] FORMISANO, Nello - JOLLY, Pawan - BHALLA, Nikhil - CROMHOUT, Mary - FLANAGAN, Shane P. - FOGEL, Ronen - LIMSON, Janice L. - ESTRELA, Pedro. Optimisation of an electrochemical impedance spectroscopy aptasensor by exploiting quartz crystal microbalance with dissipation signals. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 220, no., pp. 369-375., Registrované v: WOS
12. [1.1] GHOSH, Shyamasree. Nanotechnology and sialic acid biology. In SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE, 2020, vol., no., pp. 297-325., Registrované v: WOS
13. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
14. [1.1] CHEN, Shizhu - HAO, Xiaohong - LIANG, Xingjie - ZHANG, Qun - ZHANG, Cuimiao - ZHOU, Guoqiang - SHEN, Shigang - JIA, Guang - ZHANG, Jinchao. Inorganic Nanomaterials as Carriers for Drug Delivery. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2016, vol. 12, no. 1, pp. 1-27., Registrované v: WOS
15. [1.1] KWON, Jinju - AHN, Kwang-Soo - JEONG, Daeho - CHOI, Han Nim - LEE, Won-Yong. Highly Sensitive Determination of Concanavalin A Lectin Based on Silver-Enhanced Electrogenated Chemiluminescence of Luminol. In ANALYTICAL LETTERS. ISSN 0003-2719, 2018, vol. 51, no. 13, pp. 2114-2127., Registrované v: WOS
16. [1.1] LAZAR, Jaroslav - PARK, Hyunji - ROSENCRANTZ, Ruben R. - BOEKER, Alexander - ELLING, Lothar - SCHNAKENBERG, Uwe. Evaluating the Thickness of Multivalent Glycopolymers for Lectin Binding. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2015, vol. 36, no. 16, pp. 1472-1478., Registrované v: WOS
17. [1.1] LIANG JUN-YU - TONG PEI-HONG - LI JIAN-PING. Research and Application of Glycoprotein Sensors Based on Glycosyl Recognition. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2019, vol. 47, no. 9, pp. 1283-1292., Registrované v: WOS
18. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

19. [1.1] MCNAMARA, Karrina - TOFAIL, Syed A. M. Nanoparticles in biomedical applications. In ADVANCES IN PHYSICS-X. ISSN 2374-6149, 2017, vol. 2, no. 1, pp. 54-88., Registrované v: WOS
20. [1.1] PIRES, F. - JULIA ARCOS-MARTINEZ, M. - CRISTINA DIAS-CABRAL, A. - VIDAL, Juan C. - CASTILLO, Juan R. A rapid magnetic particle-based enzyme immunoassay for human cytomegalovirus glycoprotein B quantification. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 156, no., pp. 372-378., Registrované v: WOS
21. [1.1] PIRES, F. - SILVA, H. - DOMINGUEZ-RENEO, O. - ALONSO-LOMILLO, M. A. - ARCOS-MARTINEZ, M. J. - DIAS-CABRAL, A. C. Disposable immunosensor for human cytomegalovirus glycoprotein B detection. In TALANTA. ISSN 0039-9140, 2015, vol. 136, no., pp. 42-46., Registrované v: WOS
22. [1.1] SALEK-MAGHSOUDI, Armin - VAKHSHITEH, Faezeh - TORABI, Raheleh - HASSANI, Shokoufeh - GANJALI, Mohammad Reza - NOROUZI, Parviz - HOSSEINI, Morteza - ABDOLLAHI, Mohammad. Recent advances in biosensor technology in assessment of early diabetes biomarkers. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 99, no., pp. 122-135., Registrované v: WOS
23. [1.1] SANCHEZ-TIRADO, Esther - GONZALEZ-CORTES, Araceli - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Magnetic multiwalled carbon nanotubes as nanocarrier tags for sensitive determination of fetuin in saliva. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 113, no., pp. 88-94., Registrované v: WOS
24. [1.1] SANTOS, Adriano - BUENO, Paulo R. Glycoprotein assay based on the optimized immittance signal of a redox tagged and lectin-based receptive interface. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 83, no., pp. 368-378., Registrované v: WOS
25. [1.1] SHEN, Dongdong - LIU, Yunchun - FANG, Ying - LI, Peng - YANG, Zhousheng. A sensor for glycoproteins based on dendritic gold nanoparticles electrodeposited on a gold electrode and modified with a phenylboronic acid. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2015, vol. 19, no. 2, pp. 563-568., Registrované v: WOS
26. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In CANCER LETTERS. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
27. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In ADVANCES IN CLINICAL CHEMISTRY, VOL 93. ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS
28. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A Vicia villosa agglutinin biosensor for cancer-associated Tn antigen. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS
29. [1.1] SYPABEKOVA, Marzhan - DUKENBAYEV, Kanat - TSEPKE, Anna - AKISHEVA, Akmaral - ORALBAYEV, Nurlan - KANAYEVA, Damira. An aptasensor for the detection of Mycobacterium tuberculosis secreted immunogenic protein MPT64 in clinical samples towards tuberculosis detection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

30. [1.1] VASHIST, Sandeep Kumar - SCHNEIDER, E. Marion - VENKATESH, A. G. - LUONG, John H. T. Emerging Human Fetuin A Assays for Biomedical Diagnostics. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2017, vol. 35, no. 5, pp. 407-421., Registrované v: WOS
31. [1.1] WANG, Baozhen - ANZAI, Jun-ichi. Recent Progress in Electrochemical HbA1c Sensors: A Review. In MATERIALS. ISSN 1996-1944, 2015, vol. 8, no. 3, pp. 1187-1203., Registrované v: WOS
32. [1.1] WANG, Jih-Cheng - CHI, Shao-Wen - SHIEH, Dar-Bin - CHUANG, Han-Sheng. Development of a self-driving bioassay based on diffusion for simple detection of microorganisms. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2019, vol. 278, no., pp. 140-146., Registrované v: WOS
33. [1.1] WANG, Weizhi - ZHANG, Di - WEI, Zewen - WANG, Zihua - BU, Xiangli - YANG, Shu - FANG, Qiaojun - HU, Zhiyuan. Label-free detection microarray for novel peptide ligands screening base on MS-SPRi combination. In TALANTA. ISSN 0039-9140, 2015, vol. 134, no., pp. 705-711., Registrované v: WOS
34. [1.1] XIA, Ning - WANG, Xin - YU, Jie - WU, Yangyang - CHENG, Shuchao - XING, Yun - LIU, Lin. Design of electrochemical biosensors with peptide probes as the receptors of targets and the inducers of gold nanoparticles assembly on electrode surface. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 239, no., pp. 834-840., Registrované v: WOS
35. [1.2] CHAKRABORTY, Avishek - TIBAREWALA, Dewaki Nandan - BARUI, Ananya. Impedance-based biosensors. In Bioelectronics and Medical Devices: From Materials to Devices Fabrication, Applications and Reliability, 2019-01-01, pp. 97-122., Registrované v: SCOPUS
36. [1.2] VESTERGAARD, Mun'delanji C. - TAMIYA, Eiichi. Nanobiosensors and nanobioanalyses: A review. In Nanobiosensors and Nanobioanalyses, 2015-01-01, pp. 3-20., Registrované v: SCOPUS
37. [1.2] ZUBER, Agnieszka A. - KLANTSATAYA, Elizaveta - BACHHUKA, Akash. Biosensing. In Comprehensive Nanoscience and Nanotechnology, 2019-01-01, 1-5, pp. 105-126., Registrované v: SCOPUS

ADCA83 BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - BELICKÝ, Štefan - ŠEDIVÁ, Alena - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica - PLICKA, Robert - KREJČÍ, Jan - ILČÍKOVÁ, Markéta - KASÁK, Peter - TKÁČ, Ján. Mixed zwitterion-based self-assembled monolayer interface for impedimetric glycomic analyses of human IgG samples in an array format. In *Langmuir*, 2016, vol. 32, p. 7070-7078. (2015: 3.993 - IF, Q1 - JCR, 1.650 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.6b01456>

Ohlasy:

1. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In SENSORS. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS
2. [1.1] BHALLA, Nikhil - LEE, Doojin - SATHISH, Shivani - SHEN, Amy Q. Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. In NANOSCALE. ISSN 2040-3364, 2017, vol. 9, no. 2, pp. 547-554., Registrované v: WOS

3. [1.1] SEMAK, Vladislav - FISCHER, Michael B. - WEBER, Viktoria. Biomimetic principles to develop blood compatible surfaces. In INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS. ISSN 0391-3988, 2017, vol. 40, no. 1, pp. 22-30., Registrované v: WOS
4. [1.1] WANG, Shuai - OU, Xinwen - WUTTHINITIKORNKIT, Yanee - YI, Ming - LI, Jingyuan. Effects of the surface polarity of nanomaterials on their interaction with complement protein gC1q. In RSC ADVANCES, 2020, vol. 10, no. 69, pp. 41993-42000. Dostupné na: <https://doi.org/10.1039/d0ra05493c>., Registrované v: WOS
5. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrosensor. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS
6. [1.2] MARLAND, Jamie R.K. - BLAIR, Ewen O. - FLYNN, Brian W. - GONZÁLEZ-FERNÁNDEZ, Eva - HUANG, Liyu - KUNKLER, Ian H. - SMITH, Stewart - STADERINI, Matteo - TSIAMIS, Andreas - WARD, Carol - MURRAY, Alan F. Implantable microsystems for personalised anticancer therapy. In CMOS Circuits for Biological Sensing and Processing, 2017-11-18, pp. 259-286., Registrované v: SCOPUS

ADCA84 BERTÓK, Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Ján. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In *Microchimica Acta*, 2013, vol. 180, p. 151-159. (2012: 3.434 - IF, Q1 - JCR, 1.103 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-012-0902-6>

Ohlasy:

1. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In SENSORS. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS
2. [1.1] BREITENBACH BARROSO COELHO, Luana Cassandra - DOS SANTOS SILVA, Priscila Marcelino - DE MENEZES LIMA, Vera Lucia - PONTUAL, Emmanuel Viana - GUEDES PAIVA, Patricia Maria - NAPOLEAO, Thiago Henrique - DOS SANTOS CORREIA, Maria Tereza. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2017, vol., no., pp., Registrované v: WOS
3. [1.1] CUI, Lei - ZHU, Bi-Wen - QU, Song - HE, Xiao-Peng - CHEN, Guo-Rong. "Clicked" galactosyl anthraquinone on graphene electrodes for the label-free impedance detection of live cancer cells. In DYES AND PIGMENTS. ISSN 0143-7208, 2015, vol. 121, no., pp. 312-315., Registrované v: WOS
4. [1.1] FIGUEIROA, Evelyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of

- New Anticancer Agents. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
5. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
6. [1.1] JAYEOYE, Titilope John - CHEEWASEDTHAM, Wilairat - PUTSON, Chatchai - RUJIRALAI, Thitima. Colorimetric determination of sialic acid based on boronic acid-mediated aggregation of gold nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 9, pp., Registrované v: WOS
7. [1.1] LAZAR, Jaroslav - PARK, Hyunji - ROSENCRANTZ, Ruben R. - BOEKER, Alexander - ELLING, Lothar - SCHNAKENBERG, Uwe. Evaluating the Thickness of Multivalent Glycopolymers for Lectin Binding. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2015, vol. 36, no. 16, pp. 1472-1478., Registrované v: WOS
8. [1.1] LIANG JUN-YU - TONG PEI-HONG - LI JIAN-PING. Research and Application of Glycoprotein Sensors Based on Glycosyl Recognition. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2019, vol. 47, no. 9, pp. 1283-1292., Registrované v: WOS
9. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS
10. [1.1] LU, Qi - ZHAN, Mimi - DENG, Lijing - QING, Guangyan - SUN, Taolei. Rapid and high-efficiency discrimination of different sialic acid species using dipeptide-based fluorescent sensors. In ANALYST. ISSN 0003-2654, 2017, vol. 142, no. 19, pp. 3564-3568., Registrované v: WOS
11. [1.1] SANCHEZ-TIRADO, Esther - GONZALEZ-CORTES, Araceli - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Magnetic multiwalled carbon nanotubes as nanocarrier tags for sensitive determination of fetuin in saliva. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 113, no., pp. 88-94., Registrované v: WOS
12. [1.1] SHIMAZAKI, Hiroko - SAITO, Kozue - MATSUDA, Atsushi - SAWAKAMI, Kazumi - KARIYA, Minoru - SEGAWA, Osamu - MIYASHITA, Yukiko - UEDA, Tetsuya - KOIZUKA, Michinori - NAKAMURA, Kazuhiro - KAJI, Hiroyuki - TAJIMA, Hideji - KUNO, Atsushi. Lectin Bead Array in a Single Tip Facilitates Fully Automatic Glycoprotein Profiling. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 17, pp. 11162-11169., Registrované v: WOS
13. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A Vicia villosa agglutinin biosensor for cancer-associated Tn antigen. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS
14. [1.1] SILVA, Priscila M. S. - LIMA, Amanda L. R. - SILVA, Barbara V. M. - COELHO, Luana C. B. B. - DUTRA, Rosa F. - CORREIA, Maria T. S. Cratylia mollis lectin nanoelectrode for differential diagnosis of prostate cancer and benign prostatic hyperplasia based on label-free detection. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 85, no., pp. 171-177., Registrované v: WOS

15. [1.1] TABASUM, Shazia - NOREEN, Aqdas - KANWAL, Arooj - ZUBER, Mohammad - ANJUM, Muhammad Naveed - ZIA, Khalid Mahmood. Glycoproteins functionalized natural and synthetic polymers for prospective biomedical applications: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 748-776., Registrované v: WOS
16. [1.1] TAVAKOLI, Javad - TANG, Youhong. Hydrogel Based Sensors for Biomedical Applications: An Updated Review. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 8, pp., Registrované v: WOS
17. [1.1] TAVAKOLI, Javad - WANG, Jing - CHUAH, Clarence - TANG, Youhong. Natural-based Hydrogels: A Journey from Simple to Smart Networks for Medical Examination. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2020, vol. 27, no. 16, pp. 2704-2733. Dostupné na: <https://doi.org/10.2174/0929867326666190816125144>., Registrované v: WOS
18. [1.1] VARGIS, Vidhu Sara - VASU, Suneesh Punathil - SREE, R. Jyothi - NAIR, Bipin - GOPALAKRISHNAN, Satheesh Babu Thekkedath. Peroxidase Labeled Antibody Conjugated Gold Nanoparticles for Ultrasensitive Voltammetric Immunosensing. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, 2020, vol. 20, no. 3, pp. 1142-1149. Dostupné na: <https://doi.org/10.1109/JSEN.2019.2946311>., Registrované v: WOS
19. [3.1] Silva, PMS (Silva Priscila Marcelino dos Santos), Coelho, LCB (Coelho Luana Cassandra Breitenbach Barroso), Correia, MTS (Correia Maria Tereza dos Santos). (2016). Electrochemical biosensing strategies to detect serum glycobiomarkers. In *Advances in Research*, 6(6), article no. AIR.

ADCA85 BERTÓK, Tomáš - KLUKOVA, Ludmila - ŠEDIVÁ, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In *Analytical Chemistry*, 2013, vol. 85, p. 7324 - 7332. (2012: 5.695 - IF, Q1 - JCR, 2.672 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac401281t>

Ohlasy:

1. [1.1] AKIBA, U. - ANZAI, J. Recent Progress in Electrochemical Biosensors for Glycoproteins. In *SENSORS*. ISSN 1424-8220, DEC 2016, vol. 16, no. 12., Registrované v: WOS
2. [1.1] BHATTARAI, J.K. - TAN, Y.H. - PANDEY, B. - FUJIKAWA, K. - DEMCHENKO, A.V. - STINE, K.J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, NOV 1 2016, vol. 780, p. 311-320., Registrované v: WOS
3. [1.1] BROSEL-OLIU, S. - GALYAMIN, D. - ABRAMOVA, N. - MUNOZ-PASCUAL, F.X. - BRATOV, A. Impedimetric label-free sensor for specific bacteria endotoxin detection by surface charge registration. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, JUL 20 2017, vol. 243, p. 142-151., Registrované v: WOS
4. [1.1] BUNYAKUL, N. - BAEUMNER, A.J. Combining Electrochemical Sensors with Miniaturized Sample Preparation for Rapid

- Detection in Clinical Samples. In SENSORS. ISSN 1424-8220, JAN 2015, vol. 15, no. 1, p. 547-564., Registrované v: WOS
5. [1.1] COELHO, L.C.B.B. - SILVA, P.M.D. - LIMA, V.L.D. - PONTUAL, E.V. - PAIVA, P.M.G. - NAPOLEAO, T.H. - CORREIA, M.T.D. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2017., Registrované v: WOS
6. [1.1] DARWISH, Nadiya T. - SEKARAN, Shamala D. - ALIAS, Yatimah - KHOR, Sook Mei. Immunofluorescence-based biosensor for the determination of dengue virus NS1 in clinical samples. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 149, no., pp. 591-602., Registrované v: WOS
7. [1.1] DI IORIO, D. - HUSKENS, J. Surface Modification with Control over Ligand Density for the Study of Multivalent Biological Systems. In CHEMISTRYOPEN. ISSN 2191-1363, JAN 2020, vol. 9, no. 1, p. 53-66., Registrované v: WOS
8. [1.1] DING, S.C. - ZHANG, N. - LYU, Z.Y. - ZHU, W.L. - CHANG, Y.C. - HU, X.L. - DU, D. - LIN, Y.H. Protein-based nanomaterials and nanosystems for biomedical applications: A review. In MATERIALS TODAY. ISSN 1369-7021, MAR 2020, vol. 43, p. 166-184., Registrované v: WOS
9. [1.1] EVTUGYN, Gennady - HIANIK, Tibor. Electrochemical Immuno- and Aptasensors for Mycotoxin Determination. In CHEMOSENSORS, 2019, vol. 7, no. 1, pp., Registrované v: WOS
10. [1.1] GEUIJEN, K.P.M. - HALIM, L.A. - SCHELLEKENS, H. - SCHASFOORT, R.B. - WIJFFELS, R.H. - EPPINK, M.H. Label-Free Glycoprofiling with Multiplex Surface Plasmon Resonance: A Tool To Quantify Sialylation of Erythropoietin. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, AUG 18 2015, vol. 87, no. 16, p. 8115-8122., Registrované v: WOS
11. [1.1] HE, Y. - LI, J.H. - LIU, Y. Reusable and Dual-Potential Responses Electrogenerated Chemiluminescence Biosensor for Synchronously Cytosensing and Dynamic Cell Surface N-Glycan Evaluation. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, OCT 6 2015, vol. 87, no. 19, p. 9777-9785., Registrované v: WOS
12. [1.1] HE, Z.Y. - CHEN, Q.S. - CHEN, F.M. - ZHANG, J. - LI, H.F. - LIN, J.M. DNA-mediated cell surface engineering for multiplexed glycan profiling using MALDI-TOF mass spectrometry. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 8, p. 5448-5452., Registrované v: WOS
13. [1.1] CHINWANGSO, P. - LEE, H.J. - LEE, T.R. Self-Assembled Monolayers Generated from Unsymmetrical Partially Fluorinated Spiroalkanedithiols. In LANGMUIR. ISSN 0743-7463, DEC 15 2015, vol. 31, no. 49, p. 13341-13349., Registrované v: WOS
14. [1.1] JOLLY, P. - FORMISANO, N. - ESTRELA, P. DNA aptamer-based detection of prostate cancer. In CHEMICAL PAPERS. ISSN 0366-6352, JAN 2015, vol. 69, no. 1, p. 77-89., Registrované v: WOS
15. [1.1] LIN, P.H. - LI, B.R. Antifouling strategies in advanced electrochemical sensors and biosensors. In ANALYST. ISSN 0003-2654, FEB 21 2020, vol. 145, no. 4, p. 1110-1120., Registrované v: WOS
16. [1.1] LIU, B.S. - LIU, X. - SHI, S. - HUANG, R.L. - SU, R.X. - QI, W. - HE, Z.M. Design and mechanisms of antifouling materials for surface plasmon resonance sensors. In ACTA BIOMATERIALIA. ISSN 1742-7061,

AUG 2016, vol. 40, p. 100-118., Registrované v: WOS

17. [1.1] LI, X.G. - ZHANG, F. - GAO, Y. - ZHOU, Q.M. - ZHAO, Y. - LI, Y. - HUO, J.Z. - ZHAO, X.J. Facile synthesis of red emitting 3-aminophenylboronic acid functionalized copper nanoclusters for rapid, selective and highly sensitive detection of glycoproteins. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, DEC 15 2016, vol. 86, p. 270-276.,

Registrované v: WOS

18. [1.1] LORENCOVA, L. Functional Nanomaterials in Sensing and Biosensing Applications. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*. 2020, p. 109-167., Registrované v: WOS

19. [1.1] ONO, T. - OE, T. - KANAI, Y. - IKUTA, T. - OHNO, Y. - MAEHASHI, K. - INOUE, K. - WATANABE, Y. - NAKAKITA, S. - SUZUKI, Y. - KAWAHARA, T. - MATSUMOTO, K. Glycan-functionalized graphene-FETs toward selective detection of human-infectious avian influenza virus. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. ISSN 0021-4922, MAR 2017, vol. 56, no. 3., Registrované v: WOS

20. [1.1] POHANKA, M. Biosensors containing acetylcholinesterase and butyrylcholinesterase as recognition tools for detection of various compounds. In *CHEMICAL PAPERS*. ISSN 0366-6352, JAN 2015, vol. 69, no. 1, p. 4-16., Registrované v: WOS

21. [1.1] SANTOS, A. - BUENO, P.R. Glycoprotein assay based on the optimized immittance signal of a redox tagged and lectin-based receptive interface. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, SEP 15 2016, vol. 83, p. 368-378., Registrované v: WOS

22. [1.1] SIERRA, Tania - CRISTINA GONZALEZ, Maria - MORENO, Begona - CREVILLEN, Agustin G. - ESCARPA, Alberto. Total alpha(1)-acid glycoprotein determination in serum samples using disposable screen-printed electrodes and osmium (VI) as electrochemical tag. In *TALANTA*. ISSN 0039-9140, 2018, vol. 180, no., pp. 206-210., Registrované v: WOS

23. [1.1] SIERRA, Tania - DORTEZ, Silvia - CRISTINA GONZALEZ, Maria - JAVIER PALOMARES, F. - CREVILLEN, Agustin G. - ESCARPA, Alberto. Disposable carbon nanotube scaffold films for fast and reliable assessment of total (1)-acid glycoprotein in human serum using adsorptive transfer stripping square wave voltammetry. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2019, vol. 411, no. 9, pp. 1887-1894., Registrované v: WOS

24. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In *ADVANCES IN CLINICAL CHEMISTRY, VOL 93*. ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS

25. [1.1] SUN, Xiuhua - WANG, Huaixin - WANG, Yuanyuan - GUI, Taijiang - WANG, Ke - GAO, Changlu. Creation of antifouling microarrays by photopolymerization of zwitterionic compounds for protein assay and cell patterning. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 102, no., pp. 63-69., Registrované v: WOS

26. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In *CHEMICKE LISTY*. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS

27. [1.1] YADAV, S. - CARRASCOSA, L.G. - SINA, A.A.I. -

SHIDDIKY, M.J.A. - HILL, M.M. - TRAU, M. Electrochemical detection of protein glycosylation using lectin and protein-gold affinity interactions. In ANALYST. ISSN 0003-2654, 2016, vol. 141, no. 8, p. 2356-2361., Registrované v: WOS

28. [1.1] ZHANG, R. - WANG, S. - HUANG, X.M. - YANG, Y.H. - FAN, H.T. - YANG, F. - LI, J. - DONG, X.S. - FENG, S.B. - ANBU, P. - GOPINATH, S.C.B. - XIN, T. Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, JAN 15 2020, vol. 1094, p. 142-150., Registrované v: WOS

29. [1.1] ZHANG, X.Z. - ZAMBRANO, A. - LIN, Z.T. - XING, Y.K. - RIPPY, J. - WU, T.F. Immunosensors for Biomarker Detection in Autoimmune Diseases. In ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS. ISSN 0004-069X, APR 2017, vol. 65, no. 2, p. 111-121., Registrované v: WOS

30. [1.2] FU, Kaiyu - XU, Wei - HU, Jiayun - LOPEZ, Arielle - BOHN, Paul W. Microscale and nanoscale electrophotonic diagnostic devices. In Cold Spring Harbor Perspectives in Medicine, 2019-05-01, 9, 5, pp., Registrované v: SCOPUS

ADCA86 BERTÓK, Tomáš - ŠEFČOVIČOVÁ, Jana - GEMEINER, Peter - TKÁČ, Ján. Vývoj a súčasné trendy pri príprave nanoštruktúrovaných biosenzorov. In *Chemické listy*, 2012, vol. 106, p. 174-181. (2011: 0.529 - IF, Q4 - JCR, 0.181 - SJR, Q3 - SJR, Current Contents - CCC). (2012 - Current Contents, WOS, CCC, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] SCHERF, Katharina Anne - CICCOCIOPO, Rachele - POHANKA, Miroslav - RIMAROVA, Kvetoslava - OPATRILOVA, Radka - RODRIGO, Luis - KRUZLIAK, Peter. Biosensors for the Diagnosis of Celiac Disease: Current Status and Future Perspectives. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2016, vol. 58, no. 6, pp. 381-392., Registrované v: WOS

ADCA87 BEYE, M. - NEUMANN, P. - SCHMITZOVÁ, J. - KLAUDINY, Jaroslav - ALBERT, S. - ŠIMÚTH, Jozef - FELDER, M. - MORITZ, R.F.A. A simple, non-radioactive DNA fingerprinting method for identifying patriline in honeybee colonies. In *Apidologie*, 1998, vol. 29, p. 255-263. ISSN 0044-8435. Dostupné na: <https://doi.org/10.1051/apido:19980305>

Ohlasy:

1. [1.1] QAO, Jiangtao - WANG, Xueyu - LIU, Liqiang - ZHANG, Hongcheng. Nonenzymatic Browning and Protein Aggregation in Royal Jelly during Room-Temperature Storage. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1881-1888., Registrované v: WOS

ADCA88 BEZÁKOVÁ, Zuzana - HERMANNOVÁ, Martina - DŘÍMALOVÁ, Eugenie - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna - VELEBNÝ, Vladimír. Effect of microwave irradiation on the molecular and structural properties of hyaluronan. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 73, p. 640-646. (2007: 1.782 - IF, Q2 - JCR,

0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2008.01.018>

Ohlasy:

1. [1.1] AIDA, Taku Michael - OSHIMA, Minori - SHARMIN, Tanjina - MISHIMA, Kenji - SMITH, Richard L. Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104638>., Registrované v: WOS
2. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS
3. [1.1] HODDER, Ella - DUIN, Sarah - KILIAN, David - AHLFELD, Tilman - SEIDEL, Julia - NACHTIGALL, Carsten - BUSH, Peter - COVILL, Derek - GELINSKY, Michael - LODE, Anja. Investigating the effect of sterilisation methods on the physical properties and cytocompatibility of methyl cellulose used in combination with alginate for 3D-bioplotting of chondrocytes. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE. ISSN 0957-4530, 2019, vol. 30, no. 1, pp., Registrované v: WOS
4. [1.1] HUANG, Hao - LIANG, Qixing - WANG, Yang - CHEN, Jian - KANG, Zhen. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant *Pichia pastoris*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, pp. 1621-1632. Dostupné na: <https://doi.org/10.1007/s00253-019-10282-7>., Registrované v: WOS
5. [1.1] LUPO, Cristina - BOULOS, Samy - NYSTROEM, Laura. Influence of Partial Acid Hydrolysis on Size, Dispersity, Monosaccharide Composition, and Conformation of Linearly-Branched Water-Soluble Polysaccharides. In MOLECULES, 2020, vol. 25, no. 13, pp. Dostupné na: <https://doi.org/10.3390/molecules25132982>., Registrované v: WOS
6. [1.1] LV, Mengxian - WANG, Miao - CAI, Weiwei - HAO, Wenxing - YUAN, Panhong - KANG, Zhen. Characterisation of separated end hyaluronan oligosaccharides from leech hyaluronidase and evaluation of angiogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 309-316., Registrované v: WOS
7. [1.1] MA, Xiaobin - WANG, Danli - CHEN, Weijun - ISMAIL, Balarabe Bilyaminu - WANG, Wenjun - LV, Ruiling - DING, Tian - YE, Xingqian - LIU, Donghong. Effects of ultrasound pretreatment on the enzymolysis of pectin: Kinetic study, structural characteristics and anti-cancer activity of the hydrolysates. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 79, no., pp. 90-99., Registrované v: WOS
8. [1.1] MIKSHINA, Polina V. - MAKSHAKOVA, Olga N. - PETROVA, Anna A. - GAIFULLINA, Ilzira Z. - IDIYATULLIN, Bulat Z. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Gelation of rhamnogalacturonan I is based on galactan side chain interaction and does not involve chemical modifications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 171, no., pp. 143-151., Registrované v: WOS

9. [1.1] MIKSHINA, P. V. - PETROVA, A. A. - FAIZULLIN, D. A. - ZUEV, Yu F. - GORSHKOVA, T. A. Tissue-specific rhamnogalacturonan I forms the gel with hyperelastic properties. In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2015, vol. 80, no. 7, pp. 915-924., Registrované v: WOS
10. [1.1] MLADENOVA, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalena. PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In COMPTEs RENDUS DE L ACADEMIE BULGARE DES SCIENCES. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
11. [1.1] MURAMATSU, Kazuaki - TAJIMA, Yuya - KANEKO, Rin - YANAGITA, Yuta - HIRAI, Hiroyuki - HIURA, Nana. Characterization of poly(L-glutamic acid)-grafted hyaluronan as a novel candidate medicine and biomedical device for intra-articular injection. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, 2017, vol. 105, no. 11, pp. 3006-3016., Registrované v: WOS
12. [1.1] NG, Hon-Meng - SIN, Lee Tin - BEE, Soo-Tueen - TEE, Tiam-Ting - RAHMAT, A. R. Evaluation of Microwave Activity on Starch-Based Nanocomposites Reinforced at Different Loading Fraction Organic-to-Inorganic Nanofillers. In POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING. ISSN 0360-2559, 2017, vol. 56, no. 10, pp. 1043-1058., Registrované v: WOS
13. [1.1] YUAN, Panhong - LV, Mengxian - JIN, Peng - WANG, Miao - DU, Guocheng - CHEN, Jian - KANG, Zhen. Enzymatic production of specifically distributed hyaluronan oligosaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 129, no., pp. 194-200., Registrované v: WOS
14. [1.2] ANANT, Bhoir Shraddha - PRITAMDAS, Chawla Surinder. Antioxidant and prebiotic properties of γ - radiation processed alginate. In Current Bioactive Compounds. ISSN 15734072, 2019-01-01, 15, 2, pp. 242-248., Registrované v: SCOPUS
15. [3.2] Mikshina, P.V.; Petrova, A.A.; Faizullin, D.A.; Zuev, Yu. F.; Gorshkova, T.A.: Rhamnogalacturonan I Forms a Gel with Hyperelastic Properties. In BIOCHEMISTRY (MOSCOW) Source: Биохимия, 2015, vol. 80, issue 7, p. 1088-1098., Registrované v: Russian Science Citation Index

ADCA89 BHUNIA, Anirban - SCHWARDT, Oliver - GÄTHJE, Heiko - GAO, Gan-Pan - KELM, Soerge - BENIE, Andrew J. - HRICOVÍNI, Miloš - PETERS, Thomas - ERNST, Beat. Consistent bioactive conformation of the Neu5Aca(2-3)Gal epitope upon lectin binding. In *Chembiochem : a European journal of chemical biology*, 2008, vol.9, p. 2941-2945. (2007: 3.446 - IF, Q1 - JCR, 2.048 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 1439-4227. Dostupné na: <https://doi.org/10.1002/cbic.200800458>

Ohlasy:

1. [1.1] CECIONI, Samy - IMBERTY, Anne - VIDAL, Sebastien. Glycomimetics versus Multivalent Glycoconjugates for the Design of High Affinity Lectin Ligands. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 1, pp. 525-561., Registrované v: WOS
2. [1.1] HAMARK, Christoffer - BERNTSSON, Ronnie P.A. - MASUYER, Geoffrey - HENRIKSSON, Linda M. - GUSTAFSSON, Robert -

STENMARK, Pal - WIDMALM, Goran. Glycans Confer Specificity to the Recognition of Ganglioside Receptors by Botulinum Neurotoxin A. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2017, vol. 139, no. 1, pp. 218-230., Registrované v: WOS

3. [1.1] MARCHETTI, Roberta - DILLON, Michael J. - BURTNICK, Mary N. - HUBBARD, Mark A. - KENFACK, Marielle Tamigney - BLERIOT, Yves - GAUTHIER, Charles - BRETT, Paul J. - AUCOIN, David P. - LANZETTA, Rosa - SILIPO, Alba - MOLINARO, Antonio. Burkholderia pseudomallei Capsular Polysaccharide Recognition by a Monoclonal Antibody Reveals Key Details toward a Biodefense Vaccine and Diagnostics against Melioidosis. In ACS CHEMICAL BIOLOGY. ISSN 1554-8929, 2015, vol. 10, no. 10, pp. 2295-2302., Registrované v: WOS

4. [1.1] MAYR, Juliane - LAU, Kam - LAI, Jimmy C. C. - GAGARINOV, Ivan A. - SHI, Yun - MCATAMNEY, Sarah - CHAN, Renee W. Y. - NICHOLLS, John - VON ITZSTEIN, Mark - HASELHORST, Thomas. Unravelling the Role of O-glycans in Influenza A Virus Infection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA90 BIBOLLET, Xavier - BOSC, Nathalie - MATULOVÁ, Mária - DELORT, Anne-Marie - GAUDET, Genevieve - FORANO, Evelyn. ¹³C and ¹H NMR study of cellulose metabolism by Fibrobacter succinogenes S85. In *Journal of Biotechnology*, 2000, vol. 77, p. 37-47. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(99\)00206-0](https://doi.org/10.1016/S0168-1656(99)00206-0)

Ohlasy:

1. [1.1] VANWONTERGHEM, Inka - JENSEN, Paul D. - RABAEY, Korneel - TYSON, Gene W. Temperature and solids retention time control microbial population dynamics and volatile fatty acid production in replicated anaerobic digesters. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS

2. [1.2] DOU, Sen - LI, Yan - GUAN, Song - GUO, Dan - ZHANG, Mingyang - JIN, Liang. The structural distinctiveness of humic substances and its formation mechanism in simulated incubation. In *Acta Pedologica Sinica*. ISSN 05643929, 2016-01-01, 53, 4, pp. 821-831., Registrované v: SCOPUS

ADCA91 BIELY, Peter - HIRSCH, Ján - LA GRANGE, Daniel C. - VAN ZYL, Willem H. A chromogenic substrate for a beta-xylosidase-coupled assay of alpha-glucuronidase. In *Analytical Biochemistry*, 2000, vol. 286, p. 289-294. ISSN 0003-2697. Dostupné na: <https://doi.org/10.1006/abio.2000.4810>

Ohlasy:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] MARCOLONGO, Loredana - LA CARA, Francesco - MORANA, Alessandra - DI SALLE, Anna - DEL MONACO, Giovanni - PAIXAO, Susana M. - ALVES, Luis - IONATA, Elena. Properties of an alkali-thermo stable xylanase from Geobacillus thermodenitrificans A333 and applicability in xylooligosaccharides generation. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2015, vol. 31, no.

4, pp. 633-648., Registrované v: WOS

3. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

4. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

ADCA92 BIELY, Peter - PULS, Jurgen - SCHNEIDER, Henry. Acetyl xylan esterases in fungal cellulolytic systems. In *FEBS Letters*, 1985, vol. 186, p. 80-84. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(85\)81343-0](https://doi.org/10.1016/0014-5793(85)81343-0)

Ohlasy:

1. [1.1] BECK, Greeley - THYBRING, Emil Englund - THYGESEN, Lisbeth Garbrecht. Brown-rot fungal degradation and de-acetylation of acetylated wood. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 135, no., pp. 62-70., Registrované v: WOS

2. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer *Trichoderma reesei*. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS

3. [1.1] CAMACHO-RUIZ, M. A. - CAMACHO-RUIZ, R. M. - ARMENDARIZ, M. - RAMIREZ-VELASCO, L. - ASAFF-TORRES, A. - LEVASSEUR, A. - MATEOS-DIAZ, J. C. - RODRIGUEZ, J. A. CORN BRAN AS POTENTIAL SUBSTRATE FOR HIGH PRODUCTION OF FERULOYL AND ACETYLYXYLAN ESTERASES BY SOLID STATE FERMENTATION. In *REVISTA MEXICANA DE INGENIERIA QUIMICA*. ISSN 1665-2738, 2016, vol. 15, no. 1, pp. 11-21., Registrované v: WOS

4. [1.1] COSCOLIN, Cristina - BARGIELA, Rafael - MARTINEZ-MARTINEZ, Monica - ALONSO, Sandra - BOLLINGER, Alexander - THIES, Stephan - CHERNIKOVA, Tatyana N. - HAI, Tran - GOLYSHINA, Olga V. - JAEGER, Karl-Erich - YAKIMOV, Michail M. - GOLYSHIN, Peter N. - FERRER, Manuel. Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. In *TAXONOMY, GENOMICS AND ECOPHYSIOLOGY OF HYDROCARBON-DEGRADING MICROBES*, 2019, vol., no., pp. 353-373. Dostupné na:

https://doi.org/10.1007/978-3-030-14796-9_13., Registrované v: WOS

5. [1.1] DO HUU NGHI - ULLRICH, Rene - MORITZ, Franco - LE MAI HUONG - VU DINH GIAP - DO HUU CHI - HOFRICHTER, Martin - LIERS, Christiane. The ascomycete *Xylaria polymorpha* produces an acetyl esterase that solubilises beech wood material to release water-soluble lignin fragments. In *JOURNAL OF THE KOREAN SOCIETY FOR APPLIED BIOLOGICAL CHEMISTRY*. ISSN 1738-2203, 2015, vol. 58, no. 3, pp. 415-421., Registrované v: WOS

6. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In *APPLIED AND*

ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS

7. [1.1] LEMES, Ailton Cesar - SILVERIO, Sara C. - RODRIGUES, Sueli - RODRIGUES, Ligia R. Integrated strategy for purification of esterase from *Aureobasidium pullulans*. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2019, vol. 209, no., pp. 409-418., Registrované v: WOS

8. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

9. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

10. [1.1] MANGAN, David - CORNAGGIA, Claudio - LIADOVA, Agnija - MCCORMACK, Niall - IVORY, Ruth - MCKIE, Vincent A. - ORMEROD, Aaron - MCCLEARY, Barry V. Novel substrates for the automated and manual assay of endo-1,4-beta-xylanase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 445, no., pp. 14-22., Registrované v: WOS

11. [1.1] MILLAR, Robert - RAHMANPOUR, Rahman - YUAN, Eugenie Wei Jia - WHITE, Catharine - BUGG, Timothy D. H. Esterase EstK from *Pseudomonas putida* mt-2: An enantioselective acetylerase with activity for deacetylation of xylan and poly(vinylacetate). In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2017, vol. 64, no. 6, pp. 803-809., Registrované v: WOS

12. [1.1] MONCLARO, Antonielle Vieira - RECALDE, Guilherme Lima - DA SILVA, Francides Gomes - DE FREITAS, Sonia Maria - FERREIRA FILHO, Edivaldo Ximenes. Xylanase from *Aspergillus tamarii* shows different kinetic parameters and substrate specificity in the presence of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 120, no., pp. 16-22., Registrované v: WOS

13. [1.1] MONGKORNTANYATIP, Karntichar - LIMSAKUL, Puangpen - RATANAKHANOKCHAI, Khanok - KHUNRAE, Pongsak. Overexpression and characterization of alkaliphilic *Bacillus firmus* strain K-1 xylanase. In Agriculture and Natural Resources. ISSN 2452316X, 2017-12-01, 51, 6, pp. 437-444., Registrované v: WOS

14. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of *Magnaporthe oryzae*. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS

15. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xyans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

16. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A.

- LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS
17. [1.1] SUN, Z. H. - HE, Z. X. - TAN, Z. L. - LIU, S. M. - ZHANG, Q. L. - HAN, X. F. - TANG, S. X. - ZHOU, C. S. - WANG, M. Effects of energy and protein restriction on digestion and absorption in the gastrointestinal tract of Liuyang Black kids. In *SMALL RUMINANT RESEARCH*. ISSN 0921-4488, 2017, vol. 154, no., pp. 13-19., Registrované v: WOS
18. [1.1] THYBRING, Emil Englund. Water relations in untreated and modified wood under brown-rot and white-rot decay. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2017, vol. 118, no., pp. 134-142., Registrované v: WOS
19. [1.1] TONG, Xiaoxue - LANGE, Lene - GRELL, Morten Nedergaard - BUSK, Peter Kamp. Hydrolysis of Wheat Arabinoxylan by Two Acetyl Xylan Esterases from *Chaetomium thermophilum*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 175, no. 2, pp. 1139-1152., Registrované v: WOS
20. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
21. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaelle - COLQUHOUN, Ian J. - COLLINS, Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
22. [1.1] YANG, Yi - YANG, Jinshui - LIU, Jiawen - WANG, Ruonan - LIU, Liang - WANG, Fengqin - YUAN, Hongli. The composition of accessory enzymes of *Penicillium chrysogenum* P33 revealed by secretome and synergistic effects with commercial cellulase on lignocellulose hydrolysis. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 54-61., Registrované v: WOS
23. [1.1] YANG, Yi - YANG, Jinshui - LI, Baozhen - WANG, Entao - YUAN, Hongli. An esterase from *Penicillium decumbens* P6 involved in lignite depolymerization. In *FUEL*. ISSN 0016-2361, 2018, vol. 214, no., pp. 416-422., Registrované v: WOS
24. [1.1] YANG, Yi - ZHU, Ning - YANG, Jinshui - LIN, Yujian - LIU, Jiawen - WANG, Ruonan - WANG, Fengqin - YUAN, Hongli. A novel bifunctional acetyl xylan esterase/arabinofuranosidase from *Penicillium chrysogenum* P33 enhances enzymatic hydrolysis of lignocellulose. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2017, vol. 16, no., pp., Registrované v: WOS
25. [1.1] ZHU, Ning - LIU, Jiawen - YANG, Jinshui - LIN, Yujian - YANG, Yi - JI, Lei - LI, Meng - YUAN, Hongli. Comparative analysis of the secretomes of *Schizophyllum commune* and other wood-decay basidiomycetes during solid-state fermentation reveals its unique lignocellulose-degrading

- enzyme system. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
26. [1.2] JAMRICOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetylcysteine CE16 from *Hypocrea Jecorina* Encoded by A Synthetic Gene and Expressed in *Escherichia coli* Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS
27. [1.2] NAZ, Sobia - IRFAN, Muhammad - FAROOQ, Muhammad Umar. Xylanase production from *Bacillus subtilis* in submerged fermentation using Box-Behnken design. In Pakistan Journal of Biotechnology. ISSN 18121837, 2017-01-01, 14, 2, pp. 151-156., Registrované v: SCOPUS
28. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA93 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomir - GREEN, R.V. - TENKANEN, Maija. Action of acetylxyloxy esterase from *Trichoderma reesei* on acetylated methyl glycosides. In *FEBS Letters*, 1997, vol. 420, p. 121-124. ISSN 1873-3468.

Ohlasy:

1. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer *Trichoderma reesei*. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
2. [1.1] STEPANOVA, Elena V. - BELYANIN, Maxim L. - FILIMONOV, Victor D. - VALIEV, Rashid R. - GRUNER, Margit - ROGACHEV, Victor. The first example of a one-step synthesis of 2'-O-acetyl aryl-D-glucopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 409, no., pp. 36-40., Registrované v: WOS
3. [1.1] WATANABE, Masahiro - FUKADA, Harumi - INOUE, Hiroyuki - ISHIKAWA, Kazuhiko. Crystal structure of an acetylase from *Talaromyces cellulolyticus* and the importance of a disulfide bond near the active site. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 11, pp. 1200-1206., Registrované v: WOS
4. [1.1] WATANABE, Masahiro - YOSHIDA, Erika - FUKADA, Hiroaki - INOUE, Hiroyuki - TOKURA, Mitsunori - ISHIKAWA, Kazuhiko. Characterization of a feruloyl esterase B from *Talaromyces cellulolyticus*. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2015, vol. 79, no. 11, pp. 1845-1851., Registrované v: WOS
5. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA94 BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl glycosides of

beta-D-xylopyranose and alfa-L-arabinofuranose. In *Journal of Biotechnology*, 2011, vol. 151, p. 137-142. (2010: 2.970 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2010.10.074>

Ohlasy:

1. [1.1] KRACUN, Stjepan Kresimir - SCHUCKEL, Julia - WESTERENG, Bjorge - THYGESEN, Lisbeth Garbrecht - MONRAD, Rune Nygaard - EIJSINK, Vincent G. H. - WILLATS, William George Tycho. A new generation of versatile chromogenic substrates for high-throughput analysis of biomass-degrading enzymes. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
3. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
4. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
5. [1.1] SCHUCKEL, Julia - KRACUN, Stjepan Kresimir - WILLATS, William G. T. High-throughput Screening of Carbohydrate-degrading Enzymes Using Novel Insoluble Chromogenic Substrate Assay Kits. In *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*. ISSN 1940-087X, 2016, vol., no. 115, pp., Registrované v: WOS
6. [1.1] SCHUCKEL, Julia - KRACUN, Stjepan Kresimir. Two-Dimensional High-Throughput Endo-Enzyme Screening Assays Based on Chromogenic Polysaccharide Hydrogel and Complex Biomass Substrates. In *CELLULASES: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2018, vol. 1796, no., pp. 201-217., Registrované v: WOS
7. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetylxylan esterase activities. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS
8. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp.

- Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
9. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of Escherichia coli Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
 10. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of Escherichia coli Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
 11. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling - WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In NATURE PLANTS. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS
 12. [1.2] JAMRICHOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetylesterase CE16 from Hypocrea Jecorina Encoded by A Synthetic Gene and Expressed in Escherichia coli Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS
 13. [1.2] POLIZELI, M. L.T.M. - VICI, A. C. - SCARCELLA, A. S.A. - CEREIA, M. - PEREIRA, M. G. Enzyme System from Aspergillus in Current Industrial Uses and Future Applications in the Production of Second-Generation Ethanol. In New and Future Developments in Microbial Biotechnology and Bioengineering: Aspergillus System Properties and Applications, 2016-08-05, pp. 127-140., Registrované v: SCOPUS
 14. [3.2] Yao Bingli; Zhang Jining; Lan Nana; Zhang Jianguo. Application of Aspergillus niger in biomass waste recycling utilization. In: Shengwu Jiagong Guocheng. ISSN: 1672-3678, 2019, Volume: 17 Issue: 4 Pages: 392-401

ADCA95 BIELY, Peter - AHLGREN, J.A. - LEATHERS, T.D. - GREEN, R.V. - COTTA, M.A. Aryl-glycosidase activities in germinating maize. In *Cereal Chemistry*, 2003, vol. 80, p. 144-147. ISSN 0009-0352.

Ohlasy:

1. [1.1] ARACELI GUZMAN-ORTIZ, Fabiola - CASTRO-ROSAS, Javier - ALBERTO GOMEZ-ALDAPA, Carlos - MORA-ESCOBEDO, Rosalva - ROJAS-LEON, Adriana - LUISA RODRIGUEZ-MARIN, Maria - NALLELY FALFAN-CORTES, Reyna - DELIA ROMAN-GUTIERREZ, Alma. Enzyme activity during germination of different cereals: A review. In FOOD REVIEWS INTERNATIONAL. ISSN 8755-9129, 2019, vol. 35, no. 3, pp. 177-200., Registrované v: WOS
2. [1.1] KOZLOVA, Liudmila V. - GORSHKOV, Oleg V. - MOKSHINA, Natalia E. - GORSHKOVA, Tatyana A. Differential expression of arabinofuranosidases during maize root elongation. In PLANTA. ISSN 0032-0935, 2015, vol. 241, no. 5, pp. 1159-1172., Registrované v: WOS

ADCA96 BIELY, Peter - MACKENZIE, Colin R. - PULS, Jorgen - SCHNEIDER, Henry. Cooperativity of esterases and xylanases in the enzymatic degradation of acetyl xylan. In *Biotechnology*, 1986, vol.4, p. 731-733. Dostupné na: <https://doi.org/10.1038/nbt0886-731>

Ohlasy:

1. [1.1] BETTACHE, Azzeddine - COPINET, Estelle - AZZOUZ, Zahra - BOUCHERBA, Nawel - BOUCHE, Cilia - HAMMA, Samir - MAIBECHE, Rima - DUCHIRON, Francis - BENALLAOUA, Said. PURIFICATION AND CHARACTERIZATION OF AN ENDOGLUCANASE PRODUCED FROM *Streptomyces* sp. STRAINBPNG23. In *JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES*. ISSN 1338-5178, 2020, vol. 10, no. 2, pp. 284-288. Dostupné na:

<https://doi.org/10.15414/jmbfs.2020.10.2.284-288>., Registrované v: WOS

2. [1.1] BI, Ran - BERGLUND, Jennie - VILAPLANA, Francisco - MCKEE, Lauren S. - HENRIKSSON, Gunnar. The degree of acetylation affects the microbial degradability of mannans. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2016, vol. 133, no., pp. 36-46., Registrované v: WOS

3. [1.1] BURGER, Marco - CHORY, Joanne. Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS

4. [1.1] CONWAY, Jonathan M. - ZURAWSKI, Jeffrey V. - LEE, Laura L. - BLUMER-SCHUETTE, Sara E. - KELLY, Robert M. Lignocellulosic Biomass Deconstruction by the Extremely Thermophilic Genus *Caldicellulosiruptor*. In *THERMOPHILIC MICROORGANISMS*, 2015, vol., no., pp. 91-119., Registrované v: WOS

5. [1.1] D'ESPOSITO, Daniela - CAPPETTA, Elisa - ANDOLFO, Giuseppe - FERRIELLO, Francesca - BORGONUOVO, Camilla - CARUSO, Gianluca - DE NATALE, Antonino - FRUSCIANTE, Luigi - ERCOLANO, Maria Raffaella. Deciphering the biological processes underlying tomato biomass production and composition. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2019, vol. 143, no., pp. 50-60., Registrované v: WOS

6. [1.1] HETTIARACHCHI, Sachithra Amarin - KWON, Young-Kyung - LEE, Youngdeuk - JO, Eunyoung - EOM, Tae-Yang - KANG, Yoon-Hyeok - KANG, Do-Hyung - DE ZOYSA, Mahanama - MARASINGHE, Svinil Dileepa - OH, Chulhong. Characterization of an acetyl xylan esterase from the marine bacterium *Ochrovirga pacifica* and its synergism with xylanase on beechwood xylan. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS

7. [1.1] KLOTH, Karen J. - ABREU, Ilka N. - DELHOMME, Nicolas - PETRIK, Ivan - VILLARD, Cloe - STROM, Cecilia - AMINI, Fariba - NOVAK, Ondrej - MORITZ, Thomas - ALBRECHTSEN, Benedicte R. PECTIN ACETYLESTERASE9 Affects the Transcriptome and Metabolome and Delays Aphid Feeding(1)([OPEN]). In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2019, vol. 181, no. 4, pp. 1704-1720., Registrované v: WOS

8. [1.1] KMEZIK, Cathleen - BONZOM, Cyrielle - OLSSON, Lisbeth - MAZURKEWICH, Scott - LARSBRINK, Johan. Multimodular fused acetyl-feruloyl esterases from soil and gut *Bacteroidetes* improve xylanase

- depolymerization of recalcitrant biomass. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01698-9>., Registrované v: WOS
9. [1.1] LARSKAYA, Irina - GORSHKOV, Oleg - MOKSHINA, Natalia - TROFIMOVA, Oksana - MIKSHINA, Polina - KLEPIKOVA, Anna - GOGOLEVA, Natalia - GORSHKOVA, Tatyana. Stimulation of adventitious root formation by the oligosaccharin OSRG at the transcriptome level. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, 2020, vol. 15, no. 1, pp. Dostupné na: <https://doi.org/10.1080/15592324.2019.1703503>., Registrované v: WOS
10. [1.1] MANAVALAN, Tamilvendan - LIU, Rui - ZHOU, Zhihua - ZOU, Gen. Optimization of acetyl xylan esterase gene expression in *Trichoderma reesei* and its application to improve the saccharification efficiency on different biomasses. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 160-166., Registrované v: WOS
11. [1.1] MARRIOTT, Poppy E. - GOMEZ, Leonardo D. - MCQUEEN-MASON, Simon J. Unlocking the potential of lignocellulosic biomass through plant science. In NEW PHYTOLOGIST. ISSN 0028-646X, 2016, vol. 209, no. 4, pp. 1366-1381., Registrované v: WOS
12. [1.1] MUNIR, Riffat - LEVIN, David B. Enzyme Systems of Anaerobes for Biomass Conversion. In ANAEROBES IN BIOTECHNOLOGY. ISSN 0724-6145, 2016, vol. 156, no., pp. 113-138., Registrované v: WOS
13. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS
14. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
15. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GANDLA, Madhavi Latha - BASHAR, Shamrat Shafiul - SPARRMAN, Tobias - AHVENAINEN, Patrik - HEDENSTROM, Mattias - OZPARPUCU, Merve - RUGGEBERG, Markus - SERIMAA, Ritva - LAWOKO, Martin - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. In muro deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
16. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
17. [1.1] SEO, Hyeongmin - NICELY, Preston N. - TRINH, Cong T. Endogenous carbohydrate esterases of *Clostridium thermocellum* are identified and disrupted for enhanced isobutyl acetate production from cellulose. In

BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2020, vol. 117, no. 7, pp. 2223-2236. Dostupné na: <https://doi.org/10.1002/bit.27360.>,

Registrované v: WOS

18. [1.1] SHRADHDHA, Sharma - MURTY, Duggirala Srinivas.

Production of Lignolytic and Cellulolytic Enzymes by using Basidiomycetes Fungi in the Solid State Fermentation of Different Agro-Residues. In

RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2020, vol. 15, no. 9, pp. 10-17., Registrované v: WOS

19. [1.1] SCHULTINK, Alex - NAYLOR, Dan - DAMA, Murali -

PAULY, Markus. The Role of the Plant-Specific ALTERED XYLOGLUCAN9 Protein in Arabidopsis Cell Wall Polysaccharide O-Acetylation. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 167, no. 4, pp. 1271-U243.,

Registrované v: WOS

20. [1.1] SUN, Xiao-Feng - JING, Zhanxin - WANG, Haihong - LIU,

Yuyang. Physical-Chemical Properties of Xylan/PAAc Magnetic Semi-Interpenetrating Network Hydrogel. In POLYMER COMPOSITES. ISSN 0272-8397, 2015, vol. 36, no. 12, pp. 2317-2325., Registrované v: WOS

21. [1.1] TONG, Xiaoxue - LANGE, Lene - GRELL, Morten Nedergaard - BUSK, Peter Kamp. Hydrolysis of Wheat Arabinoxylan by Two Acetyl Xylan Esterases from Chaetomium thermophilum. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 2, pp. 1139-1152., Registrované v: WOS

22. [1.1] WANG, Cheng - DONG, Da - WANG, Haoshu - MUELLER, Karin - QIN, Yong - WANG, Hailong - WU, Weixiang. Metagenomic analysis of microbial consortia enriched from compost: new insights into the role of Actinobacteria in lignocellulose decomposition. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

23. [1.1] WANG, Long - DENG, Dongsheng - SKOCH, Karel - DANILIUC, Constantin G. - KEHR, Gerald - ERKER, Gerhard. Macrocyclic Formation by Cooperative Selection at a Double-Sited Frustrated Lewis Pair. In ORGANOMETALLICS. ISSN 0276-7333, 2019, vol. 38, no. 9, pp. 1897-1902., Registrované v: WOS

24. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380.>, Registrované v: WOS

25. [1.1] WIERZBICKI, Martin P. - CHRISTIE, Nanette - PINARD, Desre - MANSFIELD, Shawn D. - MIZRACHI, Eshchar - MYBURG, Alexander A. A systems genetics analysis in Eucalyptus reveals coordination of metabolic pathways associated with xylan modification in wood-forming tissues. In NEW PHYTOLOGIST. ISSN 0028-646X, 2019, vol. 223, no. 4, pp. 1952-1972., Registrované v: WOS

26. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase from Aspergillus niger BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS

27. [1.1] ZDOROVENKO, Evelina L. - SHASHKOV, Alexander S. - ZHURINA, Marina V. - PLAKUNOV, Vladimir K. - KNIREL, Yuriy A. Structure of the O-specific polysaccharides from planktonic and biofilm cultures of *Pseudomonas chlororaphis* 449. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 404, no., pp. 93-97., Registrované v: WOS
28. [1.2] CHEN, Yang Lei - JI, Xing Xiang - XU, Feng. Technical Progress in Xylanase Bio-bleaching of Pulp. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2017-12-01, 36, 12, pp. 74-78., Registrované v: SCOPUS
29. [1.2] LEŠČIĆ AŠLER, Ivana - PEHAREC ŠTEFANIĆ, Petra - BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN, Martina - KOJIĆ-PRODIĆ, Biserka. Horseradish esterases: detection, purification and identification. In Plant Cell, Tissue and Organ Culture. ISSN 01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS
30. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
31. [1.2] WERTZ, Jean Luc - DELEU, Magali - COPPÉE, Séverine - RICHEL, Aurore. Hemicelluloses and lignin in biorefineries. In Hemicelluloses and Lignin in Biorefineries, 2017-01-01, pp. 1-308., Registrované v: SCOPUS

ADCA97 BIELY, Peter - MASTIHUBOVÁ, Mária - VAN ZYL, W.H. - PRIOR, B.A. Differentiation of feruloyl esterases on synthetic substrates in alfa-arabinofuranosidase-coupled and ultraviolet-spectrophotometric assays. In *Analytical Biochemistry*, 2002, vol.311, p. 68-75. ISSN 0003-2697. Dostupné na: [https://doi.org/10.1016/S0003-2697\(02\)00401-3](https://doi.org/10.1016/S0003-2697(02)00401-3)

Ohlasy:

1. [1.1] CAVAZZINI, Davide - GROSSI, Guido - LEVATI, Elisabetta - VALLESE, Francesca - MONTANINI, Barbara - BOLCHI, Angelo - ZANOTTI, Giuseppe - OTTONELLO, Simone. A family of archaea-like carboxylesterases preferentially expressed in the symbiotic phase of the mycorrhizal fungus *Tuber melanosporum*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] GHERBOVET, Olga - FAURE, Regis - FERREIRA, Fernando - DURAND, Julien - RAGON, Melanie - HOSTYN, Guillaume - RECORD, Eric - BOZONNET, Sophie - O'DONOHUE, Michael J. Design of chromogenic probes for efficient screening and evaluation of feruloyl esterase-like activities. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 126, no., pp. 24-31., Registrované v: WOS
3. [1.1] HUANG, Sheng-Yu - WEI, Tin-Yu - LIU, Bing-Shin - LIN, Min-Han - CHIANG, Sheng-Kuo - CHEN, Sung-Fang - SUNG, Wang-Chou. Monitoring the Disulfide Bonds of Folding Isomers of Synthetic CTX A3 Polypeptide Using MS-Based Technology. In TOXINS. ISSN 2072-6651, 2019, vol. 11, no. 1, pp., Registrované v: WOS
4. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované

v: WOS

5. [1.1] OHLHOFF, Colin W. - KIRBY, Bronwyn M. - VAN ZYL, Leonardo - MUTEPFA, David L. R. - CASANUEVA, Ana - HUDDY, Robert J. - BAUER, Rolene - COWAN, Don A. - TUFFIN, Marla. An unusual feruloyl esterase belonging to family VIII esterases and displaying a broad substrate range. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 118, no., pp. 79-88., Registrované v: WOS
6. [1.1] RAMIREZ-VELASCO, Lorena - ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MUELLER-SANTOS, Marcelo - ASAFF-TORRES, Ali - CARLOS MATEOS-DIAZ, Juan. From Classical to High Throughput Screening Methods for Feruloyl Esterases: A Review. In COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING. ISSN 1386-2073, 2016, vol. 19, no. 8, pp. 616-626., Registrované v: WOS
7. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
8. [3.2] Yao Bingli; Zhang Jining; Lan Nana; Zhang Jianguo. Application of Aspergillus niger in biomass waste recycling utilization. In: Shengwu Jiagong Guocheng. ISSN: 1672-3678, 2019, Volume: 17 Issue: 4 Pages: 392-401

ADCA98 BIELY, Peter - KRÁTKY, Zdeno - KOVAŘÍK, J. - BAUER, Štefan. Effect of 2-deoxyglucose on cell wall formation in *Saccharomyces cerevisiae* and its relation to cell growth inhibition. In *Journal of Bacteriology*, 1971, vol. 107, p. 121-129. ISSN 0021-9193.

Ohlasy:

1. [1.1] DEFENOUILLE, Quentin - VERRAES, Agathe - LAUSSEL, Clotilde - FRIEDRICH, Anne - SCHACHERER, Joseph - LEON, Sebastien. The induction of HAD-like phosphatases by multiple signaling pathways confers resistance to the metabolic inhibitor 2-deoxyglucose. In SCIENCE SIGNALING. ISSN 1945-0877, 2019, vol. 12, no. 597, pp., Registrované v: WOS
2. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS
3. [1.1] LI, Jinyun - TRIVEDI, Pankaj - WANG, Nian. Field Evaluation of Plant Defense Inducers for the Control of Citrus Huanglongbing. In PHYTOPATHOLOGY. ISSN 0031-949X, 2016, vol. 106, no. 1, pp. 37-46., Registrované v: WOS
4. [1.1] VISHWANATHA, Akshay - RALLIS, Charalampos - SUBRAMANYASWAMY, Shubha Bevkall - D'SOUZA, Cletus Joseph Michael - BAHLER, Jurg - SCHWEINGRUBER, Martin Ernst. Identification of nuclear genes affecting 2-Deoxyglucose resistance in *Schizosaccharomyces pombe*. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2016, vol. 16, no. 6, pp., Registrované v: WOS
5. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. Genes Controlling 2-deoxyglucose Induced

Lysis and Formation of Reactive Oxygen Species in *Schizosaccharomyces pombe*. In *POLISH JOURNAL OF MICROBIOLOGY*. ISSN 1733-1331, 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS

6. [1.1] ZHANG, Ning - FAN, Yuxuan - LI, Chen - WANG, Qiming - LEKSAWASDI, Noppol - LI, Fuli - WANG, Shi'an. Cell permeability and nuclear DNA staining by propidium iodide in basidiomycetous yeasts. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4183-4191., Registrované v: WOS

ADCA99 BIELY, Peter - LEATHERS, T.D. - CZISZÁROVÁ, Mária - VRŠANSKÁ, Mária - COTTA, M.A. Endo-beta-1,4-xylanase inhibitors in leaves and roots of germinated maize. In *Journal of Cereal Science*, 2008, vol.47, p. 27-32. (2007: 1.905 - IF, Q1 - JCR, 1.108 - SJR, Q1 - SJR). ISSN 0733-5210. Dostupné na: <https://doi.org/10.1016/j.jcs.2007.07.009>

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ, E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In *MYCOSPHERE*. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS

2. [1.1] EL ENSHASY, Hesham Ali - KANDIYIL, Subeesh Kunhi - MALEK, Roslinda - OTHMAN, Nor Zalina. Microbial Xylanases: Sources, Types, and Their Applications. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 151-213., Registrované v: WOS

3. [1.1] GARG, Sarika. Xylanase: Applications in Biofuel Production. In *CURRENT METABOLOMICS*. ISSN 2213-235X, 2016, vol. 4, no. 1, pp. 23-37., Registrované v: WOS

4. [1.2] LI, Ting - WU, Cheng Cheng - LI, Bao Hua - LIAN, Sen - LIANG, Wen Xing - WANG, Cai Xia. Molecular cloning and expression analysis of XEGIP in *Malus pumila*. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2018-07-20, 54, 7, pp. 1245-1252., Registrované v: SCOPUS

5. [1.2] WANG, Qi Ran - WU, Ju Xiang - ZHANG, Ru Qin - CHI, Yu Cheng - XU, Man Lin - XIA, Shu Chun - YAN, Hong Hai. Analysis of cell wall degrading enzymes secreted by *Rhizoctonia solani* and its pathogenicity. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2016-03-20, 52, 3, pp. 269-276., Registrované v: SCOPUS

ADCA100 BIELY, Peter - VRŠANSKÁ, Mária - TENKANEN, M. - KLUEPFEL, D. Endo-beta-1,4-xylanase families: difference in catalytic properties. In *Journal of Biotechnology*, 1997, vol. 57, p. 151-166. ISSN 0168-1656.

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, Jorge - DIAZ-GODINEZ, Gerardo - MERCADO-FLORES, Yuridia - GUPTA, Vijai Kumar - ANDUCHO-REYES, Miguel Angel. Phylogenetic analysis of beta-xylanase SRXL1 of *Sporisorium reilianum* and its relationship with families (GH10 and GH11) of Ascomycetes and Basidiomycetes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

2. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ,

- E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In MYCOSPHERE. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS
3. [1.1] CUI, Shixiu - WANG, Tianwen - HU, Hong - LIU, Liangwei - SONG, Andong - CHEN, Hongge. Investigating the expression of F10 and G11 xylanases in *Aspergillus niger* A09 with qPCR. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2016, vol. 62, no. 9, pp. 744-752., Registrované v: WOS
4. [1.1] DUNNE, Jonathan C. - KELLY, William J. - LEAHY, Sinead C. - LI, Dong - BOND, Judy J. - PENG, Lifeng - ATTWOOD, Graeme T. - JORDAN, T. William. The Cytosolic Oligosaccharide-Degrading Proteome of *Butyrivibrio Proteoclasticus*. In PROTEOMES. ISSN 2227-7382, 2015, vol. 3, no. 4, pp., Registrované v: WOS
5. [1.1] FINORE, Ilaria - POLI, Annarita - DI DONATO, Paola - LAMA, Licia - TRINCONE, Antonio - FAGNANO, Massimo - MORI, Mauro - NICOLAUS, Barbara - TRAMICE, Annabella. The hemicellulose extract from *Cynara cardunculus*: a source of value-added biomolecules produced by xylanolytic thermozymes. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 8, pp. 2460-2472., Registrované v: WOS
6. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
7. [1.1] GENEROSO, Wesley Cardoso - MALAGO-, Wilson - PEREIRA-, Nei - HENRIQUE-SILVA, Flavio. Triggering the Expression of Cellulolytic Genes Using a Recombinant Endoxylanase from *Trichoderma harzianum* IOC-3844. In BIOENERGY RESEARCH. ISSN 1939-1234, 2016, vol. 9, no. 3, pp. 931-941., Registrované v: WOS
8. [1.1] GONG, Weili - ZHANG, Huaiqiang - TIAN, Li - LIU, Shijia - WU, Xiuyun - LI, Fuli - WANG, Lushan. Determination of the modes of action and synergies of xylanases by analysis of xylooligosaccharide profiles over time using fluorescence-assisted carbohydrate electrophoresis. In ELECTROPHORESIS. ISSN 0173-0835, 2016, vol. 37, no. 12, pp. 1640-1650., Registrované v: WOS
9. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian *Argania spinosa*. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS
10. [1.1] CHAKDAR, Hillol - KUMAR, Murugan - PANDIYAN, Kuppusamy - SINGH, Arjun - NANJAPPAN, Karthikeyan - KASHYAP, Prem Lal - SRIVASTAVA, Alok Kumar. Bacterial xylanases: biology to biotechnology. In 3 BIOTECH. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS
11. [1.1] KO, Ja Kyong - KO, Hyeokjin - KIM, Kyoung Heon - CHOI,

- In-Geol. Characterization of the biochemical properties of recombinant Xyn10C from a marine bacterium, *Saccharophagus degradans* 2-40. In **BIOPROCESS AND BIOSYSTEMS ENGINEERING**. ISSN 1615-7591, 2016, vol. 39, no. 4, pp. 677-684., Registrované v: WOS
12. [1.1] LI, Hailong - XUE, Yong - WU, Jinlian - WU, Hongli - QIN, Guanghui - LI, Chengguo - DING, Jiajia - LIU, Jian - GAN, Lihui - LONG, Minnan. Enzymatic hydrolysis of hemicelluloses from *Miscanthus* to monosaccharides or xylo-oligosaccharides by recombinant hemicellulases. In **INDUSTRIAL CROPS AND PRODUCTS**. ISSN 0926-6690, 2016, vol. 79, no., pp. 170-179., Registrované v: WOS
13. [1.1] MAITAN-ALFENAS, Gabriela P. - OLIVEIRA, Mariana B. - NAGEM, Ronaldo A. P. - DE VRIES, Ronald P. - GUIMARAES, Valeria M. Characterization and biotechnological application of recombinant xylanases from *Aspergillus nidulans*. In **INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES**. ISSN 0141-8130, 2016, vol. 91, no., pp. 60-67., Registrované v: WOS
14. [1.1] MATSUZAWA, Tomohiko - KANEKO, Satoshi - YAOI, Katsuro. Improvement of thermostability and activity of *Trichoderma reesei* endo-xylanase Xyn III on insoluble substrates. In **APPLIED MICROBIOLOGY AND BIOTECHNOLOGY**. ISSN 0175-7598, 2016, vol. 100, no. 18, pp. 8043-8051., Registrované v: WOS
15. [1.1] MCKEE, Lauren S. - SUNNER, Hampus - ANASONTZIS, George E. - TORIZ, Guillermo - GATENHOLM, Paul - BULONE, Vincent - VILAPLANA, Francisco - OLSSON, Lisbeth. A GH115 alpha-glucuronidase from *Schizophyllum commune* contributes to the synergistic enzymatic deconstruction of softwood glucuronoarabinoxylan. In **BIOTECHNOLOGY FOR BIOFUELS**. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
16. [1.1] NAKAZAWA, Hikaru - KAWAI, Tetsushi - IDA, Noriko - SHIDA, Yosuke - SHIOYA, Kouki - KOBAYASHI, Yoshinori - OKADA, Hirofumi - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - OGASAWARA, Wataru. A high performance *Trichoderma reesei* strain that reveals the importance of xylanase III in cellulosic biomass conversion. In **ENZYME AND MICROBIAL TECHNOLOGY**. ISSN 0141-0229, 2016, vol. 82, no., pp. 89-95., Registrované v: WOS
17. [1.1] RATNADEWI, Anak Agung Istri - HANDAYANI, Wuryanti - OKTAVIANAWATI, Ika - SANTOSO, Agung Budi - PUSPANINGSIH, Ni Nyoman Tri. Isolation And Hydrolysis Xylan From Soybean Waste With Endo-beta-1,4-D-Xylanase Of *Bacillus* sp From Soil Termite Abdomen. In **INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND NATURAL RESOURCES, IC-FANRES 2015**. ISSN 2210-7843, 2016, vol. 9, no., pp. 371-377., Registrované v: WOS
18. [1.1] RATNADEWI, Anak Agung Istri - SANTOSO, Agung Budi - SULISTYANINGSIH, Erma - HANDAYANI, Wuryanti. Application of Cassava Peel and Waste as Raw Materials for Xylooligosaccharide Production using Endoxylanase from *Bacillus subtilis* of Soil Termite Abdomen. In **MOLECULAR AND CELLULAR LIFE SCIENCES: INFECTIOUS DISEASES, BIOCHEMISTRY AND STRUCTURAL BIOLOGY 2015 CONFERENCE**. ISSN 1876-6196, 2016, vol. 18, no., pp. 31-38., Registrované v: WOS
19. [1.1] RHEE, Mun Su - WEI, Lusha - SAWHNEY, Neha - KIM,

- Young Sik - RICE, John D. - PRESTON, James F. Metabolic potential of *Bacillus subtilis* 168 for the direct conversion of xylans to fermentation products. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 3, pp. 1501-1510., Registrované v: WOS
20. [1.1] SEPTININGRUM, Krisna - OHI, Hiroshi - NAKAGAWA-IZUMI, Akiko - KOSUGI, Akihiko. Characterization of Hexenuronosyl Xylan-degrading Enzymes Produced by *Paenibacillus* sp 07. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 1, pp. 2756-2767., Registrované v: WOS
21. [1.1] TRAMONTINA, Robson - ROBL, Diogo - MAITAN-ALFENAS, Gabriela Piccolo - DE VRIES, Ronald P. Cooperation of *Aspergillus nidulans* enzymes increases plant polysaccharide saccharification. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2016, vol. 11, no. 7, pp. 988-992., Registrované v: WOS
22. [1.1] VALLS, Adria - DIAZ, Pilar - JAVIER PASTOR, F. I. - VALENZUELA, Susana V. A newly discovered arabinoxylan-specific arabinofuranohydrolase. Synergistic action with xylanases from different glycosyl hydrolase families. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 4, pp. 1743-1751., Registrované v: WOS
23. [1.1] WAHAB, Mohd Khairul Hakimi bin Abdul - BIN JONET, Mohd Anuar - ILLIAS, Rosli Md. Thermostability enhancement of xylanase *Aspergillus fumigatus* RT-1. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 134, no., pp. 154-163., Registrované v: WOS
24. [1.1] WEI, Lusha - RHEE, Mun Su - PRESTON, James F. - CHEN, Hui. Production of acidic xylooligosaccharides from methylglucuronarabinoxylans by *Bacillus subtilis* strain MR44. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2016, vol. 91, no. 7, pp. 2056-2062., Registrované v: WOS
25. [1.1] ZHANG, Qinghua - LI, Hanguang - ZHU, Xiangdong - LAI, Fenju - ZHAI, Zhijun - WANG, Yuanxiu. Exploration of the key functional proteins from an efficient cellulolytic microbial consortium using dilution-to-extinction approach. In *JOURNAL OF ENVIRONMENTAL SCIENCES*. ISSN 1001-0742, 2016, vol. 43, no., pp. 199-207., Registrované v: WOS
26. [1.1] ZHANG, Zhengxiao - SMITH, Christopher - LI, Weili - ASHWORTH, Jason. Characterization of Nitric Oxide Modulatory Activities of Alkaline-Extracted and Enzymatic-Modified Arabinoxylans from Corn Bran in Cultured Human Monocytes. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2016, vol. 64, no. 43, pp. 8128-8137., Registrované v: WOS
27. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from *Scheffersomyces stipitis*. In *Industrial Biotechnology*. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS
28. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In *New and Future Developments in Microbial Biotechnology and Bioengineering:*

Aspergillus System Properties and Applications, 2016-08-05, pp. 171-190.,
Registrované v: SCOPUS

29. [1.2] MALUNGA, Lovemore Nkhata - BETA, Trust. Isolation and identification of feruloylated arabinoxylan mono- and oligosaccharides from undigested and digested maize and wheat. In *Heliyon*. ISSN 24058440, 2016-05-01, 2, 5, pp., Registrované v: SCOPUS

ADCA101 BIELY, Peter - VRŠANSKÁ, Mária - TENKANEN, M. - KLUEPFEL, Dieter. Endo-beta-1,4-xylanase families: differences in catalytic properties. In *Journal of Biotechnology*, 1997, vol. 57, p. 151-166. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(97\)00096-5](https://doi.org/10.1016/S0168-1656(97)00096-5)

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, Jorge - DIAZ-GODINEZ, Gerardo - MERCADO-FLORES, Yuridia - GUPTA, Vijai Kumar - ANDUCHO-REYES, Miguel Angel. Phylogenetic analysis of beta-xylanase SRXL1 of *Sporisorium reilianum* and its relationship with families (GH10 and GH11) of Ascomycetes and Basidiomycetes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

2. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ, E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In *MYCOSPHERE*. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS

3. [1.1] ANG, S. K. - YAHYA, Adibah - ABD AZIZ, Suraini - SALLEH, Madihah Md. Isolation, Screening, and Identification of Potential Cellulolytic and Xylanolytic Producers for Biodegradation of Untreated Oil Palm Trunk and Its Application in Saccharification of Lemongrass Leaves. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2015, vol. 45, no. 3, pp. 279-305., Registrované v: WOS

4. [1.1] ARONSSON, Anna - GULER, Fatma - PETOUKHOV, Maxim V. - CRENNELL, Susan J. - SVERGUN, Dmitri I. - LINARES-PASTEN, Javier A. - KARLSSON, Eva Nordberg. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2018, vol. 1866, no. 2, pp. 292-306., Registrované v: WOS

5. [1.1] BAI, Wenqin - XUE, Yanfen - ZHOU, Cheng - MA, Yanhe. Cloning, expression, and characterization of a novel alkali-tolerant xylanase from alkaliphilic *Bacillus* sp SN5. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2015, vol. 62, no. 2, pp. 208-217., Registrované v: WOS

6. [1.1] BHARDWAJ, Nisha - KUMAR, Bikash - VERMA, Pradeep. A detailed overview of xylanases: an emerging biomolecule for current and future prospective. In *BIORESOURCES AND BIOPROCESSING*, 2019, vol. 6, no. 1, pp., Registrované v: WOS

7. [1.1] BLAKE, Andrew D. - BERI, Nina R. - GUTTMAN, Hadassa S. - CHENG, Raymond - GARDNER, Jeffrey G. The complex physiology of *Cellvibrio japonicus* xylan degradation relies on a single cytoplasmic xylosidase for xylo-oligosaccharide utilization. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2018, vol. 107, no. 5, pp. 610-622., Registrované v: WOS

8. [1.1] BOTTO, Emiliana - GIOIA, Larissa - DEL PILAR MENENDEZ, Maria - RODRIGUEZ, Paula. Pseudozyma sp. isolation from Eucalyptus leaves and its hydrolytic activity over xylan. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 21, no., pp., Registrované v: WOS
9. [1.1] BRUSA, C. - BELLOY, N. - GERARD, D. - MUZARD, M. - DAUCHEZ, M. - PLANTIER-ROYON, R. - REMOND, C. Exploring the aglycone subsite of a GH11 xylanase for the synthesis of xylosides by transglycosylation reactions. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 272, no., pp. 56-63., Registrované v: WOS
10. [1.1] CONEJO-SAUCEDO, Ulises - CANO-CAMACHO, Horacio - VILLA-RIVERA, Maria G. - LARA-MARQUEZ, Alicia - LOPEZ-ROMERO, Everardo - ZAVALA-PARAMO, Maria G. Protein homology modeling, docking, and phylogenetic analyses of an endo-1,4-beta-xylanase GH11 of Colletotrichum lindemuthianum. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2017, vol. 16, no. 6, pp. 577-591., Registrované v: WOS
11. [1.1] CUI, Shixiu - WANG, Tianwen - HU, Hong - LIU, Liangwei - SONG, Andong - CHEN, Hongge. Investigating the expression of F10 and G11 xylanases in Aspergillus niger A09 with qPCR. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2016, vol. 62, no. 9, pp. 744-752., Registrované v: WOS
12. [1.1] DE QUEIROZ BRITO CUNHA, Carolina Candida - GAMA, Aline Rodrigues - CINTRA, Lorena Cardoso - MENDES BATAUS, Luiz Artur - ULHOA, Cirano Jose. Improvement of bread making quality by supplementation with a recombinant xylanase produced by Pichia pastoris. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS
13. [1.1] DE SOUZA MOREIRA, Leonora Rios - MORALES ALVARES, Alice da Cunha - DA SILVA, Francides Gomes - DE FREITAS, Sonia Maria - FERREIRA FILHO, Edivaldo Ximenes. Xylan-degrading enzymes from Aspergillus terreus: Physicochemical features and functional studies on hydrolysis of cellulose pulp. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 134, no., pp. 700-708., Registrované v: WOS
14. [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
15. [1.1] DING, Sai-sai - ZHU, Jin-peng - WANG, Yang - WU, Bin - ZHAO, Zongpei. Immobilization of the extracellular recombinant Lucky9 xylanase from Bacillus subtilis enhances activity at high temperature and pH. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 12, pp. 2733-2739. Dostupné na: <https://doi.org/10.1002/2211-5463.13010>., Registrované v: WOS
16. [1.1] DOTSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS
17. [1.1] DUNNE, Jonathan C. - KELLY, William J. - LEAHY, Sinead C. - LI, Dong - BOND, Judy J. - PENG, Lifeng - ATTWOOD, Graeme T. - JORDAN, T. William. The Cytosolic Oligosaccharide-Degrading Proteome of Butyrivibrio Proteoclasticus. In PROTEOMES. ISSN 2227-7382, 2015, vol. 3,

no. 4, pp., Registrované v: WOS

18. [1.1] ECHEVERRIA, Valentina - EYZAGUIRRE, Jaime. *Penicillium purpurogenum* Produces a Set of Endoxylanases: Identification, Heterologous Expression, and Characterization of a Fourth Xylanase, XynD, a Novel Enzyme Belonging to Glycoside Hydrolase Family 10. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2019, vol. 187, no. 1, pp.

298-309., Registrované v: WOS

19. [1.1] ENJALBERT, Thomas - DE LA MARE, Marion - ROBLIN, Pierre - BADRUNA, Louise - VERNET, Thierry - DUMON, Claire - MONTANIER, Cedric Y. Characterisation of the Effect of the Spatial Organisation of Hemicellulases on the Hydrolysis of Plant Biomass Polymer. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 12, pp. Dostupné na: <https://doi.org/10.3390/ijms21124360>., Registrované v: WOS

20. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS

21. [1.1] FINORE, Ilaria - POLI, Annarita - DI DONATO, Paola - LAMA, Licia - TRINCONE, Antonio - FAGNANO, Massimo - MORI, Mauro - NICOLAUS, Barbara - TRAMICE, Annabella. The hemicellulose extract from *Cynara cardunculus*: a source of value-added biomolecules produced by xylanolytic thermozymes. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2016, vol. 18, no. 8, pp. 2460-2472., Registrované v: WOS

22. [1.1] FOUQUET, Thierry - SATO, Hiroaki - NAKAMICHI, Yusuke - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Electrospray multistage mass spectrometry in the negative ion mode for the unambiguous molecular and structural characterization of acidic hydrolysates from 4-O-methylglucuronoxylan generated by endoxylanases. In *JOURNAL OF MASS SPECTROMETRY*. ISSN 1076-5174, 2019, vol. 54, no. 3, pp. 213-221., Registrované v: WOS

23. [1.1] FUSHAI, F. - TEKERE, M. - MASAFU, M. - AKINSOLA, C. M. - SIEBRITS, F. - NHERERA-CHOKUDA, F. - KANENGONI, A. T. Co-products in maize-soybean growing-pig diets altered in vitro enzymatic insoluble fibre hydrolysis and fermentation in relation to botanical origin. In *SOUTH AFRICAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0375-1589, 2019, vol. 49, no. 2, pp. 201-218., Registrované v: WOS

24. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS

25. [1.1] GENEROSO, Wesley Cardoso - MALAGO-, Wilson - PEREIRA-, Nei - HENRIQUE-SILVA, Flavio. Triggering the Expression of Cellulolytic Genes Using a Recombinant Endoxylanase from *Trichoderma*

- harzianum IOC-3844. In BIOENERGY RESEARCH. ISSN 1939-1234, 2016, vol. 9, no. 3, pp. 931-941., Registrované v: WOS
26. [1.1] GOMES, Kamila de Sousa - MAITAN-ALFENAS, Gabriela P. - DE ANDRADE, Lorena G. A. - FALKOSKI, Daniel Luciano - GUIMARES, Valeria Monteze - ALFENAS, Acelino C. - DE REZENDE, Sebastiao Tavares. Purification and Characterization of Xylanases from the Fungus *Chrysosporthe cubensis* for Production of Xylooligosaccharides and Fermentable Sugars. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 2, pp. 818-830., Registrované v: WOS
27. [1.1] GONG, Weili - ZHANG, Huaiqiang - TIAN, Li - LIU, Shijia - WU, Xiuyun - LI, Fuli - WANG, Lushan. Determination of the modes of action and synergies of xylanases by analysis of xylooligosaccharide profiles over time using fluorescence-assisted carbohydrate electrophoresis. In ELECTROPHORESIS. ISSN 0173-0835, 2016, vol. 37, no. 12, pp. 1640-1650., Registrované v: WOS
28. [1.1] GONZALEZ-ORTIZ, G. - GOMES, G. A. - DOS SANTOS, T. T. - BEDFORD, M. R. New strategies influencing gut functionality and animal performance. In VALUE OF FIBRE: ENGAGING THE SECOND BRAIN FOR ANIMAL NUTRITION, 2019, vol., no., pp. 233-254., Registrované v: WOS
29. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian *Argania spinosa*. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS
30. [1.1] HEINZE, Simon - MECHELKE, Matthias - KORNBERGER, Petra - LIEBL, Wolfgang - SCHWARZ, Wolfgang H. - ZVERLOV, Vladimir V. Identification of endoxylanase XynE from *Clostridium thermocellum* as the first xylanase of glycoside hydrolase family GH141. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
31. [1.1] HE, Jun - TANG, Feng - CHEN, Daiwen - YU, Bing - LUO, Yuheng - ZHENG, Ping - MAO, Xiangbing - YU, Jie - YU, Feng. Design, expression and functional characterization of a thermostable xylanase from *Trichoderma reesei*. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 1, pp., Registrované v: WOS
32. [1.1] HUANG, Xiaoyun - LIN, Juan - YE, Xiuyun - WANG, Guozeng. Molecular Characterization of a Thermophilic and Salt- and Alkaline-Tolerant Xylanase from *Planococcus* sp SL4, a Strain Isolated from the Sediment of a Soda Lake. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 5, pp. 662-671., Registrované v: WOS
33. [1.1] HUANG, Xiongliang - LI, Zhe - DU, Chenyu - WANG, Jufang - LI, Shuang. Improved Expression and Characterization of a Multidomain Xylanase from *Thermoanaerobacterium aotearoense* SCUT27 in *Bacillus subtilis*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 28, pp. 6430-6439., Registrované v: WOS
34. [1.1] HUANG, Yuhong - BUSK, Peter Kamp - LANGE, Lene. Cellulose and hemicellulose-degrading enzymes in *Fusarium commune* transcriptome and functional characterization of three identified xylanases. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 73-74, no., pp. 9-19., Registrované v: WOS
35. [1.1] HUSSON, Eric - AUXENFANS, Thomas - HERBAUT,

- Mickael - BARALLE, Manon - LAMBERTYN, Virginie - RAKOTOARIVONINA, Harivoni - REMOND, Caroline - SARAZIN, Catherine. Sequential and simultaneous strategies for biorefining of wheat straw using room temperature ionic liquids, xylanases and cellulases. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 251, no., pp. 280-287., Registrované v: WOS
36. [1.1] HUTTERER, Christian - KLIBA, Gerhard - PUNZ, Manuel - FACKLER, Karin - POTTHAST, Antje. Enzymatic pulp upgrade for producing high-value cellulose out of a Kraft paper pulp. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 102, no., pp. 67-73., Registrované v: WOS
37. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
38. [1.1] CHAKDAR, Hillol - KUMAR, Murugan - PANDIYAN, Kuppusamy - SINGH, Arjun - NANJAPPAN, Karthikeyan - KASHYAP, Prem Lal - SRIVASTAVA, Alok Kumar. Bacterial xylanases: biology to biotechnology. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
39. [1.1] CHENG, Ya-Shan - CHEN, Chun-Chi - HUANG, Jian-Wen - KO, Tzu-Ping - HUANG, Zhiyong - GUO, Rey-Ting. Improving the catalytic performance of a GH11 xylanase by rational protein engineering. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 22, pp. 9503-9510., Registrované v: WOS
40. [1.1] CHEN, Xiang - XIN, Donglin - WANG, Rui - QIN, Yujie - WEN, Peiyao - HOU, Xincun - ZHANG, Junhua. Factors affecting hydrolytic action of xylanase during pennisetum saccharification: Role of cellulose and its derivatives. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 130, no., pp. 49-56., Registrované v: WOS
41. [1.1] CHOW, V. - SHANTHARAJ, D. - GUO, Y. - NONG, G. - MINSAVAGE, G. V. - JONES, J. B. - PRESTON, J. F. Xylan Utilization Regulon in *Xanthomonas citri* pv. *citri* Strain 306: Gene Expression and Utilization of Oligoxylosides. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 6, pp. 2163-2172., Registrované v: WOS
42. [1.1] IMJONGJAIRAK, Siriluck - JOMMUENGBOUT, Pattaporn - KARPILANONDH, Pirin - KATSUZAKI, Hirotaka - SAKKA, Makiko - KIMURA, Tetsuya - PASON, Patthra - TACHAAPAIKOON, Chakrit - ROMSAIYUD, Jariya - RATANAKHANOKCHAI, Khanok - SAKKA, Kazuo. *Paenibacillus curdlanolyticus* B-6 xylanase Xyn10C capable of producing a doubly arabinose-substituted xylose, α -L-Araf-(1 \rightarrow 2)-[α -L-Araf-(1 \rightarrow 3)]-D-Xylp, from rye arabinoxylan. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 72, no., pp. 1-9., Registrované v: WOS
43. [1.1] ITO, Toshihiko - SATO, Anna - TAKAHASHI, Itsuki - ITO, Takahito - TAKANO, Kouto - NOGE, Koji - OKUDA, Masaki - HASHIZUME, Katsumi. Identification of enzymes from genus *Trichoderma* that can accelerate formation of ferulic acid and ethyl ferulate in collaboration with rice koji enzyme

- in sake mash. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 128, no. 2, pp. 177-182., Registrované v: WOS
44. [1.1] JAVIER JIMENEZ, Diego - DE MARES, Maryam Chaib - SALLES, Joana Falcao. Temporal Expression Dynamics of Plant Biomass-Degrading Enzymes by a Synthetic Bacterial Consortium Growing on Sugarcane Bagasse. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
45. [1.1] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of the Xylanase Gene from *Paenibacillus brasilensis* X1 in *Pichia pastoris* and Characteristics of the Recombinant Enzyme. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2019, vol. 55, no. 8, pp. 797-804., Registrované v: WOS
46. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS
47. [1.1] KIM, Jae Yoon - NONG, Guang - RICE, John D. - GALLO, Maria - PRESTON, James F. - ALTPETER, Fredy. In planta production and characterization of a hyperthermostable GH10 xylanase in transgenic sugarcane. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2017, vol. 93, no. 4-5, pp. 465-478., Registrované v: WOS
48. [1.1] KOSIK, Ondrej - POWERS, Stephen J. - CHATZIFRAGKOU, Afroditi - PRABHAKUMARI, Parvathy Chandran - CHARALAMPOPOULOS, Dimitris - HESS, Linde - BROSNAN, James - SHEWRY, Peter R. - LOVEGROVE, Alison. Changes in the arabinoxylan fraction of wheat grain during alcohol production. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1754-1762., Registrované v: WOS
49. [1.1] KO, Ja Kyong - KO, Hyeokjin - KIM, Kyoung Heon - CHOI, In-Geol. Characterization of the biochemical properties of recombinant Xyn10C from a marine bacterium, *Saccharophagus degradans* 2-40. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2016, vol. 39, no. 4, pp. 677-684., Registrované v: WOS
50. [1.1] LAFOND, Mickael - BOUZA, Bernard - EYRICHINE, Sandrine - ROUFFINEAU, Friedrich - SAULNIER, Luc - GIARDINA, Thierry - BONNIN, Estelle - PREYNAT, Aurelie. In vitro gastrointestinal digestion study of two wheat cultivars and evaluation of xylanase supplementation. In JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY. ISSN 2049-1891, 2015, vol. 6, no., pp., Registrované v: WOS
51. [1.1] LAOTHANACHAREON, Thanaporn - BUNTERNGSOOK, Benjarat - SUWANNARANGSEE, Surisa - EURWILAICHITR, Lily - CHAMPREDA, Verawat. Synergistic action of recombinant accessory hemicellulolytic and pectinolytic enzymes to *Trichoderma reesei* cellulase on rice straw degradation. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 198, no., pp. 682-690., Registrované v: WOS
52. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS

53. [1.1] LISOV, Alexander V. - BELOVA, Oksana V. - LISOVA, Zoya A. - VINOKUROVA, Nataliy G. - NAGEL, Alexey S. - ANDREEVA-KOVALEVSKAYA, Zhanna I. - BUDARINA, Zhanna I. - NAGORNYKH, Maxim O. - ZAKHAROVA, Marina V. - SHADRIN, Andrey M. - SOLONIN, Alexander S. - LEONTIEVSKY, Alexey A. Xylanases of *Cellulomonas flavigena*: expression, biochemical characterization, and biotechnological potential. In *AMB EXPRESS*. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
54. [1.1] LIU, Yulu - SUN, Yawu - WANG, Huaguang - TANG, Lei. Characterization of a novel multi-domain xylanase from *Clostridium clariflavum* with application in hydrolysis of corn cobs. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2019, vol. 41, no. 10, pp. 1177-1186., Registrované v: WOS
55. [1.1] LI, Hailong - WU, Hongli - XIONG, Lian - CHEN, Xuefang - WANG, Can - QI, Gaoxiang - HUANG, Chao - GUO, Haijun - LUO, Mutan - LIU, Jian - LONG, Minnan - CHEN, Xinde. The hydrolytic efficiency and synergistic action of recombinant xylan-degrading enzymes on xylan isolated from sugarcane bagasse. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 199-206., Registrované v: WOS
56. [1.1] LI, Hailong - WU, Jinlian - JIANG, Fengjiao - XUE, Yong - LIU, Jian - GAN, Lihui - ALI, Nasir - LONG, Minnan. Functional expression and synergistic cooperation of xylan-degrading enzymes from *Hypocrea orientalis* and *Aspergillus niger*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2015, vol. 90, no. 11, pp. 2083-2091., Registrované v: WOS
57. [1.1] LI, Hailong - XUE, Yong - WU, Jinlian - WU, Hongli - QIN, Guanghui - LI, Chengguo - DING, Jiajia - LIU, Jian - GAN, Lihui - LONG, Minnan. Enzymatic hydrolysis of hemicelluloses from *Miscanthus* to monosaccharides or xylo-oligosaccharides by recombinant hemicellulases. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2016, vol. 79, no., pp. 170-179., Registrované v: WOS
58. [1.1] LI, Qin - SUN, Baoguo - LI, Xiuting - XIONG, Ke - XU, Youqiang - YANG, Ran - HOU, Jie - TENG, Chao. Improvement of the catalytic characteristics of a salt-tolerant GH10 xylanase from *Streptomyces rochei* L10904. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 1447-1455., Registrované v: WOS
59. [1.1] MACCORMICK, Benjamin - VUONG, Thu V. - MASTER, Emma R. Chemo-enzymatic Synthesis of Clickable Xylo-oligosaccharide Monomers from Hardwood 4-O-Methylglucuronoxylan. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 2, pp. 521-530., Registrované v: WOS
60. [1.1] MADAN, Bharat - LEE, Sun-Gu. Sequence and Structural Features of Subsite Residues in GH10 and GH11 Xylanases. In *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING*. ISSN 1226-8372, 2018, vol. 23, no. 3, pp. 311-318., Registrované v: WOS
61. [1.1] MAITAN-ALFENAS, Gabriela P. - OLIVEIRA, Mariana B. - NAGEM, Ronaldo A. P. - DE VRIES, Ronald P. - GUIMARAES, Valeria M. Characterization and biotechnological application of recombinant xylanases from *Aspergillus nidulans*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 91, no., pp. 60-67.,

Registrované v: WOS

62. [1.1] MAKELA, M. R. - DIFALCO, M. - MCDONNELL, E. - NGUYEN, T. T. M. - WIEBENGA, A. - HILDEN, K. - PENG, M. - GRIGORIEV, I. V. - TSANG, A. - DE VRIES, R. P. Genomic and exoproteomic diversity in plant biomass degradation approaches among *Aspergilli*. In STUDIES IN MYCOLOGY. ISSN 0166-0616, 2018, vol., no. 91, pp. 79-99.,

Registrované v: WOS

63. [1.1] MALUNGA, Lovemore Nkhata - BETA, Trust. Antioxidant capacity of arabinoxylan oligosaccharide fractions prepared from wheat aleurone using *Trichoderma viride* or *Neocallimastix patriciarum* xylanase. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 167, no., pp. 311-319., Registrované v: WOS

64. [1.1] MAMO, Gashaw. Alkaline Active Hemicellulases. In ALKALIPHILES IN BIOTECHNOLOGY. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101., Registrované v: WOS

65. [1.1] MARTINS DE OLIVEIRA, Sandro - MORENO-PEREZ, Sonia - FANCHINI TERRASAN, Cesar Rafael - ROMERO-FERNANDEZ, Maria - VIEIRA, Marcelo Fernandes - GUIBAN, Jose M. - ROCHA-MARTIN, Javier. Covalent immobilization-stabilization of beta-1,4-endoxylanases from *Trichoderma reesei*: Production of xylooligosaccharides. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 64, no., pp. 170-176.,

Registrované v: WOS

66. [1.1] MARTINS, Manoela - AVILA, Patricia Felix - PAIM DE ANDRADE, Cristiane Conte - GOLDBECK, Rosana. Synergic recombinant enzyme association to optimize xylo-oligosaccharides production from agricultural waste. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 28, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101747>., Registrované v: WOS

67. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmtec.2020.109647>., Registrované v: WOS

68. [1.1] MATHEW, Sindhu - ARONSSON, Anna - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Xylo- and arabinoxylooligosaccharides from wheat bran by endoxylanases, utilisation by probiotic bacteria, and structural studies of the enzymes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 7, pp. 3105-3120., Registrované v: WOS

69. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-oligosaccharides and arabinoxylo-oligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 260, no., pp. 53-61., Registrované v: WOS

70. [1.1] MATSUZAWA, Tomohiko - KANEKO, Satoshi - YAOI, Katsuro. Improvement of thermostability and activity of *Trichoderma reesei* endo-xylanase Xyn III on insoluble substrates. In APPLIED MICROBIOLOGY

AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 18, pp. 8043-8051., Registrované v: WOS

71. [1.1] MCCLEARY, Barry V. - MCGEOUGH, Paraic. A Comparison of Polysaccharide Substrates and Reducing Sugar Methods for the Measurement of endo-1,4-beta-Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 5, pp. 1152-1163., Registrované v: WOS

72. [1.1] MCCLEARY, Barry V. - MCKIE, Vincent A. - DRAGA, Anna - ROONEY, Edward - MANGAN, David - LARKIN, Jennifer. Hydrolysis of wheat flour arabinoxylan, acid-debranched wheat flour arabinoxylan and arabino-xylo-oligosaccharides by beta-xylanase, alpha-L-arabinofuranosidase and beta-xylosidase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 407, no., pp. 79-96., Registrované v: WOS

73. [1.1] MCKEE, Lauren S. - SUNNER, Hampus - ANASONTZIS, George E. - TORIZ, Guillermo - GATENHOLM, Paul - BULONE, Vincent - VILAPLANA, Francisco - OLSSON, Lisbeth. A GH115 alpha-glucuronidase from Schizophyllum commune contributes to the synergistic enzymatic deconstruction of softwood glucuronoarabinoxylan. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

74. [1.1] MCKEE, Lauren S. - SUNNER, Hampus - ANASONTZIS, George E. - TORIZ, Guillermo - GATENHOLM, Paul - BULONE, Vincent - VILAPLANA, Francisco - OLSSON, Lisbeth. A GH115 alpha-glucuronidase from Schizophyllum commune contributes to the synergistic enzymatic deconstruction of softwood glucuronoarabinoxylan. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

75. [1.1] MECHERKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium Herbinix hemicellulosilytica-Six new xylanases, three arabinofuranosidases and one xylosidase. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS

76. [1.1] MONCLARO, Antonielle Vieira - RECALDE, Guilherme Lima - DA SILVA, Francides Gomes - DE FREITAS, Sonia Maria - FERREIRA FILHO, Edivaldo Ximenes. Xylanase from Aspergillus tamarii shows different kinetic parameters and substrate specificity in the presence of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 120, no., pp. 16-22., Registrované v: WOS

77. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mingan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS

78. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - HAWKING, Kirsten L. - RODRIGUES, Ines - HILLIAR, Matthew - CHOCT, Mingan. In vitro versus in situ evaluation of xylan hydrolysis into xylo-oligosaccharides in broiler chicken gastrointestinal tract. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115645>., Registrované v: WOS

79. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
80. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
81. [1.1] NAKAZAWA, Hikaru - KAWAI, Tetsushi - IDA, Noriko - SHIDA, Yosuke - SHIOYA, Kouki - KOBAYASHI, Yoshinori - OKADA, Hirofumi - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - OGASAWARA, Wataru. A high performance *Trichoderma reesei* strain that reveals the importance of xylanase III in cellulosic biomass conversion. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 82, no., pp. 89-95., Registrované v: WOS
82. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of *Magnaporthe oryzae*. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS
83. [1.1] NG, Choong Hey - HE, Jianzhong - YANG, Kun-Lin. Purification and Characterization of a GH11 Xylanase from Biobutanol-Producing *Clostridium beijerinckii* G117. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 6, pp. 2832-2844., Registrované v: WOS
84. [1.1] NIDERHAUS, Cecilia - GARRIDO, Mercedes - INSANI, Marina - CAMPOS, Eleonora - WIRTH, Sonia. Heterologous production and characterization of a thermostable GH10 family endo-xylanase from *Pycnoporus sanguineus* BAFC 2126. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 67, no., pp. 92-98., Registrované v: WOS
85. [1.1] PABLO ACEVED, Juan - REETZ, Manfred T. - ASENJO, Juan A. - PARRA, Loreto P. One-step combined focused epPCR and saturation mutagenesis for thermostability evolution of a new cold-active xylanase. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 100, no., pp. 60-70., Registrované v: WOS
86. [1.1] PARAB, P. D. - KHANDEPARKER, R. D. - SHENOY, B. D. - SHARMA, J. Phylogenetic Diversity of Culturable Marine Bacteria from Mangrove Sediments of Goa, India: a Potential Source of Xylanases Belonging to Glycosyl Hydrolase Family 10. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2020, vol. 56, no. 6, pp. 718-728. Dostupné na: <https://doi.org/10.1134/S0003683820060137>., Registrované v: WOS
87. [1.1] PAUCHET, Yannick - RUPRECHT, Colin - PFRENGLE, Fabian. Analyzing the Substrate Specificity of a Class of Long-Horned-Beetle-Derived Xylanases by Using Synthetic Arabinoxylan Oligo- and Polysaccharides. In CHEMBIOCHEM. ISSN 1439-4227, 2020, vol. 21, no.

10, pp. 1517-1525. Dostupné na: <https://doi.org/10.1002/cbic.201900687>,
Registrované v: WOS

88. [1.1] PEDERSEN, Mads B. - DALSGAARD, Soren - ARENT, Susan - LORENTSEN, Rikke - KNUDSEN, Knud Erik B. - YU, Shukun - LAERKE, Helle N. Xylanase and protease increase solubilization of non-starch polysaccharides and nutrient release of corn- and wheat distillers dried grains with solubles. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2015, vol. 98, no., pp. 99-106., Registrované v: WOS

89. [1.1] PHAKEENUYA, Vanarat - RATANAKHANOKCHAI, Khanok - KOSUGI, Akihiko - TACHAAPA KOON, Chakrit. A novel multifunctional GH9 enzyme from *Paenibacillus curdlanolyticus* B-6 exhibiting endo/exo functions of cellulase, mannanase and xylanase activities. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 5, pp. 2079-2096. Dostupné na: <https://doi.org/10.1007/s00253-020-10388-3>, Registrované v: WOS

90. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS

91. [1.1] RATNADEWI, Anak Agung Istri - HANDAYANI, Wuryanti - OKTAVIANAWATI, Ika - SANTOSO, Agung Budi - PUSPANINGSIH, Ni Nyoman Tri. Isolation And Hydrolysis Xylan From Soybean Waste With Endo-beta-1,4-D-Xylanase Of *Bacillus* sp From Soil Termite Abdomen. In INTERNATIONAL CONFERENCE ON FOOD, AGRICULTURE AND NATURAL RESOURCES, IC-FANRES 2015. ISSN 2210-7843, 2016, vol. 9, no., pp. 371-377., Registrované v: WOS

92. [1.1] RATNADEWI, Anak Agung Istri - SANTOSO, Agung Budi - SULISTYANINGSIH, Erma - HANDAYANI, Wuryanti. Application of Cassava Peel and Waste as Raw Materials for Xylooligosaccharide Production using Endoxylanase from *Bacillus subtilis* of Soil Termite Abdomen. In MOLECULAR AND CELLULAR LIFE SCIENCES: INFECTIOUS DISEASES, BIOCHEMISTRY AND STRUCTURAL BIOLOGY 2015 CONFERENCE. ISSN 1876-6196, 2016, vol. 18, no., pp. 31-38., Registrované v: WOS

93. [1.1] RAY, Sayani - VIGOUROUX, Jacqueline - BOUDER, Axelle - ALLAMI, Mathilde Francin - GEAIRON, Audrey - FANUEL, Mathieu - ROPARTZ, David - HELBERT, William - LAHAYE, Marc - BONNIN, Estelle. Functional exploration of *Pseudoalteromonas atlantica* as a source of hemicellulose-active enzymes: Evidence for a GH8 xylanase with unusual mode of action. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 127, no., pp. 6-16., Registrované v: WOS

94. [1.1] RHEE, Mun Su - WEI, Lusha - SAWHNEY, Neha - KIM, Young Sik - RICE, John D. - PRESTON, James F. Metabolic potential of *Bacillus subtilis* 168 for the direct conversion of xylans to fermentation products. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 3, pp. 1501-1510., Registrované v: WOS

95. [1.1] RIBEIRO, T. - CARDOSO, V. - FERREIRA, L. M. A. - LORDELO, M. M. S. - COELHO, E. - MOREIRA, A. S. P. - DOMINGUES, M.

- R. M. - COIMBRA, M. A. - BEDFORD, M. R. - FONTES, C. M. G. A. Xylo-oligosaccharides display a prebiotic activity when used to supplement wheat or corn-based diets for broilers. In *POULTRY SCIENCE*. ISSN 0032-5791, 2018, vol. 97, no. 12, pp. 4330-4341., Registrované v: WOS
96. [1.1] SAWHNEY, Neha - CROOKS, Casey - JOHN, Franz St. - PRESTON, James F. Transcriptomic Analysis of Xylan Utilization Systems in *Paenibacillus* sp Strain JDR-2. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 4, pp. 1490-1501., Registrované v: WOS
97. [1.1] SENF, Deborah - RUPRECHT, Colin - DE KRUIJFF, Goswinus H. M. - SIMONETTI, Sebastian O. - SCHUHMACHER, Frank - SEEBERGER, Peter H. - PFRENGLE, Fabian. Active Site Mapping of Xylan-Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 13, pp. 3197-3205., Registrované v: WOS
98. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS
99. [1.1] SHAHID, Saher - TAJWAR, Razia - AKHTAR, Muhammad Waheed. A novel trifunctional, family GH10 enzyme from *Acidothermus cellulolyticus* 11B, exhibiting endo-xylanase, arabinofuranosidase and acetyl xylan esterase activities. In *EXTREMOPHILES*. ISSN 1431-0651, 2018, vol. 22, no. 1, pp. 109-119., Registrované v: WOS
100. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
101. [1.1] SHARMA, Kedar - FONTES, Carlos M. G. A. - NAJMUDIN, Shabir - GOYAL, Arun. Molecular organization and protein stability of the *Clostridium thermocellum* glucuronoxylan endo-beta-1,4-xylanase of family 30 glycoside hydrolase in solution. In *JOURNAL OF STRUCTURAL BIOLOGY*. ISSN 1047-8477, 2019, vol. 206, no. 3, pp. 335-344., Registrované v: WOS
102. [1.1] SHENG, Ping - LI, Yushan - MARSHALL, Sean D. G. - ZHANG, Hongyu. High Genetic Diversity of Microbial Cellulase and Hemicellulase Genes in the Hindgut of *Holotrichia parallela* Larvae. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2015, vol. 16, no. 7, pp. 16545-16559., Registrované v: WOS
103. [1.1] SHIBATA, Nozomu - SUETSUGU, Mari - KAKESHITA, Hiroshi - IGARASHI, Kazuaki - HAGIHARA, Hiroshi - TAKIMURA, Yasushi. A novel GH10 xylanase from *Penicillium* sp accelerates saccharification of alkaline-pretreated bagasse by an enzyme from recombinant *Trichoderma reesei* expressing *Aspergillus* beta-glucosidase. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
104. [1.1] SRIVASTAVA, Praveen Kumar - PANWAR, Deepesh - PRASHANTH, K. V. Harish - KAPOOR, Mukesh. Structural Characterization and in Vitro Fermentation of beta-Mannooligosaccharides Produced from Locust Bean Gum by GH-26 endo-beta-1,4-Mannanase (ManB-1601). In *JOURNAL OF*

- AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 13, pp. 2827-2838., Registrované v: WOS
105. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
106. [1.1] SUN, Junyong - LU, Jian - XIE, Guangfa. Secretome analysis of *Trichoderma reesei* CICC41495 for degradation of arabinoxylan in malted barley. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2018, vol. 124, no. 4, pp. 352-358., Registrované v: WOS
107. [1.1] TRAMONTINA, Robson - ROBL, Diogo - MAITAN-ALFENAS, Gabriela Piccolo - DE VRIES, Ronald P. Cooperation of *Aspergillus nidulans* enzymes increases plant polysaccharide saccharification. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2016, vol. 11, no. 7, pp. 988-992., Registrované v: WOS
108. [1.1] TRYFONA, Theodora - SORIEUL, Mathias - FEIJAO, Carolina - STOTT, Katherine - RUBTSOV, Denis V. - ANDERS, Nadine - DUPREE, Paul. Development of an oligosaccharide library to characterise the structural variation in glucuronoarabinoxylan in the cell walls of vegetative tissues in grasses. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
109. [1.1] TSUTSUI, Sosyu - SAKURAGI, Kiyoshi - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KANEKO, Satoshi. Evaluation of Ammonia Pretreatment for Enzymatic Hydrolysis of Sugarcane Bagasse to Recover Xylooligosaccharides. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2020, vol. 67, no. 1, pp. 17-22. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0017., Registrované v: WOS
110. [1.1] UEDA, Mitsuhiro - KONEMORI, Yuta - NAKAZAWA, Masami - SAKAMOTO, Tatsuji - SAKAGUCHI, Minoru. Heterologous expression and characterization of a cold-adapted endo-1, 4-beta glucanase gene from *Bellamyia chinensis laeta*. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 74, no., pp. 28-34., Registrované v: WOS
111. [1.1] ULAGANATHAN, Kandasamy - GOUD, Burragoni S. - REDDY, Mettu M. - KUMAR, Vanaparthi P. - BALSINGH, Jatoth - RADHAKRISHNA, Surabhi. Proteins for Breaking Barriers in Lignocellulosic Bioethanol Production. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2015, vol. 16, no. 2, pp. 100-134., Registrované v: WOS
112. [1.1] VALLS, Adria - DIAZ, Pilar - JAVIER PASTOR, F. I. - VALENZUELA, Susana V. A newly discovered arabinoxylan-specific arabinofuranohydrolase. Synergistic action with xylanases from different glycosyl hydrolase families. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 4, pp. 1743-1751., Registrované v: WOS
113. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN

- 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
114. [1.1] WAHAB, Mohd Khairul Hakimi bin Abdul - BIN JONET, Mohd Anuar - ILLIAS, Rosli Md. Thermostability enhancement of xylanase *Aspergillus fumigatus* RT-1. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 134, no., pp. 154-163., Registrované v: WOS
115. [1.1] WALKER, Johnnie A. - PATTATHIL, Sivakumar - BERGEMAN, Lai F. - BEEBE, Emily T. - DENG, Kai - MIRZAI, Maryam - NORTHEN, Trent R. - HAHN, Michael G. - FOX, Brian G. Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
116. [1.1] WANG, Guozeng - WU, Jingjing - YANG, Renxiang - LIN, Juan - YE, Xiuyun. A Novel Multi-domain High Molecular, Salt-Stable Alkaline Xylanase from *Alkalibacterium* sp SL3. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 7, no., pp., Registrované v: WOS
117. [1.1] WEI, Lusha - RHEE, Mun Su - PRESTON, James F. - CHEN, Hui. Production of acidic xylooligosaccharides from methylglucuronarabinoxylans by *Bacillus subtilis* strain MR44. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2016, vol. 91, no. 7, pp. 2056-2062., Registrované v: WOS
118. [1.1] WONG, Dominic W. S. - TAKEOKA, Gary - CHAN, Victor J. - LIAO, Hans - MURAKAMI, Mario T. Cloning of a Novel Feruloyl Esterase from Rumen Microbial Metagenome for Substantial Yield of Mono- and Diferulic Acids from Natural Substrates. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2015, vol. 22, no. 8, pp. 681-688., Registrované v: WOS
119. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
120. [1.1] YANG, Shuo - YANG, Bo - DUAN, Chao - FULLER, Darcy Alexandra - WANG, Xinqi - CHOWDHURY, Susmita Paul - STAVIK, Jaroslav - ZHANG, Hongjie - NI, Yonghao. Applications of enzymatic technologies to the production of high-quality dissolving pulp: A review. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 281, no., pp. 440-448., Registrované v: WOS
121. [1.1] YANG, Yi - YANG, Jinshui - WANG, Ruonan - LIU, Jiawen - ZHANG, Yu - LIU, Liang - WANG, Fengqin - YUAN, Hongli. Cooperation of hydrolysis modes among xylanases reveals the mechanism of hemicellulose hydrolysis by *Penicillium chrysogenum* P33. In MICROBIAL CELL FACTORIES, 2019, vol. 18, no. 1, pp., Registrované v: WOS
122. [1.1] YU, Chunlei - LI, Ting - SHI, Xiangpeng - SALEEM, Muhammad - LI, Baohua - LIANG, Wenxing - WANG, Caixia. Deletion of Endo-beta-1,4-Xylanase VmXyl1 Impacts the Virulence of *Valsa mali* in Apple Tree. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
123. [1.1] YU, Long - YAKUBOV, Gleb E. - ZENG, Wei - XING, Xiaohui - STENSON, John - BULONE, Vincent - STOKES, Jason R.

- Multi-layer mucilage of *Plantago ovata* seeds: Rheological differences arise from variations in arabinoxylan side chains. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 132-141., Registrované v: WOS
124. [1.1] ZHANG, Qinghua - LI, Hanguang - ZHU, Xiangdong - LAI, Fenju - ZHAI, Zhijun - WANG, Yuanxiu. Exploration of the key functional proteins from an efficient cellulolytic microbial consortium using dilution-to-extinction approach. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2016, vol. 43, no., pp. 199-207., Registrované v: WOS
125. [1.1] ZHANG, Yueqi - YANG, Hong - YU, Xinrui - KONG, Haiyang - CHEN, Jiaming - LUO, Huiying - BAI, Yingguo - YAO, Bin. Synergistic effect of acetyl xylan esterase from *Talaromyces leycettanus* JCM12802 and xylanase from *Neocallimastix patriciarum* achieved by introducing carbohydrate-binding module-1. In AMB EXPRESS. ISSN 2191-0855, 2019, vol. 9, no., pp., Registrované v: WOS
126. [1.1] ZHANG, Zhengxiao - SMITH, Christopher - LI, Weili - ASHWORTH, Jason. Characterization of Nitric Oxide Modulatory Activities of Alkaline-Extracted and Enzymatic-Modified Arabinoxylans from Corn Bran in Cultured Human Monocytes. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 43, pp. 8128-8137., Registrované v: WOS
127. [1.1] ZHOU, Haifeng - ST JOHN, Franz - ZHU, J. Y. Xylanase pretreatment of wood fibers for producing cellulose nanofibrils: a comparison of different enzyme preparations. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 543-555., Registrované v: WOS
128. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
129. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from *Scheffersomyces stipitis*. In Industrial Biotechnology. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS
130. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
131. [1.2] DAHIYA, Seema - SINGH, Bijender. Microbial xylanases in bread making. In Encyclopedia of Food Chemistry, 2018-01-01, pp. 140-149., Registrované v: SCOPUS
132. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In New and Future Developments in Microbial Biotechnology and Bioengineering: *Aspergillus* System Properties and Applications, 2016-08-05, pp. 171-190., Registrované v: SCOPUS
133. [1.2] FALCK, Peter - ARONSSON, Anna - GREY, Carl - STÅLBRAND, Henrik - NORDBERG KARLSSON, Eva - ADLERCREUTZ, Patrick. Production of arabinoxylan-oligosaccharide mixtures of varying

- composition from rye bran by a combination of process conditions and type of xylanase. In *Bioresource Technology*. ISSN 09608524, 2015-01-01, 174, pp. 118-125., Registrované v: SCOPUS
134. [1.2] Heinen, P. R., Betini, J. H. A., & Polizeli, M. L. T. M. Xylanases. In: *Encyclopedia of Microbiology 2019* (pp. 604-615), Registrované v: SCOPUS
135. [1.2] IZYDORCZYK, Marta S. Barley Arabinoxylans: Molecular, Physicochemical, and Functional Properties. In *Barley: Chemistry and Technology: Second Edition*, 2016-09-30, pp. 97-122., Registrované v: SCOPUS
136. [1.2] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of gene for xylanase from *Paenibacillus brasilensis* X 1 i n *Pichia pastoris* and characteristics of recombinant enzyme. In *Biotechnologiya*. ISSN 02342758, 2018-01-01, 34, 6, pp. 22-32., Registrované v: SCOPUS
137. [1.2] LI, Hai Long - LI, Cheng Guo - QIN, Guang Hui - LIU, Jian - GAN, Li Hui - XIE, Ru Sheng - LONG, Min Nan. HPLC and MALDI-TOF-MS analysis of hydrolysates of xylan. In *Chemistry and Industry of Forest Products*. ISSN 02532417, 2015-01-01, 35, 5, pp. 10-14., Registrované v: SCOPUS
138. [1.2] MALUNGA, Lovemore Nkhata - BETA, Trust. Isolation and identification of feruloylated arabinoxylan mono- and oligosaccharides from undigested and digested maize and wheat. In *Heliyon*. ISSN 24058440, 2016-05-01, 2, 5, pp., Registrované v: SCOPUS
139. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
140. [1.2] WATANABE, Takashi - SUZUKI, Ken - SATO, Ikuo - MORITA, Tomotake - KOIKE, Hideaki - SHINOZAKI, Yukiko - UEDA, Hirokazu - KOITABASHI, Motoo - KITAMOTO, Hiroko K. Simultaneous bioethanol distillery wastewater treatment and xylanase production by the phyllosphere yeast *Pseudozyma antarctica* GB-4(0). In *AMB Express*, 2015-12-13, 5, 1, pp., Registrované v: SCOPUS
141. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA102 BIELY, Peter - CZISZÁROVÁ, Mária - WONG, Ken K.Y. - FERNYHOUGH, Alan. Enzymatic acylation of flavonoid glycosides by a carbohydrate esterase of family 16. In *Biotechnology Letters*, 2014, vol. 36, p. 2249-2255. (2013: 1.736 - IF, Q3 - JCR, 0.713 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492.

Ohlasy:

1. [1.1] D'AMBROSIO, Michele - CIOCARLAN, Alexandru - ARICU, Aculina. Minor acetylated metabolites from *Euphrasia rostkoviana*. Natural and synthetic acetylated derivatives of rutin. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2020, vol. 34, no. 2, pp. 290-295. Dostupné na: <https://doi.org/10.1080/14786419.2018.1530227>., Registrované v: WOS
2. [1.1] GULLON, Beatriz - LU-CHAU, Thelmo A. - MOREIRA, Maria Teresa - LEMA, Juan M. - EIBES, Gemma. Rutin: A review on extraction,

identification and purification methods, biological activities and approaches to enhance its bioavailability. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2017, vol. 67, no., pp. 220-235., Registrované v: WOS

3. [1.1] CHEAR, Nelson Jeng-Yeou - FAUZI, Agustine Nengsih - KHAW, Kooi-Yeong - CHOI, Sy-Bing - YAACOB, Nik Soriani - LAI, Choon-Sheen. Free Radical Scavenging and Cytotoxic Properties of Acylated and Non-Acylated Kaempferol Glycosides from *Stenochlaena Palustris*: a Perspective on Their Structure Activity Relationships. In *PHARMACEUTICAL CHEMISTRY JOURNAL*. ISSN 0091-150X, 2019, vol. 53, no. 3, pp. 188-193., Registrované v: WOS

4. [1.1] CHEN, Yongsheng - LIU, Jiangwei - GENG, Sheng - LIU, Yonglan - MA, Hanjun - ZHENG, Jie - LIU, Benguo - LIANG, Guizhao. Lipase-catalyzed synthesis mechanism of tri-acetylated phloridzin and its antiproliferative activity against HepG2 cancer cells. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 277, no., pp. 186-194., Registrované v: WOS

5. [1.1] KARABIN, Marcel - HUDCOVA, Tereza - JELINEK, Lukas - DOSTALEK, Pavel. Biotransformations and biological activities of hop flavonoids. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2015, vol. 33, no. 6, pp. 1063-1090., Registrované v: WOS

6. [1.1] MECENAS, Anete Souza - ADAO MALAFAIA, Camila Rodrigues - SANGENITO, Leandro Stefano - REIS SIMAS, Daniel Luiz - MACHADO, Thelma de Barros - AMARAL, Ana Claudia F. - SOUZA DOS SANTOS, Andre Luis - GUIMARAES FREIRE, Denise Maria - RAMOS LEAL, Ivana Correa. Rutin derivatives obtained by transesterification reactions catalyzed by Novozym 435: Antioxidant properties and absence of toxicity in mammalian cells. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS

7. [1.1] XIN, Xuan - ZHANG, Mengmeng - LI, Xiaofeng - LAI, Furao - ZHAO, Guanglei. Biocatalytic synthesis of acylated derivatives of troxerutin: their bioavailability and antioxidant properties in vitro. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS

8. [1.1] ZOU, Yucong - XIN, Xuan - XU, Haixia - YUAN, Hongwei - LI, Xiaofeng - YU, Yigang - ZHAO, Guanglei. Highly efficient bioconversion of flavonoid glycosides from citrus-processing wastes in solvent-buffer systems. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 10, pp. 3196-3207. Dostupné na: <https://doi.org/10.1039/d0gc00669f>, Registrované v: WOS

ADCA103 BIELY, Peter - MASTIHUBOVÁ, Mária - LA GRANGE, D.C. - VAN ZYL, W.H. - PRIOR, B.A. Enzyme-coupled assay of acetylxyylan esterases on monoacetylated 4-nitrophenyl beta-D-xylopyranosides. In *Analytical Biochemistry*, 2004, vol.332, p. 109-115. ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2004.04.022>

Ohlasy:

1. [1.1] LUNIN, Vladimir V. - WANG, Hsin-Tzu - BHARADWAJ, Vivek S. - ALAHUHTA, Markus - PENA, Maria J. - YANG, Jeong-Yeh - ARCHER-HARTMANN, Stephanie A. - AZADI, Parastoo - HIMMEL, Michael E. - MOREMEN, Kelley W. - YORK, William S. - BOMBLE, Yannick J. - URBANOWICZ, Breeanna R. Molecular Mechanism of Polysaccharide Acetylation by the *Arabidopsis* Xylan O-acetyltransferase XOAT1. In *PLANT*

CELL. ISSN 1040-4651, 2020, vol. 32, no. 7, pp. 2367-2382. Dostupné na:
<https://doi.org/10.1105/tpc.20.00028>., Registrované v: WOS

2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

3. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

ADCA104 BIELY, Peter - PUCHART, Vladimír - CÔTÉ, G.L. Enzymic alpha-galactosylation of a cyclic glucotetrasaccharide derived from alternan. In *Carbohydrate Research*, 2001, vol. 332, p. 299-303. (2000: 1.606 - IF, Current Contents - CCC). (2001 - Current Contents). ISSN 0008-6215. Dostupné na:
[https://doi.org/10.1016/S0008-6215\(01\)00099-4](https://doi.org/10.1016/S0008-6215(01)00099-4)

Ohlasy:

1. [1.1] BAKUNINA, Irina Yu. - BALABANOVA, Larissa A. - PENNACCHIO, Angela - TRINCONE, Antonio. Hooked on alpha-D-galactosidases: from biomedicine to enzymatic synthesis. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 2, pp. 233-245., Registrované v: WOS

2. [1.1] MASTIHUBA, Vladimir - MASTIHUBOVA, Maria - BELAK, Miroslav - DUDIKOVA, Jana - POTOCKA, Elena Karnisova - PETRUS, Ladislav. Preparation of alpha-galactooligoglycosides by cell walls from *Cryptococcus laurentii* using a novel alpha-galactosyl donor. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS

ADCA105 BIELY, Peter - TENKANEN, M. Enzymology of hemicellulose degradation. In *Trichoderma and Gliogladium*, 1998, vol. 2, p. 25-47.

Ohlasy:

1. [1.1] KAMARUDDIN, Shazilah - MAHADI, Nor Muhammad - ILLIAS, Rosli Md - HASSAN, Osman - SULAIMAN, Suhaila - BROUGHTON, William - BHARUDIN, Izwan - ABU BAKAR, Farah Diba - MURAD, Abdul Munir Abdul. Effect of *Pichia pastoris* host strain on the properties of recombinant *Aspergillus niger* endoglucanase, EglB. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2018, vol. 14, no. 6, pp. 554-562., Registrované v: WOS

2. [1.1] MANSOUR, Maisa M. A. - SALEM, Mohamed Z. M. - KHAMIS, Mohamed H. - ALI, Hayssam M. Natural Durability of *Citharexylum spinosum* and *Morus alba* Woods Against Three Mold Fungi. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 3, pp. 5330-5344., Registrované v: WOS

3. [1.1] SALEM, Mohamed Z. M. EDX measurements and SEM examination of surface of some imported woods inoculated by three mold fungi. In MEASUREMENT. ISSN 0263-2241, 2016, vol. 86, no., pp. 301-309., Registrované v: WOS

ADCA106 BIELY, Peter - MALOVÍKOVÁ, Anna - UHLIARIKOVÁ, Iveta - LI, Xin-Liang - WONG, Dominic W.S. Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan. In *FEBS Letters*, 2015, vol. 589, p. 2334-2339. (2014: 3.169 - IF, Q2 - JCR, 1.859 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2015.07.019>

Ohlasy:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola - KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp. 2611-2618., Registrované v: WOS
3. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
4. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
5. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
6. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
7. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
8. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS

9. [1.1] D'ERRICO, Clotilde - BORJESSON, Johan - DING, Hanshu - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Improved biomass degradation using fungal glucuronoyl-esterases-hydrolysis of natural corn fiber substrate. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 219, no., pp. 117-123., Registrované v: WOS
10. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
11. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
12. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
13. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS
14. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - CAPEK, Peter - MATULOVA, Maria - WILK, Kazimiera A. New isolation process for bioactive food fiber from wild strawberry leaf. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107639>., Registrované v: WOS
15. [1.1] TSIRIGOTIS-MANIECKA, Marta - PAWLACZYK-GRAJA, Izabela - ZIEWIECKI, Rafal - BALICKI, Sebastian - MATULOVA, Maria - CAPEK, Peter - CZECHOWSKI, Franciszek - GANCARZ, Roman. The polyphenolic-polysaccharide complex of *Agrimonia eupatoria* L. as an indirect thrombin inhibitor isolation and chemical characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 124-132., Registrované v: WOS
16. [1.1] WONG, Mabel T. - WANG, Weijun - COUTURIER, Marie - RAZEQ, Fakhria M. - LOMBARD, Vincent - LAPEBIE, Pascal - EDWARDS, Elizabeth A. - TERRAPON, Nicolas - HENRISSAT, Bernard - MASTER, Emma R. Comparative Metagenomics of Cellulose- and Poplar Hydrolysate-Degrading Microcosms from Gut Microflora of the Canadian Beaver (*Castor canadensis*) and North American Moose (*Alces americanus*) after Long-Term Enrichment. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
17. [3.2] Group Author(s). Uniprot Consortium. Q9RLB8. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9RLB8>, Registrované v: Data Citation Index

18. [3.2] Group Author(s).Uniprot Consortium. Q9FF78.IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/Q9FF78>, Registrované v: Data Citation Index

ADCA107 BIELY, Peter - KRÁTKY, Z. - PETRAKOVÁ, Eva - BAUER, Štefan. Growth of *Aureobasidium pullulans* on hemicelluloses in waste water. In *Folia microbiologica*, 1979, vol.24, p. 328-333. ISSN 0015-5632.

Ohlasy:

1. [1.1] SAUR, Katharina Maria - BRUMHARD, Oliver - SCHOLZ, Karen - HAYEN, Heiko - TISO, Till. A pH shift induces high-titer liamocin production in *Aureobasidium pullulans*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 12, pp. 4741-4752., Registrované v: WOS

ADCA108 BIELY, Peter - VRŠANSKÁ, Mária - KUČÁR, Štefan. Identification and mode of action of endo-1,4-beta-xylanase. In *Progress in Biotechnology Series*, vol. 7, p. 81-86. ISSN 0-4444-89477-2.

Ohlasy:

1. [1.1] HUNTLEY, Nichole F. - PATIENCE, John F. Xylose metabolism in the pig. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS

2. [1.1] HUNTLEY, Nichole F. - PATIENCE, John F. Xylose: absorption, fermentation, and post-absorptive metabolism in the pig. In *JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY*. ISSN 2049-1891, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA109 BIELY, Peter - FARKAŠ, Vladimír - BAUER, Štefan. Incorporation of 2-deoxy-D-glucose into glycogen. In *Biochimica et Biophysica Acta*, 1968, vol.158, p.487. Dostupné na: [https://doi.org/10.1016/0304-4165\(68\)90310-3](https://doi.org/10.1016/0304-4165(68)90310-3)

Ohlasy:

1. [1.1] DEFENOUILLE, Quentin - VERRAES, Agathe - LAUSSEL, Clotilde - FRIEDRICH, Anne - SCHACHERER, Joseph - LEON, Sebastien. The induction of HAD-like phosphatases by multiple signaling pathways confers resistance to the metabolic inhibitor 2-deoxyglucose. In *SCIENCE SIGNALING*. ISSN 1945-0877, 2019, vol. 12, no. 597, pp., Registrované v: WOS

2. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

ADCA110 BIELY, Peter - HEINRICHOVÁ, K. - KRUŽIKOVÁ, M.. Induction and inducers of the pectolytic system in *Aureobasidium pullulans*. In *Current Microbiology*, 1996, vol. 33, p. 6-10. ISSN 0343-8651. Dostupné na: <https://doi.org/10.1007/s002849900065>

Ohlasy:

1. [1.1] BOZOUDI, Despina - TSALTAS, Dimitrios. The Multiple and Versatile Roles of *Aureobasidium pullulans* in the Vitivinicultural Sector. In *FERMENTATION-BASEL*, 2018, vol. 4, no. 4, pp., Registrované v: WOS

2. [1.1] GABRIELA MERIN, Maria - INES MORATA DE

AMBROSINI, Vilma. Kinetic and metabolic behaviour of the pectinolytic strain *Aureobasidium pullulans* GM-R-22 during pre-fermentative cold maceration and its effect on red wine quality. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2018, vol. 285, no., pp. 18-26.,

Registrované v: WOS

3. [1.1] MERIN, M. G. - MORATA DE AMBROSINI, V. I. Highly cold-active pectinases under wine-like conditions from non-Saccharomyces yeasts for enzymatic production during winemaking. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2015, vol. 60, no. 5, pp. 467-474.,

Registrované v: WOS

ADCA111 BIELY, Peter - BENEN, Jacques - HEINRICHOVÁ, Kvetoslava - KESTER, Harry C.M. - VISSER, Jaap. Inversion of configuration during hydrolysis of alfa-1,4-galacturonidic linkage by three *Aspergillus* polygalacturonases. In *FEBS Letters*, 1996, vol. 382, p. 249-255. ISSN 1873-3468.

Ohlasy:

1. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In *NATURE REVIEWS CHEMISTRY*, 2020, vol. 4, no. 3, pp. 114-126. Dostupné na: <https://doi.org/10.1038/s41570-020-0163-6>., Registrované v: WOS

2. [1.1] SICHERT, Andreas - CORZETT, Christopher H. - SCHECHTER, Matthew S. - UNFRIED, Frank - MARKERT, Stephanie - BECHER, Dorte - FERNANDEZ-GUERRA, Antonio - LIEBEKE, Manuel - SCHWEDER, Thomas - POLZ, Martin F. - HEHEMANN, Jan-Hendrik. Verrucomicrobia use hundreds of enzymes to digest the algal polysaccharide fucoidan. In *NATURE MICROBIOLOGY*. ISSN 2058-5276, 2020, vol. 5, no. 8, pp. 1026-+. Dostupné na: <https://doi.org/10.1038/s41564-020-0720-2>.,

Registrované v: WOS

3. [1.1] WAGSCHAL, Kurt - STOLLER, J. Rose - CHAN, Victor J. - LEE, Charles C. - GRIGORESCU, Arabela A. - JORDAN, Douglas B. Expression and Characterization of Hyperthermostable Exo-polygalacturonase TtGH28 from *Thermotoga thermophilus*. In *MOLECULAR BIOTECHNOLOGY*. ISSN 1073-6085, 2016, vol. 58, no. 7, pp. 509-519.,

Registrované v: WOS

ADCA112 BIELY, Peter - DE VRIES, R.P. - VRŠANSKÁ, Mária - VISSER, J. Inverting character of α -glucuronidase A from *Aspergillus tubingensis*. In *Biochimica et Biophysica Acta*, 2000, vol.1474, no, p.360-364.

Ohlasy:

1. [1.1] GONG, Weili - ZHANG, Huaiqiang - TIAN, Li - LIU, Shijia - WU, Xiuyun - LI, Fuli - WANG, Lushan. Determination of the modes of action and synergies of xylanases by analysis of xylooligosaccharide profiles over time using fluorescence-assisted carbohydrate electrophoresis. In *ELECTROPHORESIS*. ISSN 0173-0835, 2016, vol. 37, no. 12, pp. 1640-1650.,

Registrované v: WOS

2. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In *BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION*, 2019, vol., no., pp. 427-445., Registrované v: WOS

3. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 alpha-glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
4. [1.1] SALEM, Hassan - KIRSCH, Roy - PAUCHET, Yannick - BERASATEGUI, Aileen - FUKUMORI, Kayoko - MORIYAMA, Minoru - CRIPPS, Michael - WINDSOR, Donald - FUKATSU, Takema - GERARDO, Nicole M. Symbiont Digestive Range Reflects Host Plant Breadth in Herbivorous Beetles. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2020, vol. 30, no. 15, pp. 2875-+. Dostupné na: <https://doi.org/10.1016/j.cub.2020.05.043>., Registrované v: WOS
5. [1.1] SEPTININGRUM, Krisna - OHI, Hiroshi - WAEONUKUL, Rattiya - PASON, Patthra - TACHAAPAIKON, Chakrit - RATANAKHANOKCHAI, Khanok - SERMSATHANASWADI, Junjarus - DENG, Lan - PRAWITWONG, Panida - KOSUGI, Akihiko. The GH67 alpha-glucuronidase of *Paenibacillus curdlanolyticus* B-6 removes hexenuronic acid groups and facilitates biodegradation of the model xylooligosaccharide hexenuronosyl xylotriase. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 71, no., pp. 28-35., Registrované v: WOS
6. [1.1] WANG, Weijun - YAN, Ruoyu - NOCEK, Boguslaw P. - VUONG, Thu V. - DI LEO, Rosa - XU, Xiaohui - CUI, Hong - GATENHOLM, Paul - TORIZ, Guillermo - TENKANEN, Maija - SAVCHENKO, Alexei - MASTER, Emma R. Biochemical and Structural Characterization of a Five-domain GH115-Glucuronidase from the Marine Bacterium *Saccharophagus degradans* 2-40(T). In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 27, pp. 14120-14133., Registrované v: WOS
7. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 alpha-Glucuronidase from *Bacillus halodurans* C-125. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS
8. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS
9. [1.2] RANA, Vandana - RANA, Diwakar. Role of microorganisms in lignocellulosic biodegradation. In *SpringerBriefs in Applied Sciences and Technology*. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 19-67., Registrované v: SCOPUS
10. [3.2] Group Author(s). Uniprot Consortium. O42814. IN Uniprot Consortium, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/O42814>, Registrované v: Dara Citation Index

ADCA113 BIELY, Peter - VRŠANSKÁ, Mária - KRÁTKY, Z.. Mechanism of substrate digestion by endo-1,4- β -xylanase of *Cryptococcus albidus*. Lysozyme type pattern action. In *European Journal of Biochemistry*, 1981, vol. 119, p. 565-571. ISSN 0014-2956.

Ohlasy:

1. [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] ENEYSKAYA, Elena V. - BOBROV, Kirill S. - KASHINA, Maria V. - BORISOVA, Anna S. - KULMINSKAYA, Anna A. A novel acid-tolerant beta-xylanase from *Scytalidium candidum* 3C for the synthesis of o-nitrophenyl xylooligosaccharides. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2020, vol. 60, no. 11-12, pp. 971-982. Dostupné na: <https://doi.org/10.1002/jobm.202000303>., Registrované v: WOS
3. [1.1] MALLAKUNTLA, Mohan Krishna - VAIKUNTAPU, Papa Rao - BHUVANACHANDRA, Bhoopal - PODILE, Appa Rao. Selection and mutational analyses of the substrate interacting residues of a chitinase from *Enterobacter cloacae* subsp. *cloacae* (EcChi2) to improve transglycosylation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2432-2441. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.125>., Registrované v: WOS
4. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS
5. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS

ADCA114 BIELY, Peter - KRÁTKY, Zdeno - BAUER, Štefan. Metabolism of 2-deoxy-D-glucose by baker's yeast. IV. In *Biochimica et Biophysica Acta*, 1972, vol. 255, p. 631-639.

Ohlasy:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS
2. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus Joseph Michael. Multifaceted Effects of Antimetabolite and Anticancer Drug, 2-Deoxyglucose on Eukaryotic Cancer Models Budding and Fission Yeast. In IUBMB LIFE. ISSN 1521-6543, 2017, vol. 69, no. 3, pp. 137-147., Registrované v: WOS

ADCA115 BIELY, Peter. Microbial glucuronoyl esterases: 10 years after discovery. In *Applied and Environmental Microbiology*, 2016, vol. 32, p. 7014-7018. (2015: 3.823 - IF, Q1 - JCR, 1.877 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.02396-16>

Ohlasy:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of

Glucuronoyl Esterases by Peptide Pattern Recognition. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS

3. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>, Registrované v: WOS

4. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS

5. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS

6. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOL, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c>, Registrované v: WOS

7. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS

8. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS

9. [1.1] WONG, Mabel T. - WANG, Weijun - COUTURIER, Marie - RAZEQ, Fakhria M. - LOMBARD, Vincent - LAPEBIE, Pascal - EDWARDS, Elizabeth A. - TERRAPON, Nicolas - HENRISSAT, Bernard - MASTER, Emma R. Comparative Metagenomics of Cellulose- and Poplar Hydrolysate-Degrading Microcosms from Gut Microflora of the Canadian Beaver (*Castor canadensis*)

and North American Moose (*Alces americanus*) after Long-Term Enrichment. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
 10. [1.1] WU, Guoyao. Feed Additives. In *PRINCIPLES OF ANIMAL NUTRITION*, 2018, vol., no., pp. 709-733., Registrované v: WOS

ADCA116 BIELY, Peter. Microbial carbohydrate esterases deacetylating plant polysaccharides. In *Biotechnology Advances*, 2012, vol. 30, p. 1575-1588. (2011: 9.646 - IF, Q1 - JCR, 3.118 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2012.04.010>

Ohlasy:

1. [1.1] ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - VIKRAM, Surendra - SEWELL, Bryan T. - SCHUBERT, Wolf-Dieter - COWAN, Don A. Structural Characterization and Directed Evolution of a Novel Acetyl Xylan Esterase Reveals Thermostability Determinants of the Carbohydrate Esterase 7 Family. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS
2. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
3. [1.1] BALSANELLI, Eduardo - TADRA-SFEIR, Michelle Z. - FAORO, Helisson - PANKIEVICZ, Vania C. S. - DE BAURA, Valter A. - PEDROSA, Fabio O. - DE SOUZA, Emanuel M. - DIXON, Ray - MONTEIRO, Rose A. Molecular adaptations of *Herbaspirillum seropedicae* during colonization of the maize rhizosphere. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2016, vol. 18, no. 8, pp. 2343-2356., Registrované v: WOS
4. [1.1] BI, Ran - BERGLUND, Jennie - VILAPLANA, Francisco - MCKEE, Lauren S. - HENRIKSSON, Gunnar. The degree of acetylation affects the microbial degradability of mannans. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2016, vol. 133, no., pp. 36-46., Registrované v: WOS
5. [1.1] BLACKMAN, Leila M. - CULLERNE, Darren P. - TORRENA, Pernelyn - TAYLOR, Jen - HARDHAM, Adrienne R. RNA-Seq Analysis of the Expression of Genes Encoding Cell Wall Degrading Enzymes during Infection of Lupin (*Lupinus angustifolius*) by *Phytophthora parasitica*. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 9, pp., Registrované v: WOS
6. [1.1] BUNTERNGSOOK, Benjarat - LAOTHANACHAREON, Thanaporn - CHOTIROTSUKON, Chayanon - INOUE, Hiroyuki - FUJII, Tatsuya - HOSHINO, Tamotsu - ROONGSAWANG, Niran - KUBOON, Sanchai - KRAITHONG, Wasawat - TECHANAN, Wikanda - KRAIKUL, Natthakorn - CHAMPREDA, Verawat. Development of tailor-made synergistic cellulolytic enzyme system for saccharification of steam exploded sugarcane bagasse. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 390-396., Registrované v: WOS
7. [1.1] CAMACHO-RUIZ, M. A. - CAMACHO-RUIZ, R. M. - ARMENDARIZ, M. - RAMIREZ-VELASCO, L. - ASAFF-TORRES, A. - LEVASSEUR, A. - MATEOS-DIAZ, J. C. - RODRIGUEZ, J. A. CORN BRAN

AS POTENTIAL SUBSTRATE FOR HIGH PRODUCTION OF FERULOYL AND ACETYLYLAN ESTERASES BY SOLID STATE FERMENTATION. In REVISTA MEXICANA DE INGENIERIA QUIMICA. ISSN 1665-2738, 2016, vol. 15, no. 1, pp. 11-21., Registrované v: WOS

8. [1.1] CUERVO-SOTO, Laura I. - VALDES-GARCIA, Gilberto - BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria - BALCAZAR-LOPEZ, Edgar - LIRA-RUAN, Veronica - PASTOR, Nina - LUIS FOLCH-MALLOL, Jorge. Identification of a novel carbohydrate esterase from *Bjerkandera adusta*: Structural and function predictions through bioinformatics analysis and molecular modeling. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS. ISSN 0887-3585, 2015, vol. 83, no. 3, pp. 533-546., Registrované v: WOS

9. [1.1] DA COSTA, Ricardo M. F. - PATTATHIL, Sivakumar - AVCI, Utku - LEE, Scott J. - HAZEN, Samuel P. - WINTERS, Ana - HAHN, Michael G. - BOSCH, Maurice. A cell wall reference profile for *Miscanthus* bioenergy crops highlights compositional and structural variations associated with development and organ origin. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1710-1725., Registrované v: WOS

10. [1.1] DA COSTA, Ricardo M. F. - PATTATHIL, Sivakumar - AVCI, Utku - WINTERS, Ana - HAHN, Michael G. - BOSCH, Maurice. Desirable plant cell wall traits for higher-quality miscanthus lignocellulosic biomass. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS

11. [1.1] DAHLHAUSEN, Katherine E. - JOSPIN, Guillaume - COIL, David A. - EISEN, Jonathan A. - WILKINS, Laetitia G. E. Isolation and sequence-based characterization of a koala symbiont: *Lonepinella koalarum*. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.7717/peerj.10177>., Registrované v: WOS

12. [1.1] DE MARES, Maryam Chaib - HESS, Jaqueline - FLOUDAS, Dimitrios - LIPZEN, Anna - CHOI, Cindy - KENNEDY, Megan - GRIGORIEV, Igor V. - PRINGLE, Anne. Horizontal transfer of carbohydrate metabolism genes into ectomycorrhizal *Amanita*. In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 205, no. 4, pp. 1552-1564., Registrované v: WOS

13. [1.1] DEL RAYO SANCHEZ-CARBENTE, Maria - ALBERTO BATISTA-GARCIA, Ramon - SANCHEZ-REYES, Ayixon - ESCUDERO-GARCIA, Angela - MORALES-HERRERA, Catalina - CUERVO-SOTO, Laura I. - FRENCH-PACHECO, Leidys - FERNANDEZ-SILVA, Arline - AMERO, Carlos - CASTILLO, Edmundo - LUIS FOLCH-MALLOL, Jorge. The first description of a hormone-sensitive lipase from a basidiomycete: Structural insights and biochemical characterization revealed *Bjerkandera adusta* BaEstB as a novel esterase. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2017, vol. 6, no. 4, pp., Registrované v: WOS

14. [1.1] DIAMOND, Spencer - ANDEER, Peter F. - LI, Zhou - CRITS-CHRISTOPH, Alexander - BURSTEIN, David - ANANTHARAMAN, Karthik - LANE, Katherine R. - THOMAS, Brian C. - PAN, Chongle - NORTHEN, Trent R. - BANFIELD, Jillian F. Mediterranean grassland soil C-N compound turnover is dependent on rainfall and depth, and is mediated by genomically divergent microorganisms. In NATURE MICROBIOLOGY. ISSN 2058-5276, 2019, vol. 4, no. 8, pp. 1356-1367., Registrované v: WOS

15. [1.1] DUNNE, Anthony - PALOMO, Jose M. Efficient and green approach for the complete deprotection of O-acetylated biomolecules. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 92, pp. 88974-88978., Registrované v: WOS
16. [1.1] EKSTRAND, E.M. - HEDENSTROM, M. - SVENSSON, B. H. - YEKTA, S. Shakeri - BJORN, A. Methane potentials and organic matter characterization of wood fibres from pulp and paper mills: The influence of raw material, pulping process and bleaching technique. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 143, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105824>., Registrované v: WOS
17. [1.1] EMINOGLU, Aysenur - ULKER, Serdar - SANDALLI, Cemal. Cloning, Purification and Characterization of Acetyl Xylane Esterase from *Anoxybacillus flavithermus* DSM 2641(T) with Activity on Low Molecular-Weight Acetates. In PROTEIN JOURNAL. ISSN 1572-3887, 2015, vol. 34, no. 4, pp. 237-242., Registrované v: WOS
18. [1.1] ESCUDERO, Viviana - JORDA, Lucia - SOPENA-TORRES, Sara - MELIDA, Hugo - MIEDES, Eva - MUNOZ-BARRIOS, Antonio - SWAMI, Sanjay - ALEXANDER, Danny - MCKEE, Lauren S. - SANCHEZ-VALLET, Andrea - BULONE, Vincent - JONES, Alan M. - MOLINA, Antonio. Alteration of cell wall xylan acetylation triggers defense responses that counterbalance the immune deficiencies of plants impaired in the beta-subunit of the heterotrimeric G-protein. In PLANT JOURNAL. ISSN 0960-7412, 2017, vol. 92, no. 3, pp. 386-399., Registrované v: WOS
19. [1.1] EZAHRA TABAGHT, Fatima - EL IDRISSE, Abderrahmane - AQIL, Mohamed - BENAHEMAD, Abdessamad - EL BARKANY, Soufian - BELLAOUCHI, Reda - ASEHRAOU, Abdeslam. SYNTHESIS AND CHARACTERIZATION OF (THIO)CARBAMATES BASED ON CELLULOSE AND CELLULOSE ACETATE: BIODEGRADATION AND SOLUBILITY STUDIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2020, vol. 54, no. 3-4, pp. 207-223. Dostupné na: <https://doi.org/10.35812/CelluloseChemTechnol.2020.54.23>., Registrované v: WOS
20. [1.1] FATIMA EZAHRA, Tabaght - ABDERRAHMANE, El Idrissi - NAFEA, Achelhi - REDOUANE, Elyousfi - REDA, Bellaouchi - ABDESLAM, Asehrou - ELBARKANY, Soufian. Grafting of fibrillated cellulose with acrylic compounds: Synthesis, Properties and Biodegradation. In MOROCCAN JOURNAL OF CHEMISTRY. ISSN 2351-812X, 2019, vol. 7, no. 4, pp. 595-614., Registrované v: WOS
21. [1.1] GONG, Ga - ZHOU, Saisai - LUO, Runbo - GESANG, Zhuoma - SUOLANG, Sizhu. Metagenomic insights into the diversity of carbohydrate-degrading enzymes in the yak fecal microbial community. In BMC MICROBIOLOGY. ISSN 1471-2180, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12866-020-01993-3>., Registrované v: WOS
22. [1.1] HASKE-CORNELIUS, Oskar - PELLIS, Alessandro - TEGE, Gregor - WURZ, Stefan - SAAKE, Bodo - LUDWIG, Roland - SEBASTIAN, Andries - NYANHONGO, Gibson S. - GUEBITZ, Georg M. Enzymatic Systems for Cellulose Acetate Degradation. In CATALYSTS. ISSN 2073-4344, 2017, vol. 7, no. 10, pp., Registrované v: WOS
23. [1.1] HEMSWORTH, Glyn R. - DEJEAN, Guillaume - DAVIES, Gideon J. - BRUMER, Harry. Learning from microbial strategies for

- polysaccharide degradation. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 94-108., Registrované v: WOS
24. [1.1] HENSKE, John K. - GILMORE, Sean P. - KNOP, Doriv - CUNNINGHAM, Francis J. - SEXTON, Jessica A. - SMALLWOOD, Chuck R. - SHUTTHANANDAN, Vaithiyalingam - EVANS, James E. - THEODOROU, Michael K. - O'MALLEY, Michelle A. Transcriptomic characterization of *Caecomyces churrovis*: a novel, non-rhizoid-forming lignocellulolytic anaerobic fungus. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
25. [1.1] HOWE, Adina - YANG, Fan - WILLIAMS, Ryan J. - MEYER, Folker - HOFMOCKEL, Kirsten S. Identification of the Core Set of Carbon-Associated Genes in a Bioenergy Grassland Soil. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS
26. [1.1] HUANG, Xiyin - ZHANG, Runji - QIU, Yijie - WU, Haibing - XIANG, Quanju - YU, Xiumei - ZHAO, Ke - ZHANG, Xiaoping - CHEN, Qiang - PENTTINEN, Petri - GU, Yunfu. RNA-seq Profiling Showed Divergent Carbohydrate-Active Enzymes (CAZymes) Expression Patterns in *Lentinula edodes* at Brown Film Formation Stage Under Blue Light Induction. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01044>., Registrované v: WOS
27. [1.1] CHEN, Long - GU, Wei - XU, Hai-yan - YANG, Gui-Lian - SHAN, Xiao-Feng - CHEN, Guang - KANG, Yuan-huan - WANG, Chun-Feng - QIAN, Ai-Dong. Comparative genome analysis of *Bacillus velezensis* reveals a potential for degrading lignocellulosic biomass. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 5, pp., Registrované v: WOS
28. [1.1] CHEN, Sye Jinn - LAM, Ming Quan - THEVARAJOO, Suganthi - ABD MANAN, Fazilah - YAHYA, Adibah - CHONG, Chun Shiong. Genome analysis of cellulose and hemicellulose degrading *Micromonospora* sp. CP22. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-2148-z>., Registrované v: WOS
29. [1.1] CHERNYSHEVA, Nadezhda - BYSTRITSKAYA, Evgeniya - STENKOVA, Anna - GOLOVKIN, Ilya - NEDASHKOVSKAYA, Olga - ISAEVA, Marina. Comparative Genomics and CAZyme Genome Repertoires of Marine *Zobellia amurskyensis* KMM 3526(T) and *Zobellia laminariae* KMM 3676(T). In MARINE DRUGS, 2019, vol. 17, no. 12, pp., Registrované v: WOS
30. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
31. [1.1] JONES, Darryl R. - THOMAS, Dallas - ALGER, Nicholas - GHAVIDEL, Ata - INGLIS, G. Douglas - ABBOTT, D. Wade. SACCHARIS: an automated pipeline to streamline discovery of carbohydrate active enzyme activities within polyspecific families and de novo sequence datasets. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
32. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99.,

Registrované v: WOS

33. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS
34. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
35. [1.1] KIM, Kyungmin - RYU, Bum Han - KIM, Sung Soo - AN, Deu Rae - NGO, Tri Duc - PANDIAN, Ramesh - KIM, Kyeong Kyu - KIM, T. Doohun. Structural and biochemical characterization of a carbohydrate acetylcetase from *Sinorhizobium meliloti* 1021. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 1, pp. 117-122., Registrované v: WOS
36. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from *Lactobacillus antri* and *Bacillus halodurans*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>., Registrované v: WOS
37. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS
38. [1.1] KOUTANIEMI, Sanna - TENKANEN, Maija. Action of three GH51 and one GH54 alpha-arabinofuranosidases on internally and terminally located arabinofuranosyl branches. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 229, no., pp. 22-30., Registrované v: WOS
39. [1.1] KUNDU, Chandan - LEE, Hong-Joo - LEE, Jae-Won. Enhanced bioethanol production from yellow poplar by deacetylation and oxalic acid pretreatment without detoxification. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 178, no., pp. 28-35., Registrované v: WOS
40. [1.1] KUNDU, Chandan - TRINH, Ly Thi Phi - LEE, Hong-Joo - LEE, Jae-Won. Bioethanol production from oxalic acid-pretreated biomass and hemicellulose-rich hydrolysates via a combined detoxification process. In FUEL. ISSN 0016-2361, 2015, vol. 161, no., pp. 129-136., Registrované v: WOS
41. [1.1] LA ROSA, Sabina Leanti - KACHRIMANIDOU, Vasiliki - BUFFETTO, Fanny - POPE, Phillip B. - PUDLO, Nicholas A. - MARTENS, Eric C. - RASTALL, Robert A. - GIBSON, Glenn R. - WESTERENG, Bjerge. Wood-Derived Dietary Fibers Promote Beneficial Human Gut Microbiota. In MSPHERE. ISSN 2379-5042, 2019, vol. 4, no. 1, pp., Registrované v: WOS
42. [1.1] LAPEBIE, Pascal - LOMBARD, Vincent - DRULA, Elodie - TERRAPON, Nicolas - HENRISSAT, Bernard. Bacteroidetes use thousands of enzyme combinations to break down glycans. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2019, vol. 10, no., pp., Registrované v: WOS

43. [1.1] LEE, Brady D. - APEL, William A. - SHERIDAN, Peter P. - DEVEAUX, Linda C. Glycoside hydrolase gene transcription by *Alicyclobacillus acidocaldarius* during growth on wheat arabinoxylan and monosaccharides: a proposed xylan hydrolysis mechanism. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
44. [1.1] LEO, Vincent V. - ASEM, Dhaneswaree - ZOTHANPUA - SINGH, Bhim P. Actinobacteria: A Highly Potent Source for Holocellulose Degrading Enzymes. In *NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: ACTINOBACTERIA: DIVERSITY AND BIOTECHNOLOGICAL APPLICATIONS*, 2018, vol., no., pp. 191-205., Registrované v: WOS
45. [1.1] LEPPANEN, Ilona - VIKMAN, Minna - HARLIN, Ali - ORELMA, Hannes. Enzymatic Degradation and Pilot-Scale Composting of Cellulose-Based Films with Different Chemical Structures. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2020, vol. 28, no. 2, pp. 458-470. Dostupné na: <https://doi.org/10.1007/s10924-019-01621-w>., Registrované v: WOS
46. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
47. [1.1] LIN, Yang - KING, Jennifer Y. - KARLEN, Steven D. - RALPH, John. Using 2D NMR spectroscopy to assess effects of UV radiation on cell wall chemistry during litter decomposition. In *BIOGEOCHEMISTRY*. ISSN 0168-2563, 2015, vol. 125, no. 3, pp. 427-436., Registrované v: WOS
48. [1.1] LIU, Shiping - DING, Shaojun. Replacement of carbohydrate binding modules improves acetyl xylan esterase activity and its synergistic hydrolysis of different substrates with xylanase. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2016, vol. 16, no., pp., Registrované v: WOS
49. [1.1] LI, Yuanqiu - LEI, Lu - ZHENG, Li - XIAO, Ximeng - TANG, Hao - LUO, Chaobing. Genome sequencing of gut symbiotic *Bacillus velezensis* LC1 for bioethanol production from bamboo shoots. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-1671-9>., Registrované v: WOS
50. [1.1] LUNIN, Vladimir V. - WANG, Hsin-Tzu - BHARADWAJ, Vivek S. - ALAHUHTA, Markus - PENA, Maria J. - YANG, Jeong-Yeh - ARCHER-HARTMANN, Stephanie A. - AZADI, Parastoo - HIMMEL, Michael E. - MOREMEN, Kelley W. - YORK, William S. - BOMBLE, Yannick J. - URBANOWICZ, Breeanna R. Molecular Mechanism of Polysaccharide Acetylation by the Arabidopsis Xylan O-acetyltransferase XOAT1. In *PLANT CELL*. ISSN 1040-4651, 2020, vol. 32, no. 7, pp. 2367-2382. Dostupné na: <https://doi.org/10.1105/tpc.20.00028>., Registrované v: WOS
51. [1.1] LUO, Xuming - CAO, Jidong - HUANG, Junkai - WANG, Zongyi - GUO, Zhengyan - CHEN, Yihua - MA, Shumei - LIU, Jun. Genome sequencing and comparative genomics reveal the potential pathogenic mechanism of *Cercospora soja* Hara on soybean. In *DNA RESEARCH*. ISSN 1340-2838, 2018, vol. 25, no. 1, pp. 25-37., Registrované v: WOS
52. [1.1] MAI-GISONDI, Galina - TURUNEN, Ossi - PASTINEN, Ossi - PAHIMANOLIS, Nikolaos - MASTER, Emma R. Enhancement of acetyl xylan

esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 79-80, no., pp. 27-33., Registrované v: WOS

53. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

54. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

55. [1.1] MANAVALAN, Tamilvendan - LIU, Rui - ZHOU, Zhihua - ZOU, Gen. Optimization of acetyl xylan esterase gene expression in *Trichoderma reesei* and its application to improve the saccharification efficiency on different biomasses. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 160-166., Registrované v: WOS

56. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>., Registrované v: WOS

57. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOL, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c>., Registrované v: WOS

58. [1.1] MOHAPATRA, Sonali - MISHRA, Suruchee Samparana - BHALLA, Prerna - THATOI, Hrudayanath. Engineering grass biomass for sustainable and enhanced bioethanol production. In *PLANTA*. ISSN 0032-0935, 2019, vol. 250, no. 2, pp. 395-412., Registrované v: WOS

59. [1.1] MOREIRA, L. R. S. - FILHO, E. X. F. Insights into the mechanism of enzymatic hydrolysis of xylan. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 12, pp. 5205-5214., Registrované v: WOS

60. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>.,

Registrované v: WOS

61. [1.1] MUNOZ-BARRIOS, Antonio - SOPENA-TORRES, Sara - RAMOS, Brisa - LOPEZ, Gemma - DEL HIERRO, Irene - DIAZ-GONZALEZ, Sandra - GONZALEZ-MELENDE, Pablo - MELIDA, Hugo - FERNANDEZ-CALLEJA, Vanessa - MIXAO, Veronica - MARTIN-DACAL, Marina - MARCET-HOUBEN, Marina - GABALDON, Toni - SACRISTAN, Soledad - MOLINA, Antonio. Differential Expression of Fungal Genes Determines the Lifestyle of *Plectosphaerella* Strains During *Arabidopsis thaliana* Colonization. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2020, vol. 33, no. 11, pp. 1299-1314. Dostupné na: <https://doi.org/10.1094/MPMI-03-20-0057-R>, Registrované v: WOS
62. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
63. [1.1] OH, Changsuk - KIM, T. Doohun - KIM, Kyeong Kyu. Carboxylic Ester Hydrolases in Bacteria: Active Site, Structure, Function and Application. In CRYSTALS. ISSN 2073-4352, 2019, vol. 9, no. 11, pp., Registrované v: WOS
64. [1.1] OH, Changsuk - RYU, Bum Han - AN, Deu Rae - DUY DUC NGUYEN - YOO, Wanki - KIM, Truc - TRI DUC NGO - KIM, Hee Sook - KIM, Kyeong Kyu - KIM, T. Doohun. Structural and Biochemical Characterization of an Octameric Carbohydrate Acetyltransferase from *Sinorhizobium meliloti*. In FEBS LETTERS. ISSN 0014-5793, 2016, vol. 590, no. 8, pp. 1242-1252., Registrované v: WOS
65. [1.1] ONAGA, Geoffrey - WYDRA, Kerstin D. - KOOPMANN, Birger - SERE, Yakouba - VON TIEDEMANN, Andreas. Elevated temperature increases in planta expression levels of virulence related genes in *Magnaporthe oryzae* and compromises resistance in *Oryza sativa* cv. Nipponbare. In FUNCTIONAL PLANT BIOLOGY. ISSN 1445-4408, 2017, vol. 44, no. 3, pp. 358-371., Registrované v: WOS
66. [1.1] PARK, Young-Jin - JEONG, Yong-Un - KONG, Won-Sik. Genome Sequencing and Carbohydrate-Active Enzyme (CAZyme) Repertoire of the White Rot Fungus *Flammulina elastica*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 8, pp., Registrované v: WOS
67. [1.1] PARK, Young-Jin - KONG, Won-Sik. Genome-Wide Comparison of Carbohydrate-Active Enzymes (CAZymes) Repertoire of *Flammulina ononidis*. In MYCOBIOLOGY. ISSN 1229-8093, 2018, vol. 46, no. 4, pp. 349-360., Registrované v: WOS
68. [1.1] PARK, Young-Jin - LEE, Chang-Soo - KONG, Won-Sik. Genomic Insights into the Fungal Lignocellulolytic Machinery of *Flammulina rossica*. In MICROORGANISMS, 2019, vol. 7, no. 10, pp., Registrované v: WOS
69. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GOMEZ, Leonardo D. - MIEDES, Eva - BANASIAK, Alicja - RATKE, Christine - GAERTNER, Cyril - MOUILLE, Gregory - MCQUEEN-MASON, Simon J. - MOLINA, Antonio - SELLSTEDT,

- Anita - TENKANEN, Maija - MELLEROWICZ, Ewa J. Expression of fungal acetyl xylan esterase in *Arabidopsis thaliana* improves saccharification of stem lignocellulose. In *PLANT BIOTECHNOLOGY JOURNAL*. ISSN 1467-7644, 2016, vol. 14, no. 1, pp. 387-397., Registrované v: WOS
70. [1.1] PAWAR, Prashant Mohan-Anupama - RATKE, Christine - BALASUBRAMANIAN, Vimal K. - CHONG, Sun-Li - GANDLA, Madhavi Latha - ADRIASOLA, Mathilda - SPARRMAN, Tobias - HEDENSTROM, Mattias - SZWAJ, Klaudia - DERBA-MACELUCH, Marta - GAERTNER, Cyril - MOUILLE, Gregory - EZCURRA, Ines - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 214, no. 4, pp. 1491-1505., Registrované v: WOS
71. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
72. [1.1] QIAN KUN - LI DENG-HUI - LIN RUN-MAO - SHI QIAN-QIAN - MAO ZHEN-CHUAN - YANG YU-HONG - FENG DONG-XIN - XIE BING-YAN. Rediscovery and analysis of *Phytophthora* carbohydrate esterase (CE) genes revealing their evolutionary diversity. In *JOURNAL OF INTEGRATIVE AGRICULTURE*. ISSN 2095-3119, 2018, vol. 17, no. 4, pp. 878-891., Registrované v: WOS
73. [1.1] RAVN, J. L. - GLITSO, V. - PETTERSSON, D. - DUCATELLE, R. - VAN IMMERSEEL, F. - PEDERSEN, N. R. Combined endo-beta-1,4-xylanase and alpha-L-arabinofuranosidase increases butyrate concentration during broiler cecal fermentation of maize glucurono-arabinoxylan. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 236, no., pp. 159-169., Registrované v: WOS
74. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
75. [1.1] REINA, Rocio - GARCIA-SANCHEZ, Mercedes - LIERS, Christiane - GARCIA-ROMERA, Inmaculada - ARANDA, Elisabet. An Overview of Fungal Applications in the Valorization of Lignocellulosic Agricultural By-Products: The Case of Two-Phase Olive Mill Wastes. In *MYCOREMEDIATION AND ENVIRONMENTAL SUSTAINABILITY*, VOL 2. ISSN 2198-7777, 2018, vol., no., pp. 213-238., Registrované v: WOS
76. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
77. [1.1] SONG, Tingting - SHEN, Yingyue - JIN, Qunli - FENG, Weilin - FAN, Lijun - CAI, Weiming. Comparative phosphoproteome analysis to identify candidate phosphoproteins involved in blue light-induced brown film formation in *Lentinula edodes*. In *PEERJ*. ISSN 2167-8359, 2020, vol. 8, no., pp.

- Dostupné na: <https://doi.org/10.7717/peerj.9859>., Registrované v: WOS
78. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS
79. [1.1] TABAGHT, Fatima Ezahra - EL IDRISSI, Abderrahmane - BELLAOUCHI, Reda - ASEHRAOU, Abdeslam - AQIL, Mohamed - EL BARKANY, Soufian - BENARBIA, Abderrahim - ACHALHI, Nafea - TAHANI, Abdesselam. Cellulose grafted aliphatic polyesters: Synthesis, characterization and biodegradation under controlled conditions in a laboratory test system. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2020, vol. 1205, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2019.127582>., Registrované v: WOS
80. [1.1] TAPADIA-MAHESHWARI, Sneha - PORE, Soham - ENGINEER, Anupama - SHETTY, Deepa - DAGAR, Sumit S. - DHAKEPHALKAR, Prashant K. Illustration of the microbial community selected by optimized process and nutritional parameters resulting in enhanced biomethanation of rice straw without thermo-chemical pretreatment. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2019, vol. 289, no., pp., Registrované v: WOS
81. [1.1] TOH, Yue Fen - YEW, Su Mei - CHAN, Chai Ling - NA, Shiang Ling - LEE, Kok Wei - HOH, Chee-Choong - YEE, Wai-Yan - NG, Kee Peng - KUAN, Chee Sian. Genome Anatomy of *Pyrenochaeta unguis-hominis* UM 256, a Multidrug Resistant Strain Isolated from Skin Scraping. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 9, pp., Registrované v: WOS
82. [1.1] TONG, Xiaoxue - LANGE, Lene - GRELL, Morten Nedergaard - BUSK, Peter Kamp. Hydrolysis of Wheat Arabinoxylan by Two Acetyl Xylan Esterases from *Chaetomium thermophilum*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 175, no. 2, pp. 1139-1152., Registrované v: WOS
83. [1.1] UECHI, Keiko - KAMACHI, Saori - AKITA, Hironaga - MINE, Shouhei - WATANABE, Masahiro. Crystal structure of an acetyl esterase complexed with acetate ion provides insights into the catalytic mechanism. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2016, vol. 477, no. 3, pp. 383-387., Registrované v: WOS
84. [1.1] VAN DER NEST, Magriet A. - STEENKAMP, Emma T. - ROODT, Danielle - SOAL, Nicole C. - PALMER, Marike - CHAN, Wai-Yin - WILKEN, P. Markus - DUONG, Tuan A. - NAIDOO, Kershney - SANTANA, Quentin C. - TROLLIP, Conrad - DE VOS, Lieschen - VAN WYK, Stephanie - MCTAGGART, Alistair R. - WINGFIELD, Michael J. - WINGFIELD, Brenda D. Genomic analysis of the aggressive tree pathogen *Ceratocystis albifundus*. In *FUNGAL BIOLOGY*. ISSN 1878-6146, 2019, vol. 123, no. 5, pp. 351-363., Registrované v: WOS
85. [1.1] WANG, Lijun - ZHANG, Guangning - XU, Hongjian - XIN, Hangshu - ZHANG, Yonggen. Metagenomic Analyses of Microbial and Carbohydrate-Active Enzymes in the Rumen of Holstein Cows Fed Different Forage-to-Concentrate Ratios. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
86. [1.1] WANG, Mengmeng - MIAO, Jiaxi - WANG, Xuanqing - LI,

- Tuo - ZHU, Han - LIU, Dongyang - SHEN, Qirong. Genomic and Transcriptome Analyses of a Thermophilic Bacterium *Geobacillus stearothermophilus* B5 Isolated from Compost Reveal Its Enzymatic Basis for Lignocellulose Degradation. In MICROORGANISMS, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8091357>., Registrované v: WOS
87. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetylxytan esterase activities. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS
88. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
89. [1.1] WATABE, Y. - SUZUKI, Y. - KOIKE, S. - SHIMAMOTO, S. - KOBAYASHI, Y. Cellulose acetate, a new candidate feed supplement for ruminant animals: In vitro evaluations. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2018, vol. 101, no. 12, pp. 10929-10938., Registrované v: WOS
90. [1.1] WATANABE, Masahiro - FUKADA, Harumi - INOUE, Hiroyuki - ISHIKAWA, Kazuhiko. Crystal structure of an acetyl esterase from *Talaromyces cellulolyticus* and the importance of a disulfide bond near the active site. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 11, pp. 1200-1206., Registrované v: WOS
91. [1.1] WU, Guojun - ZHANG, Chenhong - WU, Huan - WANG, Ruirui - SHEN, Jian - WANG, Linghua - ZHAO, Yufeng - PANG, Xiaoyan - ZHANG, Xiaojun - ZHAO, Liping - ZHANG, Menghui. Genomic Microdiversity of *Bifidobacterium pseudocatenulatum* Underlying Differential Strain-Level Responses to Dietary Carbohydrate Intervention. In MBIO. ISSN 2150-7511, 2017, vol. 8, no. 1, pp., Registrované v: WOS
92. [1.1] WU, Liang - DAVIES, Gideon J. An Overview of the Structure, Mechanism and Specificity of Human Heparanase. In HEPARANASE: FROM BASIC RESEARCH TO CLINICAL APPLICATIONS. ISSN 0065-2598, 2020, vol. 1221, no., pp. 139-167. Dostupné na: https://doi.org/10.1007/978-3-030-34521-1_5., Registrované v: WOS
93. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
94. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no.

- 4, pp. 561-570., Registrované v: WOS
95. [1.1] XIE, Chunliang - GONG, Wenbing - ZHU, Zuohua - YAN, Li - HU, Zhenxiu - PENG, Yuande. Comparative transcriptomics of *Pleurotus eryngii* reveals blue-light regulation of carbohydrate-active enzymes (CAZymes) expression at primordium differentiated into fruiting body stage. In GENOMICS. ISSN 0888-7543, 2018, vol. 110, no. 3, pp. 201-209., Registrované v: WOS
96. [1.1] XIE, Jialian - LI, Shaojun - MO, Chenmi - XIAO, Xueqiong - PENG, Deliang - WANG, Gaofeng - XIAO, Yannong. Genome and Transcriptome Sequences Reveal the Specific Parasitism of the Nematophagous *Purpureocillium lilacinum* 36-1. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
97. [1.1] YANG, Yi - YANG, Jinshui - LIU, Jiawen - WANG, Ruonan - LIU, Liang - WANG, Fengqin - YUAN, Hongli. The composition of accessory enzymes of *Penicillium chrysogenum* P33 revealed by secretome and synergistic effects with commercial cellulase on lignocellulose hydrolysis. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 257, no., pp. 54-61., Registrované v: WOS
98. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS
99. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling - WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In NATURE PLANTS. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS
100. [1.1] ZHANG, Wenping - LIU, Wenbin - HOU, Rong - ZHANG, Liang - SCHMITZ-ESSER, Stephan - SUN, Huaibo - XIE, Junjin - ZHANG, Yunfei - WANG, Chengdong - LI, Lifeng - YUE, Bisong - HUANG, He - WANG, Hairui - SHEN, Fujun - ZHANG, Zhihe. Age-associated microbiome shows the giant panda lives on hemicelluloses, not on cellulose. In ISME JOURNAL. ISSN 1751-7362, 2018, vol. 12, no. 5, pp. 1319-1328., Registrované v: WOS
101. [1.1] ZHOU, Saisai - LUO, Runbo - GONG, Ga - WANG, Yifei - GESANG, Zhuoma - WANG, Kai - XU, Zhuofei - SUOLANG, Sizhu. Characterization of Metagenome-Assembled Genomes and Carbohydrate-Degrading Genes in the Gut Microbiota of Tibetan Pig. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.595066>., Registrované v: WOS
102. [1.1] ZURAWSKI, Jeffrey V. - CONWAY, Jonathan M. - LEE, Laura L. - SIMPSON, Hunter J. - IZQUIERDO, Javier A. - BLUMER-SCHUETTE, Sara - NOOKAEW, Intawat - ADAMS, Michael W. W. - KELLY, Robert M. Comparative Analysis of Extremely Thermophilic *Caldicellulosiruptor* Species Reveals Common and Unique Cellular Strategies for Plant Biomass Utilization. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 20, pp. 7159-7170., Registrované v: WOS
103. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural

Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS

104. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In *New and Future Developments in Microbial Biotechnology and Bioengineering: Aspergillus System Properties and Applications*, 2016-08-05, pp. 171-190., Registrované v: SCOPUS

105. [1.2] GONZÁLEZ-GONZÁLEZ, Roberto - FUCÍNOS, Pablo - RÚA, María Luisa. An overview on Extremophilic esterases. In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 181-204., Registrované v: SCOPUS

106. [1.2] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Gene expression metadata analysis reveals molecular mechanisms employed by *Phanerochaete chrysosporium* during lignin degradation and detoxification of plant extractives. In *Current Genetics*. ISSN 01728083, 2017-10-01, 63, 5, pp. 877-894., Registrované v: SCOPUS

107. [1.2] LEE, Chang Soo - KONG, Won Sik - PARK, Young Jin. Genome sequencing and genome-wide identification of carbohydrate-active enzymes (CAZymes) in the white rot fungus *Flammulina fennae*. In *Microbiology and Biotechnology Letters*. ISSN 1598642X, 2018-09-01, 46, 3, pp. 300-312., Registrované v: WOS

108. [1.2] MOKOENA, Nobalanda - MATHIBA, Kgama - TSEKOA, Tsepo - STEENKAMP, Paul - RASHAMUSE, Konanani. Application of termite hindgut metagenome derived carboxyl ester hydrolases in the modification of cephalosporin substrates. In *Biochemistry and Biophysics Reports*, 2015-12-01, 4, pp. 44-51., Registrované v: SCOPUS

109. [1.2] NGHI, Do Huu - ULLRICH, René - MORITZ, Franco - HUONG, Le Mai - GIAP, Vu Dinh - CHI, Do Huu - HOFRICHTER, Martin - LIERS, Christiane. The ascomycete *Xylaria polymorpha* produces an acetyl esterase that solubilises beech wood material to release water-soluble lignin fragments. In *Journal of the Korean Society for Applied Biological Chemistry*. ISSN 17382203, 2015-06-01, 58, 3, pp. 415-421., Registrované v: SCOPUS

110. [1.2] RUDAKOVA, A. S. - RUDAKOV, S. V. - ARTEMYEVA, A. M. - FATEEV, D. A. - KOCHERINA, N. V. - CHESNOKOV, Y. V. Qtl mapping of esterase isozyme forms in *Brassica rapa* L. Mature seeds. In *Sel'skokhozyaistvennaya Biologiya*. ISSN 01316397, 2019-01-01, 54, 3, pp. 469-480., Registrované v: SCOPUS

ADCA117 BIELY, Peter. Microbial xylanolytic systems. In *Trends in Biotechnology*, 1985, vol. 3, no. 11, p. 286-290. ISSN 0167-7799. Dostupné na: [https://doi.org/10.1016/0167-7799\(85\)90004-6](https://doi.org/10.1016/0167-7799(85)90004-6)

Ohlasy:

1. [1.1] ABDEL-AZEEM, Ahmed M. - EL-MANSY, Shima A. - NAHAS, Hebat Allah H. Abo - MOUSA, Mariam K. - GANDAL, Hossam E. - HAMDY, Salma E. - EL-ANSARY, Mahmoud M. - ABDEL-AZEEM, Mohamed A. Thermophilic *Chaetomium* in Biotechnology. In *RECENT DEVELOPMENTS ON GENUS CHAETOMIUM*. ISSN 2198-7777, 2020, vol., no., pp. 421-439. Dostupné na: https://doi.org/10.1007/978-3-030-31612-9_16, Registrované v: WOS

2. [1.1] ALVAREZ-CERVANTES, Jorge - DIAZ-GODINEZ, Gerardo -

- MERCADO-FLORES, Yuridia - GUPTA, Vijai Kumar - ANDUCHO-REYES, Miguel Angel. Phylogenetic analysis of beta-xylanase SRXL1 of *Sporisorium reilianum* and its relationship with families (GH10 and GH11) of Ascomycetes and Basidiomycetes. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
3. [1.1] AMOOZEGAR, Mohammad Ali - SIROOSI, Maryam - ATASHGAHI, Siavash - SMIDT, Hauke - VENTOSA, Antonio. Systematics of haloarchaea and biotechnological potential of their hydrolytic enzymes. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2017, vol. 163, no. 5, pp. 623-645., Registrované v: WOS
4. [1.1] ANGELA SAINZ-POLO, Maria - GONZALEZ, Beatriz - JAVIER PASTOR, F. I. - SANZ-APARICIO, Julia. Crystallization and preliminary X-ray diffraction analysis of the N-terminal domain of *Paenibacillus barcinonensis* xylanase 10C containing the CBM22-1-CBM22-2 tandem. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS. ISSN 1744-3091, 2015, vol. 71, no., pp. 136-140., Registrované v: WOS
5. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
6. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
7. [1.1] BAI, Wenqin - XUE, Yanfen - ZHOU, Cheng - MA, Yanhe. Cloning, expression, and characterization of a novel alkali-tolerant xylanase from alkaliphilic *Bacillus* sp SN5. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2015, vol. 62, no. 2, pp. 208-217., Registrované v: WOS
8. [1.1] BAI, Wenqin - ZHOU, Cheng - ZHAO, Yueju - WANG, Qinhong - MA, Yanhe. Structural Insight into and Mutational Analysis of Family 11 Xylanases: Implications for Mechanisms of Higher pH Catalytic Adaptation. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 7, pp., Registrované v: WOS
9. [1.1] BASU, Moumita - KUMAR, Vishal - SHUKLA, Pratyosh. Recombinant Approaches for Microbial Xylanases: Recent Advances and Perspectives. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 87-99., Registrované v: WOS
10. [1.1] BENSUSSAN, Matthieu - LEFEBVRE, Valerie - DUCAMP, Aloise - TROUVERIE, Jacques - GINEAU, Emilie - FORTABAT, Marie-Noelle - GUILLEBAUX, Alexia - BALDY, Aurelie - NAQUIN, Delphine - HERBETTE, Stephane - LAPIERRE, Catherine - MOUILLE, Gregory - HORLOW, Christine - DURAND-TARDIF, Mylene. Suppression of Dwarf and irregular xylem Phenotypes Generates Low-Acetylated Biomass Lines in *Arabidopsis*. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 168, no. 2, pp. 452-+, Registrované v: WOS
11. [1.1] BERTEL-SEVILLA, Angela - CERVANTES-CEBALLOS, Leonor - TIRADO-BALLESTAS, Irina - MALDONADO-ROJAS, Wilson -

- ALZATE-RESTREPO, Juan - OLIVERO-VERBEL, Jesus. Biodegradation of biodiesel-oil by Cellulosimicrobium sp. Isolated from Colombian Caribbean soils. In ENVIRONMENTAL TECHNOLOGY. ISSN 0959-3330, 2020, vol. 41, no. 18, pp. 2337-2349. Dostupné na: <https://doi.org/10.1080/09593330.2018.1564798>., Registrované v: WOS
12. [1.1] BOONDAENG, Antika - KRAJANGSANG, Sukhumaporn - TRAKUNJAE, Chanaporn - LOMTHONG, Thanasak - TOKUYAMA, Shinji - KITPREECHAVANICH, Vichien. Optimization, Purification and Characterization of beta-xylanase by a Novel Thermotolerant Strain of Microbispora siamensis, DMKUA 245(T). In CHIANG MAI JOURNAL OF SCIENCE. ISSN 0125-2526, 2018, vol. 45, no. 6, pp. 2267-2282., Registrované v: WOS
13. [1.1] BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - QUYEN DINH THI - GIANG VAN NGUYEN - BASCHIEN, Christiane - YURKOV, Andrey - HAHNKE, Richard L. - SCHAEFER, Wilhelm - GAND, Martin. A unique fungal strain collection from Vietnam characterized for high performance degraders of bioecological important biopolymers and lipids. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
14. [1.1] BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - HARDER, Soenke - SCHLUETER, Hartmut - HAHNKE, Richard L. - RUEHL, Martin - SCHAEFER, Wilhelm - GAND, Martin. Aspergillus sydowii: Genome Analysis and Characterization of Two Heterologous Expressed, Non-redundant Xylanases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.573482>., Registrované v: WOS
15. [1.1] BUANAFINA, Marcia M. de O. - DALTON, Sue - LANGDON, Tim - TIMMS-TARAVELLA, E. - SHEARER, Erica A. - MORRIS, Phillip. Functional co-expression of a fungal ferulic acid esterase and a beta-1,4 endoxylanase in Festuca arundinacea (tall fescue) modifies post-harvest cell wall deconstruction. In PLANTA. ISSN 0032-0935, 2015, vol. 242, no. 1, pp. 97-111., Registrované v: WOS
16. [1.1] CAYETANO-CRUZ, Maribel - PEREZ DE LOS SANTOS, Ara Itzel - GARCIA-HUANTE, Yolanda - SANTIAGO-HERNANDEZ, Alejandro - PAVON-OROZCO, Patricia - ERIC LOPEZ Y LOPEZ, Victor - EUGENIA HIDALGO-LARA, Maria. High level expression of a recombinant xylanase by Pichia pastoris cultured in a bioreactor with methanol as the sole carbon source: Purification and biochemical characterization of the enzyme. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2016, vol. 112, no., pp. 161-169., Registrované v: WOS
17. [1.1] CONEJO-SAUCEDO, Ulises - CANO-CAMACHO, Horacio - VILLA-RIVERA, Maria G. - LARA-MARQUEZ, Alicia - LOPEZ-ROMERO, Everardo - ZAVALA-PARAMO, Maria G. Protein homology modeling, docking, and phylogenetic analyses of an endo-1,4-beta-xylanase GH11 of Colletotrichum lindemuthianum. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2017, vol. 16, no. 6, pp. 577-591., Registrované v: WOS
18. [1.1] DAS, Arundhati - RAY, Lalitauri. Production of crude xylanase using a isolated fungal strain Aspergillus sp.S6 by solid state fermentation. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2016, vol. 3, no. 10, pp. 3343-3360., Registrované v: WOS

19. [1.1] DE O BUANAFINA, Marcia M. - FERNANDA BUANAFINA, M. - LAREMORE, Tatiana - SHEARER, Erica A. - FESCEMYER, Howard W. Characterization of feruloyl esterases in maize pollen. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 6, pp. 2063-2082., Registrované v: WOS
20. [1.1] DE PAEPE, Kim - VERSPREET, Joran - COURTIN, Christophe M. - VAN DE WIELE, Tom. Microbial succession during wheat bran fermentation and colonisation by human faecal microbiota as a result of niche diversification. In ISME JOURNAL. ISSN 1751-7362, 2020, vol. 14, no. 2, pp. 584-596. Dostupné na: <https://doi.org/10.1038/s41396-019-0550-5>., Registrované v: WOS
21. [1.1] DEHNAVI, Ehsan - FATHI-ROUDSARI, Mehrnoosh - MIRZAIE, Sako - ARAB, Seyed Shahriar - SIADAT, Seyed Omid Ranaei - KHAJEH, Khosro. Engineering disulfide bonds in Selenomonas ruminantium beta-xylosidase by experimental and computational methods. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 248-255., Registrované v: WOS
22. [1.1] DEHNAVI, Ehsan - MOEINI, Soheila - AKBARZADEH, Ali - DABIRMANESH, Bahareh - SIADAT, Seyed Omid Ranaei - KHAJEH, Khosro. Improvement of Selenomonas ruminantium beta-xylosidase thermal stability by replacing buried free cysteines via site directed mutagenesis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 136, no., pp. 352-358., Registrované v: WOS
23. [1.1] DEHNAVI, Ehsan - SIADAT, Seyed Omid Ranaei - ROUDSARI, Mehrnoosh Fathi - KHAJEH, Khosro. Cloning and high-level expression of beta-xylosidase from Selenomonas ruminantium in Pichia pastoris by optimizing of pH, methanol concentration and temperature conditions. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2016, vol. 124, no., pp. 55-61., Registrované v: WOS
24. [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
25. [1.1] DIXIT, Prashant P. - DESHMUKH, Arvind M. XYLANASE from STREPTOMYCES HYGROSCOPICUS under Solid State Fermentation. In INTERNATIONAL JOURNAL OF ADVANCED BIOTECHNOLOGY AND RESEARCH. ISSN 0976-2612, 2016, vol. 7, no. 1, pp. 38-46., Registrované v: WOS
26. [1.1] DUTTA, Sajal Kanti - CHAKRABORTY, Saikat. Kinetic analysis of two-phase enzymatic hydrolysis of hemicellulose of xylan type. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 198, no., pp. 642-650., Registrované v: WOS
27. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus Penicillium purpurogenum. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
28. [1.1] FANCHINI TERRASAN, Cesar Rafael - CARMONA, Eleonora Cano. SOLID-STATE FERMENTATION OF BREWER'S SPENT GRAIN FOR XYLANOLYTIC ENZYMES PRODUCTION BY Penicillium janczewskii AND ANALYSES OF THE FERMENTED SUBSTRATE. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2015, vol. 31, no. 6, pp. 1826-1836., Registrované

v: WOS

29. [1.1] FANCHINI TERRASAN, Cesar Rafael - MANUEL GUIBAN, Jose - CARMONA, Eleonora Cano. Xylanase and beta-xylosidase from *Penicillium janczewskii*: Purification, characterization and hydrolysis of substrates. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2016, vol. 23, no., pp. 54-62., Registrované v: WOS
30. [1.1] FANCHINI TERRASAN, Cesar Rafael - CASALE ARAGON, Caio - CHODI MASUI, Douglas - COSTA PESSELA, Benevides - FERNANDEZ-LORENTE, Gloria - CARMONA, Eleonora Cano - MANUEL GUIBAN, Jose. beta-xylosidase from *Selenomonas ruminantium*: Immobilization, stabilization, and application for xylooligosaccharide hydrolysis. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2016, vol. 34, no. 4, pp. 161-171., Registrované v: WOS
31. [1.1] FARIA, Syd Pereira - DE MELO, Guilhermar Ramos - CINTRA, Lorena Cardoso - RAMOS, Luiz Pereira - AMORIM JESUINO, Rosalia Santos - ULHOA, Cirano Jose - DE FARIA, Fabricia Paula. Production of cellulases and xylanases by *Humicola grisea* var. *thermoidea* and application in sugarcane bagasse arabinoxylan hydrolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112968>., Registrované v: WOS
32. [1.1] FLEURI, Luciana Francisco - OKINO DELGADO, Clarissa Hamaio - NOVELLI, Paula Kern - PIVETTA, Mayara Rodrigues - DO PRADO, Debora Zanon - SIMON, Juliana Wagner. Enzymes in Fruit Juice and Vegetable Processing. In ENZYMES IN FOOD AND BEVERAGE PROCESSING, 2016, vol., no., pp. 255-279., Registrované v: WOS
33. [1.1] GARG, Sarika. Xylanase: Applications in Biofuel Production. In CURRENT METABOLOMICS. ISSN 2213-235X, 2016, vol. 4, no. 1, pp. 23-37., Registrované v: WOS
34. [1.1] GAUTAM, Roshan Lal - SINGH, Shweta - KUMARI, Simpal - GUPTA, Archana - NARAIAN, R. Basic Mechanism of Lignocellulose Mycodegradation. In MYCODEGRADATION OF LIGNOCELLULOSES. ISSN 2198-7777, 2019, vol., no., pp. 1-22., Registrované v: WOS
35. [1.1] GONCALVES, Geisa A. L. - TAKASUGI, Yusaku - JIA, Lili - MORI, Yutaro - NODA, Shuhei - TANAKA, Tsutomu - ICHINOSE, Hirofumi - KAMIYA, Noriho. Synergistic effect and application of xylanases as accessory enzymes to enhance the hydrolysis of pretreated bagasse. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 72, no., pp. 16-24., Registrované v: WOS
36. [1.1] GONG, Weili - ZHANG, Huaiqiang - TIAN, Li - LIU, Shijia - WU, Xiuyun - LI, Fuli - WANG, Lushan. Determination of the modes of action and synergies of xylanases by analysis of xylooligosaccharide profiles over time using fluorescence-assisted carbohydrate electrophoresis. In ELECTROPHORESIS. ISSN 0173-0835, 2016, vol. 37, no. 12, pp. 1640-1650., Registrované v: WOS
37. [1.1] GRAMANY, Vashni - KHAN, Faez Iqbal - GOVENDER, Algasan - BISETTY, Krishna - SINGH, Suren - PERMAUL, Kugenthiren. Cloning, expression, and molecular dynamics simulations of a xylosidase obtained from *Thermomyces lanuginosus*. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2016, vol. 34, no. 8, pp. 1681-1692., Registrované v: WOS

38. [1.1] GUMEROV, Vadim M. - RAKITIN, Andrey L. - MARDANOV, Andrey V. - RAVIN, Nikolai V. A Novel Highly Thermostable Multifunctional Beta-Glycosidase from Crenarchaeon Acidilobus saccharovorans. In ARCHAEA-AN INTERNATIONAL MICROBIOLOGICAL JOURNAL. ISSN 1472-3646, 2015, vol., no., pp., Registrované v: WOS
39. [1.1] GUPTA, Praveen Kumar - CHOUDHARY, Shreya - CHANDRANANTHI, C. - EVELINE, J. Sharon - SUSHMITHA, S. P. - HIREMATH, Lingayya - SRIVASTAVA, Ajeet Kumar - KUMAR, S. Narendra. Fungal Biodiversity Producing Xylanase Enzymes Involved in Efficient Uses of Xylanolysis. In MYCODEGRADATION OF LIGNOCELLULOSES. ISSN 2198-7777, 2019, vol., no., pp. 51-63., Registrované v: WOS
40. [1.1] HERNANDEZ-DOMINGUEZ, Edna M. - ALVAREZ-CERVANTES, Jorge - GERSAIN LUCIO-AVILA, Pedro - DIAZ-GODINEZ, Gerardo - MERCADO-FLORES, Yuridia. Xylanase SMXL1 from Stenocarpella maydis: Purification and Biochemical Characterization. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 2, pp. 2947-2960. Dostupné na: <https://doi.org/10.15376/biores.15.2.2947-2960>., Registrované v: WOS
41. [1.1] HU, Hang - CHEN, Kaixiang - LI, Lulu - LONG, Liangkun - DING, Shaojun. Characterization of the Wild-Type and Truncated Forms of a Neutral GH10 Xylanase from Coprinus cinereus: Roles of C-Terminal Basic Amino Acid-Rich Extension in Its SDS Resistance, Thermostability, and Activity. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2017, vol. 27, no. 4, pp. 775-784., Registrované v: WOS
42. [1.1] CHIN, Kit Ling - NURLIYANA, Mohd Yaakob - H'NG, Paik San - LEE, Chuan Li - GO, Wen Ze - KHOO, Pui San - NAZRIN, Raja Ahmad Raja - ASHIKIN, Siti Nurul. Effects of Bacterial Bio-augmentation on the Methane Potential from Facultative Digestion of Palm Oil Mill Effluent and Empty Fruit Bunch. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3407-3418. Dostupné na: <https://doi.org/10.1007/s12649-019-00680-3>., Registrované v: WOS
43. [1.1] JAIN, Ira - KUMAR, Vikash - SATYANARAYANA, T. Xylooligosaccharides: an economical prebiotic from agroresidues and their health benefits. In INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0019-5189, 2015, vol. 53, no. 3, pp. 131-142., Registrované v: WOS
44. [1.1] JORDAN, Douglas B. - BRAKER, Jay D. - WAGSCHAL, Kurt - STOLLER, J. Rose - LEE, Charles C. Isolation and divalent-metal activation of a beta-xylosidase, RUM630-BX. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 82, no., pp. 158-163., Registrované v: WOS
45. [1.1] KALIM, Bushra - ALI, Nazish Mazhar. Optimization of fermentation media and growth conditions for microbial xylanase production. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
46. [1.1] KALLEL, Fatma - DRISS, Dorra - BOUAZIZ, Fatma - NEIFER, Mohamed - GHORBEL, Raoudha - CHAABOUNI, Semia Ellouz. Production of xylooligosaccharides from garlic straw xylan by purified xylanase from Bacillus mojavensis UEB-FK and their in vitro evaluation as prebiotics. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 94, no., pp. 536-546., Registrované v: WOS
47. [1.1] KALLEL, Fatma - DRISS, Dorra - CHAARI, Fatma -

- ZOUARI-ELLOUZI, Soumaya - CHAABOUNI, Moncef - GHORBEL, Raoudha - CHAABOUNI, Semia Ellouz. Statistical optimization of low-cost production of an acidic xylanase by *Bacillus mojavenis* UEB-FK: Its potential applications. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2016, vol. 5, no., pp. 1-10., Registrované v: WOS
48. [1.1] KHANAHMADI, Morteza - AREZI, Iman - AMIRI, Motahhareh-sadat - MIRANZADEH, Mokhtar. Bioprocessing of agro-industrial residues for optimization of xylanase production by solid-state fermentation in flask and tray bioreactor. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 13, no., pp. 272-282., Registrované v: WOS
49. [1.1] KHANDEPARKER, Rakhee - JALAL, Thasneem. Xylanolytic enzyme systems in *Arthrobacter* sp MTCC 5214 and *Lactobacillus* sp. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2015, vol. 62, no. 2, pp. 245-254., Registrované v: WOS
50. [1.1] KUNIGO, Maya - BUERTH, Christoph - ERNST, Joachim F. Secreted xylanase XynA mediates utilization of xylan as sole carbon source in *Candida utilis*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 19, pp. 8055-8064., Registrované v: WOS
51. [1.1] KWON, Mi - SONG, Jaeyong - PARK, Hong-Seog - PARK, Hyunjin - CHANG, Jongsoo. Characterization of Heterologously Expressed Acetyl Xylan Esterase1 Isolated from the Anaerobic Rumen Fungus *Neocallimastix frontalis* PMA02. In *ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES*. ISSN 1011-2367, 2016, vol. 29, no. 11, pp. 1576-1584., Registrované v: WOS
52. [1.1] LANDARANI-ISFAHANI, Amir - TAHERI-KAFRANI, Asghar - AMINI, Mina - MIRKHANI, Valiollah - MOGHADAM, Majid - SOOZANIPOUR, Asieh - RAZMJOU, Amir. Xylanase Immobilized on Novel Multifunctional Hyperbranched Polyglycerol-Grafted Magnetic Nanoparticles: An Efficient and Robust Biocatalyst. In *LANGMUIR*. ISSN 0743-7463, 2015, vol. 31, no. 33, pp. 9219-9227., Registrované v: WOS
53. [1.1] LIU, Chunyan - ZOU, Gen - YAN, Xing - ZHOU, Xuguo. Screening of multimeric beta-xylosidases from the gut microbiome of a higher termite, *Globitermes brachycerastes*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2018, vol. 14, no. 6, pp. 608-615., Registrované v: WOS
54. [1.1] LOUREIRO, Dana B. - ROMANINI, Diana - TUBIO, Gisela. Structural and functional analysis of *Aspergillus niger* xylanase to be employed in polyethylenglycol/salt aqueous two-phase extraction. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2016, vol. 5, no., pp. 204-210., Registrované v: WOS
55. [1.1] MALIK, A. D. - FURTADO, I. J. Cellulase-Free Xylanase by *Halococcus thailandensis* GUMFAS7 and *Halorubrum saccharovororum* GUMFAS1 Bionts of a Sponge *Cinachyrella cavernosa*. In *MICROBIOLOGY*. ISSN 0026-2617, 2019, vol. 88, no. 2, pp. 212-219., Registrované v: WOS
56. [1.1] MATSU-URA, Toni - DOVZHENOK, Andrey A. - CORADETTI, Samuel T. - SUBRAMANIAN, Krithika R. - MEYER, Daniel R. - KWON, Jaesang J. - KIM, Caleb - SALOMONIS, Nathan - GLASS, N. Louise - LIM, Sookkyung - HONG, Christian I. Synthetic Gene Network with Positive Feedback Loop Amplifies Cellulase Gene Expression in *Neurospora crassa*. In

- ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, 2018, vol. 7, no. 5, pp. 1395-1405., Registrované v: WOS
57. [1.1] NAJJARZADEH, Nasim - MATSAKAS, Leonidas - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Effect of Oligosaccharide Degree of Polymerization on the Induction of Xylan-Degrading Enzymes by *Fusarium oxysporum* f. sp. *Lycopersici*. In MOLECULES, 2020, vol. 25, no. 24, pp. Dostupné na: <https://doi.org/10.3390/molecules25245849>., Registrované v: WOS
58. [1.1] NANJUNDASWAMY, Ananda - OKEKE, Benedict C. Comprehensive Optimization of Culture Conditions for Production of Biomass-Hydrolyzing Enzymes of *Trichoderma* SG2 in Submerged and Solid-State Fermentation. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 191, no. 1, pp. 444-462. Dostupné na: <https://doi.org/10.1007/s12010-020-03258-1>., Registrované v: WOS
59. [1.1] NGUYEN, Quang D. - BUJNA, Erika - STYEVKO, Gabriella - REZESSY-SZABO, Judit M. - HOSCHKE, Agoston. Fungal biomolecules for the food industry. In FUNGAL BIOMOLECULES: SOURCES, APPLICATIONS AND RECENT DEVELOPMENTS, 2015, vol., no., pp. 11-38., Registrované v: WOS
60. [1.1] NG, Choong Hey - HE, Jianzhong - YANG, Kun-Lin. Purification and Characterization of a GH11 Xylanase from Biobutanol-Producing *Clostridium beijerinckii* G117. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 6, pp. 2832-2844., Registrované v: WOS
61. [1.1] NOGUEIRA-LOPEZ, Guillermo - GREENWOOD, David R. - MIDDLEDITCH, Martin - WINEFIELD, Christopher - EATON, Carla - STEYAERT, Johanna M. - MENDOZA-MENDOZA, Artemio. The Apoplasmic Secretome of *Trichoderma virens* During Interaction With Maize Roots Shows an Inhibition of Plant Defence and Scavenging Oxidative Stress Secreted Proteins. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
62. [1.1] OKEKE, Benedict C. - HALL, Rosine W. - NANJUNDASWAMY, Ananda - THOMSON, M. Sue - DERAVID, Yasaman - SAWYER, Leah - PRESCOTT, Andrew. Selection and molecular characterization of cellulolytic-xylanolytic fungi from surface soil-biomass mixtures from Black Belt sites. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2015, vol. 175, no., pp. 24-33., Registrované v: WOS
63. [1.1] QIAN, Changli - LIU, Ning - YAN, Xing - WANG, Qian - ZHOU, Zhihua - WANG, Qianfu. Engineering a high-performance, metagenomic-derived novel xylanase with improved soluble protein yield and thermostability. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 70, no., pp. 35-41., Registrované v: WOS
64. [1.1] QIU, Jin - HAN, Hongjuan - SUN, Baihui - CHEN, Lei - YU, Chengye - PENG, Rihe - YAO, Quanhong. Residue mutations of xylanase in *Aspergillus kawachii* alter its optimum pH. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 182, no., pp. 1-7., Registrované v: WOS
65. [1.1] RAHMANI, N. - APRILIANA, P. - JANNAH, A. M. - RATNAKOMALA, S. - LISDIYANTI, P. - HERMIATI, E. - PRASETYA, B. - YOPI. Endo-xylanase enzyme from marine actinomycetes and its potential for

- xylooligosaccharide production. In 2ND INTERNATIONAL CONFERENCE ON NATURAL PRODUCTS AND BIORESOURCE SCIENCES 2018. ISSN 1755-1307, 2019, vol. 251, no., pp., Registrované v: WOS
66. [1.1] RAKITIN, Andrey L. - ERMAKOVA, Alexandra Y. - RAVIN, Nikolai V. Novel Endoxylanases of the Moderately Thermophilic Polysaccharide-Degrading Bacterium *Melioribacter roseus*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 9, pp. 1476-1484., Registrované v: WOS
67. [1.1] RAMANJANEYULU, G. - SRIDEVI, A. - SESHAPANI, P. - RAMYA, A. - KUMAR, K. Dileep - REDDY, G. Praveen Kumar - REDDY, B. Rajasekhara. Enhanced production of xylanase by *Fusarium* sp BVKT R2 and evaluation of its biomass saccharification efficiency. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
68. [1.1] RIADI, Lieke - AGUSTIN, Yuana Elly - KUSUMA, Leony Dita - SUTRISNO, Paulina Filiana - UTAMI, Titie Prapti. Reutealis trisperma Press Cake Induced Production of Xylanase by *Trichoderma reesei*: Effect of C/N Ratio and Initial pH. In 11TH REGIONAL CONFERENCE ON CHEMICAL ENGINEERING (RCCHE 2018). ISSN 0094-243X, 2019, vol. 2085, no., pp., Registrované v: WOS
69. [1.1] ROHMAN, Ali - DIJKSTRA, Bauke W. - PUSPANINGSIH, Ni Nyoman Tri. beta-Xylosidases: Structural Diversity, Catalytic Mechanism, and Inhibition by Monosaccharides. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 22, pp., Registrované v: WOS
70. [1.1] SARIPAN, A. F. - REUNGSANG, A. Thermophilic Fermentative Biohydrogen Production From Xylan by Anaerobic Mixed Cultures in Elephant Dung. In INTERNATIONAL JOURNAL OF GREEN ENERGY. ISSN 1543-5075, 2015, vol. 12, no. 9, pp. 900-907., Registrované v: WOS
71. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In FUNGAL METABOLITES. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
72. [1.1] SHARMA, Vivek - SALWAN, Richa. Extracellular Carbohydrate-Active Enzymes of *Trichoderma* and Their Role in the Bioconversion of Non-edible Biomass to Biofuel. In RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 2: PERSPECTIVE FOR VALUE-ADDED PRODUCTS AND ENVIRONMENTS. ISSN 2198-7777, 2019, vol., no., pp. 363-384., Registrované v: WOS
73. [1.1] SHELOMI, Matan - HECKEL, David G. - PAUCHET, Yannick. Ancestral gene duplication enabled the evolution of multifunctional cellulases in stick insects (Phasmatodea). In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 71, no., pp. 1-11., Registrované v: WOS
74. [1.1] SCHAEFERS, Christian - BLANK, Saskia - WIEBUSCH, Sigrid - ELLEUCHE, Skander - ANTRANIKIAN, Garabed. Complete genome sequence of *Thermus brockianus* GE-1 reveals key enzymes of xylan/xylose metabolism. In STANDARDS IN GENOMIC SCIENCES. ISSN 1944-3277, 2017, vol. 12, no., pp., Registrované v: WOS
75. [1.1] SILVA, L. A. O. - FANCHINI TERRASAN, Cesar Rafael - CARMONA, Eleonora Cano. Purification and characterization of xylanases from

- Trichoderma inhamatum. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2015, vol. 18, no. 4, pp. 307-313., Registrované v: WOS
76. [1.1] SINGH, M. P. - AGARWAL, Sonam - KUSHWAHA, Ankita - CHATURVEDI, Vivek K. Application and Biodegradation of Lignocellulosic Biomass. In MYCODEGRADATION OF LIGNOCELLULOSES. ISSN 2198-7777, 2019, vol., no., pp. 211-225., Registrované v: WOS
77. [1.1] SOOZANIPOUR, Asieh - TAHERI-KAFRANI, Asghar - ISFAHANI, Amir Landarani. Covalent attachment of xylanase on functionalized magnetic nanoparticles and determination of its activity and stability. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2015, vol. 270, no., pp. 235-243., Registrované v: WOS
78. [1.1] SUEB, Mohd Shafiq Mohd - LUO, Jianquan - MEYER, Anne S. - JORGENSEN, Henning - PINELO, Manuel. Impact of the fouling mechanism on enzymatic depolymerization of xylan in different configurations of membrane reactors. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 178, no., pp. 154-162., Registrované v: WOS
79. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS
80. [1.1] TERRONE, Carol Cabral - DE FREITAS, Caroline - FANCHINI TERRASAN, Cesar Rafael - DE ALMEIDA, Alex Fernando - CARMONA, Eleonora Cano. Agroindustrial biomass for xylanase production by *Penicillium chrysogenum*: Purification, biochemical properties and hydrolysis of hemicelluloses. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 33, no., pp. 39-45., Registrované v: WOS
81. [1.1] THAPA, Santosh - MISHRA, Jitendra - ARORA, Naveen - MISHRA, Priya - LI, Hui - O'HAIR, Joshua - BHATTI, Sarabjit - ZHOU, Suping. Microbial cellulolytic enzymes: diversity and biotechnology with reference to lignocellulosic biomass degradation. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2020, vol. 19, no. 3, pp. 621-648. Dostupné na: <https://doi.org/10.1007/s11157-020-09536-y>, Registrované v: WOS
82. [1.1] THOMAS, Leya - SINDHU, Raveendran - BINOD, Parameswaran - PANDEY, Ashok. Production of an alkaline xylanase from recombinant *Kluyveromyces lactis* (KY1) by submerged fermentation and its application in bio-bleaching. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2015, vol. 102, no., pp. 24-30., Registrované v: WOS
83. [1.1] WONGRATPANYA, Kanok - IMJONGJAIRAK, Siriluck - WAEONUKUL, Rattiya - SORNYOTHA, Somphit - PHITSUWAN, Paripok - PASON, Patthra - NIMCHUA, Thidarat - TACHAAPA KOON, Chakrit - RATANAKHANOKCHAI, Khanok. Multifunctional Properties of Glycoside Hydrolase Family 43 from *Paenibacillus curdlanolyticus* Strain B-6 Including Exo-beta-xylosidase, Endo-xylanase, and alpha-L-Arabinofuranosidase Activities. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 2, pp. 2492-2505., Registrované v: WOS
84. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase

- from *Aspergillus niger* BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS
85. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaelle - COLQUHOUN, Ian J. - COLLINS, Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
86. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
87. [1.1] YANG, Ran - LI, Jinchun - TENG, Chao - LI, Xiuting. Cloning, overexpression and characterization of a xylanase gene from a novel *Streptomyces rameus* L2001 in *Pichia pastoris*. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 131, no., pp. 85-93., Registrované v: WOS
88. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E-coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS
89. [1.1] ZHENG, Fei - HUANG, Jingxuan - LIU, Xingchen - HU, Hang - LONG, Liangkun - CHEN, Kaixiang - DING, Shaojun. N- and C-terminal truncations of a GH10 xylanase significantly increase its activity and thermostability but decrease its SDS resistance. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 8, pp. 3555-3565., Registrované v: WOS
90. [1.2] BAJPAI, Pratima. Biotechnology for pulp and paper processing. In *Biotechnology for Pulp and Paper Processing*, 2018-02-14, pp. 1-588., Registrované v: SCOPUS
91. [1.2] Dimarogona, M., & Topakas, E. (2016). Regulation and heterologous expression of lignocellulosic enzymes in *aspergillus*. In *New and future developments in microbial biotechnology and bioengineering: Aspergillus system properties and applications* (Elsevier, chapter 12, pp. 171-190), Registrované v: SCOPUS
92. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
93. [1.2] HAN, Hongjuan - YOU, Shuang - ZHU, Bo - FU, Xiaoyan - SUN, Baihui - QIU, Jin - YU, Chengye - CHEN, Lei - PENG, Rihe - YAO, Quanhong. Characterization and high expression of recombinant *Ustilago maydis* xylanase in *Pichia pastoris*. In *Biotechnology Letters*. ISSN 01415492, 2015-01-01, 37, 3, pp. 697-703., Registrované v: SCOPUS
94. [1.2] Heinen, P. R., Betini, J. H. A., & Polizeli, M. L. T. M. (2019). Xylanases. In *Encyclopedia of Microbiology* (pp. 604-615), Registrované v: SCOPUS

95. [1.2] KASHYAP, Radhika - MONIKA - TRIPATHI, Sandeep. Isolation and production of bacterial acidothermophilic and organic solvent tolerant xylanase. In Asian Journal of Microbiology, Biotechnology and Environmental Sciences. ISSN 09723005, 2016-01-01, 18, 3, pp. 737-744., Registrované v: SCOPUS
96. [1.2] KHATTAK, Waleed Ahmad - UL-ISLAM, Mazhar - ULLAH, Muhammad Wajid - KHAN, Shaukat - PARK, Joong Kon. Endogenous hydrolyzing enzymes: Isolation, characterization, and applications in biological processes. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 535-579., Registrované v: SCOPUS
97. [1.2] KIM, Da Som - JEONG, Ga Ram - BAE, Chang Hwan - YEO, Joo Hong - CHI, Won Jae. Identification and characterization of an agarase- and xylanase-producing *Catenovulum jejuensis* A28-5 from coastal seawater of Jeju Island, Korea. In Korean Journal of Microbiology and Biotechnology. ISSN 1598642X, 2017-06-01, 45, 2, pp. 168-177., Registrované v: SCOPUS
98. [1.2] KUMAR, Vishal - SHUKLA, Pratyosh. Functional aspects of xylanases toward industrial applications. In Frontier Discoveries and Innovations in Interdisciplinary Microbiology, 2015-01-01, pp. 157-165., Registrované v: SCOPUS
99. [1.2] LIN, Xiaohong - LIN, Juan - WANG, Guozeng - YE, Xiuyun - HUANG, Xiaoyun. Studies on the condition of xylanase producing by marine *Bacillus* sp. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2015-11-30, 15, 11, pp. 83-90., Registrované v: SCOPUS
100. [1.2] LIN, Xiaohong - YE, Xiuyun - WANG, Guozeng - LIANG, Yanhui - XU, Fan - LIN, Juan. Screening and identification of xylanase-producing microorganisms and study on enzyme properties. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2016-01-30, 16, 1, pp. 115-122., Registrované v: SCOPUS
101. [1.2] MOSTEK, Agnieszka - BÖRNER, Andreas - WEIDNER, Stanisław. Comparative proteomic analysis of β -aminobutyric acid-mediated alleviation of salt stress in barley. In Plant Physiology and Biochemistry. ISSN 09819428, 2016-02-01, 99, pp. 150-161., Registrované v: SCOPUS
102. [1.2] WATANABE, Takashi - SUZUKI, Ken - SATO, Ikuo - MORITA, Tomotake - KOIKE, Hideaki - SHINOZAKI, Yukiko - UEDA, Hirokazu - KOITABASHI, Motoo - KITAMOTO, Hiroko K. Simultaneous bioethanol distillery wastewater treatment and xylanase production by the phyllosphere yeast *Pseudozyma antarctica* GB-4(0). In AMB Express, 2015-12-13, 5, 1, pp., Registrované v: SCOPUS
103. [1.2] YOUSSEF, Ghada A. - KABEIL, Sanaa S. - ELKADY, Samah K. - EL-AASSAR, Samy A. Production and optimization of xylanase from thermotolerant and alkali tolerant *Emericella nidulans* AS210136.01 isolate from lignocellulosic wastes. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2015-01-01, 9, special Edition 1, pp. 237-249., Registrované v: SCOPUS
104. [1.2] ZHOU, Chen Yan - WANG, Yong Tao - ZHU, Tie Chui - FU, Guan Hua - WANG, Dan Dan. Molecular cloning, sequence analysis and expression of a *ghf* 43 xylanase from *Aspergillus niger* in *Escherichia coli*. In Journal of General and Applied Microbiology. ISSN 00221260, 2015-01-16, 60, 6, pp. 234-240., Registrované v: SCOPUS
105. [3.2] Kim, Da Som; Bae, Chang Hwan; Yeo, Joo Hong; Chi,

Won-Jae: Identification and Biochemical Characterization of a New Xylan-degrading *Streptomyces atrovirens* Subspecies WJ-2 Isolated from Soil of Jeju Island in Korea. IN Korean Journal of Microbiology and Biotechnology, 2016, vol. 44, iss. 4, p. 512-521., Registrované v: BIOSIS Citation Index 106. [3.2] SELIM, S. Molecular Characterization of Thermostable xylanase Producing *Thermoactinomyces vulgaris* HSB4. IN Journal of Pure and Applied Microbiology, 2016, vol. 10, iss. 3, p. 1965-1969., Registrované v: BIOSIS Citation Index

ADCA118 BIELY, Peter - CZISZÁROVÁ, Mária - UHLIARIKOVÁ, Iveta - AGGER, Jane W. - LI, Xin-Liang - EIJSINK, Vincent G.H. - WESTERENG, Bjorge. Mode of action of acetylxyylan esterases on acetyl glucuronoxylan and acetylated oligosaccharides generated by a GH10 endoxylanase. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 5075-5086. (2012: 3.848 - IF, Q1 - JCR, 2.121 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2013.07.018>

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
2. [1.1] ARNAUD, B. - DURAND, S. - FANUEL, M. - GUILLON, F. - MECHIN, V - ROGNIAUX, H. Imaging Study by Mass Spectrometry of the Spatial Variation of Cellulose and Hemicellulose Structures in Corn Stalks. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 13, pp. 4042-4050. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b07579>., Registrované v: WOS
3. [1.1] KANOKKRATANA, Pattanop - WONGWILAIWALIN, Sarunyou - MHUANTONG, Wuttichai - TANGPHATSORNRUANG, Sithichoke - EURWILAICHITR, Lily - CHAMPREDA, Verawat. Characterization of cellulolytic microbial consortium enriched on Napier grass using metagenomic approaches. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 439-447., Registrované v: WOS
4. [1.1] KWON, Mi - SONG, Jaeyong - PARK, Hong-Seog - PARK, Hyunjin - CHANG, Jongsoo. Characterization of Heterologously Expressed Acetyl Xylan Esterase1 Isolated from the Anaerobic Rumen Fungus *Neocallimastix frontalis* PMA02. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, 2016, vol. 29, no. 11, pp. 1576-1584., Registrované v: WOS
5. [1.1] MAI-GISONDI, Galina - TURUNEN, Ossi - PASTINEN, Ossi - PAHIMANOLIS, Nikolaos - MASTER, Emma R. Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 79-80, no., pp. 27-33., Registrované v: WOS
6. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
7. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho -

VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

8. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS

9. [1.1] RIVAS, Sandra - SANTOS, Valentin - PARAJO, Juan Carlos. Aqueous fractionation of hardwood: selective glucuronoxylan solubilisation and purification of the reaction products. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 2, pp. 367-374., Registrované v: WOS

10. [1.1] SHARMA, Kedar - ANTUNES, Ines Lobo - RAJULAPATI, Vikky - GOYAL, Arun. Molecular characterization of a first endo-acting beta-1,4-xylanase of family 10 glycoside hydrolase (PsGH10A) from *Pseudopedobacter saltans* comb. nov. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 70, no., pp. 79-89., Registrované v: WOS

11. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS

12. [1.1] SCHENDEL, Rachel R. - PUCHBAUER, Ann-Katrin - BRITSCHO, Natalie - BUNZEL, Mirko. Feruloylated Wheat Bran Arabinoxylans: Isolation and Characterization of Acetylated and O-2-Monosubstituted Structures. In CEREAL CHEMISTRY. ISSN 0009-0352, 2016, vol. 93, no. 5, pp. 493-501., Registrované v: WOS

13. [1.2] ŁOWICKI, Daniel - BUDA, Szymon - MLYNARSKI, Jacek. NMR of carbohydrates. In Nuclear Magnetic Resonance. ISSN 03059804, 2015-01-01, 44, pp. 407-430., Registrované v: SCOPUS

ADCA119 BIELY, Peter - MASTIHUBOVÁ, Mária - CÔTÉ, G.L. - GREEN, R.W. Mode of action of acetylxylan esterase from *Streptomyces lividans*: a study with deoxy and deoxyfluoro analogues of acetylated beta-D-xylopyranoside. In *Biochimica et Biophysica Acta*, 2003, vol. 1622, p. 82-88. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/S0304-4165\(03\)00130-2](https://doi.org/10.1016/S0304-4165(03)00130-2)

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. Expression of Cell Wall-Modifying Enzymes in Aspen for Improved Lignocellulose Processing. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 145-164. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_9., Registrované v: WOS

3. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
4. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

ADCA120 BIELY, Peter - PETŘÁKOVÁ, Eva. Novel inducers of the Xylan-degrading enzyme system of *Cryptococcus albidus*. In *Journal of Bacteriology*, 1984, vol. 160, p. 408-412. ISSN 0021-9193.

Ohlasy:

1. [1.1] MAO, Kewei - CHEN, Honggao - QI, Hanghang - QIU, Zidong - ZHANG, Li - ZHOU, Jiangang. Visual degumming process of ramie fiber using a microbial consortium RAMCD407. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3513-3528., Registrované v: WOS

ADCA121 BIELY, Peter - MACKENZIE, Colin R. - SCHNEIDER, Henry. Production of acetyl xylan esterase by *Trichoderma reesei* and *Schizophyllum commune*. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 1988, vol. 34, p. 767-772. ISSN 0008-4166.

Ohlasy:

1. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. SCREENING OF MICROORGANISMS DISPLAYING ACETYL XYLAN ESTERASE ACTIVITY. In *SCIENTIFIC PAPERS-SERIES B-HORTICULTURE*. ISSN 2285-5653, 2018, vol. 62, no., pp. 715-720., Registrované v: WOS
2. [1.1] DO HUU NGHI - ULLRICH, Rene - MORITZ, Franco - LE MAI HUONG - VU DINH GIAP - DO HUU CHI - HOFRICHTER, Martin - LIERS, Christiane. The ascomycete *Xylaria polymorpha* produces an acetyl esterase that solubilises beech wood material to release water-soluble lignin fragments. In *JOURNAL OF THE KOREAN SOCIETY FOR APPLIED BIOLOGICAL CHEMISTRY*. ISSN 1738-2203, 2015, vol. 58, no. 3, pp. 415-421., Registrované v: WOS
3. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. Optimization and Kinetic Evaluation of Acetylxylan Esterase and Xylanase Production by *Trichoderma reesei* Using Corn Cob Xylan. In *ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL*. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>., Registrované v: WOS

ADCA122 BIELY, Peter - COTE, G.L. - BURGESS-CASSLER, A. Purification and properties of alternanase, a novel endo- α -1,3- α -1,6-D-glucanase. In *European Journal of Biochemistry*, 1994, vol. 226, p. 633-639. ISSN 0014-2956. Dostupné na: <https://doi.org/10.1111/j.1432-1033.1994.tb20090.x>

Ohlasy:

1. [1.1] GANGOITI, Joana - PIJNING, Tjaard - DIJKHUIZEN,

Lubbert. Biotechnological potential of novel glycoside hydrolase family 70 enzymes synthesizing alpha-glucans from starch and sucrose. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2018, vol. 36, no. 1, pp. 196-207., Registrované v: WOS

2. [1.1] MAITI, Krishnagopal - SAMANTA, Gopal Kumar - DASKHAN, Gour Chand - JAYARAMAN, N. Chemical and enzymatic approaches to the synthesis of cyclic oligosaccharides. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 165-209., Registrované v: WOS

3. [1.1] MOLINA, Manon - MOULIS, Claire - MONTIES, Nelly - GUIEYSSE, David - MOREL, Sandrine - CIOCI, Gianluca - REMAUD-SIMEON, Magali. A specific oligosaccharide-binding site in the alternansucrase catalytic domain mediates alternan elongation. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 28, pp. 9474-9489. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013028>., Registrované v: WOS

4. [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS

ADCA123 BIELY, Peter - PUCHART, Vladimír. Recent progress in the assays of xylanolytic enzymes. In *Journal of the Science of Food and Agriculture*, 2006, vol. 86, p. 1636-1647. (2005: 0.996 - IF, Q1 - JCR, 0.570 - SJR, Q2 - SJR). ISSN 0022-5142. Dostupné na: <https://doi.org/10.1002/jsfa.2519>

Ohlasy:

1. [1.1] TERRONE, Carol Cabral - DE FREITAS NASCIMENTO, Juliana Montesino - FANCHINI TERRASAN, Cesar Rafael - BRIENZO, Michel - CARMONA, Eleonora Cano. Salt-tolerant alpha-arabinofuranosidase from a new specie *Aspergillus hortai* CRM1919: Production in acid conditions, purification, characterization and application on xylan hydrolysis. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 23, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2019.101460>., Registrované v: WOS

2. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

ADCA124 BIELY, Peter - MARKOVIČ, Oskar - MISLOVIČOVÁ, Danica. Sensitive detection of endo-1,4- β -glucanases and endo-1,4- β -xylanases in gels. In *Analytical Biochemistry*, 1985, vol. 144, p. 147-151. ISSN 0003-2697. Dostupné na: [https://doi.org/10.1016/0003-2697\(85\)90096-X](https://doi.org/10.1016/0003-2697(85)90096-X)

Ohlasy:

1. [1.1] DOJNOV, Biljana - GRUJIC, Marica - VUJCIC, Zoran. Reliable simultaneous zymographic method of characterization of cellulolytic enzymes from fungal cellulase complex. In ELECTROPHORESIS. ISSN 0173-0835, 2015, vol. 36, no. 15, pp. 1724-1727., Registrované v: WOS

2. [1.1] GRUJIC, Marica - DOJNOV, Biljana - POTOČNIK, Ivana - ATANASOVA, Lea - DUDUK, Bojan - SREBOTNIK, Ewald - DRUZHININA, Irina S. - KUBICEK, Christian P. - VUJCIC, Zoran. Superior cellulolytic activity of *Trichoderma guizhouense* on raw wheat straw. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
3. [1.1] CHEN, Si - FENG, Hao - LI, Xin - CHAO, Hong-jun - WU, Jing - LIU, Jun - ZHU, Wen-jun - YAN, Da-zhong. The Complete Genome Sequence of a Bacterial Strain with High Alkalic Xylanase Activity Isolated from the Sludge Near a Papermill. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2020, vol. 77, no. 12, pp. 3945-3952. Dostupné na: <https://doi.org/10.1007/s00284-020-02227-5>, Registrované v: WOS
4. [1.1] MAMO, Gashaw. Alkaline Active Hemicellulases. In *ALKALIPHILES IN BIOTECHNOLOGY*. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101, Registrované v: WOS
5. [1.1] SULTAN, Abida - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. Exploring the Plant-Microbe Interface by Profiling the Surface-Associated Proteins of Barley Grains. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2016, vol. 15, no. 4, pp. 1151-1167., Registrované v: WOS
6. [1.1] TADDIA, Antonela - JULIA BOGGIONE, Maria - TUBIO, Gisela. Screening of different agroindustrial by-products for industrial enzymes production by fermentation processes. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2019, vol. 54, no. 4, pp. 1027-1035., Registrované v: WOS

ADCA125 BIELY, Peter - MARKOVIČ, Oskar - MISLOVIČOVÁ, Danica. Sensitive detection of endo-1,4-beta-glucanases and endo-1,4-beta-xylanases in gels. In *Analytical Biochemistry*, 1985, vol.144, p. 147-151. ISSN 0003-2697.

Ohlasy:

1. [1.1] CANO-RAMIREZ, Claudia - SANTIAGO-HERNANDEZ, Alejandro - RIVERA-ORDUNA, Flor Nohemi - PINEDA-MENDOZA, Rosa Maria - ZUNIGA, Gerardo - HIDALGO-LARA, Maria Eugenia. One-step zymogram method for the simultaneous detection of cellulase/xylanase activity and molecular weight estimation of the enzyme. In *ELECTROPHORESIS*. ISSN 0173-0835, 2017, vol. 38, no. 3-4, pp. 447-451., Registrované v: WOS

ADCA126 BIELY, Peter - KRÁTKY, Zdeno - VRŠANSKÁ, Mária. Substrate binding site of endo-1,4-beta-xylanase of the yeast *Cryptococcus albidus*. In *European Journal of Biochemistry*, 1981, vol.119, p. 559-564. ISSN 0014-2956.

Ohlasy:

1. [1.1] ARNOLD, Nathanael D. - BRUCK, Wolfram M. - GARBE, Daniel - BRUECK, Thomas B. Enzymatic Modification of Native Chitin and Conversion to Specialty Chemical Products. In *MARINE DRUGS*, 2020, vol. 18, no. 2, pp. Dostupné na: <https://doi.org/10.3390/md18020093>, Registrované v: WOS
2. [1.1] BONORA, Beatrice - BOOS, Irene - CLAUSEN, Mads H. Convergent strategy for the synthesis of S-linked oligoxylans. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 443, no., pp.

53-57., Registrované v: WOS

3. [1.1] CHEN, Wei - JIANG, Xi - YANG, Qing. Glycoside hydrolase family 18 chitinases: The known and the unknown. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107553>., Registrované v: WOS

4. [1.1] CHU, Yindi - TU, Tao - PENTTINEN, Leena - XUE, Xianli - WANG, Xiaoyu - YI, Zhuolin - GONG, Li - ROUVINEN, Juha - LUO, Huiying - HAKULINEN, Nina - YAO, Bin - SU, Xiaoyun. Insights into the roles of non-catalytic residues in the active site of a GH10 xylanase with activity on cellulose. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2017, vol. 292, no. 47, pp. 19315-19327., Registrované v: WOS

5. [1.1] KARKEHABADI, Saeid - HANSSON, Henrik - MIKKELSEN, Nils Egil - KIM, Steve - KAPER, Thijs - SANDGREN, Mats - GUDMUNDSSON, Mikael. Structural studies of a glycoside hydrolase family 3 beta-glucosidase from the model fungus *Neurospora crassa*. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2018, vol. 74, no., pp. 787-796., Registrované v: WOS

6. [1.1] LIU, Ming-qi - HUO, Wen-kang - XU, Xin - WENG, Xiao-yan. Recombinant *Bacillus amyloliquefaciens* xylanase A expressed in *Pichia pastoris* and generation of xylooligosaccharides from xylans and wheat bran. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 105, no., pp. 656-663., Registrované v: WOS

7. [1.1] MANDELLI, Fernanda - DE MORAIS, Mariana Abrahao Bueno - DE LIMA, Evandro Antonio - OLIVEIRA, Leane - PERSINOTI, Gabriela Felix - MURAKAMI, Mario Tyago. Spatially remote motifs cooperatively affect substrate preference of a ruminal GH26-type endo- α -1,4-mannanase. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 15, pp. 5012-5021. Dostupné na: <https://doi.org/10.1074/jbc.RA120.012583>., Registrované v: WOS

8. [1.1] Mayes, HB (Mayes, Heather B.); Knott, BC (Knott, Brandon C.); Crowley, MF (Crowley, Michael F.); Broadbelt, LJ (Broadbelt, Linda J.); Stahlberg, J (Stahlberg, Jerry); Beckham, GT (Beckham, Gregg T.). Who's on base? Revealing the catalytic mechanism of inverting family 6 glycoside hydrolases. In CHEMICAL SCIENCE, 2016, vol. 7, iss. 9, p. 5955-5968., Registrované v: WOS

9. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mingan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS

10. [1.1] PAYNE, Christina M. - KNOTT, Brandon C. - MAYES, Heather B. - HANSSON, Henrik - HIMMEL, Michael E. - SANDGREN, Mats - STAHLBERG, Jerry - BECKHAM, Gregg T. Fungal Cellulases. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 3, pp. 1308-1448., Registrované v: WOS

11. [1.1] PRAKASH, Ananth - BATEMAN, Alex. Domain atrophy creates rare cases of functional partial protein domains. In GENOME BIOLOGY. ISSN 1465-6906, 2015, vol. 16, no., pp., Registrované v: WOS

12. [1.1] ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In

ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>, Registrované v: WOS

13. [1.1] TAKASHIMA, Tomoya - NUMATA, Tomoyuki - TAIRA, Toki - FUKAMIZO, Tamo - OHNUMA, Takayuki. Structure and Enzymatic Properties of a Two-Domain Family GH19 Chitinase from Japanese Cedar (*Cryptomeria japonica*) Pollen. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 22, pp. 5699-5706., Registrované v: WOS

14. [1.1] TANAKA, Jun - FUKAMIZO, Tamo - OHNUMA, Takayuki. Enzymatic properties of a GH19 chitinase isolated from rice lacking a major loop structure involved in chitin binding. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 5, pp. 477-485., Registrované v: WOS

15. [1.1] TIAN, Li - LIU, Shijia - WANG, Shuai - WANG, Lushan. Ligand-binding specificity and promiscuity of the main lignocellulolytic enzyme families as revealed by active-site architecture analysis. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

16. [1.1] WU, Qihua - FAN, Guangsen - YU, Taifei - SUN, Baoguo - TANG, Huihua - TENG, Chao - YANG, Ran - LI, Xiuting. Biochemical characteristics of the mutant xylanase T-XynC(122)C(166) and production of xylooligosaccharides from corn cobs. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 142, no., pp., Registrované v: WOS

17. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS

18. [1.1] ZANPHORLIN, Leticia Maria - BUENO DE MORAIS, Mariana Abrahao - DIOGO, Jose Alberto - DOMINGUES, Mariane Noronha - MOREIRA DE SOUZA, Flavio Henrique - RULLER, Roberto - MURAKAMI, Mario Tyago. Structure-guided design combined with evolutionary diversity led to the discovery of the xylose-releasing exo-xylanase activity in the glycoside hydrolase family 43. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2019, vol. 116, no. 4, pp. 734-744., Registrované v: WOS

19. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA127 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomir - WEISLEDER, L. - GREENE, R.V. Substrate specificity of acetylxyylan esterase from *Schizophyllum commune*: Mode of action on acetylated carbohydrates. In *Biochimica et Biophysica Acta : protein structure and molecular enzymology*, 1996, vol. 1298, p. 209-222. ISSN 0167-4838. Dostupné na: [https://doi.org/10.1016/S0167-4838\(96\)00132-X](https://doi.org/10.1016/S0167-4838(96)00132-X)
Ohlasy:

1. [1.1] DO HUU NGHI - ULLRICH, Rene - MORITZ, Franco - LE MAI HUONG - VU DINH GIAP - DO HUU CHI - HOFRICHTER, Martin - LIERS, Christiane. The ascomycete *Xylaria polymorpha* produces an acetyl esterase that solubilises beech wood material to release water-soluble lignin fragments. In JOURNAL OF THE KOREAN SOCIETY FOR APPLIED

BIOLOGICAL CHEMISTRY. ISSN 1738-2203, 2015, vol. 58, no. 3, pp. 415-421., Registrované v: WOS

2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

3. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from Caldicellulosiruptor bescii. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

4. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

5. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA128 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomír - GREENE, Richard V. - DUPONT, Claude - KLUEPFEL, Dieter. Substrate specificity and mode of action of acetylxylan esterase from Streptomyces lividans. In *FEBS Letters*, 1996, vol.396, p. 257-260. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(96\)01080-0](https://doi.org/10.1016/0014-5793(96)01080-0)

Ohlasy:

1. [1.1] ALI, Sikander - MAHMOOD, Saba. Mutagenesis of a Thermophilic Alkalibacillus flavidus for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>, Registrované v: WOS

2. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

3. [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. Schizophyllum commune: An unexploited source for lignocellulose degrading enzymes. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2018, vol. 7, no. 3, pp., Registrované v: WOS

4. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

5. [1.1] STEPANOVA, Elena V. - BELYANIN, Maxim L. -

FILIMONOV, Victor D. - VALIEV, Rashid R. - GRUNER, Margit - ROGACHEV, Victor. The first example of a one-step synthesis of 2'-O-acetyl aryl-D-glucopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 409, no., pp. 36-40., Registrované v: WOS

6. [1.1] TUVENG, Tina Rise - ROTHWEILER, Ulli - UDATHA, Gupta - VAAJE-KOLSTAD, Gustav - SMALAS, Arne - EIJSINK, Vincent G. H. Structure and function of a CE4 deacetylase isolated from a marine environment. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 11, pp., Registrované v: WOS

7. [1.1] VAAJE-KOLSTAD, Gustav - TUVENG, Tina Rise - MEKASHA, Sophanit - EIJSINK, Vincent G. H. Enzymes for Modification of Chitin and Chitosan. In CHITIN AND CHITOSAN: PROPERTIES AND APPLICATIONS, 2020, vol., no., pp. 189-228., Registrované v: WOS

8. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA129 BIELY, Peter - VRŠANSKÁ, Mária - GORBACHEVA, I.V. The active site of an acidic endo-1,4- β -xylanase of *Aspergillus niger*. In *Biochimica et Biophysica Acta*, 1983, vol. 743, p. 155-161. ISSN 0304-419X. Dostupné na: [https://doi.org/10.1016/0167-4838\(83\)90429-6](https://doi.org/10.1016/0167-4838(83)90429-6)

Ohlasy:

1. [1.1] EIDE, Kristine Bistrup - STOCKINGER, Linn Wilhelmsen - LEWIN, Anna Sofia - TONDERVIK, Anne - EIJSINK, Vincent G. H. - SORLIE, Morten. The role of active site aromatic residues in substrate degradation by the human chitotriosidase. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2016, vol. 1864, no. 2, pp. 242-247., Registrované v: WOS

ADCA130 BIELY, Peter - VRŠANSKÁ, Mária - CLAEYSSSENS, Marc. The endo-1,4-beta-glucanase-I from *Trichoderma reesei* - action on beta-1,4-oligomers and polymers derived from D-glucose and D-xylose. In *European Journal of Biochemistry*, 1991, vol.200, p. 157-163. ISSN 0014-2956. Dostupné na: <https://doi.org/10.1111/j.1432-1033.1991.tb21062.x>

Ohlasy:

1. [1.1] MATSUZAWA, Tomohiko - KANEKO, Satoshi - YAOI, Katsuro. Improvement of thermostability and activity of *Trichoderma reesei* endo-xylanase Xyn III on insoluble substrates. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 18, pp. 8043-8051., Registrované v: WOS

2. [1.1] MATSUZAWA, Tomohiko - WATANABE, Masahiro - YAOI, Katsuro. Improved thermostability of a metagenomic glucose-tolerant beta-glycosidase based on its X-ray crystal structure. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 23-24, pp. 8353-8363., Registrované v: WOS

3. [1.1] MATSUZAWA, Tomohiko - YAOI, Katsuro. Screening, identification, and characterization of a novel saccharide-stimulated beta-glycosidase from a soil metagenomic library. In APPLIED

MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 2, pp. 633-646., Registrované v: WOS

4. [1.1] MATSUZAWA, Tomohiko. The Metagenome Approach: A New Resource for Glycosidases. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, 2019, vol. 31, no. 178, pp. E15-E20., Registrované v: WOS

5. [1.1] PATEL, Avani B. - PATEL, Amrutlal K. - SHAH, Mihir P. - PARIKH, Ishan K. - JOSHI, Chaitanya G. Isolation and characterization of novel multifunctional recombinant family 26 glycoside hydrolase from Mehsani buffalo rumen metagenome. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2016, vol. 63, no. 2, pp. 257-265., Registrované v: WOS

6. [1.1] PAYNE, Christina M. - KNOTT, Brandon C. - MAYES, Heather B. - HANSSON, Henrik - HIMMEL, Michael E. - SANDGREN, Mats - STAHLBERG, Jerry - BECKHAM, Gregg T. Fungal Cellulases. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 3, pp. 1308-1448., Registrované v: WOS

7. [1.1] PELLEGRINI, Vanessa O. A. - SERPA, Viviane Isabel - GODOY, Andre S. - CAMILO, Cesar M. - BERNARDES, Amanda - REZENDE, Camila A. - PEREIRA JUNIOR, Nei - CAIRO, Joao Paulo L. Franco - SQUINA, Fabio M. - POLIKARPOV, Igor. Recombinant *Trichoderma harzianum* endoglucanase I (Cel7B) is a highly acidic and promiscuous carbohydrate-active enzyme. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 22, pp. 9591-9604., Registrované v: WOS

8. [1.1] RABINOVICH, Mikhail L. - MELNIK, Maria S. - HERNER, Mikhail L. - VOZNYI, Yakov V. - VASILCHENKO, Lilia G. Predominant Nonproductive Substrate Binding by Fungal Cellobiohydrolase I and Implications for Activity Improvement. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 3, pp., Registrované v: WOS

9. [1.1] SIQUEIRA, Germano A. - DIAS, Isabella K. R. - ARANTES, Valdeir. Exploring the action of endoglucanases on bleached eucalyptus kraft pulp as potential catalyst for isolation of cellulose nanocrystals. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 133, no., pp. 1249-1259., Registrované v: WOS

10. [1.1] STRATILOVA, Barbora - SESTAK, Sergej - MRAVEC, Jozef - GARAJOVA, Sona - PAKANOVA, Zuzana - VADINOVA, Kristina - KUCEROVA, Danica - KOZMON, Stanislav - SCHWERDT, Julian G. - SHIRLEY, Neil - STRATILOVA, Eva - HRMOVA, Maria. Another building block in the plant cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. In PLANT JOURNAL. ISSN 0960-7412, 2020, vol. 104, no. 3, pp. 752-767. Dostupné na: <https://doi.org/10.1111/tpj.14964>., Registrované v: WOS

11. [1.2] MEENA, Sweta Singh - SHARMA, Vinay - GUPTA, Sarika. In vitro optimisation of fungal cellulase production from fruit waste for handmade paper industries. In Biotechnology. ISSN 1682296X, 2018-01-01, 17, 1-2, pp. 35-43., Registrované v: SCOPUS

12. [1.2] UEDA, Mitsuhiro - KONEMORI, Yuta - NAKAZAWA, Masami - SAKAMOTO, Tatsuji - SAKAGUCHI, Minoru. Heterologous expression and characterization of a cold-adapted endo-1,4- β -glucanase gene

from *Bellamyia chinensis laeta*. In *Process Biochemistry*. ISSN 13595113, 2018-11-01, 74, pp. 28-34., Registrované v: SCOPUS

- ADCA131 BIELY, Peter - BAUER, Š. The formation of uridine diphosphate 2-deoxy-D-glucose in yeast. In *Biochimica et Biophysica Acta*, 1966, vol. 121, p. 213-214. Dostupné na: [https://doi.org/10.1016/0304-4165\(66\)90379-5](https://doi.org/10.1016/0304-4165(66)90379-5)

Ohlasy:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS
2. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus Joseph Michael. Multifaceted Effects of Antimetabolite and Anticancer Drug, 2-Deoxyglucose on Eukaryotic Cancer Models Budding and Fission Yeast. In *IUBMB LIFE*. ISSN 1521-6543, 2017, vol. 69, no. 3, pp. 137-147., Registrované v: WOS

- ADCA132 BIELY, Peter - MALOVÍKOVÁ, Anna - HIRSCH, Ján - MORKEBERG KROGH, K. B. R. - EBRINGEROVÁ, Anna. The role of the glucuronoxylan carboxyl groups in the action of andoxylanases of three glycoside hydrolase families: A study with two substrate mutants. In *Biochimica et Biophysica Acta : general subjects*, 2015, vol. 1850, p. 2246-2255. (2014: 4.381 - IF, Q1 - JCR, 1.821 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2015.07.003>

Ohlasy:

1. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
2. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
3. [1.1] FREIRE, Filipe - VERMA, Anil - BULE, Pedro - ALVES, Victor D. - FONTES, Carlos M. G. A. - GOYAL, Arun - NAJMUDIN, Shabir. Conservation in the mechanism of glucuronoxylan hydrolysis revealed by the structure of glucuronoxylan xylanohydrolase (CtXyn30A) from *Clostridium thermocellum*. In *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*. ISSN 2059-7983, 2016, vol. 72, no., pp. 1162-1173., Registrované v: WOS
4. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
5. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with

regards to their synergistic interactions during hetero-xylan degradation. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS

6. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS

7. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS

8. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. Extraction, characterization of xylan from *Azadirachta indica* (neem) sawdust and production of antiproliferative xylooligosaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>., Registrované v: WOS

ADCA133 BIELY, Peter - MASTIHUBOVÁ, Mária - PUCHART, Vladimír. The vicinal hydroxyl group is pre-requisite for metal activation of *Clostridium thermocellum* acetylxylan esterase. In *Biochimica et Biophysica Acta*, 2007, vol. 1770, p. 565-570. Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

3. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA134 BIELY, Peter** - SINGH, Suren - PUCHART, Vladimír. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In *Biotechnology Advances*, 2016, vol. 34, p. 1260-1274. (2015: 9.848 - IF, Q1 - JCR, 2.915 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2016.09.001>

Ohlasy:

1. [1.1] ALVAREZ, Cristina - SAEZ, Felicia - GONZALEZ, Alberto - BALLESTEROS, Ignacio - OLIVA, Jose Miguel - NEGRO, Maria Jose. Production of xylooligosaccharides and cellulosic ethanol from steam-exploded barley straw. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2019, vol. 73, no. 1, pp. 35-44., Registrované v: WOS
2. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - ALONSO, Jose Luis - SAEZ, Felicia - NEGRO, Maria Jose - GULLON, Beatriz. Xylooligosaccharides from steam-exploded barley straw: Structural features and assessment of bifidogenic properties. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 124, no., pp. 131-142. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.08.014>., Registrované v: WOS
3. [1.1] AURELI, Raffaella - LA-MARTA, James - GROSSI, Alberto Blak - DELLA PIA, Eduardo Antonio - ESTEVE-GARCIA, Enric - WULF-ANDERSEN, Linda - THORSEN, Michael. A novel glucuronoxylan hydrolase produced by fermentation is safe as feed additive: toxicology and tolerance in broiler chickens. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2018, vol. 99, no., pp. 213-224., Registrované v: WOS
4. [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS
5. [1.1] BLAKE, Andrew D. - BERI, Nina R. - GUTTMAN, Hadassa S. - CHENG, Raymond - GARDNER, Jeffrey G. The complex physiology of *Cellvibrio japonicus* xylan degradation relies on a single cytoplasmic xylosidase for xylo-oligosaccharide utilization. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2018, vol. 107, no. 5, pp. 610-622., Registrované v: WOS
6. [1.1] BOTTO, Emiliana - GIOIA, Larissa - DEL PILAR MENENDEZ, Maria - RODRIGUEZ, Paula. Pseudozyma sp. isolation from Eucalyptus leaves and its hydrolytic activity over xylan. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2019, vol. 21, no., pp., Registrované v: WOS
7. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxxylooligosaccharides (UXOS) and arabinoxxylooligosaccharides (AXOS) produced by two novel xylanases. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS
8. [1.1] BRENELLI, Livia B. - FIGUEIREDO, Fernanda L. - DAMASIO, Andre - FRANCO, Telma T. - RABELO, Sarita C. An integrated approach to obtain xylo-oligosaccharides from sugarcane straw: From lab to pilot scale. In *BIORESOURCETECHNOLOGY*. ISSN 0960-8524, 2020, vol. 313, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123637>., Registrované v: WOS
9. [1.1] BROEKER, Jannis - MECHELKE, Matthias - BAUDREXL, Melanie - MENNERICH, Denise - HORNBERG, Daniel - MANN, Matthias -

- SCHWARZ, Wolfgang H. - LIEBL, Wolfgang - ZVERLOV, Vladimir V. The hemicellulose-degrading enzyme system of the thermophilic bacterium *Clostridium stercoarium*: comparative characterisation and addition of new hemicellulolytic glycoside hydrolases. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
10. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
11. [1.1] COUTURIER, Marie - LADEVEZE, Simon - SULZENBACHER, Gerlind - CIANO, Luisa - FANUEL, Mathieu - MOREAU, Celine - VILLARES, Ana - CATHALA, Bernard - CHASPOUL, Florence - FRANDSEN, Kristian E. - LABOUREL, Aurore - HERPOEL-GIMBERT, Isabelle - GRISEL, Sacha - HAON, Mireille - LENFANT, Nicolas - ROGNIAUX, Helene - ROPARTZ, David - DAVIES, Gideon J. - ROSSO, Marie-Noelle - WALTON, Paul H. - HENRISSAT, Bernard - BERRIN, Jean-Guy. Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2018, vol. 14, no. 3, pp. 306-+, Registrované v: WOS
12. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS
13. [1.1] DA FONSECA, Maria Joao Mauricio - ARMSTRONG, Zachary - WITHERS, Stephen G. - BRIERS, Yves. High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na: <https://doi.org/10.1128/AEM.01505-20>., Registrované v: WOS
14. [1.1] DE AMO, Gabriela Salvador - BEZERRA-BUSSOLI, Carolina - DA SILVA, Ronivaldo Rodrigues - KISHI, Luciano Takeshi - FERREIRA, Henrique - MARIUTTI, Ricardo Barros - ARNI, Raghuvir Krishnaswamy - GOMES, Eleni - BONILLA-RODRIGUEZ, Gustavo Orlando. Heterologous expression, purification and biochemical characterization of a new xylanase from *Myceliophthora heterothallica* F.2.1.4. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 798-805., Registrované v: WOS
15. [1.1] DE OLIVEIRA SANTOS, Victor Tabosa - SIQUEIRA, Germano - FERREIRA MILAGRES, Adriane Maria - FERRAZ, Andre. Role of hemicellulose removal during dilute acid pretreatment on the cellulose accessibility and enzymatic hydrolysis of compositionally diverse sugarcane hybrids. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 722-730., Registrované v: WOS
16. [1.1] DERBA-MACELUCH, Marta - AMINI, Fariba - DONEV, Evgeniy N. - PAWAR, Prashant Mohan-Anupama - MICHAUD, Lisa -

- JOHANSSON, Ulf - ALBRECHTSEN, Benedicte R. - MELLEROWICZ, Ewa J. Cell Wall Acetylation in Hybrid Aspen Affects Field Performance, Foliar Phenolic Composition and Resistance to Biological Stress Factors in a Construct-Dependent Fashion. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00651>., Registrované v: WOS
17. [1.1] DEY, Prottyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
18. [1.1] EVANGELISTA, Danilo Elton - ARNOLDI PELLEGRIN, Vanessa de Oliveira - SANTO, Melissa Espirito - MCQUEEN-MASON, Simon - BRUCE, Neil C. - POLIKARPOV, Igor. Biochemical characterization and low-resolution SAXS shape of a novel GH11 exo-1,4-beta-xylanase identified in a microbial consortium. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 19, pp. 8035-8049., Registrované v: WOS
19. [1.1] FARIA, Syd Pereira - DE MELO, Guilhermar Ramos - CINTRA, Lorena Cardoso - RAMOS, Luiz Pereira - AMORIM JESUINO, Rosalia Santos - ULHOA, Cirano Jose - DE FARIA, Fabricia Paula. Production of cellulases and xylanases by *Humicola grisea* var. *thermoidea* and application in sugarcane bagasse arabinoxylan hydrolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112968>., Registrované v: WOS
20. [1.1] FOWLER, Claire A. - HEMSWORTH, Glyn R. - CUSKIN, Fiona - HART, Sam - TURKENBURG, Johan - GILBERT, Harry J. - WALTON, Paul H. - DAVIES, Gideon J. Structure and function of a glycoside hydrolase family 8 endoxylanase from *Teredinibacter turnerae*. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2018, vol. 74, no., pp. 946-955., Registrované v: WOS
21. [1.1] FREDRIKSEN, L. - STOKKE, R. - JENSEN, M. S. - WESTERENG, B. - JAMESON, J-K - STEEN, A. I. H. - EIJSINK, V. G. H. Discovery of a Thermostable GH10 Xylanase with Broad Substrate Specificity from the Arctic Mid-Ocean Ridge Vent System. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 6, pp., Registrované v: WOS
22. [1.1] FURUSAWA, Go. Biodiversity of Plant Polysaccharide-Degrading Bacteria in Mangrove Ecosystem. In TROPICAL LIFE SCIENCES RESEARCH. ISSN 1985-3718, 2019, vol. 30, no. 3, pp. 157-172., Registrované v: WOS
23. [1.1] FU, Li-Hao - JIANG, Nan - LI, Cheng-Xi - LUO, Xue-Mei - ZHAO, Shuai - FENG, Jia-Xun. Purification and characterization of an endo-xylanase from *Trichoderma* sp., with xylobiose as the main product from xylan hydrolysis. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
24. [1.1] GERMAN SERRANO-GAMBOA, Jose - ANTONIO ROJAS-HERRERA, Rafael - GONZALEZ-BURGOS, Araceli - LUIS FOLCH-MALLOL, Jorge - JAVIER JIMENEZ, Diego - NOEL SANCHEZ-GONZALEZ, Monica. Degradation profile of nixtamalized maize pericarp by the action of the microbial consortium PM-06. In AMB EXPRESS.

- ISSN 2191-0855, 2019, vol. 9, no., pp., Registrované v: WOS
25. [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaying - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS
26. [1.1] HAGIWARA, Yusuke - MIHARA, Yasuhiro - SAKAGAMI, Koichi - SAGARA, Ryuta - BAT-ERDENE, Undramaa - YATSUNAMI, Rie - NAKAMURA, Satoshi. Isolation of four xylanases capable of hydrolyzing corn fiber xylan from *Paenibacillus* sp. H2C. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2020, vol. 84, no. 3, pp. 640-650. Dostupné na: <https://doi.org/10.1080/09168451.2019.1693253>., Registrované v: WOS
27. [1.1] HEINZE, Simon - MECHELKE, Matthias - KORNBERGER, Petra - LIEBL, Wolfgang - SCHWARZ, Wolfgang H. - ZVERLOV, Vladimir V. Identification of endoxylanase XynE from *Clostridium thermocellum* as the first xylanase of glycoside hydrolase family GH141. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
28. [1.1] HOLCK, Jesper - DJAJADI, Demi T. - BRASK, Jesper - PILGAARD, Bo - KROGH, Kristian B. R. M. - MEYER, Anne S. - LANGE, Lene - WILKENS, Casper. Novel xylanolytic triple domain enzyme targeted at feruloylated arabinoxylan degradation. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2019, vol. 129, no., pp., Registrované v: WOS
29. [1.1] HOLCK, Jesper - FREDSLUND, Folmer - MOLLER, Marie S. - BRASK, Jesper - KROGH, Kristian B. R. M. - LANGE, Lene - WELNER, Ditte H. - SVENSSON, Birte - MEYER, Anne S. - WILKENS, Casper. A carbohydrate-binding family 48 module enables feruloyl esterase action on polymeric arabinoxylan. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 46, pp. 17339-17353., Registrované v: WOS
30. [1.1] HORI, Chiaki - SONG, Ruopu - MATSUMOTO, Kazuki - MATSUMOTO, Ruy - MINKOFF, Benjamin B. - OITA, Shuzo - HARA, Hideho - TAKASUKA, Taichi E. Proteomic Characterization of Lignocellulolytic Enzymes Secreted by the Insect-Associated Fungus *Daldinia decipiens* oita, Isolated from a Forest in Northern Japan. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2020, vol. 86, no. 8, pp. Dostupné na: <https://doi.org/10.1128/AEM.02350-19>., Registrované v: WOS
31. [1.1] CHATZIFRAGKOU, Afroditi - CHARALAMPOPOULOS, Dimitris. Distiller's dried grains with solubles (DDGS) and intermediate products as starting materials in biorefinery strategies. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 63-86., Registrované v: WOS
32. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In *NATURE REVIEWS CHEMISTRY*, 2020, vol. 4, no. 3, pp. 114-126. Dostupné na: <https://doi.org/10.1038/s41570-020-0163-6>., Registrované v: WOS
33. [1.1] CHIMPHANGO, Annie Fabian Abel. Sorption Behaviour of Enzymatically and Chemically Formed Beechwood (*Fagus sylvatica*) Xylan Hydrogels onto Cellulosic Materials Under Different Sorption Conditions. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543,

- 2019, vol. 27, no. 3, pp. 561-570., Registrované v: WOS
34. [1.1] JIANG, Kankan - LI, Lulu - LONG, Liangkun - DING, Shaojun. Comprehensive evaluation of combining hydrothermal pretreatment (autohydrolysis) with enzymatic hydrolysis for efficient release of monosaccharides and ferulic acid from corn bran. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 113, no., pp. 348-357., Registrované v: WOS
35. [1.1] JIMENEZ-ORTEGA, Elena - VALENZUELA, Susana - RAMIREZ-ESCUADERO, Mercedes - PASTOR, Francisco Javier - SANZ-APARICIO, Julia. Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 deciphers its molecular specificity. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 24, pp. 5362-5374. Dostupné na: <https://doi.org/10.1111/febs.15332>., Registrované v: WOS
36. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS
37. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS
38. [1.1] LIU, Taiyu - ZHANG, Jianguo. High-level expression and characterization of *Aspergillus niger* ATCC 1015 xylanase B in *Komagataella phaffii*. In APPLIED BIOLOGICAL CHEMISTRY. ISSN 2468-0834, 2018, vol. 61, no. 4, pp. 373-381., Registrované v: WOS
39. [1.1] LIU, Xueqiang - JIANG, Zhengqiang - LIU, Yu - YOU, Xin - YANG, Shaoqing - YAN, Qiaojuan. Biochemical characterization of a novel exo-oligoxylanase from *Paenibacillus barengoltzii* suitable for monosaccharification from corncobs. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no., pp., Registrované v: WOS
40. [1.1] LI, Cheng-Xi - ZHAO, Shuai - ZHANG, Ting - XIAN, Liang - LIAO, Lu-Sheng - LIU, Jun-Liang - FENG, Jia-Xun. Genome sequencing and analysis of *Talaromyces pinophilus* provide insights into biotechnological applications. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
41. [1.1] LOPEZ-HERNANDEZ, Marisol - ELENA RODRIGUEZ-ALEGRIA, Maria - LOPEZ-MUNGUIA, Agustin - WACHER, Carmen. Evaluation of xylan as carbon source for *Weissella* spp., a predominant strain in pozol fermentation. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 89, no., pp. 192-197., Registrované v: WOS
42. [1.1] MACCORMICK, Benjamin - VUONG, Thu V. - MASTER, Emma R. Chemo-enzymatic Synthesis of Clickable Xylo-oligosaccharide Monomers from Hardwood 4-O-Methylglucuronoxylan. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 2, pp. 521-530., Registrované v: WOS
43. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In

WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS

44. [1.1] MALGAS, Samkelo - PLETSCHE, Brett I. The effect of an oligosaccharide reducing-end xylanase, BhRex8A, on the synergistic degradation of xylan backbones by an optimised xylanolytic enzyme cocktail. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 122, no., pp. 74-81., Registrované v: WOS

45. [1.1] MALGAS, Samkelo - THORESEN, Mariska - VAN DYK, J. Susan - PLETSCHE, Brett I. Time dependence of enzyme synergism during the degradation of model and natural lignocellulosic substrates. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 103, no., pp. 1-11., Registrované v: WOS

46. [1.1] MARCOLONGO, Loredana - LA CARA, Francesco - DEL MONACO, Giovanni - PAIXAO, Susana M. - ALVES, Luis - MARQUES, Isabel Paula - IONATA, Elena. A novel beta-xylosidase from *Anoxybacillus* sp. 3M towards an improved agro-industrial residues saccharification. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 122, no., pp. 1224-1234., Registrované v: WOS

47. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium *Herbinix hemicellulosilytica*-Six new xylanases, three arabinofuranosidases and one xylosidase. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS

48. [1.1] MENG, Zhen - YANG, Qin-Zheng - WANG, Jing-zhen - HOU, Yun-Hua. Cloning, Characterization, and Functional Expression of a Thermostable Type B Feruloyl Esterase from Thermophilic *Thielavia terrestris*. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 4, pp. 1304-1317., Registrované v: WOS

49. [1.1] MILESSI-ESTEVES, Thais S. - CORRADINI, Felipe A. S. - KOPP, Willian - ZANGIROLAMI, Teresa C. - TARDIOLI, Paulo W. - GIORDANO, Roberto C. - GIORDANO, Raquel L. C. An Innovative Biocatalyst for Continuous 2G Ethanol Production from Xylo-Oligomers by *Saccharomyces cerevisiae* through Simultaneous Hydrolysis, Isomerization, and Fermentation (SHIF). In CATALYSTS, 2019, vol. 9, no. 3, pp., Registrované v: WOS

50. [1.1] MISHRA, Rashmi Ranjan - SAMANTARAY, Barsha - BEHERA, Bikash Chandra - PRADHAN, Biswa Ranjan - MOHAPATRA, Sonali. Process optimization for conversion of Waste Banana peels to biobutanol by A yeast Co-Culture fermentation system. In RENEWABLE ENERGY. ISSN 0960-1481, 2020, vol. 162, no., pp. 478-488. Dostupné na:

<https://doi.org/10.1016/j.renene.2020.08.045>., Registrované v: WOS

51. [1.1] MONTE, Joseana R. - LAURITO-FRIEND, Debora F. - MUSSATTO, Solange - FERRAZ, Andre - MILAGRES, Adriane M. F. Comparative Evaluation of Acid and Alkaline Sulfite Pretreatments for Enzymatic Saccharification of Bagasses from Three Different Sugarcane Hybrids. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 4, pp. 944-951., Registrované v: WOS

52. [1.1] MOROZ, Olga V. - SOBALA, Lukasz F. - BLAGOVA, Elena - COYLE, Travis - PENG, Wei - KROGH, Kristian B. R. Morkeberg - STUBBS,

Keith A. - WILSON, Keith S. - DAVIES, Gideon J. Structure of a Talaromyces pinophilus GH62 arabinofuranosidase in complex with AraDNJ a 1.25 angstrom resolution. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2018, vol. 74, no., pp. 490-495.,

Registrované v: WOS

53. [1.1] MOUTHER, Thibaut - APPELDOORN, Maaike M. - PEL, Herman - SCHOLS, Henk A. - GRUPPEN, Harry - KABEL, Mirjam A. Corn stover lignin is modified differently by acetic acid compared to sulfuric acid. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 121, no., pp. 160-168., Registrované v: WOS

54. [1.1] MROUEH, Mohamed - ARUANNO, Marion - BORNE, Romain - DE PHILIP, Pascale - FIEROBE, Henri-Pierre - TARDIF, Chantal - PAGES, Sandrine. The xyl-doc gene cluster of Ruminiclostridium cellulolyticum encodes GH43-and GH62--l-arabinofuranosidases with complementary modes of action. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS

55. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663.>, Registrované v: WOS

56. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - FOUQUET, Thierry - MATSUSHIKA, Akinori - INOUE, Hiroyuki. GH30-7 Endoxylanase C from the Filamentous Fungus Talaromyces cellulolyticus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 22, pp., Registrované v: WOS

57. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus Talaromyces cellulolyticus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS

58. [1.1] ORITA, Taku - SAKKA, Makiko - KIMURA, Tetsuya - SAKKA, Kazuo. Characterization of Ruminiclostridium josui arabinoxylan arabinofuranohydrolase, RjAxxh43B, and RjAxxh43B-containing xylanolytic complex. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 37-43., Registrované v: WOS

59. [1.1] OUTEIRINO, David - COSTA-TRIGO, Ivan - DE SOUZA OLIVEIRA, Ricardo Pinheiro - PEREZ GUERRA, Nelson - MANUEL DOMINGUEZ, Jose. A novel approach to the biorefinery of brewery spent grain. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 85, no., pp. 135-142., Registrované v: WOS

60. [1.1] PASSOTH, Volkmar - SANDGREN, Mats. Biofuel production from straw hydrolysates: current achievements and perspectives. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 13, pp. 5105-5116., Registrované v: WOS

61. [1.1] PAULY, Markus - RAMIREZ, Vicente. New Insights Into Wall Polysaccharide O-Acetylation. In FRONTIERS IN PLANT SCIENCE. ISSN

- 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
62. [1.1] PICCINNI, F. E. - ONTANON, O. M. - GHIO, S. - SAUKA, D. H. - TALIA, P. M. - RIVAROLA, M. L. - VALACCO, M. P. - CAMPOS, E. Secretome profile of *Cellulomonas* sp. B6 growing on lignocellulosic substrates. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2019, vol. 126, no. 3, pp. 811-825., Registrované v: WOS
63. [1.1] POLETTTO, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.01.005>., Registrované v: WOS
64. [1.1] PRESLEY, Gerald N. - NDIMBA, Bongani K. - SCHILLING, Jonathan S. Brown Rot-Type Fungal Decomposition of Sorghum Bagasse: Variable Success and Mechanistic Implications. In INTERNATIONAL JOURNAL OF MICROBIOLOGY. ISSN 1687-918X, 2018, vol. 2018, no., pp., Registrované v: WOS
65. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
66. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
67. [1.1] ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>., Registrované v: WOS
68. [1.1] SARCH, Cody - SUZUKI, Hitoshi - MASTER, Emma R. - WANG, Weijun. Kinetics and regioselectivity of three GH62 alpha-L-arabinofuranosidases from plant pathogenic fungi. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2019, vol. 1863, no. 6, pp. 1070-1078., Registrované v: WOS
69. [1.1] SAULNIER, L. Types and Functionality of Polysaccharides in Cereal Grains. In CEREAL GRAIN-BASED FUNCTIONAL FOODS: CARBOHYDRATE AND PHYTOCHEMICAL COMPONENTS. ISSN 2398-0656, 2019, vol. 6, no., pp. 54-84., Registrované v: WOS
70. [1.1] SECHOVCOVA, Hana - KULHAVA, Lucie - FLIEGEROVA, Katerina - TRUNDOVA, Maria - MORAIS, Daniel - MRAZEK, Jakub - KOPECNY, Jan. Comparison of enzymatic activities and proteomic profiles of *Butyrivibrio fibrisolvens* grown on different carbon sources. In PROTEOME SCIENCE. ISSN 1477-5956, 2019, vol. 17, no., pp., Registrované v: WOS
71. [1.1] SCHMUCK, Benjamin - GUDMUNDSSON, Mikael - HARD, Torleif - SANDGREN, Mats. Coupled chemistry kinetics demonstrate the utility of functionalized Sup35 amyloid nanofibrils in biocatalytic cascades. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294,

no. 41, pp. 14966-14977., Registrované v: WOS

72. [1.1] SCHRODER, Sybrin P. - DE BOER, Casper - MCGREGOR, Nicholas G. S. - ROWLAND, Rhianna J. - MOROZ, Olga - BLAGOVA, Elena - REIJNGOUD, Jos - ARENTSHORST, Mark - OSBORN, David - MORANT, Marc D. - ABBATE, Eric - STRINGER, Mary A. - KROGH, Kristian B. R. M. - RAICH, Lluís - ROVIRA, Carme - BERRIN, Jean-Guy - VAN WEZEL, Gilles P. - RAM, Arthur F. J. - FLOREA, Bogdan - VAN DER MAREL, Gijsbert A. - CODEE, Jeroen D. C. - WILSON, Keith S. - WU, Liang - DAVIES, Gideon J. - OVERKLEEF, Herman S. Dynamic and Functional Profiling of Xylan-Degrading Enzymes in *Aspergillus Secretomes* Using Activity-Based Probes. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2019, vol. 5, no. 6, pp. 1067-1078., Registrované v: WOS

73. [1.1] SINGH, Nisha - PURI, Munish - TULI, Deepak K. - GUPTA, Ravi P. - BARROW, Colin J. - MATHUR, Anshu S. Bioethanol production by a xylan fermenting thermophilic isolate *Clostridium* strain DBT-IOC-DC21. In ANAEROBE. ISSN 1075-9964, 2018, vol. 51, no., pp. 89-98., Registrované v: WOS

74. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

75. [1.1] SPERANDIO, Guilherme Bento - FERREIRA FILHO, Edivaldo Ximenes. Fungal co-cultures in the lignocellulosic biorefinery context: A review. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2019, vol. 142, no., pp. 109-123., Registrované v: WOS

76. [1.1] SPORCK, Daniele - REINOSO, Felipe A. M. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - FERRAZ, Andre - MILAGRES, Adriane M. F. Xylan extraction from pretreated sugarcane bagasse using alkaline and enzymatic approaches. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

77. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS

78. [1.1] UNDERLIN, Emilie N. - BOHM, Maximilian - MADSEN, Robert. Synthesis of Arabinoxylan Oligosaccharides by Preactivation-Based Iterative Glycosylations. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2019, vol. 84, no. 24, pp. 16036-16054., Registrované v: WOS

79. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

80. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and

- eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
81. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioproducts. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v: WOS
82. [1.1] WANG, Weijun - ANDRIC, Nikola - SARCH, Cody - SILVA, Bruno T. - TENKANEN, Maija - MASTER, Emma R. Constructing arabinofuranosidases for dual arabinoxylan debranching activity. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2018, vol. 115, no. 1, pp. 41-49., Registrované v: WOS
83. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetylxylose esterase activities. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS
84. [1.1] WILKENS, Casper - BUSK, Peter Kamp - PILGAARD, Bo - ZHANG, Wen-Jing - NIELSEN, Kare L. - NIELSEN, Per Halkjaer - LANGE, Lene. Diversity of microbial carbohydrate-active enzymes in Danish anaerobic digesters fed with wastewater treatment sludge. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
85. [1.1] WONG, Dominic W. S. - CHAN, Victor J. - LIAO, Hans. Metagenomic discovery of feruloyl esterases from rumen microflora. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 20, pp. 8449-8457., Registrované v: WOS
86. [1.1] YANG, Yi - YANG, Jinshui - WANG, Ruonan - LIU, Jiawen - ZHANG, Yu - LIU, Liang - WANG, Fengqin - YUAN, Hongli. Cooperation of hydrolysis modes among xylanases reveals the mechanism of hemicellulose hydrolysis by *Penicillium chrysogenum* P33. In MICROBIAL CELL FACTORIES, 2019, vol. 18, no. 1, pp., Registrované v: WOS
87. [1.1] YAO, Qingqing - HUANG, Mei - BU, Zhigang - ZENG, Jiarui - WANG, Xiang - LIU, Zeyi - MA, Jiangshan - ZHANG, Keke - LIU, Xuanming - ZHU, Yonghua. Identification and characterization of a novel bacterial carbohydrate esterase from the bacterium *Pantoea ananatis* Sd-1 with potential for degradation of lignocellulose and pesticides. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1479-1488. Dostupné na: <https://doi.org/10.1007/s10529-020-02855-8>., Registrované v: WOS
88. [1.1] ZERVA, Anastasia - PENTARI, Christina - GRISEL, Sacha - BERRIN, Jean-Guy - TOPAKAS, Evangelos. A new synergistic relationship between xylan-active LPMO and xylobiohydrolase to tackle recalcitrant xylan. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01777-x>., Registrované v: WOS
89. [1.1] ZERVA, Ioanna - REMMAS, Nikolaos - NTOUGIAS, Spyridon. Diversity and Biotechnological Potential of Xylan-Degrading Microorganisms from Orange Juice Processing Waste. In WATER, 2019, vol. 11, no. 2, pp., Registrované v: WOS

90. [1.2] SHARMA, Vishal - BHAT, Bilqeesa - GUPTA, Mahak - VAID, Surbhi - SHARMA, Shikha - NARGOTRA, Parushi - SINGH, Satbir - BAJAJ, Bijender Kumar. Role of systematic biology in biorefining of lignocellulosic residues for biofuels and chemicals production. In Sustainable Biotechnology-Enzymatic Resources of Renewable Energy, 2018-01-01, pp. 5-55., Registrované v: SCOPUS
91. [1.2] ZHU, Dunming - WU, Qiaqing - HUA, Ling. Industrial enzymes. In Comprehensive Biotechnology, 2019-01-01, pp. 1-13., Registrované v: SCOPUS
92. [3.2] Guo Yalan; Zhou Yumeng; Wu Bin; He Bingfang. Expression of glucurono-xylanase in *Bacillus subtilis* and optimization of fermentation conditions. In: Shengwu Jiagong Guocheng. ISSN: 1672-3678, 2019, Volume: 17 Issue: 4 Pages: 379-384, Registrované v: BIOSIS Citation Index

ADCA135 BIELY, Peter - WONG, K.K.Y. - SUCKLING, I.D. - ŠPÁNIKOVÁ, Silvia. Transacetylations to carbohydrates catalyzed by acetylxylan in the presence of organic solvent. In *Biochimica et Biophysica Acta*, 2003, vol.1623, p. 62-71. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/S0304-4165\(03\)00154-5](https://doi.org/10.1016/S0304-4165(03)00154-5)

Ohlasy:

1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
2. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
3. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
4. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

ADCA136 BIELY, Peter - CZISZÁROVÁ, Mária - AGGER, Jane W. - LI, Xin-Liang - PUCHART, Vladimír - VRŠANSKÁ, Mária - EIJSINK, Vincent G. H. - WESTERENG, Bjorge. Trichoderma reesei CE16 acetyl esterase and its role in enzymatic degradation of acetylated hemicellulose. In *Biochimica et Biophysica Acta : general subjects*, 2014, vol. 1840, p. 516-525. (2013: 3.829 - IF, Q2 - JCR, 1.672 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2013.10.008>

Ohlasy:

1. [1.1] BHARDWAJ, Nisha - VERMA, Vijay Kumar - CHATURVEDI, Venkatesh - VERMA, Pradeep. GH10 XynF1 and Xyn11A: the predominant xylanase identified in the profiling of extracellular proteome of *Aspergillus oryzae* LC1. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261,

- 2018, vol. 68, no. 11, pp. 731-742., Registrované v: WOS
2. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer *Trichoderma reesei*. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
3. [1.1] MAI-GISONDI, Galina - TURUNEN, Ossi - PASTINEN, Ossi - PAHIMANOLIS, Nikolaos - MASTER, Emma R. Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 79-80, no., pp. 27-33., Registrované v: WOS
4. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
5. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
6. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
7. [1.1] SARITHA, M. - SINGH, Surender - TIWARI, Rameshwar - GOEL, Renu - NAIN, Lata. Do cultural conditions induce differential protein expression: Profiling of extracellular proteome of *Aspergillus terreus* CM20. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 73-83., Registrované v: WOS
8. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
9. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
10. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
11. [1.2] JAMRICHOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetylerase CE16 from *Hypocrea Jecorina* Encoded by A Synthetic Gene and

Expressed in Escherichia coli Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS

ADCA137 BIELY, Peter - PUCHART, Vladimír - STRINGER, Marry Ann - MORKEBERG KROGH, Kristian B.R. Trichoderma reesei XYN VI - a novel appendage-dependent eukaryotic glucuronoxylan hydrolase. In *FEBS Journal*, 2014, vol. 281, p. 3894-3903. (2013: 3.986 - IF, Q2 - JCR, 2.121 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.12925>

Ohlasy:

1. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer Trichoderma reesei. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
2. [1.1] DRUZHININA, Irina S. - KOPCHINSKIY, Alexey G. - KUBICEK, Eva M. - KUBICEK, Christian P. A complete annotation of the chromosomes of the cellulase producer Trichoderma reesei provides insights in gene clusters, their expression and reveals genes required for fitness. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
3. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus Penicillium purpurogenum. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
4. [1.1] FU, Li-Hao - JIANG, Nan - LI, Cheng-Xi - LUO, Xue-Mei - ZHAO, Shuai - FENG, Jia-Xun. Purification and characterization of an endo-xylanase from Trichoderma sp., with xylobiose as the main product from xylan hydrolysis. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
5. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
6. [1.1] IKE, Masakazu - TOKUYASU, Ken. Control of pH by CO₂ Pressurization for Enzymatic Saccharification of Ca(OH)(2)-Pretreated Rice Straw in the Presence of CaCO₃. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2020, vol. 67, no. 2, pp. 59-62. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0019., Registrované v: WOS
7. [1.1] JI, S. D. - WANG, Z. Y. - FAN, H. J. - ZHANG, R. S. - YU, Z. Y. - WANG, J. J. - LIU, Z. H. Heterologous expression of the Hsp24 from Trichoderma asperellum improves antifungal ability of Populus transformant Pdpap-Hsp24 s to Cytospora chrysosperma and Alternaria alternate. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2016, vol. 129, no. 5, pp. 921-933., Registrované v: WOS
8. [1.1] KALOMOIRI, Panagiota - HOLCK, Jesper - COULOMB, Laure - BOOS, Irene - ENEMARK-RASMUSSEN, Kasper - SPODSBERG, Nikolaj - MONRAD, Rune Nygaard - CLAUSEN, Mads H. Substrate specificity

- of novel GH16 endo-beta-(1→3)-galactanases acting on linear and branched beta-(1→3)-galactooligosaccharides. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 290, no., pp. 44-52., Registrované v: WOS
9. [1.1] KATSIMPOURAS, Constantinos - DEDES, Grigorios - THOMAIDIS, Nikolaos S. - TOPAKAS, Evangelos. A novel fungal GH30 xylanase with xylobiohydrolase auxiliary activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
10. [1.1] LIAO, Hanpeng - ZHENG, Haiping - LI, Shuixian - WEI, Zhong - MEI, Xinlan - MA, Hongyu - SHEN, Qirong - XU, Yangchun. Functional diversity and properties of multiple xylanases from *Penicillium oxalicum* GZ-2. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
11. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
12. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
13. [1.1] MALGAS, Samkelo - PLETSCHKE, Brett I. The effect of an oligosaccharide reducing-end xylanase, BhRex8A, on the synergistic degradation of xylan backbones by an optimised xylanolytic enzyme cocktail. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 122, no., pp. 74-81., Registrované v: WOS
14. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
15. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - FOUQUET, Thierry - MATSUSHIKA, Akinori - INOUE, Hiroyuki. GH30-7 Endoxylanase C from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 22, pp., Registrované v: WOS
16. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
17. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus *Talaromyces cellulolyticus*. In JOURNAL OF

BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 11, pp. 4065-4078., Registrované v: WOS

18. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus *Talaromyces cellulolyticus*. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2020, vol. 76, no., pp. 341-349. Dostupné na: <https://doi.org/10.1107/S2053230X20009024>., Registrované v: WOS

19. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS

20. [1.1] PIRAYRE, Aurelie - DUVAL, Laurent - BLUGEON, Corinne - FIRMO, Cyril - PERRIN, Sandrine - JOURDIER, Etienne - MARGEOT, Antoine - BIDARD, Frederique. Glucose-lactose mixture feeds in industry-like conditions: a gene regulatory network analysis on the hyperproducing *Trichoderma reesei* strain Rut-C30. In BMC GENOMICS. ISSN 1471-2164, 2020, vol. 21, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s12864-020-07281-8>., Registrované v: WOS

21. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS

22. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS

ADCA138 BIELY, Peter - VRŠANSKÁ, Mária - KRÁTKY, Zdeno. Xylan degrading enzymes of the yeast *Cryptococcus albidus*. Identification and cellular localization. In *European Journal of Biochemistry*, 1980, vol.108, .., p. 313-321. ISSN 0014-2956. Dostupné na: <https://doi.org/10.1111/j.1432-1033.1980.tb04725.x>

Ohlasy:

1. [1.1] FARIA, Nuno Torres - MARQUES, Susana - FERREIRA, Frederico Castelo - FONSECA, Cesar. Production of xylanolytic enzymes by *Moesziomyces* spp. using xylose, xylan and brewery's spent grain as substrates. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2019, vol. 49, no., pp. 137-143., Registrované v: WOS

2. [1.1] MORAIS, Camila G. - LARA, Carla A. - OLIVEIRA, Evelyn S. - PETER, Gabor - DLAUCHY, Denes - ROSA, Carlos A. *Spencermartinsiella silvicola* sp nov., a yeast species isolated from rotting wood. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2016, vol. 66, no., pp. 604-608., Registrované v: WOS

3. [1.1] SENA, Leticia M. F. - MORAIS, Camila G. - LOPES, Mariana

- R. - SANTOS, Renata O. - UETANABARO, Ana P. T. - MORAIS, Paula B. - VITAL, Marcos J. S. - DE MORAIS, Marcos A. - LACHANCE, Marc-Andre - ROSA, Carlos A. d-Xylose fermentation, xylitol production and xylanase activities by seven new species of Sugiyamaella. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2017, vol. 110, no. 1, pp. 53-67., Registrované v: WOS
4. [1.1] SINGHAL, Anjali - JAISWAL, Prashant Kumar - THAKUR, Indu Shekhar. Biopulping of bagasse by *Cryptococcus albidus* under partially sterilized conditions. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2015, vol. 97, no., pp. 143-150., Registrované v: WOS
5. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS
6. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 265-292., Registrované v: SCOPUS

ADCA139 BIELY, Peter - VRŠANSKÁ, Mária. Xylanase of *Cryptococcus albidus*. In *Methods in Enzymology*. Vol.160, (1988), p. 638-648.

Ohlasy:

1. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In FUNGAL METABOLITES. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS

ADCA140 BIELY, Peter - KRÁTKY, Z. - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - BAUER, Štefan. Xylan-degrading activity in yeasts: Growth on xylose, xylan and hemicelluloses. In *Folia microbiologica*, 1978, vol. 23, p. 366-371. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02876436>

Ohlasy:

1. [1.1] LEUNG, Hilary T. C. - MAAS, Kendra R. - WILHELM, Roland C. - MOHN, William W. Long-term effects of timber harvesting on hemicellulolytic microbial populations in coniferous forest soils. In ISME JOURNAL. ISSN 1751-7362, 2016, vol. 10, no. 2, pp. 363-375., Registrované v: WOS
2. [1.1] SHARIQ, Maria - SOHAIL, Muhammad. Application of *Candida tropicalis* MK-160 for the production of xylanase and ethanol. In JOURNAL OF KING SAUD UNIVERSITY SCIENCE. ISSN 1018-3647, 2019, vol. 31, no. 4, pp. 1189-1194., Registrované v: WOS
3. [1.1] WANG, Pei - TAO, Han - JIN, Zhengyu - XU, Xueming. Impact of water extractable arabinoxylan from rye bran on the frozen steamed bread dough quality. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 200, no., pp. 117-124., Registrované v: WOS

ADCA141 BIELY, Peter - KREMnický, Ľubomir. Yeasts and their enzyme systems degrading cellulose, hemicelluloses and pectin. In *Food Technology and Biotechnology*, 1998, vol. 36, p. 305-312. ISSN 1330-9862.

Ohlasy:

1. [1.1] PINTO, Catia - CUSTODIO, Valeria - NUNES, Mariana - SONGY, Aurelie - RABENOELINA, Fanja - COURTEAUX, Barbara - CLEMENT, Christophe - GOMES, Ana Catarina - FONTAINE, Florence. Understand the Potential Role of *Aureobasidium pullulans*, a Resident Microorganism From Grapevine, to Prevent the Infection Caused by *Diplodia seriata*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 265-292., Registrované v: SCOPUS

ADCA142 BILANIČOVÁ, Dagmar - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária - BÁLEŠOVÁ, Jana - SCHMIDT, Štefan. Improvements in enzymatic preparation of alkyl glycosides. In *Czech Journal of Food Sciences*, 2010, vol. 28, p. 69-73. (2009: 0.602 - IF, Q3 - JCR, 0.250 - SJR, Q3 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1212-1800.

Ohlasy:

1. [1.1] VERA, Carlos - GUERRERO, Cecilia - WILSON, Lorena - ILLANES, Andres. Optimization of reaction conditions and the donor substrate in the synthesis of hexyl-beta-D-galactoside LE. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 128-136., Registrované v: WOS

ADCA143 BÍLIK, Vojtech - VOELTER, W. - BAYER, E. Durch Molybdationen katalysierte Reaktionen bei Kohlenhydraten, V. Epimerisierung von L-Rhamnose. In *Justus Liebigs Annalen der Chemie*, 1972, vol. 759, p. 189-194.

Ohlasy:

1. [1.2] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In *Chemical Reviews*. ISSN 00092665, 2015-01-01, 115, 9, pp. 3615-3676., Registrované v: SCOPUS
2. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA144 BÍLIK, Vojtech - VOELTER, W. - BAYER, E. Epimerisierung von D-galactose. VIII. In *Liebigs Annalen der Chemie*, 1974, vol. 1974, p. 1162-1166.

Ohlasy:

1. [1.1] JIA, Yuqing - LIU, Haichao. Mechanistic insight into the selective hydrogenolysis of sorbitol to propylene glycol and ethylene glycol on supported Ru catalysts. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2016, vol. 6, no. 19, pp. 7042-7052., Registrované v: WOS

ADCA145 BÍLIK, Vojtech - VOELTER, W. - BAYER, E. Epimerization of carbohydrates catalyzed by molybdate ions. In *Angewandte Chemie*, 1971, vol. 10, p. 909-909. ISSN 1433-7851.

Ohlasy:

1. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS

ADCA146 BÍLIK, Vojtech - PETRUŠ, Ladislav - FARKAŠ, Vladimír. Preparation of D-(U-14C) aldopentoses from any D-(U-14C) aldopentose. XXVI. In *Collectection of Czechoslovak Chemical Communications*, 1978, vol.43, .p.1163-1166. ISSN 0010-0765.

Ohlasy:

1. [1.1] BENNER, Steven A. - KIM, Hyo-Joong - BIONDI, Elisa. Prebiotic Chemistry that Could Not Not Have Happened. In *LIFE-BASEL*, 2019, vol. 9, no. 4, pp., Registrované v: WOS
2. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
3. [1.1] MUSHRIF, Samir H. - VASUDEVAN, Vallabh - KRISHNAMURTHY, Chethana B. - VENKATESH, Boddu. Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In *CHEMICAL ENGINEERING SCIENCE*. ISSN 0009-2509, 2015, vol. 121, no., pp. 217-235., Registrované v: WOS
4. [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In *ASTROBIOLOGY*. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS

ADCA147 BÍLIK, Vojtech - PETRUŠ, Ladislav - ZEMEK, Juraj. Reactions of saccharides catalyzed by molybdate ions. XIX. Molybdate complexes and epimerization of aldoses as a function of pH. In *Chemické zvesti*, 1978, vol. 32, p. 242-251. ISSN 0366-6352.

Ohlasy:

1. [1.1] BRAND, Stephen K. - LABINGER, Jay A. - DAVIS, Mark E. Tin Silsesquioxanes as Models for the "Open" Site in Tin-Containing Zeolite Beta. In *CHEMCATCHER*. ISSN 1867-3880, 2016, vol. 8, no. 1, pp. 121-124., Registrované v: WOS
2. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS
3. [1.1] CHETHANA, B. K. - LEE, Dongheon - MUSHRIF, Samir H. First principles investigation into the metal catalysed 1,2 carbon shift reaction for the epimerization of sugars. In *JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL*. ISSN 1381-1169, 2015, vol. 410, no., pp. 66-73., Registrované v: WOS

ADCA148 BÍLIK, Vojtech - KUČÁR, Š. Stereoselective hydroxylation of glycals. In *Carbohydrate Research*, 1970, vol. 13, p. 311-313. ISSN 0008-6215.

Ohlasy:

1. [1.1] BAYER, Marius - BAECHLE, Felix - ZIEGLER, Thomas. Synthesis and Pd-catalyzed coupling of 1-C-stannylated glycals. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 6, pp. 347-369., Registrované v: WOS
2. [1.1] LI, Wei - SILIPO, Alba - MOLINARO, Antonio - YU, Biao. Synthesis of bradyrhizose, a unique inositol-fused monosaccharide relevant to a Nod-factor independent nitrogen fixation. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2015, vol. 51, no. 32, pp. 6964-6967., Registrované v: WOS

ADCA149 BÍLIKOVÁ, Katarína - HANES, J. - NORDHOFF, E. - SAENGER, W. - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Apisimin, a new serine-valine-rich peptide from honeybee (*Apis mellifera* L.) royal jelly: purification and molecular characterization. In *FEBS Letters*, 2002, vol. 528, p. 125-129. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/S0014-5793\(02\)03272-6](https://doi.org/10.1016/S0014-5793(02)03272-6)

Ohlasy:

1. [1.1] ALBERONI, Daniele - GAGGIA, Francesca - BAFFONI, Loredana - DI GIOIA, Diana. Beneficial microorganisms for honey bees: problems and progresses. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 22, pp. 9469-9482., Registrované v: WOS
2. [1.1] BRUDZYNSKI, Katrina - MALDONADO-ALVAREZ, Liset. Polyphenol-Protein Complexes and Their Consequences for the Redox Activity, Structure and Function of Honey. A Current View and New Hypothesis a Review. In *POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES*. ISSN 1230-0322, 2015, vol. 65, no. 2, pp. 71-80., Registrované v: WOS
3. [1.1] BUTTSTEDT, Anja - MURESAN, Carmen I. - LILIE, Hauke - HAUSE, Gerd - IHLING, Christian H. - SCHULZE, Stefan-H. - PIETZSCH, Markus - MORITZ, Robin F. A. How Honeybees Defy Gravity with Royal Jelly to Raise Queens. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2018, vol. 28, no. 7, pp. 1095-+, Registrované v: WOS
4. [1.1] DANIHLIK, Jiri - ARONSTEIN, Kate - PETRIVALSKY, Marek. Antimicrobial peptides: a key component of honey bee innate immunity Physiology, biochemistry, and chemical ecology. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2015, vol. 54, no. 2, pp. 123-136., Registrované v: WOS
5. [1.1] DANIHLIK, Jiri - SKRABISOVA, Maria - LENOBEL, Rene - SEBELA, Marek - OMAR, Eslam - PETRIVALSKY, Marek - CRAILSHEIM, Karl - BRODSCHNEIDER, Robert. Does the Pollen Diet Influence the Production and Expression of Antimicrobial Peptides in Individual Honey Bees? In *INSECTS*. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS
6. [1.1] DEGRANDI-HOFFMAN, Gloria - GAGE, Stephanie L. - CORBY-HARRIS, Vanessa - CARROLL, Mark - CHAMBERS, Mona - GRAHAM, Henry - DEJONG, Emily Watkins - HIDALGO, Geoffrey - CALLE, Samantha - AZZOUZ-OLDEN, Farida - MEADOR, Charlotte - SNYDER, Lucy - ZIOLKOWSKI, Nick. Connecting the nutrient composition of seasonal pollens with changing nutritional needs of honey bee (*Apis mellifera* L.) colonies. In

JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2018, vol. 109, no., pp. 114-124., Registrované v: WOS

7. [1.1] DOBRITZSCH, Dirk - AUMER, Denise - FUSZARD, Matthew - ERLER, Silvio - BUTTSTEDT, Anja. The rise and fall of major royal jelly proteins during a honeybee (*Apis mellifera*) workers' life. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2019, vol. 9, no. 15, pp. 8771-8782.,

Registrované v: WOS

8. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS

9. [1.1] FURUSAWA, Takako - ARAI, Yasuko - KATO, Kenji - ICHIHARA, Kenji. Quantitative Analysis of Apisin, a Major Protein Unique to Royal Jelly. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2016, vol., no., pp.,

Registrované v: WOS

10. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Honeybee apisimin and plant arabinogalactans in honey costimulate monocytes. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 168, no., pp. 34-40., Registrované v: WOS

11. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - BISSON-ROWE, Liana - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Correlation of the immunostimulatory activities of honeys with their contents of identified bioactives. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 39-46., Registrované v: WOS

12. [1.1] LI, Zhiguo - HE, Jingfang - YU, Tiantian - CHEN, Yanping - HUANG, Wei-Fone - HUANG, Jingnan - ZHAO, Yazhou - NIE, Hongyi - SU, Songkun. Transcriptional and physiological responses of hypopharyngeal glands in honeybees (*Apis mellifera* L.) infected by *Nosema ceranae*. In APIDOLOGIE. ISSN 0044-8435, 2019, vol. 50, no. 1, pp. 51-62., Registrované v: WOS

13. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS

14. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS

15. [1.1] MURESAN, Carmen - BUTTSTEDT, Anja. pH-dependent stability of honey bee (*Apis mellifera*) major royal jelly proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

16. [1.1] PENG, Chi-Chung - SUN, Hui-Tzu - LIN, I-Ping - KUO, Ping-Chung - LI, Jen-Chieh. The functional property of royal jelly 10-hydroxy-2-decenoic acid as a melanogenesis inhibitor. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2017, vol. 17, no., pp., Registrované v: WOS

17. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
18. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS
19. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
20. [1.1] WU, Qinghua - PATOCKA, Jiri - KUČA, Kamil. Insect Antimicrobial Peptides, a Mini Review. In TOXINS, 2018, vol. 10, no. 11, pp., Registrované v: WOS
21. [1.2] ALRESHOODI, Fahad M. - SULTANBAWA, Yasmina. Antimicrobial activity of royal jelly. In Anti-Infective Agents. ISSN 22113525, 2015-06-01, 13, 1, pp. 50-59., Registrované v: SCOPUS
22. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
23. [1.2] KHAZAEI, Mozafar - ANSARIAN, Atefe - GHANBARI, Elham. New Findings on Biological Actions and Clinical Applications of Royal Jelly: A Review. In Journal of Dietary Supplements. ISSN 19390211, 2018-09-03, 15, 5, pp. 757-775., Registrované v: SCOPUS
24. [1.2] VIUDA-MARTOS, Manuel - PÉREZ-ALVAREZ, José A. - FERNÁNDEZ-LÓPEZ, Juana. Royal jelly: Health benefits and uses in medicine. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 199-218., Registrované v: SCOPUS

ADCA150 BÍLIKOVÁ, Katarína - WU, G.S. - ŠIMÚTH, Jozef. Isolation of a peptide fraction honeybee royal jelly as a potential antifoulbrood factor. In *Apidologie Vol. 32, (2001), p. 275-283*. ISSN 0044-8435.

Ohlasy:

1. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LI, Jianke. Molecular insights into the enhanced performance of royal jelly secretion by a stock of honeybee (*Apis mellifera ligustica*) selected for increasing royal jelly production. In APIDOLOGIE. ISSN 0044-8435, 2019, vol. 50, no. 4, pp. 436-453., Registrované v: WOS
2. [1.1] ARARSO, Zewdu - MA, Chuan - QI, Yuping - FENG, Mao - HAN, Bin - HU, Han - MENG, Lifeng - LI, Jianke. Proteome Comparisons between Hemolymph of Two Honeybee Strains (*Apis mellifera ligustica*) Reveal

- Divergent Molecular Basis in Driving Hemolymph Function and High Royal Jelly Secretion. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2018, vol. 17, no. 1, pp. 402-419., Registrované v: WOS
3. [1.1] BORBA, Renata S. - SPIVAK, Marla. Propolis envelope in *Apis mellifera* colonies supports honey bees against the pathogen, *Paenibacillus* larvae. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
4. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubbs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 63-75., Registrované v: WOS
5. [1.1] DANIHLIK, Jiri - ARONSTEIN, Kate - PETRIVALSKY, Marek. Antimicrobial peptides: a key component of honey bee innate immunity Physiology, biochemistry, and chemical ecology. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2015, vol. 54, no. 2, pp. 123-136., Registrované v: WOS
6. [1.1] DOBRITZSCH, Dirk - AUMER, Denise - FUSZARD, Matthew - ERLER, Silvio - BUTTSTEDT, Anja. The rise and fall of major royal jelly proteins during a honeybee (*Apis mellifera*) workers' life. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2019, vol. 9, no. 15, pp. 8771-8782., Registrované v: WOS
7. [1.1] ERLER, Silvio - MORITZ, Robin F. A. Pharmacophagy and pharmacophory: mechanisms of self-medication and disease prevention in the honeybee colony (*Apis mellifera*). In APIDOLOGIE. ISSN 0044-8435, 2016, vol. 47, no. 3, pp. 389-411., Registrované v: WOS
8. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICIOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
9. [1.1] GENG, Tao - HUANG, Yuxia - HOU, Chengxiang - QIN, Guangxing - LV, Dingding - GUO, Xijie. Inductive expression patterns of genes related to Toll signaling pathway in silkworm (*Bombyx mori*) upon *Beauveria bassiana* infection. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2016, vol. 19, no. 3, pp. 861-868., Registrované v: WOS
10. [1.1] HAN, Bin - FANG, Yu - FENG, Mao - HU, Han - QI, Yuping - HUO, Xinmei - MENG, Lifeng - WU, Bin - LI, Jianke. Quantitative Neuropeptidome Analysis Reveals Neuropeptides Are Correlated with Social Behavior Regulation of the Honeybee Workers. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2015, vol. 14, no. 10, pp. 4382-4393., Registrované v: WOS
11. [1.1] HU, Han - BEZABIH, Gebreamlak - FENG, Mao - WEI, Qiaohong - ZHANG, Xufeng - HU, Fan - MENG, Lifeng - FANG, Yu - HAN, Bin - MA, Chuan - LI, Jianke. In-depth Proteome of the Hypopharyngeal Glands of Honeybee Workers Reveals Highly Activated Protein and Energy Metabolism in Priming the Secretion of Royal Jelly. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2019, vol. 18, no. 4, pp. 606-621., Registrované v: WOS

12. [1.1] JIE, H. - LI, P. M. - ZHAO, G. J. - FENG, X. L. - ZENG, D. J. - ZHANG, C. L. - LEI, M. Y. - YU, M. - CHEN, Q. Amino acid composition of royal jelly harvested at different times after larval transfer. In GENETICS AND MOLECULAR RESEARCH. ISSN 1676-5680, 2016, vol. 15, no. 3, pp., Registrované v: WOS
13. [1.1] KHAZAEI, Mozafar - ANSARIAN, Atefe - GHANBARI, Elham. New Findings on Biological Actions and Clinical Applications of Royal Jelly: A Review. In Journal of Dietary Supplements. ISSN 19390211, 2018-09-03, 15, 5, pp. 757-775., Registrované v: SCOPUS
14. [1.1] KIM, Bo Yeon - JIN, Byung Rae. Antimicrobial activity of the C-terminal of the major royal jelly protein 4 in a honeybee (*Apis cerana*). In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 2, pp. 561-564., Registrované v: WOS
15. [1.1] KIM, Bo Yeon - LE, Kwang Sik - JUNG, Boknam - CHOI, Yong Soo - KIM, Hye Kyung - YOON, Hyung Joo - GUI, Zhong-Zheng - LE, Jungkwan - JIN, Byung Rae. Honeybee (*Apis cerana*) major royal jelly protein 4 exhibits antimicrobial activity. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 1, pp. 175-182., Registrované v: WOS
16. [1.1] KRONGDANG, Sasiprapa - EVANS, Jay D. - CHEN, Yanping - MOOKHPLOY, Wannapha - CHANTAWANNAKUL, Panuwan. Comparative susceptibility and immune responses of Asian and European honey bees to the American foulbrood pathogen, *Paenibacillus larvae*. In INSECT SCIENCE. ISSN 1672-9609, 2019, vol. 26, no. 5, pp. 831-842., Registrované v: WOS
17. [1.1] LIU, Long - ZHAO, Xing-Ying - TANG, Qing-Bo - LEI, Chao-Liang - HUANG, Qiu-Ying. The Mechanisms of Social Immunity Against Fungal Infections in Eusocial Insects. In TOXINS. ISSN 2072-6651, 2019, vol. 11, no. 5, pp., Registrované v: WOS
18. [1.1] MARIA ALONSO-SALCES, Rosa - MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - AUBONE, Ines - GISELLE DE PIANO, Fiorella - ANTUNEZ, Karina - ROSA FUSELLI, Sandra. Natural strategies for the control of *Paenibacillus larvae*, the causative agent of American foulbrood in honey bees: a review. In APIDOLOGIE. ISSN 0044-8435, 2017, vol. 48, no. 3, pp. 387-400., Registrované v: WOS
19. [1.1] OLIVEIRA, Ana - LEITE, Marta - KLUSKENS, Leon D. - SANTOS, Slvio B. - MELO, Luis D. R. - AZEREDO, Joana. The First *Paenibacillus larvae* Bacteriophage Endolysin (PlyPl23) with High Potential to Control American Foulbrood. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 7, pp., Registrované v: WOS
20. [1.1] PARK, Min Ji - KIM, Bo Yeon - PARK, Hee Geun - DENG, Yijie - YOON, Hyung Joo - CHOI, Yong Soo - LEE, Kwang Sik - JIN, Byung Rae. Major royal jelly protein 2 acts as an antimicrobial agent and antioxidant in royal jelly. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 3, pp. 684-689., Registrované v: WOS
21. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
22. [1.1] SAGONA, Simona - TURCHI, Barbara - FRATINI, Filippo - GIUSTI, Matteo - TORRACCA, Beatrice - NUVOLONI, Roberta - CERRI,

Domenico - FELICOLI, Antonio. Preliminary evaluation of glucose oxidase and its products in vitro antimicrobial activities on *Paenibacillus* larvae ATCC9545 vegetative form. In BULLETIN OF INSECTOLOGY. ISSN 1721-8861, 2015, vol. 68, no. 2, pp. 233-237., Registrované v: WOS

23. [1.1] SEDIVA, Maria - KLAUDINY, Jaroslav. The Antimicrobial Substances of Royal Jelly. In CHEMICKE LISTY. ISSN 0009-2770, 2015, vol. 109, no. 10, pp. 755-761., Registrované v: WOS

24. [1.1] SEDIVA, Maria - LAHO, Maros - KOHUTOVA, Lenka - MOJZISOVA, Andrea - MAJTAN, Juraj - KLAUDINY, Jaroslav. 10-HDA, A Major Fatty Acid of Royal Jelly, Exhibits pH Dependent Growth-Inhibitory Activity Against Different Strains of *Paenibacillus* larvae. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS

25. [1.1] TAHA, Ayman E. - ABDALLAH, Osama A. - ATTIA, Khalil M. - ABD EL-KARIM, Ragaa E. - ABD EL-HACK, Mohamed E. - EL-EDEL, Mohamed A. - SAADELDIN, Islam M. - HUSSEIN, Elsayed O. S. - SWELUM, Ayman A. Does in Ovo Injection of Two Chicken Strains with Royal Jelly Impact Hatchability, Post-Hatch Growth Performance and Haematological and Immunological Parameters in Hatched Chicks? In ANIMALS. ISSN 2076-2615, 2019, vol. 9, no. 8, pp., Registrované v: WOS

26. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS

27. [1.1] TEIXEIRA, Erica Weinstein - GUIMARAES-CESTARO, Lubiane - MARQUES FLORENCIO ALVES, Maria Luisa Teles - MESSAGE, Dejair - MARTINS, Marta Fonseca - PINTO DA LUZ, Cynthia Fernandes - SERRAO, Jose Eduardo. Spores of *Paenibacillus* larvae, *Ascosphaera apis*, *Nosema ceranae* and *Nosema apis* in bee products supervised by the Brazilian Federal Inspection Service. In REVISTA BRASILEIRA DE ENTOMOLOGIA. ISSN 0085-5626, 2018, vol. 62, no. 3, pp. 188-194., Registrované v: WOS

28. [1.1] WU, Qinghua - PATOCKA, Jiri - KUCA, Kamil. Insect Antimicrobial Peptides, a Mini Review. In TOXINS, 2018, vol. 10, no. 11, pp., Registrované v: WOS

29. [1.1] YEUNG, Yiu To - ARGUELLES, Sandro. Bee Products: Royal Jelly and Propolis. In NONVITAMIN AND NONMINERAL NUTRITIONAL SUPPLEMENTS, 2019, vol., no., pp. 475-484., Registrované v: WOS

30. [1.2] FUSELLI, Sandra Rosa - CUGNATA, Noelia Melina - MARÍNEZ, Pablo Giménez - ALONSO-SALCES, Rosa María. Control and prevention of American foulbrood in honey bees. In Control and Prevention of American Foulbrood in Honey Bees, 2017-01-01, pp. 1-128., Registrované v: SCOPUS

31. [1.2] ZHAO, Fangyuan - WU, Yajun - GE, Yiqiang - CHEN, Ying. Proteomics Analysis of Royal Jelly at Different Storage Condition. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-10-30, 17, 10, pp. 248-253., Registrované v: SCOPUS

ADCA151 BILISICS, Ladislav - VOJTAŠŠÁK, J. - CAPEK, Peter - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. Changes in glycosidase activities during galactoglucomannan oligosaccharide inhibition of auxin induced growth. In

Phytochemistry, 2004, vol. 2004, p. 1903-1909. ISSN 0031-9422. Dostupné na: <https://doi.org/10.1016/j.phytochem.2004.06.002>

Ohlasy:

1. [1.1] ABEDI, Tayebbeh - KHALIL, Mohamed Farouk Mohamed - ASAI, Toshihiko - ISHIHARA, Nami - KITAMURA, Kenji - ISHIDA, Nobuhiro - TANAKA, Nobukazu. UDP-galactose transporter gene hUGT1 expression in tobacco plants leads to hyper-galactosylated cell wall components. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2016, vol. 121, no. 5, pp. 573-583., Registrované v: WOS

ADCA152 BILKOVÁ, Andrea - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - POLÁKOVÁ, Monika. Antimicrobial activity of mannose-derived glycosides. In *Monatshefte für Chemie*, 2015, vol. 146, p. 1707-1714. (2014: 1.222 - IF, Q3 - JCR, 0.361 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-015-1530-8>

Ohlasy:

1. [1.1] GHEDA, Saly F. - ISMAIL, Gehan A. Natural products from some soil cyanobacterial extracts with potent antimicrobial, antioxidant and cytotoxic activities. In *ANAIIS DA ACADEMIA BRASILEIRA DE CIENCIAS*. ISSN 0001-3765, 2020, vol. 92, no. 2, pp. Dostupné na: <https://doi.org/10.1590/0001-3765202020190934>., Registrované v: WOS

ADCA153 BIRKHOLZ, Alysia - NEMČOVIČ, Marek - YU, Esther Dawen - GIRARDI, Enrico - WANG, Jing - KHURANA, Archana - PAUWELS, Nora - FARBER, Elisa - CHITALE, Sampada - FRANCK, Richard W. - TSUJI, Moriya - HOWELL, Amy - VAN CALENBERGH, Serge - KRONENBERG, Mitchell - ZAJONC, Dirk M. Lipid and carbohydrate modifications of α -galactosylceramide differently influence mouse and human type I natural killer T cell activation. In *Journal of Biological Chemistry*, 2015, vol. 290, p. 17206-17217. (2014: 4.573 - IF, Q1 - JCR, 3.258 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M115.654814>

Ohlasy:

1. [1.1] DRIVER, John P. - DE CARVALHO MADRID, Darling Melany - GU, Weihong - ARTIAGA, Bianca L. - RICHT, Jorgen A. Modulation of Immune Responses to Influenza A Virus Vaccines by Natural Killer T Cells. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.02172>., Registrované v: WOS
2. [1.1] GODFREY, Dale I. - LE NOURS, Jerome - ANDREWS, Daniel M. - ULDRICH, Adam P. - ROSSJOHN, Jamie. Unconventional T Cell Targets for Cancer Immunotherapy. In *IMMUNITY*. ISSN 1074-7613, 2018, vol. 48, no. 3, pp. 453-473., Registrované v: WOS
3. [1.1] HUANG, Shouxiong - MOODY, D. Branch. Donor-unrestricted T cells in the human CD1 system. In *IMMUNOGENETICS*. ISSN 0093-7711, 2016, vol. 68, no. 8, pp. 577-596., Registrované v: WOS
4. [1.1] JUKES, John-Paul - GILEADI, Uzi - GHADBANE, Hemza - YU, Ting-Fong - SHEPHERD, Dawn - COX, Liam R. - BESRA, Gurdyal S. - CERUNDOLO, Vincenzo. Non-glycosidic compounds can stimulate both human and mouse iNKT cells. In *EUROPEAN JOURNAL OF IMMUNOLOGY*. ISSN 0014-2980, 2016, vol. 46, no. 5, pp. 1224-1234., Registrované v: WOS
5. [1.1] SAAVEDRA-AVILA, Noemi Alejandra - KESHIPEDDY,

Santosh - GUBERMAN-PFEFFER, Matthew J. - PEREZ-GALLEGOS, Ayax - SAINI, Neeraj K. - SCHAFER, Carolina - CARRENO, Leandro J. - GASCON, Jose A. - PORCELLI, Steven A. - HOWELL, Amy R. Amide-Linked C4 "-Saccharide Modification of KRN7000 Provides Potent Stimulation of Human Invariant NKT Cells and Anti-Tumor Immunity in a Humanized Mouse Model. In ACS CHEMICAL BIOLOGY. ISSN 1554-8929, 2020, vol. 15, no. 12, pp. 3176-3186. Dostupné na: <https://doi.org/10.1021/acschembio.0c00707>., Registrované v: WOS

6. [1.1] SMITH, Dylan G. M. - WILLIAMS, Spencer J. Immune sensing of microbial glycolipids and related conjugates by T cells and the pattern recognition receptors MCL and Mincle. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 420, no., pp. 32-45., Registrované v: WOS

7. [1.1] TIWARY, Shweta - BERZOFKY, Jay A. - TERABE, Masaki. Altered Lipid Tumor Environment and Its Potential Effects on NKT Cell Function in Tumor Immunity. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2019, vol. 10, no., pp., Registrované v: WOS

8. [1.1] WOODS, N. - NIWASABUTRA, K. - ACEVEDO, R. - IGOLI, J. - ALTWAIJRY, N. A. - TUSIIMIRE, J. - GRAY, A. I. - WATSON, D. G. - FERRO, V. A. Natural Vaccine Adjuvants and Immunopotentiators Derived From Plants, Fungi, Marine Organisms, and Insects. In IMMUNOPOTENTIATORS IN MODERN VACCINES, 2ND EDITION, 2017, vol., no., pp. 211-229., Registrované v: WOS

9. [1.1] YANG, Guan - ARTIAGA, Bianca L. - LOMELINO, Carrie L. - JAYAPRAKASH, Anitha D. - SACHIDANANDAM, Ravi - MCKENNA, Robert - DRIVER, John P. Next Generation Sequencing of the Pig alpha beta TCR Repertoire Identifies the Porcine Invariant NKT Cell Receptor. In JOURNAL OF IMMUNOLOGY. ISSN 0022-1767, 2019, vol. 202, no. 7, pp. 1981-1991., Registrované v: WOS

10. [1.2] WOODS, N. - NIWASABUTRA, K. - ACEVEDO, R. - IGOLI, J. - ALTWAIJRY, N. A. - TUSIIMIRE, J. - GRAY, A. I. - WATSON, D. G. - FERRO, V. A. Natural Vaccine Adjuvants and Immunopotentiators Derived From Plants, Fungi, Marine Organisms, and Insects. In Immunopotentiators in Modern Vaccines: Second Edition, 2016-11-14, pp. 211-229., Registrované v: SCOPUS

11. [3.2] Group Author(s). Uniprot Consortium. A0A5B9. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/A0A5B9>, Registrované v: Data Citation Index

ADCA154 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - TOMČÍK, Peter - GEMEINER, Peter - BUČKO, Marek - MAGDOLEN, Peter - TKÁČ, Ján. A biopolymer-based carbon nanotube interface integrated with a redox shuttle and a D-sorbitol dehydrogenase for robust monitoring of D-sorbitol. In *Microchimica Acta*, 2011, vol. 175, p. 21-30. (2010: 2.578 - IF, Q2 - JCR, 0.965 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-011-0641-0>

Ohlasy:

1. [1.1] EVTUGYN, G. A. Biosensor to Ensure Food Security and Environmental Control. In BIOSENSORS FOR SUSTAINABLE FOOD NEW OPPORTUNITIES AND TECHNICAL CHALLENGES. ISSN 0166-526X, 2016, vol. 74, no., pp. 121-152., Registrované v: WOS

2. [1.1] GESSEI, Tomoko - ARAKAWA, Takahiro - KUDO, Hiroyuki - MITSUBAYASHI, Kohji. A fiber-optic sorbitol biosensor based on NADH fluorescence detection toward rapid diagnosis of diabetic complications. In ANALYST. ISSN 0003-2654, 2015, vol. 140, no. 18, pp. 6335-6342., Registrované v: WOS
3. [1.1] KANT, Ravi - TABASSUM, Rana - GUPTA, Banshi D. A highly sensitive and distinctly selective D-sorbitol biosensor using SDH enzyme entrapped Ta₂O₅ nanoflowers assembly coupled with fiber optic SPR. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 242, no., pp. 810-817., Registrované v: WOS
4. [1.1] PINTO, Paula C. A. G. - AMORIM, Celia M. G. - ARAUJO, Alberto N. - MONTENEGRO, M. Conceicao B. S. M. - SARAIVA, M. Lucia M. F. S. Determination of Aspartame and Sorbitol. In FLOW INJECTION ANALYSIS OF FOOD ADDITIVES. ISSN 2475-7551, 2016, vol., no., pp. 449-464., Registrované v: WOS
5. [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/1568026620066200306131416>., Registrované v: WOS
6. [3.1] Marques C., Tarek R., Sara M., Brar S.K. (2016). Sorbitol production from biomass and its global market. In Satinder Kaur Brar, Saurabh Jyoti Sarma, Kannan Pakshirajan (eds.). Platform Chemical Biorafinery: Future Green Chemistry. (Elsevier, chapter 12, p. 217-227)
7. [3.1] Ummalyma, S B (Ummalyma, Sabeela Beevi); Rijeeba, H (Rijeeba, Haobam); Sindhu, R (Sindhu, Raveendran); Binod, P (Binod, Parameswaran); Pandey, A (Pandey, Ashok). Sorbitol Demineralization by Ion Exchange. In: APPLICATIONS OF ION EXCHANGE MATERIALS IN BIOMEDICAL INDUSTRIES (2019), p. 155-161

ADCA155 ŠEFČOVIČOVÁ, Jana - KATRLÍK, Jaroslav - ŠTEFUCA, V. - MASTIHUBA, Vladimír - VOŠTIAR, I. - GREIF, G. - BUČKO, Marek - TKÁČ, Ján - GEMEINER, Peter. A filtration probe-free on-line monitoring of glycerol during fermentation by a biosensor device. In *Enzyme and Microbial Technology*, 2008, vol. 42, p. 434-439. (2007: 1.969 - IF, Q2 - JCR, 0.937 - SJR, Q2 - SJR). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2008.01.006>

Ohlasy:

1. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS
2. [1.2] Pacheco, J. G., Barroso, M. F., Nouws, H. P. A., Morais, S., & Delerue-Matos, C. (2017). Biosensors. In Current developments in biotechnology and bioengineering: Bioprocesses, bioreactors and controls (Elsevier, chapter 21, pp. 627-648), Registrované v: SCOPUS

ADCA156 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - MASTIHUBA, Vladimír - GEMEINER, Peter - TKÁČ, Ján. Analysis of ethanol in fermentation samples by a

robust nanocomposite-based microbial biosensors. In *Biotechnology Letters*, 2012, vol. 34, p. 1033-1039. (2011: 1.683 - IF, Q3 - JCR, 0.725 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-012-0875-x>

Ohlasy:

1. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
2. [1.1] GORDEGIR, Meleknur - OZ, Sultan - YEZER, Irem - BUHUR, Merve - UNAL, Betul - DEMIRKOL, Dilek Odaci. Cells-on-nanofibers: Effect of polyethyleneimine on hydrophobicity of poly-epsilon-caprolacton electrospun nanofibers and immobilization of bacteria. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2019, vol. 126, no., pp. 24-31., Registrované v: WOS
3. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989., Registrované v: WOS
4. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS*, 2017, vol., no., pp. 627-648., Registrované v: WOS
5. [1.1] POHANKA, Miroslav. Biosensors containing acetylcholinesterase and butyrylcholinesterase as recognition tools for detection of various compounds. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2015, vol. 69, no. 1, pp. 4-16., Registrované v: WOS
6. [1.1] SEN SARMA, Neelotpal - DUTTA, Priyanka - CHAKRAVARTY, Sudesna. Sustainable Nanostructural Materials in Biosensor Application. In *DYNAMICS OF ADVANCED SUSTAINABLE NANOMATERIALS AND THEIR RELATED NANOCOMPOSITES AT THE BIO-NANO INTERFACE*, 2019, vol., no., pp. 215-233., Registrované v: WOS
7. [1.1] YE, Yongli - GUO, Hongyan - SUN, Xiulan. Recent progress on cell-based biosensors for analysis of food safety and quality control. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 126, no., pp. 389-404., Registrované v: WOS
8. [1.1] YILDIRIM, Nimet - DEMIRKOL, Dilek Odaci - TIMUR, Suna. Modified Gold Surfaces with Gold Nanoparticles and 6-(Ferrocenyl)hexanethiol: Design of a Mediated Microbial Sensor. In *ELECTROANALYSIS*. ISSN 1040-0397, 2015, vol. 27, no. 1, pp. 52-57., Registrované v: WOS
9. [1.2] Pacheco, J. G., Barroso, M. F., Nouws, H. P. A., Morais, S., & Delerue-Matos, C. (2017). Biosensors. In *Current developments in biotechnology and bioengineering: Bioprocesses, bioreactors and controls* (Elsevier, chapter 21, pp. 627-648), Registrované v: SCOPUS
10. [1.2] SUSPARINI, Ninik Triayu - ABIDIN, Zaenal - ISWANTINI, Dyah - NURHIDAYAT, Novik. Sensitive and stable ethanol biosensor

development based on acetobacter aceti biofilm for halal detection of food and beverages. In Journal of Applied Biology and Biotechnology, 2019-11-01, 7, 6, pp. 40-47., Registrované v: SCOPUS

11. [3.1] Lorenzo, JM (Lorenzo, JM); Munekata, PE (Munekata, PE); Muchenje, V (Muchenje, Voster); Saraiva, JA (Saraiva, Jorge A); Pinto, CA (Pinto, Carlos A); Barba, FJ (Barba, Francisco J); Santos, EM (Santos, EM).

Biosensors Applied to Quantification of Ethanol in Beverages. In: ENGINEERING TOOLS IN THE BEVERAGE INDUSTRY: The Science of Beverages Volume: 3 Chapter 15 Pages: 447-468

12. [3.1] Wang, Y-Z (Wang, Yan-Zhai); Christopher, JK (Christopher, Joseph Kirubaharan); Yong, Y-Ch (Yong, Yang-Chun); Zhai, D-D (Zhai, Dan-Dan). Nutrient Detection with Whole-Cell Biosensors. In: HANDBOOK OF CELL BIOSENSORS (2019), p. 1-20

ADCA157 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - GEMEINER, Peter - VIKARTOVSKÁ, Alica - PÄTOPRSTÝ, Vladimír - TKÁČ, Ján. High performance microbial 3-D bionanocomposite as a bioanode for a mediated biosensor device. In *Electrochemistry Communications*, 2011, vol. 13, p. 966-968. (2010: 4.287 - IF, Q1 - JCR, 2.179 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1388-2481. Dostupné na: <https://doi.org/10.1016/j.elecom.2011.06.013>

Ohlasy:

1. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS

2. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on Gluconobacter oxydans. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS

3. [1.1] FANG, Deyu - GAO, Guanyue - SHEN, Jie - YU, Yuan - ZHI, Jinfang. A reagentless electrochemical biosensor based on thionine wrapped E-coli and chitosan-entrapped carbon nanodots film modified glassy carbon electrode for wastewater toxicity assessment. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 222, no., pp. 303-311., Registrované v: WOS

4. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989., Registrované v: WOS

5. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS

6. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - RESHETILOV, Anatoly. Electrochemical assessment of the interaction of microbial living cells and carbon nanomaterials. In *IET*

NANOBIOTECHNOLOGY. ISSN 1751-8741, 2019, vol. 13, no. 3, pp. 332-338., Registrované v: WOS

7. [1.1] ZAFAR, Rabia - ZIA, Khalid Mahmood - TABASUM, Shazia - JABEEN, Farukh - NOREEN, Aqdas - ZUBER, Mohammad. Polysaccharide based bionanocomposites, properties and applications: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 92, no., pp. 1012-1024., Registrované v: WOS
8. [3.1] Wang, Y-Z (Wang, Yan-Zhai); Christopher, JK (Christopher, Joseph Kirubaharan); Yong, Y-Ch (Yong, Yang-Chun); Zhai, D-D (Zhai, Dan-Dan). Nutrient Detection with Whole-Cell Biosensors. In: HANDBOOK OF CELL BIOSENSORS (2019) p. 1-20

ADCA158 ŠEFČOVIČOVÁ, Jana - VIKARTOVSKÁ, Alica - PÄTOPRSTÝ, Vladimír - MAGDOLEN, Peter - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter. Off-line FIA monitoring of D-dorbitol consumption during L-sorbose production using a sorbitol biosensor. Vladimír Pätoprstý. In *Analytica Chimica Acta*, 2009, vol.644, pp. 68-71. Dostupné na: <https://doi.org/10.1016/j.aca.2009.04.012>

Ohlasy:

1. [1.1] AZAR, Sepideh Alizad Derakhshi - ALEMZADEH, Iran. L-Sorbose Production by Gluconobacter oxydans using Submerged Fermentation in a Bench Scale Fermenter. In APPLIED FOOD BIOTECHNOLOGY. ISSN 2345-5357, 2020, vol. 7, no. 1, pp. 41-48. Dostupné na: <https://doi.org/10.22037/afb.v7i1.26582>., Registrované v: WOS
2. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS
3. [1.1] PINTO, Paula C. A. G. - AMORIM, Celia M. G. - ARAUJO, Alberto N. - MONTENEGRO, M. Conceicao B. S. M. - SARAIVA, M. Lucia M. F. S. Determination of Aspartame and Sorbitol. In FLOW INJECTION ANALYSIS OF FOOD ADDITIVES, 2016, vol., no., pp. 449-464., Registrované v: WOS
4. [1.1] SCOGNAMIGLIO, Viviana - ANTONACCI, Amina - LAMBREVA, Maya D. - ARDUINI, Fabiana - PALLESCHI, Giuseppe - LITESCU, Simona C. - JOHANNINGMEIER, Udo - REA, Giuseppina. Application of Biosensors for Food Analysis. In FOOD SAFETY: INNOVATIVE ANALYTICAL TOOLS FOR SAFETY ASSESSMENT, 2017, vol., no., pp. 395-434., Registrované v: WOS
5. [1.2] Pacheco, J. G., Barroso, M. F., Nouws, H. P. A., Morais, S., & Delerue-Matos, C. (2017). Biosensors. In Current developments in biotechnology and bioengineering: Bioprocesses, bioreactors and controls (Elsevier, chapter 21, pp. 627-648), Registrované v: SCOPUS
6. [1.2] SCOGNAMIGLIO, Viviana - ANTONACCI, Amina - LAMBREVA, Maya D. - ARDUINI, Fabiana - PALLESCHI, Giuseppe - LITESCU, Simona C. - JOHANNINGMEIER, Udo - REA, Giuseppina. Application of biosensors for food analysis. In Food Safety: Innovative Analytical Tools for Safety Assessment, 2016-12-27, pp. 395-434., Registrované v: SCOPUS
7. [1.2] YANG, Weichao - XU, Hui. Industrial Fermentation of Vitamin

C. In Industrial Biotechnology of Vitamins, Biopigments, and Antioxidants, 2016-04-29, pp. 161-192., Registrované v: SCOPUS

ADCA159 BLANCO, Noelia - SANZ, Ana B. - RODRIGUES-PENA, Jose M. - NOMBELA, César - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier. Structural and functional analysis of yeast Crh1 and Crh2 transglycosylases. In *FEBS Journal*, 2015, vol.282, p. 715-731. (2014: 4.001 - IF, Q2 - JCR, 2.259 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.13176>

Ohlasy:

1. [1.1] AIMANIANDA, Vishukumar - SIMENEL, Catherine - GARNAUD, Cecile - CLAVAUD, Cecile - TADA, Rui - BARBIN, Lise - MOUYNA, Isabelle - HEDDERGOTT, Christoph - POPOLO, Laura - OHYA, Yoshikazu - DELEPIERRE, Muriel - LATGE, Jean-Paul. The Dual Activity Responsible for the Elongation and Branching of beta-(1,3)-Glucan in the Fungal Cell Wall. In *MBIO*. ISSN 2150-7511, 2017, vol. 8, no. 3, pp., Registrované v: WOS
2. [1.1] DAVID, Benoit - IRAGUE, Romain - JOUANNEAU, Diane - DALIGAULT, Franck - CZJZEK, Mirjam - SANEJOUAND, Yves-Henri - TELLIER, Charles. Internal Water Dynamics Control the Transglycosylation/Hydrolysis Balance in the Agarase (AgaD) of *Zobellia galactanivorans*. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 5, pp. 3357-3367., Registrované v: WOS
3. [1.1] MARTINEZ-NUNEZ, Leonora - RIQUELME, Meritxell. Role of BGT-1 and BGT-2, two predicted GPI-anchored glycoside hydrolases/glycosyltransferases, in cell wall remodeling in *Neurospora crassa*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2015, vol. 85, no., pp. 58-70., Registrované v: WOS
4. [1.1] OMAR, Sarena Che - BENTLEY, Michael A. - MORIERI, Giulia - PRESTON, Gail M. - GURR, Sarah J. Validation of Reference Genes for Robust qRT-PCR Gene Expression Analysis in the Rice Blast Fungus *Magnaporthe oryzae*. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 8, pp., Registrované v: WOS
5. [1.1] QIN, Zhen - YANG, Shaoqing - ZHAO, Liming - YOU, Xin - YAN, Qiaojuan - JIANG, Zhengqiang. Catalytic Mechanism of a Novel Glycoside Hydrolase Family 16 "Elongating" Transglycosylase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 5, pp. 1666-1678., Registrované v: WOS
6. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In *MOLECULES*, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS
7. [1.1] VIBORG, Alexander Holm - TERRAPON, Nicolas - LOMBARD, Vincent - MICHEL, Gurvan - CZJZEK, Mirjam - HENRISSAT, Bernard - BRUMER, Harry. A subfamily roadmap of the evolutionarily diverse glycoside hydrolase family 16 (GH16). In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 44, pp. 15973-15986., Registrované v: WOS
8. [1.1] YANG, Jian - XU, Yuqun - MIYAKAWA, Takuya - LONG,

Lijuan - TANOKURA, Masaru. Molecular Basis for Substrate Recognition and Catalysis by a Marine Bacterial Laminarinase. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na: <https://doi.org/10.1128/AEM.01796-20>., Registrované v: WOS

ADCA160 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - KASÁK, Peter - TKÁČ, Ján**. Antibodies against aberrant glycans as cancer biomarkers. In *Expert Review of Molecular Diagnostics*, 2019, vol. 19, p. 1057-1068. (2018: 3.099 - IF, Q2 - JCR, 1.171 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1473-7159. Dostupné na: <https://doi.org/10.1080/14737159.2020.1687295>

Ohlasy:

1. [1.1] RAUF, Femina - ANDERSON, Karen S. - LABAER, Joshua. Autoantibodies in Early Detection of Breast Cancer. In *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*. ISSN 1055-9965, 2020, vol. 29, no. 12, pp. 2475-2485. Dostupné na: <https://doi.org/10.1158/1055-9965.EPI-20-0331>., Registrované v: WOS

ADCA161 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining alfa-1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In *Organic and Biomolecular Chemistry*, 2014, vol. 12, p. 4201-4210. (2013: 3.487 - IF, Q1 - JCR, 1.481 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1477-0520. Dostupné na: <https://doi.org/10.1039/c4ob00286e>

Ohlasy:

1. [1.1] ALBESA-JOVE, David - MENDOZA, Fernanda - RODRIGO-UNZUETA, Ane - GOMOLLON-BEL, Fernando - CIFUENTE, Javier O. - URRESTI, Saioa - COMINO, Natalia - GOMEZ, Hansel - ROMERO-GARCIA, Javier - LLUCH, Jose M. - SANCHO-VAELLO, Enea - BIARNES, Xevi - PLANAS, Antoni - MERINO, Pedro - MASGRAU, Laura - GUERIN, Marcelo E. A Native Ternary Complex Trapped in a Crystal Reveals the Catalytic Mechanism of a Retaining Glycosyltransferase. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2015, vol. 54, no. 34, pp. 9898-9902., Registrované v: WOS

2. [1.1] ALBESA-JOVE, David - CIFUENTE, Javier O. - TRASTOY, Beatriz - GUERIN, Marcelo E. Quick-soaking of crystals reveals unprecedented insights into the catalytic mechanism of glycosyltransferases. In *CHEMICAL AND SYNTHETIC BIOLOGY APPROACHES TO UNDERSTAND CELLULAR FUNCTIONS PT A*. ISSN 0076-6879, 2019, vol. 621, no., pp. 261-279., Registrované v: WOS

3. [1.1] ARDEVOL, Albert - IGLESIAS-FERNANDEZ, Javier - ROJAS-CERVELLERA, Victor - ROVIRA, Carme. The reaction mechanism of retaining glycosyltransferases. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. ISSN 0300-5127, 2016, vol. 44, no., pp. 51-60., Registrované v: WOS

4. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In *JOURNAL OF*

PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS

5. [1.1] COLLIER, Alice - WAGNER, Gerd K. Base-modified GDP-mannose derivatives and their substrate activity towards a yeast mannosyltransferase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 91-96., Registrované v: WOS

6. [1.1] CULBERTSON, Alan T. - CHOU, Yi-Hsiang - SMITH, Adrienne L. - YOUNG, Zachary T. - TIETZE, Alesia A. - COTTAZ, Sylvain - FAURE, Regis - ZABOTINA, Olga A. Enzymatic Activity of Xyloglucan Xylosyltransferase 5. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2016, vol. 171, no. 3, pp. 1893-1904., Registrované v: WOS

7. [1.1] HIRA, Daisuke - ONOUE, Takuya - OKA, Takuji. Structural basis for the core-mannan biosynthesis of cell wall fungal-type galactomannan in *Aspergillus fumigatus*. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2020, vol. 295, no. 45, pp. 15407-15417. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013742>., Registrované v: WOS

8. [1.1] IGLESIAS-FERNANDEZ, Javier - HANCOCK, Susan M. - LEE, Seung Seo - KHAN, Maola - KIRKPATRICK, Jo - OLDHAM, Neil J. - MCAULEY, Katherine - FORDHAM-SKELTON, Anthony - ROVIRA, Carme - DAVIS, Benjamin G. A front-face 'S(N)_i synthase' engineered from a retaining 'double-S(N)₂' hydrolase. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 8, pp. 874-+, Registrované v: WOS

9. [1.1] MENDOZA, Fernanda - GOMEZ, Hansel - LLUCH, Jose M. - MASGRAU, Laura. alpha 1,4-N-Acetylhexosaminyltransferase EXTL2: The Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of Configuration. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 4, pp. 2577-2589., Registrované v: WOS

10. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS

11. [1.1] SLADEK, Vladimir - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein Residue Networks from Energetic and Geometric Data: Are They Identical? In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 12, pp. 6623-6631., Registrované v: WOS

12. [1.1] YAN, Lijuan - LIU, Yongjun. The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYLT1): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>., Registrované v: WOS

ADCA162 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Theoretical study of enzymatic catalysis explains why the trapped covalent intermediate in the E303C mutant of glycosyltransferase GTB was not detected in the wild-type enzyme. In *Glycobiology*, 2015, vol. 25, p. 3-7. (2014: 3.147 - IF, Q2 - JCR, 1.538 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0959-6658. Dostupné na: <https://doi.org/10.1093/glycob/cwu085>

Ohlasy:

1. [1.1] ALBESA-JOVE, David - MENDOZA, Fernanda - RODRIGO-UNZUETA, Ane - GOMOLLON-BEL, Fernando - CIFUENTE, Javier O. - URRESTI, Saioa - COMINO, Natalia - GOMEZ, Hansel - ROMERO-GARCIA, Javier - LLUCH, Jose M. - SANCHEZ-VAELLO, Enea - BIARNES, Xevi - PLANAS, Antoni - MERINO, Pedro - MASGRAU, Laura - GUERIN, Marcelo E. A Native Ternary Complex Trapped in a Crystal Reveals the Catalytic Mechanism of a Retaining Glycosyltransferase. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2015, vol. 54, no. 34, pp. 9898-9902., Registrované v: WOS
2. [1.1] ALBESA-JOVE, David - ANGELA SAINZ-POLO, M. - MARINA, Alberto - GUERIN, Marcelo E. Structural Snapshots of alpha-1,3-Galactosyltransferase with Native Substrates: Insight into the Catalytic Mechanism of Retaining Glycosyltransferases. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2017, vol. 56, no. 47, pp. 14853-14857., Registrované v: WOS
3. [1.1] ALBESA-JOVE, David - CIFUENTE, Javier O. - TRASTOY, Beatriz - GUERIN, Marcelo E. Quick-soaking of crystals reveals unprecedented insights into the catalytic mechanism of glycosyltransferases. In CHEMICAL AND SYNTHETIC BIOLOGY APPROACHES TO UNDERSTAND CELLULAR FUNCTIONS PT A. ISSN 0076-6879, 2019, vol. 621, no., pp. 261-279., Registrované v: WOS
4. [1.1] ARDEVOL, Albert - IGLESIAS-FERNANDEZ, Javier - ROJAS-CERVELLERA, Victor - ROVIRA, Carme. The reaction mechanism of retaining glycosyltransferases. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 51-60., Registrované v: WOS
5. [1.1] ARDEVOL, Albert - ROVIRA, Carme. Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 24, pp. 7528-7547., Registrované v: WOS
6. [1.1] BLACKLER, Ryan J. - GAGNON, Susannah M. L. - POLAKOWSKI, Robert - ROSE, Natisha L. - ZHENG, Ruixiang B. - LETTS, James A. - JOHAL, Asha R. - SCHUMAN, Brock - BORISOVA, Svetlana N. - PALCIC, Monica M. - EVANS, Stephen V. Glycosyltransfer in mutants of putative catalytic residue Glu303 of the human ABO(H) A and B blood group glycosyltransferases GTA and GTB proceeds through a labile active site. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 4, pp. 370-380., Registrované v: WOS
7. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
8. [1.1] CIFUENTE, Javier O. - COMINO, Natalia - TRASTOY, Beatriz - D'ANGELO, Cecilia - GUERIN, Marcelo E. Structural basis of

- glycogen metabolism in bacteria. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2019, vol. 476, no., pp. 2059-2092., Registrované v: WOS
9. [1.1] GAGNON, Susannah M. L. - LEGG, Max S. G. - SINDHUWINATA, Nora - LETTS, James A. - JOHAL, Asha R. - SCHUMAN, Brock - BORISOVA, Svetlana N. - PALCIC, Monica M. - PETERS, Thomas - EVANS, Stephen V. High-resolution crystal structures and STD NMR mapping of human ABO(H) blood group glycosyltransferases in complex with trisaccharide reaction products suggest a molecular basis for product release. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 10, pp. 966-977., Registrované v: WOS
 10. [1.1] GOMEZ, Hansel - MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. QM/MM Studies Reveal How Substrate-Substrate and Enzyme-Substrate Interactions Modulate Retaining Glycosyltransferases Catalysis and Mechanism. In COMBINED QUANTUM MECHANICAL AND MOLECULAR MECHANICAL MODELLING OF BIOMOLECULAR INTERACTIONS. ISSN 1876-1623, 2015, vol. 100, no., pp. 225-254., Registrované v: WOS
 11. [1.1] GRIMM, Lena Lisbeth - WEISSBACH, Sophie - FLUEGGE, Friedemann - BEGEMANN, Nora - PALCIC, Monica M. - PETERS, Thomas. Protein NMR Studies of Substrate Binding to Human Blood Group A and B Glycosyltransferases. In CHEMBIOCHEM. ISSN 1439-4227, 2017, vol. 18, no. 13, pp. 1260-1269., Registrované v: WOS
 12. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG, Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms and applications in natural product development. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374., Registrované v: WOS
 13. [1.1] MENDOZA, Fernanda - GOMEZ, Hansel - LLUCH, Jose M. - MASGRAU, Laura. α 1,4-N-Acetylhexosaminyltransferase EXTL2: The Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of Configuration. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 4, pp. 2577-2589., Registrované v: WOS
 14. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS
 15. [1.1] PETERS, Thomas. NMR Analysis of Glycosyltransferases. In NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 2044-253X, 2017, vol. 10, no., pp. 179-193., Registrované v: WOS
 16. [1.1] WEISSBACH, Sophie - FLUEGGE, Friedemann - PETERS, Thomas. Substrate Binding Drives Active-Site Closing of Human Blood GroupB Galactosyltransferase as Revealed by Hot-Spot Labeling and NMR Spectroscopy Experiments. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 9, pp. 970-978., Registrované v: WOS
 17. [1.1] YAN, Lijuan - LIU, Yongjun. The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside α -1,3-Xylosyltransferase (XXYL1): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol.

60, no. 3, pp. 1585-1594. Dostupné na:
<https://doi.org/10.1021/acs.jcim.9b00976>., Registrované v: WOS

- ADCA163 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi α -mannosidase II. In *Journal of molecular Graphics and Modelling*, 2016, vol. 66, p. 47-57. (2015: 1.674 - IF, Q2 - JCR, 0.467 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1093-3263. Dostupné na:
<https://doi.org/10.1016/j.jmngm.2016.03.004>
Ohlasy:
1. [1.1] ESPOSITO, C. - WIEDMER, L. - CAFLISCH, A. In Silico Identification of JMJD3 Demethylase Inhibitors. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2018, vol. 58, no. 10, pp. 2151-2163., Registrované v: WOS
2. [1.1] KOTEV, Martin - SARRAT, Laurie - GONZALEZ, Constantino Diaz. User-Friendly Quantum Mechanics: Applications for Drug Discovery. In *QUANTUM MECHANICS IN DRUG DISCOVERY*. ISSN 1064-3745, 2020, vol. 2114, no., pp. 231-255. Dostupné na:
https://doi.org/10.1007/978-1-0716-0282-9_15., Registrované v: WOS
- ADCA164 BOHÁČOVÁ, Viera - DOČOLOMANSKÝ, Peter - BREIER, Albert - GEMEINER, Peter - ZIEGELHÖFFER, Attila. Interaction of lactate dehydrogenase with anthraquinone dyes: characterization of ligands for dye-ligand chromatography. In *Journal of Chromatography. B.Biomedical Applications*, 1998, vol. 715, issue 1, p. 273-281. (1997: 1.588 - IF, Current Contents - CCC). (1998 - Current Contents, MEDLINE). ISSN 0378-4347. Dostupné na:
[https://doi.org/10.1016/S0378-4347\(98\)00088-7](https://doi.org/10.1016/S0378-4347(98)00088-7)
Ohlasy:
1. [1.2] KANEKO, Satoru - TAKAMATSU, Kiyoshi. Single-cell omics in autoimmune disorders. In *Single-Cell Omics: Volume 2: Application in Biomedicine and Agriculture*, 2019-01-01, pp. 175-195., Registrované v: SCOPUS
- ADCA165 BOKOR, Boris - SOUKUP, Milan - VACULÍK, Marek - VĎAČNÝ, P. - WEIDINGER, Marieluise - LICHTSCHEIDL, Irene - VÁVROVÁ, Silvia - ŠOLTYS, Katarína - SONAH, Humira - DESHMUKH, Rupesh - BÉLANGER, Richard - WHITE, Philip J. - EL-SEREHY, Hamed A. - LUX, Alexander**. Silicon Uptake and Localisation in Date Palm (*Phoenix dactylifera*) – A Unique Association With Sclerenchyma. In *Frontiers in Plant Science*, 2019, vol. 10, art. no. 988. (2018: 4.106 - IF, Q1 - JCR, 1.687 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1664-462X. Dostupné na:
<https://doi.org/10.3389/fpls.2019.00988>
Ohlasy:
1. [1.1] GEORGE, N. - ANTONY, A. - RAMACHANDRAN, T. - HAMED, F. - KAMAL-ELDIN, A. Microscopic Investigationsof Silicification and Lignification Suggest Their Coexistence in Tracheary Phytoliths in Date Fruits (*Phoenix dactylifera*L.). In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, JUL 7 2020, vol. 11., Registrované v: WOS
2. [1.1] HODSON, M.J. - EVANS, D.E. Aluminium-silicon interactions in higher plants: an update. In *JOURNAL OF EXPERIMENTAL BOTANY*.

ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6719-6729., Registrované v: WOS

3. [1.1] ZANCAJO, V.M.R. - LINDTNER, T. - EISELE, M. - HUBER, A.J. - ELBAUM, R. - KNEIPP, J. FTIR Nanospectroscopy Shows Molecular Structures of Plant Biominerals and Cell Walls. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, OCT 20 2020, vol. 92, no. 20, p. 13694-13701., Registrované v: WOS

ADCA166 BORRISS, R. - ZEMEK, Juraj. β -1,3-1,4-Glucanase in spore-forming microorganisms. IV. Properties of some Bacillus- β -glucan-hydrolases. In *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene*. 2. Abteilung, 1981, vol. 136, p. 63-69.

Ohlasy:

1. [1.1] WEBSTER, Gina R. - TEH, Audrey Y.H. - MA, Julian K.C. Synthetic gene design The rationale for codon optimization and implications for molecular pharming in plants. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 3, pp. 492-502., Registrované v: WOS

ADCA167 BORRISS, R. - ZEMEK, Juraj - AUGUSTÍN, Juraj - KUNIAK, Ľudovít - PÁČOVÁ, Z. β -1,3-1,4- Glucanase in spore-forming microorganisms. II. Production of β -glucan-hydrolases by various Bacillus species. In *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene*. 2. Abteilung, 1980, vol. 135, p.435-442.

Ohlasy:

1. [1.1] GUAN, Li-zeng - CAI, Jin-shun - ZHAO, Shuai - SUN, Yu-ping - WANG, Jing-lan - JIANG, Yong - SHU, Gang - JIANG, Qing-yan - WU, Zhen-fang - XI, Qian-yun - ZHANG, Yong-liang. Improvement of anti-nutritional effect resulting from beta-glucanase specific expression in the parotid gland of transgenic pigs. In TRANSGENIC RESEARCH. ISSN 0962-8819, 2017, vol. 26, no. 1, pp. 1-11., Registrované v: WOS

ADCA168 BORTŇÁK, Dušan - MILATA, Viktor - ŠOFRANKO, Jakub - VÉGH, Daniel - FRONC, Marek - HERICH, Peter - KOŽÍŠEK, Jozef - DUJNÍČ, Viera - ŠORAL, Michal**. On the formation of uncommon pyrazoloazepines from 5-aminopyrazoles as by-products in the Clauson-Kaas reaction. In *Journal of Molecular Structure*, 2018, vol. 1166, p. 243-251. (2017: 2.011 - IF, Q3 - JCR, 0.409 - SJR, Q3 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2018.04.034>

Ohlasy:

1. [1.1] ROMO, Pablo E. - ISAZA, Jose H. - INSUASTY, Braulio - ABONIA, Rodrigo - PILAR DEL CRESPO, Maria - QUIROGA, Jairo. Synthesis of pyrazolo[3,4-b]azepines and their antioxidant and antibacterial studies. In MONATSHFTE FUR CHEMIE. ISSN 0026-9247, 2019, vol. 150, no. 8, pp. 1503-1511., Registrované v: WOS

ADCA169 BOTH, Peter - SOBCZAK, Lukas - BRETON, Christelle - HANN, Stephan - NOBAUER, Katharina - PASCHINGER, Katharina - KOZMON, Stanislav - MUCHA, Ján - WILSON, Iain B.H. Distantly related plant and nematode core alfa 1,3-fucosyltransferases display similar trends in structure-function relationships. In

Glycobiology, 2011, vol. 21, p. 1401-1415. (2010: 3.791 - IF, Q2 - JCR, 1.849 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0959-6658. Dostupné na: <https://doi.org/10.1093/glycob/cwr056>

Ohlasy:

1. [1.1] BIAN, Bian - KAGESHIMA, Sae - YANO, Kenji - FUJIWARA, Toru - KAMIYA, Takehiro. Screening Arabidopsis thaliana mutants for low sensitivity to manganese identifies novel alleles of NRAMP1 and PGSIP6. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 7, pp. 1795-1803., Registrované v: WOS
2. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp. 255-422., Registrované v: WOS
3. [1.1] KUMAR, Vikash - HAINAUT, Matthieu - DELHOMME, Nicolas - MANNAPPERUMA, Chanaka - IMMERZEEL, Peter - STREET, Nathaniel R. - HENRISSAT, Bernard - MELLEROWICZ, Ewa J. Poplar carbohydrate-active enzymes: whole-genome annotation and functional analyses based on RNA expression data. In PLANT JOURNAL. ISSN 0960-7412, 2019, vol. 99, no. 4, pp. 589-609., Registrované v: WOS
4. [1.1] OKADA, Takahiro - IHARA, Hideyuki - ITO, Ritsu - IKEDA, Yoshitaka. Molecular cloning and functional expression of Lewis type alpha 1,3/alpha 1,4-fucosyltransferase cDNAs from Mangifera indica L. In PHYTOCHEMISTRY. ISSN 0031-9422, 2017, vol. 144, no., pp. 98-105., Registrované v: WOS
5. [1.1] OKADA, Takahiro - IHARA, Hideyuki - IKEDA, Yoshitaka. Characterization of MiFUT11 from Mangifera indica L.: A functional core alpha 1, 3-fucosyltransferase potentially involved in the biosynthesis of immunogenic carbohydrates in mango fruit. In PHYTOCHEMISTRY. ISSN 0031-9422, 2019, vol. 165, no., pp., Registrované v: WOS
6. [1.1] SOTO, Maria J. - URBANOWICZ, Breeanna R. - HAHN, Michael G. Plant Fucosyltransferases and the Emerging Biological Importance of Fucosylated Plant Structures. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2019, vol. 38, no. 4, pp. 327-338., Registrované v: WOS
7. [1.1] VILLAVERDE, Ana Izabel Silva Balbin - HETHERINGTON, Louise - BAKER, Mark A. Quantitative Glycopeptide Changes in Rat Sperm During Epididymal Transit. In BIOLOGY OF REPRODUCTION. ISSN 0006-3363, 2016, vol. 94, no. 4, pp., Registrované v: WOS
8. [1.1] WANG, Peng - WANG, Hong - GAI, Jiangtao - TIAN, Xiaoli - ZHANG, Xiaoxiao - LV, Yongzhi - JIAN, Yi. Evolution of protein N-glycosylation process in Golgi apparatus which shapes diversity of protein N-glycan structures in plants, animals. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
9. [1.1] YAN, Shi - WANG, Huijie - SCHACHTER, Harry - JIN, Chunsheng - WILSON, Iain B. H. - PASCHINGER, Katharina. Ablation of N-acetylglucosaminyltransferases in Caenorhabditis induces expression of unusual intersected and bisected N-glycans. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2018, vol. 1862, no. 10, pp. 2191-2203., Registrované v: WOS
10. [1.1] ZHANG, Peiqing - BUREL, Carole - PLASSON, Carole -

KIEFER-MEYER, Marie-Christine - OVIDE, Clement - GUGI, Bruno - WAN, Corrine - TEO, Gavin - MAK, Amelia - SONG, Zhiwei - DRIOUICH, Azeddine - LEROUGE, Patrice - BARDOR, Muriel. Characterization of a GDP-Fucose Transporter and a Fucosyltransferase Involved in the Fucosylation of Glycoproteins in the Diatom *Phaeodactylum tricornutum*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS

11. [1.2] MIYOSHI, Eiji - UOZUMI, Naofumi - SOBAJIMA, Tomoaki - TAKAMATSU, Shinji - KAMADA, Yoshihiro. Roles of fucosyltransferases in cancer phenotypes. In *Glycosignals in Cancer: Mechanisms of Malignant Phenotypes*, 2016-01-01, pp. 3-16., Registrované v: SCOPUS

12. [3.2] Group Author(s). Uniprot Consortium. G5EDR5. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/G5EDR5>, Registrované v: Data Citation Index

13. [3.2] Group Author(s). Uniprot Consortium. Q9LJK1. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LJK1>, Registrované v: Data Citation Index

ADCA170 BOUTHERIN, B. - MAZEAU, K. - TVAROŠKA, Igor. Conformational statistics of pectin substances in solution by a metropolis Monte Carlo study. In *Carbohydrate Polymers*, 1997, vol. 32, p. 255. (1997 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] MONGKOLKITIKUL, Sirivipa - PARADEE, Nophawan - SIRIVAT, Anuvat. Electrically controlled release of ibuprofen from conductive poly(3-methoxydiphenylamine)/crosslinked pectin hydrogel. In *EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 0928-0987, 2018, vol. 112, no., pp. 20-27., Registrované v: WOS

2. [1.2] FRANK, Martin. Conformational analysis of oligosaccharides and polysaccharides using molecular dynamics simulations. In *Methods in Molecular Biology*. ISSN 10643745, 2015-01-01, 1273, pp. 359-377., Registrované v: SCOPUS

ADCA171 BRADBROOK, G.M. - GESSLER, K. - CÔTÉ, G.L. - MOMANY, F. - BIELY, Peter - BORDET, P. - PEREZ, S. - IMBERTY, A. X-ray structure determination and modeling of the cyclic tetrasaccharide cyclo-(6)-alfa-D-Glcp-(1-3)-alfa-D-Glcp-(1-3)-alfa-D-Glcp-(1-). In *Carbohydrate Research*, 2000, vol.329, p. 655-665. (1999: 1.252 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)00212-3](https://doi.org/10.1016/S0008-6215(00)00212-3)

Ohlasy:

1. [1.1] CALDERA, F. - ARGENZIANO, M. - TROTTA, F. - DIANZANI, C. - GIGLIOTTI, L. - TANNOUS, M. - PASTERO, L. - AQUILANO, D. - NISHIMOTO, T. - HIGASHIYAMA, T. - CAVALLI, R. Cyclic nigerosyl-1, 6-nigerose-based nanosponges: An innovative pH and time-controlled nanocarrier for improving cancer treatment. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 111-121., Registrované v: WOS

2. [1.1] FUJITA, Akihiro - KAWASHIMA, Akira - OTA, Hiromi - WATANABE, Hikaru - MORI, Tetsuya - NISHIMOTO, Tomoyuki - AGA,

Hajime - USHIO, Shimpei. A cyclic tetrasaccharide, cycloisomaltotetraose, was enzymatically produced from dextran and its crystal structure was determined. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108104.>, Registrované v: WOS

3. [1.1] FUKUHARA, Gaku - IIDA, Kazuhiro - KAWANAMI, Yuko - TANAKA, Hidekazu - MORI, Tadashi - INOUE, Yoshihisa. Excited-State Dynamics Achieved Ultimate Stereocontrol of Photocyclodimerization of Anthracenecarboxylates on a Glucose Scaffold. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 47, pp. 15007-15014., Registrované v: WOS

4. [1.1] KOHNO, Masaki - ARAKAWA, Takatoshi - OTA, Hiromi - MORI, Tetsuya - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. Structural features of a bacterial cyclic alpha-maltosyl-(1> 6)-maltose (CMM) hydrolase critical for CMM recognition and hydrolysis. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 43, pp. 16874-16888., Registrované v: WOS

5. [1.1] LIGHT, Samuel H. - CAHOON, Laty A. - MAHASANAN, Kiran V. - LEE, Mijoon - BOGGESE, Bill - HALAVATY, Andrei S. - MOBASHERY, Shahriar - FREITAG, Nancy E. - ANDERSON, Wayne F. Transferase Versus Hydrolase: The Role of Conformational Flexibility in Reaction Specificity. In STRUCTURE. ISSN 0969-2126, 2017, vol. 25, no. 2, pp. 295-304., Registrované v: WOS

6. [1.1] MATENCIO, Adrian - CALDERA, Fabrizio - CECONE, Claudio - MANUEL LOPEZ-NICOLAS, Jose - TROTTA, Francesco. Cyclic Oligosaccharides as Active Drugs, an Updated Review. In PHARMACEUTICALS, 2020, vol. 13, no. 10, pp. Dostupné na: <https://doi.org/10.3390/ph13100281.>, Registrované v: WOS

7. [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS

8. [1.1] TSUDA, Susumu - KOMATSU, Yuya - MINAMI, Yohei - UEDA, Ryoji - FUJIWARA, Shin-ichi - IWASAKI, Takanori - KUNIYASU, Hitoshi - KAMBE, Nobuaki. SYNTHESIS OF CYCLIC NIGEROSYLNIGEROSE (CNN) BIS-IMIDAZOLIUM SALTS. In HETEROCYCLES. ISSN 0385-5414, 2017, vol. 95, no. 2, pp. 1197-1203., Registrované v: WOS

ADCA172 BRAMBILLA, Davide - VERPILLOT, Romain - LE DROUMAGUET, Benjamin - NICOLAS, Julien - TAVERNA, Myriam - KÓŇA, Juraj - LETTIERO, Barbara - HASHEMI, Hossein - DE KIMPE, Line - CANOVI, Mara - GOBBI, Marco - NICOLAS, Valérie - SCHEPER, Wiep - MOGHIMI, Moein - TVAROŠKA, Igor - COUVREUR, Patrick - ANDRIEUX, Karine. PEGylated nanoparticles bind to and alter amyloid-beta peptide conformation: Toward engineering of functional nanomedicines for Alzheimer's disease. In ACS Nano, 2012, vol. 6, p. 5897-5908. (2011: 11.421 - IF, Q1 - JCR, 6.282 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1936-0851. Dostupné na: <https://doi.org/10.1021/nn300489k>

Ohlasy:

1. [1.1] AGRAWAL, Mukta - SARAF, Swarnlata - SARAF, Shailendra - ANTIMISIARIS, Sophia G. - CHOUGULE, Mahavir Bhupal - SHOYELE, Sunday A. - ALEXANDER, Amit. Nose-to-brain drug delivery: An update on clinical challenges and progress towards approval of anti-Alzheimer drugs. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2018, vol. 281, no., pp. 139-177., Registrované v: WOS
2. [1.1] AGRAWAL, Mukta - SARAF, Swarnlata - SARAF, Shailendra - ANTIMISIARIS, Sophia G. - HAMANO, Nobuhito - LI, Shyh-Dar - CHOUGULE, Mahavir - SHOYELE, Sunday A. - GUPTA, Umesh - AJAZUDDIN - ALEXANDER, Amit. Recent advancements in the field of nanotechnology for the delivery of anti-Alzheimer drug in the brain region. In EXPERT OPINION ON DRUG DELIVERY. ISSN 1742-5247, 2018, vol. 15, no. 6, pp. 589-617., Registrované v: WOS
3. [1.1] AHMAD, Israr - MOZHI, Anbu - YANG, Lin - HAN, Qiusen - LIANG, Xingjie - LI, Chan - YANG, Rong - WANG, Chen. Graphene oxide-iron oxide nanocomposite as an inhibitor of A beta 42 amyloid peptide aggregation. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2017, vol. 159, no., pp. 540-545., Registrované v: WOS
4. [1.1] ANAND, Bibin G. - SHEKHAWAT, Dolat S. - DUBEY, Kriti - KAR, Karunakar. Uniform, Polycrystalline, and Thermostable Piperine-Coated Gold Nanoparticles to Target Insulin Fibril Assembly. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2017, vol. 3, no. 6, pp. 1136-1145., Registrované v: WOS
5. [1.1] AYAZ, Muhammad - OVAIS, Muhammad - AHMAD, Irshad - SADIQ, Abdul - KHALIL, Ali Talha - ULLAH, Farhat. Biosynthesized metal nanoparticles as potential Alzheimer's disease therapeutics. In METAL NANOPARTICLES FOR DRUG DELIVERY AND DIAGNOSTIC APPLICATIONS, 2020, vol., no., pp. 31-42., Registrované v: WOS
6. [1.1] BARANOWSKA-WOJCIK, Ewa - SZWAJGIER, Dominik. Alzheimer's disease: review of current nanotechnological therapeutic strategies. In EXPERT REVIEW OF NEUROTHERAPEUTICS. ISSN 1473-7175, 2020, vol. 20, no. 3, pp. 271-279. Dostupné na: <https://doi.org/10.1080/14737175.2020.1719069>., Registrované v: WOS
7. [1.1] BAWEJA, Lokesh - BALAMURUGAN, Kanagasabai - SUBRAMANIAN, Venkatesan - DHAWAN, Alok. Effect of graphene oxide on the conformational transitions of amyloid beta peptide: A molecular dynamics simulation study. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2015, vol. 61, no., pp. 175-185., Registrované v: WOS
8. [1.1] BAYSAL, Ipek - UCAR, Gulberk - GULTEKINOGLU, Merve - ULUBAYRAM, Kezban - YABANOGLU-CIFTCI, Samiye. Donepezil loaded PLGA-b-PEG nanoparticles: their ability to induce destabilization of amyloid fibrils and to cross blood brain barrier in vitro. In JOURNAL OF NEURAL TRANSMISSION. ISSN 0300-9564, 2017, vol. 124, no. 1, pp. 33-45., Registrované v: WOS
9. [1.1] BELLUCCI, Luca - BUSSI, Giovanni - DI FELICE, Rosa - CORNI, Stefano. Fibrillation-prone conformations of the amyloid-beta-42 peptide at the gold/water interface. In NANOSCALE. ISSN 2040-3364, 2017, vol. 9, no. 6, pp. 2279-2290., Registrované v: WOS

10. [1.1] CAI, Jing - DAO, Pascal - CHEN, Huixiong - YAN, Longjia - LI, Yong Liang - ZHANG, Wanzheng - LI, Li - DU, Zhiyun - DONG, Chang-Zhi - MEUNIER, Bernard. Ultrasmall superparamagnetic iron oxide nanoparticles-bound NIR dyes: Novel theranostic agents for Alzheimer's disease. In DYES AND PIGMENTS. ISSN 0143-7208, 2020, vol. 173, no., pp. Dostupné na: <https://doi.org/10.1016/j.dyepig.2019.107968>., Registrované v: WOS
11. [1.1] DAI, Qiong - BERTLEFF-ZIESCHANG, Nadja - BRAUNGER, Julia A. - BJORNMALM, Mattias - CORTEZ-JUGO, Christina - CARUSO, Frank. Particle Targeting in Complex Biological Media. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2018, vol. 7, no. 1, pp., Registrované v: WOS
12. [1.1] DATTA, Lakshmi Priya - SAMANTA, Sourav - GOVINDARAJU, Thimmaiah. Polyampholyte-Based Synthetic Chaperone Modulate Amyloid Aggregation and Lithium Delivery. In ACS CHEMICAL NEUROSCIENCE. ISSN 1948-7193, 2020, vol. 11, no. 18, pp. 2812-2826. Dostupné na: <https://doi.org/10.1021/acscchemneuro.0c00369>., Registrované v: WOS
13. [1.1] DOGRA, Anmol - NARANG, R. S. - NARANG, Jasjeet K. Recent Advances in Nanotherapeutic Interventions for the Treatment of Alzheimer's Disease. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 19, pp. 2257-2279. Dostupné na: <https://doi.org/10.2174/1381612826666200422092620>., Registrované v: WOS
14. [1.1] DWIVEDI, Nitin - SHAH, Jigna - MISHRA, Vijay - TAMB UWALA, Murtaza - KESHARWANI, Prashant. Nanoneuromedicine for management of neurodegenerative disorder. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2019, vol. 49, no., pp. 477-490., Registrované v: WOS
15. [1.1] FERNANDA VELOZ-CASTILLO, Maria - WEST, Rachel M. - CORDERO-ARREOLA, Jessica - ARIAS-CARRION, Oscar - MENDEZ-ROJAS, Miguel A. Nanomaterials for Neurology: State-of-the-Art. In CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS. ISSN 1871-5273, 2016, vol. 15, no. 10, pp. 1306-1324., Registrované v: WOS
16. [1.1] FONG, Wye-Khay - MOORE, Thomas L. - BALOG, Sandor - VANHECKE, Dimitri - RODRIGUEZ-LORENZO, Laura - ROTHEN-RUTISHAUSER, Barbara - LATTUADA, Marco - PETRI-FINK, Alke. Nanoparticle Behaviour in Complex Media: Methods for Characterizing Physicochemical Properties, Evaluating Protein Corona Formation, and Implications for Biological Studies. In BIOLOGICAL RESPONSES TO NANOSCALE PARTICLES: MOLECULAR AND CELLULAR ASPECTS AND METHODOLOGICAL APPROACHES. ISSN 1434-4904, 2019, vol., no., pp. 101-150., Registrované v: WOS
17. [1.1] GAGLIARDI, Mariacristina - BORRI, Claudia. Polymer Nanoparticles as Smart Carriers for the Enhanced Release of Therapeutic Agents to the CNS. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 3, pp. 393-410., Registrované v: WOS
18. [1.1] GHOSH, Pooja - DE, Priyadarsi. Modulation of Amyloid Protein Fibrillation by Synthetic Polymers: Recent Advances in the Context of Neurodegenerative Diseases. In ACS APPLIED BIO MATERIALS. ISSN 2576-6422, 2020, vol. 3, no. 10, pp. 6598-6625. Dostupné na: <https://doi.org/10.1021/acsabm.0c01021>., Registrované v: WOS

19. [1.1] GIAU, Vo Van - AN, Seong Soo A. - HULME, John P. Mitochondrial therapeutic interventions in Alzheimer's disease. In JOURNAL OF THE NEUROLOGICAL SCIENCES. ISSN 0022-510X, 2018, vol. 395, no., pp. 62-70., Registrované v: WOS
20. [1.1] GLADY TZ, Anika - WAGNER, Maximilian - HAEUPL, Tilmann - ELSNER, Christian - ABEL, Bernd. Structure-Making Effects of Metal Nanoparticles in Amyloid Peptide Fibrillation. In PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION. ISSN 0934-0866, 2015, vol. 32, no. 5, pp. 573-582., Registrované v: WOS
21. [1.1] GREGORI, Maria - MASSERINI, Massimo - MANCINI, Simona. Nanomedicine for the treatment of Alzheimer's disease. In NANOMEDICINE. ISSN 1743-5889, 2015, vol. 10, no. 7, pp. 1203-1218., Registrované v: WOS
22. [1.1] HANE, Francis T. - LEE, Brenda Y. - LEONENKO, Zoya. Recent Progress in Alzheimer's Disease Research, Part 1: Pathology. In JOURNAL OF ALZHEIMERS DISEASE. ISSN 1387-2877, 2017, vol. 57, no. 1, pp. 1-28., Registrované v: WOS
23. [1.1] HAO, Xiaoxia - LI, Chunyan - ZHANG, Yejun - WANG, Haozhi - CHEN, Guangcun - WANG, Mao - WANG, Qiangbin. Programmable Chemotherapy and Immunotherapy against Breast Cancer Guided by Multiplexed Fluorescence Imaging in the Second Near-Infrared Window. In ADVANCED MATERIALS. ISSN 0935-9648, 2018, vol. 30, no. 51, pp., Registrované v: WOS
24. [1.1] HARILAL, Seetha - JOSE, Jobin - PARAMBI, Della Grace Thomas - KUMAR, Rajesh - MATHEW, Githa Elizabeth - UDDIN, Md. Sahab - KIM, Hoon - MATHEW, Bijo. Advancements in nanotherapeutics for Alzheimer's disease: current perspectives. In JOURNAL OF PHARMACY AND PHARMACOLOGY. ISSN 0022-3573, 2019, vol. 71, no. 9, pp. 1370-1383., Registrované v: WOS
25. [1.1] HETTIARACHCHI, Sajini D. - ZHOU, Yiqun - SEVEN, Elif - LAKSHMANA, Madepalli K. - KAUSHIK, Ajeet K. - CHAND, Hitendra S. - LEBLANC, Roger M. Nanoparticle-mediated approaches for Alzheimer's disease pathogenesis, diagnosis, and therapeutics. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2019, vol. 314, no., pp. 125-140., Registrované v: WOS
26. [1.1] CHEN, Ling - DU, Yang - ZHANG, Kai - LIANG, Zeyu - LI, Jinquan - YU, Hao - REN, Rong - FENG, Jin - JIN, Zhiming - LI, Fangyuan - SUN, Jihong - ZHOU, Min - HE, Qinggang - SUN, Xiaolian - ZHANG, Hong - TIAN, Mei - LING, Daishun. Tau-Targeted Multifunctional Nanocomposite for Combinational Therapy of Alzheimer's Disease. In ACS NANO. ISSN 1936-0851, 2018, vol. 12, no. 2, pp. 1321-1338., Registrované v: WOS
27. [1.1] CHEN, Pengyu - DING, Feng - CAI, Rong - JAVED, Ibrahim - YANG, Wen - ZHANG, Zhenzhen - LI, Yuhuan - DAVIS, Thomas P. - KE, Pu Chun - CHEN, Chunying. Amyloidosis inhibition, a new frontier of the protein corona. In NANO TODAY. ISSN 1748-0132, 2020, vol. 35, no., pp. Dostupné na: <https://doi.org/10.1016/j.nantod.2020.100937>., Registrované v: WOS
28. [1.1] CHOI, Yu Ri - KIM, Hyun-Jong - AHN, Guk Young - LEE, Min Jeong - PARK, Ju Ri - JUN, Dae-Ryong - RYU, Tae-Kyoung - PARK, Joo Woong - SHIN, Eunji - CHOI, Sung-Wook. Fabrication of dihydroxyflavone-conjugated hyaluronic acid nanogels for targeted antitumoral effect. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN

- 0927-7765, 2018, vol. 171, no., pp. 690-697., Registrované v: WOS
29. [1.1] IVASK, Angela - PILKINGTON, Emily H. - BLIN, Thomas - KAKINEN, Aleksandr - VIJA, Heiki - VISNAPUU, Meeri - QUINN, John F. - WHITTAKER, Michael R. - QIAO, Ruirui - DAVIS, Thomas P. - KE, Pu Chun - VOELCKER, Nicolas H. Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2018, vol. 6, no. 2, pp. 314-323., Registrované v: WOS
30. [1.1] JAHANBIN, Farnaz - BOZORGMEHR, Mohammad Reza - MORSALI, Ali - BEYRAMABADI, Safar Ali. The effect of Carbon nanotube on the most effective peptide in Alzheimer's disease in the presence of Dimethyl Sulfoxide: In Silico approach. In INTERNATIONAL JOURNAL OF NANO DIMENSION. ISSN 2008-8868, 2020, vol. 11, no. 1, pp. 50-57., Registrované v: WOS
31. [1.1] JANA, Asis K. - SENGUPTA, Neelanjana. A beta self-association and adsorption on a hydrophobic nanosurface: competitive effects and the detection of small oligomers via electrical response. In SOFT MATTER. ISSN 1744-683X, 2015, vol. 11, no. 2, pp. 269-279., Registrované v: WOS
32. [1.1] JHA, Anjali - GHORMADE, Vandana - KOLGE, Henry - PAKNIKAR, Kishore M. Dual effect of chitosan-based nanoparticles on the inhibition of beta-amyloid peptide aggregation and disintegration of the preformed fibrils. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 21, pp. 3362-3373., Registrované v: WOS
33. [1.1] JIN, Guang-Zhen - CHAKRABORTY, Atanu - LEE, Jung-Hwan - KNOWLES, Jonathan C. - KIM, Hae-Won. Targeting with nanoparticles for the therapeutic treatment of brain diseases. In JOURNAL OF TISSUE ENGINEERING. ISSN 2041-7314, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.1177/2041731419897460>., Registrované v: WOS
34. [1.1] KAUSHIK, Aman Chandra - KUMAR, Ajay - DWIVEDI, Vivek Dhar - BHARADWAJ, Shiv - KUMAR, Sanjay - BHARTI, Kritika - KUMAR, Pavan - CHAUDHARY, Ravi Kumar - MISHRA, Sarad Kumar. Deciphering the Biochemical Pathway and Pharmacokinetic Study of Amyloid beta eta-42 with Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Using Systems Biology Approach. In MOLECULAR NEUROBIOLOGY. ISSN 0893-7648, 2018, vol. 55, no. 4, pp. 3224-3236., Registrované v: WOS
35. [1.1] KELLER, Adrian - GRUNDMEIER, Guido. Amyloid aggregation at solid-liquid interfaces: Perspectives of studies using model surfaces. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 506, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2019.144991>., Registrované v: WOS
36. [1.1] KIM, Yuna - PARK, Ji-Hyun - LEE, Hyojin - NAM, Jwa-Min. How Do the Size, Charge and Shape of Nanoparticles Affect Amyloid beta Aggregation on Brain Lipid Bilayer? In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
37. [1.1] KRISHNA, Kowthavarapu Venkata - WADHWA, Geetika - ALEXANDER, Amit - KANOJIA, Neha - SAHA, Ranendra Narayan - KUKRETI, Ritushree - SINGHVI, Gautam - DUBEY, Sunil Kumar. Design and Biological Evaluation of Lipoprotein-Based Donepezil Nanocarrier for Enhanced Brain Uptake through Oral Delivery. In ACS CHEMICAL NEUROSCIENCE.

- ISSN 1948-7193, 2019, vol. 10, no. 9, pp. 4124-4135., Registrované v: WOS
38. [1.1] KRISHNA, Kowthavarapu Venkata - SAHA, Ranendra Narayan - DUBEY, Sunil Kumar. Biophysical, Biochemical, and Behavioral Implications of ApoE3 Conjugated Donepezil Nanomedicine in a A beta(1-42) Induced Alzheimer's Disease Rat Model. In ACS CHEMICAL NEUROSCIENCE. ISSN 1948-7193, 2020, vol. 11, no. 24, pp. 4139-4151. Dostupné na: <https://doi.org/10.1021/acscchemneuro.0c00430>., Registrované v: WOS
39. [1.1] KUMAR, Rajesh - GULATI, Monica - SINGH, Sachin Kumar - SHARMA, Deepika - PORWAL, Omji. Road From Nose to Brain for Treatment of Alzheimer: The Bumps and Humps. In CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS. ISSN 1871-5273, 2020, vol. 19, no. 9, pp. 663-675. Dostupné na: <https://doi.org/10.2174/1871527319666200708124726>., Registrované v: WOS
40. [1.1] KUO, Yung-Chih - RAJESH, Rajendiran. Challenges in the treatment of Alzheimer's disease: recent progress and treatment strategies of pharmaceuticals targeting notable pathological factors. In EXPERT REVIEW OF NEUROTHERAPEUTICS. ISSN 1473-7175, 2019, vol. 19, no. 7, pp. 623-652., Registrované v: WOS
41. [1.1] LIN, Sijie - MORTIMER, Monika - CHEN, Ran - KAKINEN, Aleksandr - RIVIERE, Jim E. - DAVIS, Thomas P. - DING, Feng - KE, Pu Chun. NanoEHS beyond toxicity focusing on biocorona. In ENVIRONMENTAL SCIENCE-NANO. ISSN 2051-8153, 2017, vol. 4, no. 7, pp. 1433-1454., Registrované v: WOS
42. [1.1] LI, Chao - LU, Jianyang - HU, Xiaolu - FENG, Chang - XIANG, Yang - KARAMANOS, Yannis - LI, Genxi. Assembly of Nanoconjugates as New Kind Inhibitor of the Aggregation of Amyloid Peptides Associated with Alzheimer's Disease. In PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION. ISSN 0934-0866, 2018, vol. 35, no. 3, pp., Registrované v: WOS
43. [1.1] LI, Meng - LIU, Zhenqi - REN, Jinsong - QU, Xiaogang. Molecular crowding effects on the biochemical properties of amyloid beta-heme, A beta-Cu and A beta-heme-Cu complexes. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 28, pp. 7479-7486. Dostupné na: <https://doi.org/10.1039/d0sc01020k>., Registrované v: WOS
44. [1.1] MACHADO-PEREIRA, Marta - SANTOS, Tiago - BERNARDINO, Liliana - FERREIRA, Raquel. Vascular inter-regulation of inflammation: molecular and cellular targets for CNS therapy. In JOURNAL OF NEUROCHEMISTRY. ISSN 0022-3042, 2017, vol. 140, no. 5, pp. 692-702., Registrované v: WOS
45. [1.1] MARTINS, P. A. T. - ALSAIARI, S. - JULFAKYAN, K. - NIE, Z. - KHASHAB, N. M. Self-assembled lipoprotein based gold nanoparticles for detection and photothermal disaggregation of beta-amyloid aggregates. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 13, pp. 2102-2105., Registrované v: WOS
46. [1.1] MA, Mengmeng - LIU, Zhenqi - GAO, Nan - PI, Zifeng - DU, Xiubo - REN, Jinsong - QU, Xiaogang. Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid-beta in an Alzheimer's Disease Model. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 52, pp. 21702-21711. Dostupné na: <https://doi.org/10.1021/jacs.0c08395>., Registrované v: WOS

47. [1.1] MIRSADEGHI, Somayeh - SHANEHSAZZADEH, Saeed - ATYABI, Fatemeh - DINARVAND, Rassoul. Effect of PEGylated superparamagnetic iron oxide nanoparticles (SPIONs) under magnetic field on amyloid beta fibrillation process. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2016, vol. 59, no., pp. 390-397., Registrované v: WOS
48. [1.1] NDAY, Christiane M. - ELEFThERIADOU, Despoina - JACKSON, Graham. Naringin nanoparticles against neurodegenerative processes: A preliminary work. In HELLENIC JOURNAL OF NUCLEAR MEDICINE. ISSN 1790-5427, 2019, vol. 22, no., pp. 32-41., Registrované v: WOS
49. [1.1] OSTERLUND, Nicklas - LUO, Jinghui - WARMLANDER, Sebastian K. T. S. - GRASLUND, Astrid. Membrane-mimetic systems for biophysical studies of the amyloid-beta peptide. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2019, vol. 1867, no. 5, pp. 492-501., Registrované v: WOS
50. [1.1] PARK, Sung Jean. Protein-Nanoparticle Interaction: Corona Formation and Conformational Changes in Proteins on Nanoparticles. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2020, vol. 15, no., pp. 5783-5802. Dostupné na: <https://doi.org/10.2147/IJN.S254808>., Registrované v: WOS
51. [1.1] PELAZ, Beatriz - DEL PINO, Pablo - MAFFRE, Pauline - HARTMANN, Raimo - GALLEGO, Marta - RIVERA-FERNANDEZ, Sara - DE LA FUENTE, Jesus M. - NIENHAUS, G. Ulrich - PARAK, Wolfgang J. Surface Functionalization of Nanoparticles with Polyethylene Glycol: Effects on Protein Adsorption and Cellular Uptake. In ACS NANO. ISSN 1936-0851, 2015, vol. 9, no. 7, pp. 6996-7008., Registrované v: WOS
52. [1.1] RABANEL, Jean-Michel - FAIVRE, Jimmy - PAKA, Ghislain Djiokeng - RAMASSAMY, Charles - HILDGEN, Patrice - BANQUY, Xavier. Effect of polymer architecture on curcumin encapsulation and release from PEGylated polymer nanoparticles: Toward a drug delivery nanoplatform to the CNS. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2015, vol. 96, no., pp. 409-420., Registrované v: WOS
53. [1.1] RAHMANIAN, Nazanin - ESKANDANI, Morteza - BARAR, Jaleh - OMIDI, Yadollah. Recent trends in targeted therapy of cancer using graphene oxide-modified multifunctional nanomedicines. In JOURNAL OF DRUG TARGETING. ISSN 1061-186X, 2017, vol. 25, no. 3, pp. 202-215., Registrované v: WOS
54. [1.1] RAJPOOT, Kuldeep. Nanotechnology-based Targeting of Neurodegenerative Disorders: A Promising Tool for Efficient Delivery of Neuromedicines. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2020, vol. 21, no. 8, pp. 819-836. Dostupné na: <https://doi.org/10.2174/1389450121666200106105633>., Registrované v: WOS
55. [1.1] RAMIREZ-GARCIA, Gonzalo - D'ORLYE, Fanny - GUTIERREZ-GRANADOS, Silvia - MARTINEZ-ALFARO, Minerva - MIGNET, Nathalie - RICHARD, Cyrille - VARENNE, Anne. Electrokinetic Hummel-Dreyer characterization of nanoparticle-plasma protein corona: The non-specific interactions between PEG-modified persistent luminescence nanoparticles and albumin. In COLLOIDS AND SURFACES

B-BIOINTERFACES. ISSN 0927-7765, 2017, vol. 159, no., pp. 437-444.,
Registrované v: WOS

56. [1.1] RAMIREZ-GARCIA, Gonzalo - TRAPIELLA-ALFONSO, Laura - D'ORLYE, Fanny - VARENNE, Anne. ELECTROPHORETIC METHODS FOR CHARACTERIZING NANOPARTICLES AND EVALUATING THEIR BIO- INTERACTIONS FOR THEIR FURTHER USE AS DIAGNOSTIC, IMAGING, OR THERAPEUTIC TOOLS. In CAPILLARY ELECTROMIGRATION SEPARATION METHODS, 2018, vol., no., pp. 397-421., Registrované v: WOS

57. [1.1] RUFF, J. - HASSAN, N. - MORALES-ZAVALA, F. - STEITZ, J. - ARAYA, E. - KOGAN, M. J. - SIMON, U. CLPFFD-PEG functionalized NIR-absorbing hollow gold nanospheres and gold nanorods inhibit beta-amyloid aggregation. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2018, vol. 6, no. 16, pp. 2432-2443., Registrované v: WOS

58. [1.1] RUFF, J. - HUEWEL, S. - KOGAN, Marcelo J. - SIMON, Ulrich - GALLA, Hans-Joachim. The effects of gold nanoparticles functionalized with beta-amyloid specific peptides on an in vitro model of blood-brain barrier. In NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE. ISSN 1549-9634, 2017, vol. 13, no. 5, pp. 1645-1652., Registrované v: WOS

59. [1.1] SHAO, Jiang-Yang - WU, Si-Hai - MA, Junjie - GONG, Zhong-Liang - SUN, Tian-Ge - JIN, Yulong - YANG, Rong - SUN, Bin - ZHONG, Yu-Wu. Ratiometric detection of amyloid-beta aggregation by a dual-emissive tris-heteroleptic ruthenium complex. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 14, pp. 2087-2090. Dostupné na: <https://doi.org/10.1039/c9cc08909h>., Registrované v: WOS

60. [1.1] SONG, Qingxiang - SONG, Huahua - XU, Jianrong - HUANG, Jialin - HU, Meng - GU, Xiao - CHEN, Juan - ZHENG, Gang - CHEN, Hongzhan - GAO, Xiaoling. Biomimetic ApoE-Reconstituted High Density Lipoprotein Nanocarrier for Blood-Brain Barrier Penetration and Amyloid Beta-Targeting Drug Delivery. In MOLECULAR PHARMACEUTICS. ISSN 1543-8384, 2016, vol. 13, no. 11, pp. 3976-3987., Registrované v: WOS

61. [1.1] SOUDI, Salma A. - NOUNOU, Mohamed - SHEWEITA, Salah A. - GHAREEB, Doaa A. - YOUNIS, Layla K. - EL-KHORDAGUI, Labiba K. Protective effect of surface-modified berberine nanoparticles against LPS-induced neurodegenerative changes: a preclinical study. In DRUG DELIVERY AND TRANSLATIONAL RESEARCH. ISSN 2190-393X, 2019, vol. 9, no. 5, pp. 906-919., Registrované v: WOS

62. [1.1] SOUSA, Diana - FERREIRA, Debora - RODRIGUES, Joana L. - RODRIGUES, Ligia R. Nanotechnology in Targeted Drug Delivery and Therapeutics. In APPLICATIONS OF TARGETED NANO DRUGS AND DELIVERY SYSTEMS: NANOSCIENCE AND NANOTECHNOLOGY IN DRUG DELIVERY, 2019, vol., no., pp. 357-409., Registrované v: WOS

63. [1.1] SUN, Leming - FAN, Zhen - YUE, Tao - YIN, Jun - FU, Jianzhong - ZHANG, Mingjun. Additive nanomanufacturing of lab-on-a-chip fluorescent peptide nanoparticle arrays for Alzheimer's disease diagnosis. In BIO-DESIGN AND MANUFACTURING. ISSN 2096-5524, 2018, vol. 1, no. 3, pp. 182-194., Registrované v: WOS

64. [1.1] TOSI, Giovanni - PEDERZOLI, Francesca - BELLETTI, Daniela - VANDELLI, Maria Angela - FORNI, Flavio - DUSKEY, Jason Thomas - RUOZI, Barbara. Nanomedicine in Alzheimer's disease: Amyloid beta

- targeting strategy. In NANONEUROPROTECTION AND NANONEUROTOXICOLOGY. ISSN 0079-6123, 2019, vol. 245, no., pp. 57-88., Registrované v: WOS
65. [1.1] TRAPIELLA-ALFONSO, Laura - RAMIREZ-GARCIA, Gonzalo - D'ORLYE, Fanny - VARENNE, Anne. Electromigration separation methodologies for the characterization of nanoparticles and the evaluation of their behaviour in biological systems. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2016, vol. 84, no., pp. 121-130., Registrované v: WOS
66. [1.1] TROMPETERO, Adriana - GORDILLO, Aldemar - CAROLINA DEL PILAR, Mora - MARIA CRISTINA, Velasquillo - BUSTOS CRUZ, Rosa Helena. Alzheimer's Disease and Parkinson's Disease: A Review of Current Treatment Adopting a Nanotechnology Approach. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2018, vol. 24, no. 1, pp. 22-45., Registrované v: WOS
67. [1.1] VAN DER MUNNIK, N. P. - MOSS, M. A. - ULIN, M. J. Obstacles to translating the promise of nanoparticles into viable amyloid disease therapeutics. In PHYSICAL BIOLOGY. ISSN 1478-3967, 2019, vol. 16, no. 2, pp., Registrované v: WOS
68. [1.1] VAN HERK, Alexander - FORCADA, Jacqueline - PASTORIN, Giorgia. Controlled Release Systems. In CONTROLLED RELEASE SYSTEMS: ADVANCES IN NANOBOTTLES AND ACTIVE NANOPARTICLES, 2016, vol., no., pp. XV+., Registrované v: WOS
69. [1.1] VAUTHIER, Christine. A journey through the emergence of nanomedicines with poly(alkylcyanoacrylate) based nanoparticles. In JOURNAL OF DRUG TARGETING. ISSN 1061-186X, 2019, vol. 27, no. 5-6, pp. 502-524., Registrované v: WOS
70. [1.1] VIMAL, Sunil Kumar - ZUO, Hua - WANG, Zhengwu - WANG, Hongrun - LONG, Zhiliang - BHATTACHARYA, Sanjib. Self-Therapeutic Nanoparticle That Alters Tau Protein and Ameliorates Tauopathy Toward a Functional Nanomedicine to Tackle Alzheimer's. In SMALL. ISSN 1613-6810, 2020, vol. 16, no. 16, pp. Dostupné na: <https://doi.org/10.1002/sml.201906861>., Registrované v: WOS
71. [1.1] WANG, Bo - BLIN, Thomas - KAKINEN, Aleksandr - GE, Xinwei - PILKINGTON, Emily H. - QUINN, John F. - WHITTAKER, Michael R. - DAVIS, Thomas P. - KE, Pu Chun - DING, Feng. Brushed polyethylene glycol and phosphorylcholine for grafting nanoparticles against protein binding. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 45, pp. 6875-6879., Registrované v: WOS
72. [1.1] WANG, Jing - XIE, Yadian - WANG, Liming - TANG, Jinglong - LI, Jiayang - KOCAEFE, Duygu - KOCAEFE, Yasar - ZHANG, Zhiwen - LI, Yaping - CHEN, Chunying. In vivo pharmacokinetic features and biodistribution of star and rod shaped gold nanoparticles by multispectral optoacoustic tomography. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 10, pp. 7529-7538., Registrované v: WOS
73. [1.1] WANG, Miaoyi - SIDDIQUI, Ghizal - GUSTAFSSON, Ove J. R. - KAKINEN, Aleksandr - JAVED, Ibrahim - VOELCKER, Nicolas H. - CREEK, Darren J. - KE, Pu Chun - DAVIS, Thomas P. Plasma Proteome Association and Catalytic Activity of Stealth Polymer-Grafted Iron Oxide Nanoparticles. In SMALL. ISSN 1613-6810, 2017, vol. 13, no. 36, pp.,

Registrované v: WOS

74. [1.1] WEI, Gang - SU, Zhiqiang - REYNOLDS, Nicholas P. - AROSIO, Paolo - HAMLEY, Ian W. - GAZIT, Ehud - MEZZENGA, Raffaele. Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2017, vol. 46, no. 15, pp. 4661-4708., Registrované v: WOS
75. [1.1] WILDER, Logan M. - HANDALI, Paul R. - WEBB, Lauren J. - CROOKS, Richard M. Interactions between Oligoethylene Glycol-Capped AuNPs and Attached Peptides Control Peptide Structure. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2020, vol. 31, no. 10, pp. 2383-2391. Dostupné na: <https://doi.org/10.1021/acs.bioconjchem.0c00447>., Registrované v: WOS
76. [1.1] WILSON, Cornelia M. - MAGNAUDEIX, Amandine - NAVES, Thomas - VINCENT, Francois - LALLOUE, Fabrice - JAUBERTEAU, Marie-Odile. The Ins and Outs of Nanoparticle Technology in Neurodegenerative Diseases and Cancer. In CURRENT DRUG METABOLISM. ISSN 1389-2002, 2015, vol. 16, no. 8, pp. 609-632., Registrované v: WOS
77. [1.1] XIONG, Neng - DONG, Xiao-Yan - ZHENG, Jie - LIU, Fu-Feng - SUN, Yan. Design of LVFFARK and LVFFARK-Functionalized Nanoparticles for Inhibiting Amyloid beta-Protein Fibrillation and Cytotoxicity. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 10, pp. 5650-5662., Registrované v: WOS
78. [1.1] YANG, Huiru - LI, Xinyu - ZHU, Lin - WU, Xiaohui - ZHANG, Shaozhi - HUANG, Fan - FENG, Xizeng - SHI, Linqi. Heat Shock Protein Inspired Nanochaperones Restore Amyloid-beta Homeostasis for Preventative Therapy of Alzheimer's Disease. In ADVANCED SCIENCE, 2019, vol. 6, no. 22, pp., Registrované v: WOS
79. [1.1] YIN, Tiantian - XIE, Wenjie - SUN, Jing - YANG, Licong - LIU, Jie. Penetratin Peptide-Functionalized Gold Nanostars: Enhanced BBB Permeability and NIR Photothermal Treatment of Alzheimer's Disease Using Ultralow Irradiance. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 30, pp. 19291-19302., Registrované v: WOS
80. [1.1] ZHANG, Weiyuan - WANG, Wenyue - YU, David X. - XIAO, Zhicheng - HE, Zhiyong. Application of nanodiagnostics and nanotherapy to CNS diseases. In NANOMEDICINE. ISSN 1743-5889, 2018, vol. 13, no. 18, pp., Registrované v: WOS
81. [1.1] ZHANG, Wenjie - CHRISTOFFERSON, Andrew J. - BESFORD, Quinn A. - RICHARDSON, Joseph J. - GUO, Junling - JU, Yi - KEMPE, Kristian - YAROVSKY, Irene - CARUSO, Frank. Metal-dependent inhibition of amyloid fibril formation: synergistic effects of cobalt-tannic acid networks. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 4, pp. 1921-1928., Registrované v: WOS
82. [1.1] ZHANG, Yuqing - XU, Bo - YAO, Mengmeng - DONG, Tianyu - MAO, Zhilei - HANG, Bo - HAN, Xiumei - LIN, Zhongning - BIAN, Qian - LI, Min - XIA, Yankai. Titanium dioxide nanoparticles induce proteostasis disruption and autophagy in human trophoblast cells. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2018, vol. 296, no., pp. 124-133., Registrované v: WOS
83. [1.1] ZHAO, Jinhua - YIN, Fucheng - JI, Limei - WANG, Cheng - SHI, Cunjian - LIU, Xingchen - YANG, Huali - WANG, Xiaobing - KONG, Lingyi. Development of a Tau-Targeted Drug Delivery System Using a

- Multifunctional Nanoscale Metal-Organic Framework for Alzheimer's Disease Therapy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 40, pp. 44447-44458. Dostupné na: <https://doi.org/10.1021/acsami.0c11064>., Registrované v: WOS
84. [1.1] ZHAO, Yu - CAI, Jinquan - LIU, Zichen - LI, Yansheng - ZHENG, Chunxiong - ZHENG, Yadan - CHEN, Qun - CHEN, Hongyun - MA, Feihe - AN, Yingli - XIAO, Lehui - JIANG, Chuanlu - SHI, Linqi - KANG, Chunsheng - LIU, Yang. Nanocomposites Inhibit the Formation, Mitigate the Neurotoxicity, and Facilitate the Removal of beta-Amyloid Aggregates in Alzheimer's Disease Mice. In NANO LETTERS. ISSN 1530-6984, 2019, vol. 19, no. 2, pp. 674-683., Registrované v: WOS
85. [1.1] ZHU, Huang - DENG, Jiuhong - YANG, Zhaopu - DENG, Yi - YANG, Weizhong - SHI, Xiao-Lei - CHEN, Zhi-Gang. Facile synthesis and characterization of multifunctional cobalt-based nanocomposites for targeted chemo-photothermal synergistic cancer therapy. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, 2019, vol. 178, no., pp., Registrované v: WOS
86. [1.2] ÇETIN, Meltem - AYTEKIN, Eren - YAVUZ, Burçin - BOZDA-PEHLIVAN, Sibel. Nanoscience in Targeted Brain Drug Delivery. In Nanotechnology Methods for Neurological Diseases and Brain Tumors: Drug Delivery across the Blood-Brain Barrier, 2017-07-17, pp. 117-147., Registrované v: SCOPUS
87. [1.2] FAZILI, Naveed Ahmad - NAEEM, Aabgeena - ASHRAF, Ghulam Md - GAN, Siew Hua - KAMAL, Mohammad A. Therapeutic interventions for the suppression of Alzheimer's disease: Quest for a remedy. In Current Drug Metabolism. ISSN 13892002, 2015-06-01, 16, 5, pp. 346-353., Registrované v: SCOPUS
88. [1.2] ORDÓÑEZ-GUTIÉRREZ, Lara - POSADO-FERNÁNDEZ, Adrián - AHMADVAND, Davoud - LETTIERO, Barbara - WU, Linping - ANTÓN, Marta - FLORES, Orfeu - MOGHIMI, Seyed Moein - WANDOSELL, Francisco. ImmunoPEGliposome-mediated reduction of blood and brain amyloid levels in a mouse model of Alzheimer's disease is restricted to aged animals. In Biomaterials. ISSN 01429612, 2017-01-01, 112, pp. 141-152., Registrované v: SCOPUS

ADCA173 BREIEROVÁ, Emília - VAJCZIKOVÁ, I. - SASINKOVÁ, Vlasta - STRATILOVÁ, Eva - FIŠERA, M. - GREGOR, T. - ŠAJBIDOR, J. Biosorption of cadmium ions by different yeast species. In *Zeitschrift für Naturforschung C*, 2002, vol. 57, p. 634-639.

Ohlasy:

1. [1.1] AL-GHEETHI, Adel A. S. - LALUNG, Japareng - NOMAN, Efaq Ali - BALA, J. D. - NORLI, Ismail. Removal of heavy metals and antibiotics from treated sewage effluent by bacteria. In CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY. ISSN 1618-954X, 2015, vol. 17, no. 8, pp. 2101-2123., Registrované v: WOS
2. [1.1] CAO, Feishu - BOURVEN, Isabelle - GUIBAUD, Gilles - RENE, Eldon R. - LENS, Piet N. L. - PECHAUD, Yoan - VAN HULLEBUSCH, Eric D. Alteration of the characteristics of extracellular polymeric substances (EPS) extracted from the fungus *Phanerochaete chrysosporium* when exposed to sub-toxic concentrations of nickel (II). In INTERNATIONAL

- BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2018, vol. 129, no., pp. 179-188., Registrované v: WOS
3. [1.1] CELIK, Fatih - CAMAS, Mustafa - CAMAS, Anil Sazak - OZALP, Hasan Baris. Uranium (VI) Biosorption on Marine Sponge, *Sarcotragus foetidus* (Schmidt, 1862) and Its Statistical Investigation Using Central Composite Design. In *TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES*. ISSN 1303-2712, 2016, vol. 16, no. 4, pp. 899-911., Registrované v: WOS
4. [1.1] CONCORDIO-REIS, Patricia - FREITAS, Filomena. Environmental Applications: Biopolymer Sorbents for Heavy Metal Removal. In *ENCYCLOPEDIA OF POLYMER APPLICATIONS, VOLS I-III*, 2019, vol., no., pp. 1066-1086., Registrované v: WOS
5. [1.1] JHA, Anal K. - PRASAD, Kamal. Understanding Mechanism of Fungus Mediated Nanosynthesis: A Molecular Approach. In *ADVANCES AND APPLICATIONS THROUGH FUNGAL NANOBIO TECHNOLOGY*. ISSN 2198-7777, 2016, vol., no., pp. 1-23., Registrované v: WOS
6. [1.1] KHAN, Zaman - REHMAN, Abdul - HUSSAIN, Syed Z. Resistance and uptake of cadmium by yeast, *Pichia hampshirensis* 4Aer, isolated from industrial effluent and its potential use in decontamination of wastewater. In *CHEMOSPHERE*. ISSN 0045-6535, 2016, vol. 159, no., pp. 32-43., Registrované v: WOS
7. [1.1] KORBKANDI, Hassan - MOHSENI, Soudabeh - JOUNEGHANI, Rasoul Mardani - POURHOSSEIN, Meraj - IRAVANI, Siavash. Biosynthesis of silver nanoparticles using *Saccharomyces cerevisiae*. In *ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY*. ISSN 2169-1401, 2016, vol. 44, no. 1, pp. 235-239., Registrované v: WOS
8. [1.1] KORENKOVA, Lucia - URIK, Martin. Biosorbents. In *BIOMATERIALS AS ADSORBENTS FOR METAL(LOID) WATER POLLUTANTS A REVIEW*, 2017, vol., no., pp. 12-36., Registrované v: WOS
9. [1.1] MASSOUD, Ramona - HADIANI, Mohammad Rasoul - HAMZEHLU, Pegah - KHOSRAVI-DARANI, Kianoush. Bioremediation of heavy metals in food industry: Application of *Saccharomyces cerevisiae*. In *ELECTRONIC JOURNAL OF BIOTECHNOLOGY*. ISSN 0717-3458, 2019, vol. 37, no., pp. 56-60., Registrované v: WOS
10. [1.1] MILANI, Jafar - HEIDARI, Sara. Stability of Ochratoxin a During Bread Making Process. In *JOURNAL OF FOOD SAFETY*. ISSN 0149-6085, 2017, vol. 37, no. 1, pp., Registrované v: WOS
11. [1.1] OSINSKA-JAROSZUK, Monika - JAROSZ-WILKOLAZKA, Anna - JAROSZUK-SCISEL, Jolanta - SZALAPATA, Katarzyna - NOWAK, Artur - JASZEK, Magdalena - OZIMEK, Ewa - MAJEWSKA, Malgorzata. Extracellular polysaccharides from Ascomycota and Basidiomycota: production conditions, biochemical characteristics, and biological properties. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2015, vol. 31, no. 12, pp. 1823-1844., Registrované v: WOS
12. [1.1] OZDEMIR, Sadin - ODUNCU, M. Kadir - KILINC, Ersin - SOYLAK, Mustafa. Tolerance and bioaccumulation of U(VI) by *Bacillus mojavensis* and its solid phase preconcentration by *Bacillus mojavensis* immobilized multiwalled carbon nanotube. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2017, vol. 187, no., pp. 490-496., Registrované v: WOS

13. [1.1] PRASAD, Ram - PANDEY, Rishikesh - BARMAN, Ishan. Engineering tailored nanoparticles with microbes: quo vadis? In WILEY INTERDISCIPLINARY REVIEWS-NANOMEDICINE AND NANOBIO TECHNOLOGY. ISSN 1939-5116, 2016, vol. 8, no. 2, pp. 316-330., Registrované v: WOS
14. [1.1] RANA, Anu - YADAV, Krishna - JAGADEVAN, Sheeja. A comprehensive review on green synthesis of nature-inspired metal nanoparticles: Mechanism, application and toxicity. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 272, no., pp. Dostupné na: <https://doi.org/10.1016/j.jclepro.2020.122880>., Registrované v: WOS
15. [1.1] RAZAVI, Seyed Amin - POURJAFAR, Mehrdad - HAJIMOHAMMADI, Ali - VALIZADEH, Reza - NASERIAN, Abbas Ali - LAVEN, Richard - MUELLER, Kristina Ruth. Effects of dietary supplementation of bentonite and *Saccharomyces cerevisiae* cell wall on acute-phase protein and liver function in high-producing dairy cows during transition period. In TROPICAL ANIMAL HEALTH AND PRODUCTION. ISSN 0049-4747, 2019, vol. 51, no. 5, pp. 1225-1237., Registrované v: WOS
16. [1.1] SLABA, Mirosława - HRYNKIEWICZ, Katarzyna - GADD, Geoffrey M. Heavy Metal Removal by Microbial Cells. In MICROBIAL BIODEGRADATION: FROM OMICS TO FUNCTION AND APPLICATION, 2016, vol., no., pp. 197-218., Registrované v: WOS
17. [1.1] VADKERTIOVA, Renata - MOLNAROVA, Jana - LUX, Alexander - VACULIK, Marek - LISKOVA, Desana. Yeasts associated with an abandoned mining area in Pernek and their tolerance to different chemical elements. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2016, vol. 61, no. 3, pp. 199-207., Registrované v: WOS
18. [1.1] XAVIER, N. D. Don - NANDAN, S. Bijoy - JAYACHANDRAN, P. R. - ANU, P. R. - MIDHUN, A. M. - MOHAN, D. Chronic effects of copper and zinc on the fish, *Etroplus suratensis* (Bloch, 1790) by continuous flow through (CFT) bioassay. In MARINE ENVIRONMENTAL RESEARCH. ISSN 0141-1136, 2019, vol. 143, no., pp. 141-157., Registrované v: WOS
19. [1.2] EL ENSHASY, Hesham A. - EL MARZUGI, Nagib A. - ELSAYED, Elsayed A. - LING, Ong Mei - MALEK, Roslinda Abd - KEPLI, Afif Najiha - OTHMAN, Nor Zalina - RAMLI, Solleh. Medical and cosmetic applications of fungal nanotechnology: Production, characterization, and bioactivity. In Fungal Nanobionics: Principles and Applications, 2018-07-27, pp. 21-59., Registrované v: SCOPUS
20. [1.2] CHAUDHARY, Deepika - KUMAR, Rakesh - KUMARI, Anju - RASHMI - JANGRA, Raman. Biosynthesis of nanoparticles by microorganisms and their significance in sustainable agriculture. In Probiotics in Agroecosystem, 2017-09-26, pp. 93-115., Registrované v: SCOPUS
21. [1.2] VENKAT KUMAR, S. - SOWMYA, B. - GEETHA, R. - KARPAGAMBIGAI, S. - JACQUINE ROSY, P. - RAJESH KUMAR, S. - LAKSHMI, T. Preparation of yeast mediated semiconductor nanoparticles by *Candida albicans* and its bactericidal potential against *Salmonella typhi* and *Staphylococcus aureus*. In International Journal of Research in Pharmaceutical Sciences, 2019-04-29, 10, 2, pp. 861-864., Registrované v: SCOPUS

ADCA174 BREIEROVÁ, Emília** - KOCKOVÁ-KRATOCHVÍLOVÁ, Anna.

Cryoprotective effects of yeast extracellular polysaccharides and glycoproteins. In *Cryobiology*, 1992, vol. 29, p. 385-390. ISSN 0011-2240. Dostupné na: [https://doi.org/10.1016/0011-2240\(92\)90039-5](https://doi.org/10.1016/0011-2240(92)90039-5)

Ohlasy:

1. [1.1] NAVARTA, Leonardo G. - CALVO, Juan - POSETTO, Paola - BENUZZI, Delia - SANZ, Maria. Freeze-drying of a mixture of bacterium and yeast for application in postharvest control of pathogenic fungi. In *SN APPLIED SCIENCES*. ISSN 2523-3963, 2020, vol. 2, no. 7, pp. Dostupné na: <https://doi.org/10.1007/s42452-020-3049-9>., Registrované v: WOS

ADCA175 BREIEROVÁ, Emília - HROMÁDKOVÁ, Zdenka - STRATILOVÁ, Eva - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna. Effect of salt stress on the

production and properties of extracellular polysaccharides produced by *Cryptococcus laurentii*. In *Zeitschrift für Naturforschung C*, 2005, vol. 60c, p. 444-450. ISSN 0939-5075. Dostupné na: <https://doi.org/10.1515/znc-2005-5-613>

Ohlasy:

1. [1.1] BATOOL, Rida - YRJAELAE, Kim - SHAUKAT, Kamran - JAMIL, Nazia - HASNAIN, Shahida. Production of EPS under Cr(VI) challenge in two indigenous bacteria isolated from a tannery effluent. In *JOURNAL OF BASIC MICROBIOLOGY*. ISSN 0233-111X, 2015, vol. 55, no. 9, pp. 1064-1074., Registrované v: WOS

2. [1.1] GIENKA, Iwona - BLAZEJAK, Stanislaw - STASIAK-ROZANSKA, Lidia - CHLEBOWSKA-SMIGIEL, Anna. EXOPOLYSACCHARIDES FROM YEAST: INSIGHT INTO OPTIMAL CONDITIONS FOR BIOSYNTHESIS, CHEMICAL COMPOSITION AND FUNCTIONAL PROPERTIES REVIEW. In *ACTA SCIENTIARUM POLONORUM-TECHNOLOGIA ALIMENTARIA*. ISSN 1644-0730, 2015, vol. 14, no. 4, pp. 283-292., Registrované v: WOS

3. [1.1] ISFAHANI, F. Moshabaki - TAHMOURESPOUR, A. - HOODAJI, M. - ATAABADI, M. - MOHAMMADI, A. Characterizing the new bacterial isolates of high yielding exopolysaccharides under hypersaline conditions. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2018, vol. 185, no., pp. 922-928., Registrované v: WOS

4. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS

5. [1.1] MOHITE, Bhavana V. - KOLI, Sunil H. - PATIL, Satish V. Heavy Metal Stress and Its Consequences on Exopolysaccharide (EPS)-Producing *Pantoea agglomerans*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 186, no. 1, pp. 199-216., Registrované v: WOS

6. [1.1] SEVEIRI, Rasool Mirzaei - HAMIDI, Masoud - DELATTRE, Cedric - SEDIGHIAN, Hamid - PIERRE, Guillaume - RAHMANI, Babak - DARZI, Sina - BRASSELET, Clement - KARIMITABAR, Fatemeh - RAZAGHPOOR, Ali - AMANI, Jafar. Characterization and Prospective Applications of the Exopolysaccharides Produced by *Rhodospiridium babjevae*.

In ADVANCED PHARMACEUTICAL BULLETIN. ISSN 2228-5881, 2020, vol. 10, no. 2, pp. 254-263. Dostupné na: <https://doi.org/10.34172/apb.2020.030.>, Registrované v: WOS

7. [1.1] XU, Dandan - WANG, Peng - ZHANG, Xin - ZHANG, Jian - SUN, Yong - GAO, Lihua - WANG, Wenping. High-throughput sequencing approach to characterize dynamic changes of the fungal and bacterial communities during the production of sufu, a traditional Chinese fermented soybean food. In FOOD MICROBIOLOGY. ISSN 0740-0020, 2020, vol. 86, no., pp. Dostupné na: <https://doi.org/10.1016/j.fm.2019.103340.>, Registrované v: WOS

ADCA176 BREIEROVÁ, Emília - GREGOR, T. - MAROVÁ, I. - ČERTÍK, M. - KOGAN, Grigori. Enhanced antioxidant formula based on a selenium-supplemented carotenoid-producing yeast biomass. In *Chemistry & biodiversity*, 2008, vol.5, p. 440-446. (2007: 1.420 - IF, Q2 - JCR, 0.689 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200890043>

Ohlasy:

1. [1.1] DUBEY, Manish Kumar - MEENA, Mukesh - AAMIR, Mohd. - ZEHRÁ, Andleeb - UPADHYAY, Ram Sanmukh. Regulation and Role of Metal Ions in Secondary Metabolite Production by Microorganisms. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: MICROBIAL SECONDARY METABOLITES BIOCHEMISTRY AND APPLICATIONS, 2018, vol., no., pp. 259-277., Registrované v: WOS

2. [1.1] MIHALCEA, Alina - ONU, Adrian - CHIRVASE, Ana Aurelia - UNGUREANU, Camelia. The Application of Single Use Bioreactors for the Production of a Carotenoids Mix, Mainly Torularhodin. In REVISTA DE CHIMIE. ISSN 0034-7752, 2019, vol. 70, no. 1, pp. 124-127., Registrované v: WOS

3. [1.1] PIZZOLANTE, Graziano - DURANTE, Miriana - RIZZO, Daniela - DI SALVO, Marco - TREDICI, Salvatore Maurizio - TUFARIELLO, Maria - DE PAOLIS, Angelo - TALA, Adelfia - MITA, Giovanni - ALIFANO, Pietro - DE BENEDETTO, Giuseppe Egidio. Characterization of two Pantoea strains isolated from extra-virgin olive oil. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS

4. [1.1] VARMIRA, Kambiz - HABIBI, Alireza - MORADI, Samaneh - BAHRAMIAN, Elham. Statistical optimization of airlift photobioreactor for high concentration production of torularhodin pigment. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 8, no., pp. 197-203., Registrované v: WOS

5. [1.1] WANG, Qiang - LIU, Dong - YANG, Qingxiang - WANG, Panliang. Enhancing carotenoid production in Rhodotorula mucilaginosa KC8 by combining mutation and metabolic engineering. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2017, vol. 67, no. 6, pp. 425-431., Registrované v: WOS

6. [1.1] ZOZ, Liliana - CARVALHO, Julio Cesar - SOCCOL, Vanete Thomaz - CASAGRANDE, Thais Costa - CARDOSO, Ligia. Torularhodin and Torulene: Bioproduction, Properties and Prospective Applications in Food and Cosmetics a Review. In BRAZILIAN ARCHIVES OF BIOLOGY AND

TECHNOLOGY. ISSN 1516-8913, 2015, vol. 58, no. 2, pp. 278-288.,

Registrované v: WOS

7. [1.2] VADKERTIOVÁ, Renáta - DUDÁŠOVÁ, Hana - BALÁŠČÁKOVÁ, Marta. Yeasts in agricultural and managed soils. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 117-144., Registrované v: SCOPUS

ADCA177 BREIEROVÁ, Emília - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ŠAJBIDOR, J. - LADZIANSKA, K. *Malassezia pachydermatis* properties and storage. In *Mycoses*, 1991, vol. 34, p. 252. Dostupné na: <https://doi.org/10.1111/j.1439-0507.1991.tb00675.x>

Ohlasy:

1. [1.1] SILVA SERGENT, F. A. - ACOSTA-HERNANDEZ, B. - RADUAN JABER, J. - ROSARIO MEDINA, I. - FERRER QUINTANA, O. - REAL VALCARCEL, F. - PADILLA CASTILLO, D. - DENIZ SUAREZ, S. Preservation of *Malassezia pachydermatis* using skimmed milk as cryoprotective agent. In *JOURNAL OF MICROBIOLOGICAL METHODS*. ISSN 0167-7012, 2017, vol. 132, no., pp. 166-167., Registrované v: WOS

ADCA178 BREIEROVÁ, Emília - STRATILOVÁ, Eva - ŠAJBIDOR, J. Salinity affects fatty acid and extracellular glycoprotein composition of *Dipodascus australiensis*. In *Food Technology and Biotechnology*, 1997, vol. 35, p. 237-241. ISSN 1330-9862.

Ohlasy:

1. [1.1] CORTES-LORENZO, C. - GONZALEZ-MARTINEZ, A. - SMIDT, H. - GONZALEZ-LOPEZ, J. - RODELAS, B. Influence of salinity on fungal communities in a submerged fixed bed bioreactor for wastewater treatment. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2016, vol. 285, no., pp. 562-572., Registrované v: WOS

ADCA179 BREIEROVÁ, Emília - GREGOR, T. - JURŠÍKOVÁ, P. - STRATILOVÁ, Eva - FIŠERA, M. The role of pullulan and pectin in the uptake of Cd²⁺ and Ni²⁺ ions by *Aureobasidium pullulans*. In *Annals of Microbiology*, 2004, vol. 54, p. 247-255. ISSN 1590-4261.

Ohlasy:

1. [1.1] VARMIRA, Kambiz - HABIBI, Alireza - MORADI, Samaneh - BAHRAMIAN, Elham. Statistical optimization of airlift photobioreactor for high concentration production of torularhodin pigment. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2016, vol. 8, no., pp. 197-203., Registrované v: WOS

ADCA180 BREIEROVÁ, Emília. Yeast exoglycoproteins produced under NaCl-stress conditions as efficient cryoprotective agents. In *Letters in Applied Microbiology*, 1997, vol. 25, pp. 254-256. (1996: 0.948 - IF, Current Contents - CCC). (1997 - Current Contents). ISSN 0266-8254. Dostupné na: <https://doi.org/10.1251/bpo1>

Ohlasy:

1. [1.1] SITEPU, Irnayuli - ENRIQUEZ, Lauren - NGUYEN, Valerie - FRY, Russell - SIMMONS, Blake - SINGER, Steve - SIMMONS, Christopher - BOUNDY-MILLS, Kyria L. Ionic Liquid Tolerance of Yeasts in Family *Dipodascaceae* and Genus *Wickerhamomyces*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 191, no. 4, pp.

1580-1593. Dostupné na: <https://doi.org/10.1007/s12010-020-03293-y>,
Registrované v: WOS

ADCA181 BREŽNÝ, Robert - ŠURINA, I. - KOŠÍK, M. Low temperature thermolysis of lignins. II. Thermofractography and thermal analysis of beta-o-4 model compounds. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1984, vol. 38, pp. 19-24. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1984.38.1.19>

Ohlasy:

1. [1.1] AKAZAWA, Minami - KATO, Yoshiaki - KOJIMA, Yasuo. Application of two resinols as lignin dimer models to characterize reaction mechanisms during pyrolysis. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2016, vol. 122, no., pp. 355-364., Registrované v: WOS
2. [1.1] AKAZAWA, Minami - KOJIMA, Yasuo - KATO, Yoshiaki. Effect of pyrolysis temperature on the pyrolytic degradation mechanism of beta-aryl ether linkages. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2016, vol. 118, no., pp. 164-174., Registrované v: WOS
3. [1.1] HWANG, Hyewon - SAHIN, Olga - CHOI, Joon Weon. Manufacturing a super-active carbon using fast pyrolysis char from biomass and correlation study on structural features and phenol adsorption. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 67, pp. 42192-42202., Registrované v: WOS
4. [1.1] KAWAMOTO, Haruo. Lignin pyrolysis reactions. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2017, vol. 63, no. 2, pp. 117-132., Registrované v: WOS
5. [1.1] KAWAMOTO, Haruo. Molecular Mechanisms in the Thermochemical Conversion of Lignins into Bio-Oil/Chemicals and Biofuels. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 321-353., Registrované v: WOS
6. [1.1] KONG, Linghao - LI, Gang - JIN, Lijun - HU, Haoquan. Effects of the oxygen substituent on the pyrolysis of phenyl ethers on a fixed-bed reactor. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2015, vol. 115, no., pp. 362-369., Registrované v: WOS
7. [1.1] LI, Gang - LI, Lu - JIN, Lijun - TANG, Zichao - FAN, Hongjun - HU, Haoquan. Methyl substitution effect in pyrolysis of coal-based model compound isomers. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2018, vol. 178, no., pp. 371-378., Registrované v: WOS

ADCA182 BREŽNÝ, Robert - MIHÁLOV, Vincent - KOVÁČIK, Vladimír. Low-temperature thermolysis of lignin I. Reactions of beta-O-4 model compounds. In *Holzforschung*, 1983, vol. 37, p. 199-204. Dostupné na: <https://doi.org/10.1515/hfsg.1983.37.4.199>

Ohlasy:

1. [1.1] AKAZAWA, Minami - KATO, Yoshiaki - KOJIMA, Yasuo. Application of two resinols as lignin dimer models to characterize reaction mechanisms during pyrolysis. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2016, vol. 122, no., pp. 355-364., Registrované v: WOS

2. [1.1] AKAZAWA, Minami - KOJIMA, Yasuo - KATO, Yoshiaki. Effect of pyrolysis temperature on the pyrolytic degradation mechanism of beta-aryl ether linkages. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2016, vol. 118, no., pp. 164-174., Registrované v: WOS
3. [1.1] ARSHANITSA, Alexandr - DIZHBITE, Tatiana - BIKOVENS, Oskars - PAVLOVICH, Gunars - ANDERSONE, Anna - TELYSHEVA, Galina. Effects of Microwave Treatment on the Chemical Structure of Lignocarbhydrate Matrix of Softwood and Hardwood. In ENERGY & FUELS. ISSN 0887-0624, 2016, vol. 30, no. 1, pp. 457-464., Registrované v: WOS
4. [1.1] ASATRYAN, Rubik - HUDZIK, Jason M. - BOZZELLI, Joseph W. - KHACHATRYAN, Lavrent - RUCKENSTEIN, Eli. OH-Initiated Reactions of p-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part I. Potential Energy Surface Analysis. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2019, vol. 123, no. 13, pp. 2570-2585., Registrované v: WOS
5. [1.1] DOLAN, Jeffrey A. - SATHITSUKSANO, Noppadon - RODRIGUEZ, Katia - SIMMONS, Blake A. - FRAZIER, Charles E. - RENNECKAR, Scott. Biocomposite adhesion without added resin: understanding the chemistry of the direct conversion of wood into adhesives. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 82, pp. 67267-67276., Registrované v: WOS
6. [1.1] HAZ, Ales - CHUPACOVA, Nikola - JABLONSKY, Michal - SLADKOVA, Alexandra - BACHRATY, Michal - BURCOVA, Zuzana - KREPS, Frantisek - SURINA, Igor. Influence of Several Metallic Type Catalysts on Lignin Pyrolysis-GC/MS. In RENEWABLE ENERGY SOURCES 2018, 2018, vol., no., pp. 18-21., Registrované v: WOS
7. [1.1] HUDZIK, Jason M. - BAREKATI-GOUDARZI, Mohamad - KHACHATRYAN, Lavrent - BOZZELLI, Joseph W. - RUCKENSTEIN, Eli - ASATRYAN, Rubik. OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part II. Kinetic Analysis. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4875-4904. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b11894>., Registrované v: WOS
8. [1.1] HUDZIK, Jason M. - BOZZELLI, Joseph W. - ASATRYAN, Rubik - RUCKENSTEIN, Eli. OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part III. Kinetics of H-Abstraction by H, OH, and CH₃ Radicals. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4905-4915. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b11898>., Registrované v: WOS
9. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main components of Helianthus annuus stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS
10. [1.1] KAWAMOTO, Haruo - WATANABE, Toshihiro - SAKA, Shiro. Strong interactions during lignin pyrolysis in wood A study by in situ probing of the radical chain reactions using model dimers. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2015, vol. 113, no., pp. 630-637., Registrované v: WOS
11. [1.1] KAWAMOTO, Haruo. Lignin pyrolysis reactions. In

- JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2017, vol. 63, no. 2, pp. 117-132., Registrované v: WOS
12. [1.1] KAWAMOTO, Haruo. Molecular Mechanisms in the Thermochemical Conversion of Lignins into Bio-Oil/Chemicals and Biofuels. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 321-353., Registrované v: WOS
13. [1.1] KHACHATRYAN, Lavrent - XU, Meng-xia - WU, Ang-jian - PECHAGIN, Mikhail - ASATRYAN, Rubik. Radicals and molecular products from the gas-phase pyrolysis of lignin model compounds. Cinnamyl alcohol. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2016, vol. 121, no., pp. 75-83., Registrované v: WOS
14. [1.1] KHACHATRYAN, Lavrent - BAREKATI-GOUDARZI, Moharnad - KEKEJIAN, David - AGUILAR, Gustavo - ASATRYAN, Rubik - STANLEY, George G. - BOLDOR, Dorin. Pyrolysis of Lignin in Gas-Phase Isothermal and cw-CO₂ Laser Powered Non-Isothermal Reactors. In ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 12, pp. 12597-12606., Registrované v: WOS
15. [1.1] KONG, Linghao - LI, Gang - JIN, Lijun - HU, Haoquan. Effects of the oxygen substituent on the pyrolysis of phenyl ethers on a fixed-bed reactor. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2015, vol. 115, no., pp. 362-369., Registrované v: WOS
16. [1.1] KOURIS, Panos D. - VAN OSCH, Dannie J. G. P. - CREMERS, Geert J. W. - BOOT, Michael D. - HENSEN, Emiel J. M. Mild thermolytic solvolysis of technical lignins in polar organic solvents to a crude lignin oil. In SUSTAINABLE ENERGY & FUELS. ISSN 2398-4902, 2020, vol. 4, no. 12, pp. 6212-6226. Dostupné na: <https://doi.org/10.1039/d0se01016b>., Registrované v: WOS
17. [1.1] LI, Gang - LI, Lu - JIN, Lijun - TANG, Zichao - FAN, Hongjun - HU, Haoquan. Methyl substitution effect in pyrolysis of coal-based model compound isomers. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2018, vol. 178, no., pp. 371-378., Registrované v: WOS
18. [1.1] YANEZ, Abraham J. - NATARAJAN, Pradeep - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. Coupled Structural and Kinetic Model of Lignin Fast Pyrolysis. In ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 2, pp. 1822-1830., Registrované v: WOS
19. [1.1] ZHANG, Wei - SATHITSUKSANO, Noppadon - SIMMONS, Blake A. - FRAZIER, Charles E. - BARONE, Justin R. - RENNECKAR, Scott. Revealing the thermal sensitivity of lignin during glycerol thermal processing through structural analysis. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 36, pp. 30234-30246., Registrované v: WOS
20. [1.2] JIANG, Xiaoyan - LU, Qiang - HU, Bin - DONG, Xiaochen - DONG, Changqing. Theoretical Studies on Pyrolysis Process of Lignin Trimer Model Compound. In Taiyangneng Xuebao/Acta Energetica Solaris Sinica. ISSN 0254-0096, 2018-01-28, 39, 1, pp. 170-179., Registrované v: SCOPUS

ADCA183 BREŽNÝ, Robert - PASZNER, L. - MICKO, M.M. - UHRÍN, Dušan. The ion-exchanging lignin derivatives prepared by Mannich reaction with amino acids. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1988, vol. 42, pp. 369-373. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1988.42.6.369>

Ohlasy:

1. [1.1] GREGOROVA, Adriana - SEDLARIK, Vladimir.
Characterization of structural and physical properties of dichloromethane- and methanol-fractionated Kraft lignin and its adsorption capacity of Cu (II) and Ni (II) ions. In *DESALINATION AND WATER TREATMENT*. ISSN 1944-3994, 2016, vol. 57, no. 23, pp. 10655-10663., Registrované v: WOS
2. [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHA, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS

ADCA184 BREŽNÝ, Robert - SCHRAML, J. ²⁹Si NMR spectral studies of kraft lignin and related model compounds. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1987, vol. 41, p. 293-298. ISSN 0018-3830.

Ohlasy:

1. [1.1] HAZ, Ales - CHUPACOVA, Nikola - JABLONSKY, Michal - SLADKOVA, Alexandra - BACHRATY, Michal - BURCOVA, Zuzana - KREPS, Frantisek - SURINA, Igor. Influence of Several Metallic Type Catalysts on Lignin Pyrolysis-GC/MS. In *RENEWABLE ENERGY SOURCES* 2018, 2018, vol., no., pp. 18-21., Registrované v: WOS
2. [1.1] JEREB, Marjan - LAKNER, Janja. Synthesis of trimethylsilyl carboxylates by HMDS under solvent-free conditions. In *TETRAHEDRON*. ISSN 0040-4020, 2016, vol. 72, no. 37, pp. 5713-5723., Registrované v: WOS
3. [1.2] CALVO-FLORES, Francisco G. - DOBADO, José A. - ISAC-GARCÍA, Joaquín - MARTÍN-MARTÍNEZ, Francisco J. Lignin and Lignans as Renewable Raw Materials: Chemistry, Technology and Applications. In *Lignin and Lignans as Renewable Raw Materials: Chemistry, Technology and Applications*, 2015-08-26, pp. 1-482., Registrované v: SCOPUS

ADCA185 BRISSONNET, Yoan - LADEVOZE, Simon - TEZÉ, David - FABRE, Emeline - DENIAUD, David - DALIGAULT, Franck - TELLIER, Charles - ŠESTÁK, Sergej - REMAUD-SIMEON, Magali - POTOCKI-VERONESE, Gabrielle - GOUIN, Sébastien G. Polymeric iminosugars improve the activity of carbohydrate-processing enzymes. In *Bioconjugate Chemistry*, 2015, vol. 26, p. 766-772. (2014: 4.513 - IF, Q1 - JCR, 1.711 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1043-1802. Dostupné na: <https://doi.org/10.1021/acs.bioconjchem.5b00081>

Ohlasy:

1. [1.1] ABELLAN-FLOS, Marta - TANC, Muhammet - SUPURAN, Claudiu T. - VINCENT, Stephane P. Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2015, vol. 13, no. 27, pp. 7445-7451., Registrované v: WOS
2. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In *CHEMICAL RECORD*. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na: <https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS

3. [1.1] DING, Feiqing - ISHIWATA, Akihiro - ITO, Yukishige. Bimodal Glycosyl Donors Protected by 2-O-(ortho-Tosylamido)benzyl Group. In ORGANIC LETTERS. ISSN 1523-7060, 2018, vol. 20, no. 14, pp. 4384-4388., Registrované v: WOS
4. [1.1] DOSEKOVA, Erika - FILIP, Jaroslav - BERTOK, Tomas - BOTH, Peter - KASAK, Peter - TKAC, Jan. Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, 2017, vol. 37, no. 3, pp. 514-626., Registrované v: WOS
5. [1.1] FIGUEREDO, Andreza S. - ZAMONER, Luis O. B. - REJZEK, Martin - FIELD, Robert A. - CARVALHO, Ivone. Cluster glycosides and heteroglycoclusters presented in alternative arrangements. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2018, vol. 59, no. 50, pp. 4405-4409., Registrované v: WOS
6. [1.1] FLOS, Marta Abellan - ISABEL GARCIA MORENO, M. - ORTIZ MELLET, Carmen - GARCIA FERNANDEZ, Jose Manuel - NIERENGARTEN, Jean-Francois - VINCENT, Stephane P. Potent Glycosidase Inhibition with Heterovalent Fullerenes: Unveiling the Binding Modes Triggering Multivalent Inhibition. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 32, pp. 11450-11460., Registrované v: WOS
7. [1.1] GONZALEZ-CUESTA, Manuel - MELLET, Carmen Ortiz - GARCIA FERNANDEZ, Jose M. Carbohydrate supramolecular chemistry: beyond the multivalent effect. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 39, pp. 5207-5222. Dostupné na: <https://doi.org/10.1039/d0cc01135e>., Registrované v: WOS
8. [1.1] KANFAR, Nasreddine - BARTOLAMI, Eline - ZELLI, Renaud - MARRA, Alberto - WINUM, Jean-Yves - ULRICH, Sebastien - DUMY, Pascal. Emerging trends in enzyme inhibition by multivalent nanoconstructs. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2015, vol. 13, no. 39, pp. 9894-9906., Registrované v: WOS
9. [1.1] LEPAGE, Mathieu L. - SCHNEIDER, Jeremy P. - BODLENNER, Anne - MELI, Alessandra - DE RICCARDIS, Francesco - SCHMITT, Marjorie - TARNUS, Celine - NHA-THI NGUYEN-HUYNH - FRANCOIS, Yannis-Nicolas - LEIZE-WAGNER, Emmanuelle - BIRCK, Catherine - COUSIDO-SIAH, Alexandra - PODJARNY, Alberto - IZZO, Irene - COMPAIN, Philippe. Iminosugar-Cyclopeptoid Conjugates Raise Multivalent Effect in Glycosidase Inhibition at Unprecedented High Levels. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 15, pp. 5151-5155., Registrované v: WOS
10. [1.1] LI MIN - LIU MAOHUA - WANG QI - WANG KERANG - LI XIAOLIU. Synthesis and Glycosidase Inhibition Activity of an Amphiphilic Fatty-Deoxynojirimycin Derivative. In CHINESE JOURNAL OF ORGANIC CHEMISTRY. ISSN 0253-2786, 2019, vol. 39, no. 12, pp. 3446-3453., Registrované v: WOS
11. [1.1] LI, Juan-Juan - WANG, Ke-Rang - LI, Ren-Feng - YANG, Jian-Xing - LI, Min - ZHANG, Hong-Xin - CAO, Zhi-Ran - LI, Xiao-Liu. Synthesis, self-assembly behaviours and multivalent glycosidase inhibition effects of a deoxynojirimycin modified perylene bisimide derivative. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 8, pp. 1270-1275., Registrované v: WOS

12. [1.1] LI, Min - WANG, Ke-Rang - YANG, Jian-Xing - PENG, Ya-Tong - LIU, Yi-Xuan - ZHANG, Hong-Xin - LI, Xiao-Liu. Supramolecular azasugar clusters based on an amphiphilic fatty-acid-deoxynojirimycin derivative as multivalent glycosidase inhibitors. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 9, pp. 1379-1383., Registrované v: WOS
13. [1.1] LOKA, Ravi S. - SLETTEN, Eric T. - BARASH, Uri - VLODAYSKY, Israel - NGUYEN, Hien M. Specific Inhibition of Heparanase by a Glycopolymer with Well-Defined Sulfation Pattern Prevents Breast Cancer Metastasis in Mice. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 1, pp. 244-254., Registrované v: WOS
14. [1.1] MARTINEZ-BAILEN, Macarena - GALBIS, Elsa - CARMONA, Ana T. - DE-PAZ, M-Violante - ROBINA, Inmaculada. Preparation of water-soluble glycopolymers derived from five-membered iminosugars. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2019, vol. 119, no., pp. 213-221., Registrované v: WOS
15. [1.1] MATASSINI, Camilla - MIRABELLA, Stefania - GOTI, Andrea - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. - CARDONA, Francesca. Exploring architectures displaying multimeric presentations of a trihydroxypiperidine iminosugar. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2015, vol. 11, no., pp. 2631-2640., Registrované v: WOS
16. [1.1] MATASSINI, Camilla - PARMEGGIANI, Camilla - CARDONA, Francesca - GOTI, Andrea. Are enzymes sensitive to the multivalent effect? Emerging evidence with glycosidases. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2016, vol. 57, no. 49, pp. 5407-5415., Registrované v: WOS
17. [1.1] MATASSINI, Camilla - D'ADAMIO, Giampiero - VANNI, Costanza - GOTI, Andrea - CARDONA, Francesca. Studies for the Multimerization of DAB-1-Based Iminosugars through Iteration of the Nitronc Cycloaddition/Ring-Opening/Allylation Sequence. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2019, vol. 2019, no. 30, pp. 4897-4905., Registrované v: WOS
18. [1.1] MATASSINI, C. - MARRADI, M. - CARDONA, F. - PARMEGGIANI, C. - ROBINA, I. - MORENO-VARGAS, A. J. - PENADES, S. - GOTI, A. Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 116, pp. 95817-95822., Registrované v: WOS
19. [1.1] MATASSINI, C. - VANNI, C. - GOTI, A. - MORRONE, A. - MARRADI, M. - CARDONA, F. Multimerization of DAB-1 onto Au GNPs affords new potent and selective N-acetylgalactosamine-6-sulfatase (GALNS) inhibitors. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 44, pp. 8604-8612., Registrované v: WOS
20. [1.1] NIERENGARTEN, Jean-Francois - SCHNEIDER, Jeremy P. - THI MINH NGUYET TRINH - JOOSTEN, Antoine - HOLLER, Michel - LEPAGE, Mathieu L. - BODLENNER, Anne - GARCIA-MORENO, M. Isabel - ORTIZ MELLET, Carmen - COMPAIN, Philippe. Giant Glycosidase Inhibitors: First- and Second-Generation Fullerodendrimers with a Dense Iminosugar Shell. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 10, pp. 2483-2492., Registrované v: WOS

21. [1.1] PICHON, Maeva M. - STAUFFERT, Fabien - BODLENNER, Anne - COMPAIN, Philippe. Tight-binding inhibition of jack bean alpha-mannosidase by glycoimidazole clusters. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2019, vol. 17, no. 23, pp. 5801-5817., Registrované v: WOS
22. [1.1] PUET, Alejandro - DOMINGUEZ, Gema - JAVIER CANADA, F. - PEREZ-CASTELLS, Javier. Amino Acid-Based Synthesis and Glycosidase Inhibition of Cyclopropane-Containing Iminosugars. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 49, pp. 31821-31830. Dostupné na: <https://doi.org/10.1021/acsomega.0c04589>., Registrované v: WOS
23. [1.1] SLETTEN, Eric T. - LOKA, Ravi S. - YU, Fei - NGUYEN, Hien M. Glycosidase Inhibition by Multivalent Presentation of Heparan Sulfate Saccharides on Bottlebrush Polymers. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 10, pp. 3387-3399., Registrované v: WOS
24. [1.1] TANGARA, Salia - KANAZAWA, Alice - FAYOLLE, Martine - PHILOUZE, Christian - POISSON, Jean-Francois - BEHR, Jean-Bernard - PY, Sandrine. Short synthesis, X-ray and conformational analysis of a cyclic peracetylated l-sorbose-derived nitron, a useful intermediate towards N-O-containing d-gluco-iminosugars. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2018, vol. 42, no. 20, pp. 16735-16743., Registrované v: WOS
25. [1.1] UZULENA, Jevgenija - RJABOV, Vitalijs - MORENO-VARGAS, Antonio J. - TURKS, Maris. Synthesis of 1,2,3-triazole-linked glycohybrids in the gluco-, gulo-, and allopripyranose series. In *CHEMISTRY OF HETEROCYCLIC COMPOUNDS*. ISSN 0009-3122, 2015, vol. 51, no. 7, pp. 664-671., Registrované v: WOS
26. [1.2] ORTIZ MELLET, Carmen - NIERENGARTEN, Jean François - GARCÍA FERNÁNDEZ, José M. Multivalency as an action principle in multimodal lectin recognition and glycosidase inhibition: A paradigm shift driven by carbon-based glyconanomaterials. In *Journal of Materials Chemistry B*. ISSN 20507518, 2017-01-01, 5, 32, pp. 6428-6436., Registrované v: SCOPUS

ADCA186 BRISSONNET, Yoan - ORTIZ MELLET, Carmen - MORANDAT, Sandrine - GARCIA MORENO, Isabel - DENIAUD, David - MATTHEWS, Susan - VIDAL, Sébastien - ŠESTÁK, Sergej - EL KIRAT, Karim - GOUIN, Sébastien. Topological effects and binding modes operating with multivalent iminosugar-based glycoclusters and mannosidases. In *Journal of the American Chemical Society*, 2013, vol. 135, p. 18427-18435. (2012: 10.677 - IF, Q1 - JCR, 6.211 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/ja406931w>

Ohlasy:

1. [1.1] ABELLAN-FLOS, Marta - TANC, Muhammet - SUPURAN, Claudiu T. - VINCENT, Stephane P. Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2015, vol. 13, no. 27, pp. 7445-7451., Registrované v: WOS
2. [1.1] ABELLAN-FLOS, Marta - TANC, Muhammet - SUPURAN, Claudiu T. - VINCENT, Stephane P. Multimeric xanthates as carbonic anhydrase inhibitors. In *JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY*. ISSN 1475-6366, 2016, vol. 31, no. 6, pp. 946-952., Registrované v: WOS

3. [1.1] BOMMAGANI, Mohan Babu - MOKENAPELLI, Sudhakar - YERRABELLI, Jayaprakash Rao - BODA, Sathish Kumar - CHITNENI, Prasad Rao. Novel 4-(1H-1,2,3-triazol-4-yl)methoxy)cinnolines as potent antibacterial agents: Synthesis and molecular docking study. In SYNTHETIC COMMUNICATIONS. ISSN 0039-7911, 2020, vol. 50, no. 7, pp. 1016-1025. Dostupné na: <https://doi.org/10.1080/00397911.2020.1728333>., Registrované v: WOS
4. [1.1] CARMONA, Ana T. - CARRION-JIMENEZ, Sebastian - PINGITORE, Valeria - MORENO-CLAVIJO, Elena - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. Harnessing pyrrolidine iminosugars into dimeric structures for the rapid discovery of divalent glycosidase inhibitors. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2018, vol. 151, no., pp. 765-776., Registrované v: WOS
5. [1.1] CID MARTIN, J. J. - ASSALI, M. - FERNANDEZ-GARCIA, E. - VALDIVIA, V. - SANCHEZ-FERNANDEZ, E. M. - GARCIA FERNANDEZ, J. M. - WELLINGER, R. E. - FERNANDEZ, I. - KHIAR, N. Tuning of glyconanomaterial shape and size for selective bacterial cell agglutination. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2016, vol. 4, no. 11, pp. 2028-2037., Registrované v: WOS
6. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In CHEMICAL RECORD. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na: <https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS
7. [1.1] DOSEKOVA, Erika - FILIP, Jaroslav - BERTOK, Tomas - BOTH, Peter - KASAK, Peter - TKAC, Jan. Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, 2017, vol. 37, no. 3, pp. 514-626., Registrované v: WOS
8. [1.1] FEI, Xiang - ZAVORKA, Megan E. - MALIK, Guillaume - CONNELLY, Christopher M. - MACDONALD, Richard G. - BERKOWITZ, David B. General Linker Diversification Approach to Bivalent Ligand Assembly: Generation of an Array of Ligands for the Cation Independent Mannose 6-Phosphate Receptor. In ORGANIC LETTERS. ISSN 1523-7060, 2017, vol. 19, no. 16, pp. 4267-4270., Registrované v: WOS
9. [1.1] FIGUEREDO, Andreza S. - ZAMONER, Luis O. B. - REJZEK, Martin - FIELD, Robert A. - CARVALHO, Ivone. Cluster glycosides and heteroglycoclusters presented in alternative arrangements. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2018, vol. 59, no. 50, pp. 4405-4409., Registrované v: WOS
10. [1.1] HENSIENNE, Raphael - HAZELARD, Damien - COMPAIN, Philippe. Conformationally constrained fused bicyclic iminosugars: synthetic challenges and opportunities. In ARKIVOC. ISSN 1551-7004, 2019, vol., no., pp. 4-43., Registrované v: WOS
11. [1.1] HE, Yun - AGARWAL, Piyush K. - KIRAN, I. N. Chaithanya - YU, Ruocheng - CAO, Bei - ZOU, Cheng - ZHOU, Xinghua - XU, Huacheng - XU, Biao - ZHU, Lei - LAN, Yu - NICOLAOU, K. C. Efficient Synthesis of Dimeric Oxazoles, Piperidines and Tetrahydroisoquinolines from N-Substituted 2-Oxazolones. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 23, pp. 7696-7701., Registrované v: WOS
12. [1.1] HOTTIN, Audrey - CARRION-JIMENEZ, Sebastian -

- MORENO-CLAVIJO, Elena - MORENO-VARGAS, Antonio J. - CARMONA, Ana T. - ROBINA, Inmaculada - BEHR, Jean-Bernard. Expanding the library of divalent fucosidase inhibitors with polyamino and triazole-benzyl bridged bispyrrolidines. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2016, vol. 14, no. 12, pp. 3212-3220., Registrované v: WOS
13. [1.1] HOWARD, Eduardo - COUSIDO-SIAH, Alexandra - LEPAGE, Mathieu L. - SCHNEIDER, Jeremy P. - BODLENNER, Anne - MITSCHLER, Andre - MELI, Alessandra - IZZO, Irene - ARIEL ALVAREZ, H. - PODJARNY, Alberto - COMPAIN, Philippe. Structural Basis of Outstanding Multivalent Effects in Jack Bean Mannosidase Inhibition. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 27, pp. 8002-8006., Registrované v: WOS
14. [1.1] KANFAR, Nasreddine - BARTOLAMI, Eline - ZELLI, Renaud - MARRA, Alberto - WINUM, Jean-Yves - ULRICH, Sebastien - DUMY, Pascal. Emerging trends in enzyme inhibition by multivalent nanoconstructs. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2015, vol. 13, no. 39, pp. 9894-9906., Registrované v: WOS
15. [1.1] LAIGRE, Eugenie - HAZELARD, Damien - CASAS, Josefina - SERRA-VINARDELL, Jenny - MICHELAKAKIS, Helen - MAVRIDOU, Irene - AERTS, Johannes M. F. G. - DELGADO, Antonio - COMPAIN, Philippe. Investigation of original multivalent iminosugars as pharmacological chaperones for the treatment of Gaucher disease. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 429, no., pp. 98-104., Registrované v: WOS
16. [1.1] LEPAGE, Mathieu L. - MIRLOUP, Antoine - RIPOLL, Manon - STAUFFERT, Fabien - BODLENNER, Anne - ZIESSEL, Raymond - COMPAIN, Philippe. Design, synthesis and photochemical properties of the first examples of iminosugar clusters based on fluorescent cores. In *BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1860-5397, 2015, vol. 11, no., pp. 659-667., Registrované v: WOS
17. [1.1] LI, Juan-Juan - WANG, Ke-Rang - LI, Ren-Feng - YANG, Jian-Xing - LI, Min - ZHANG, Hong-Xin - CAO, Zhi-Ran - LI, Xiao-Liu. Synthesis, self-assembly behaviours and multivalent glycosidase inhibition effects of a deoxynojirimycin modified perylene bisimide derivative. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2019, vol. 7, no. 8, pp. 1270-1275., Registrované v: WOS
18. [1.1] MATASSINI, Camilla - MIRABELLA, Stefania - GOTI, Andrea - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. - CARDONA, Francesca. Exploring architectures displaying multimeric presentations of a trihydroxypiperidine iminosugar. In *BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1860-5397, 2015, vol. 11, no., pp. 2631-2640., Registrované v: WOS
19. [1.1] MATASSINI, Camilla - PARMEGGIANI, Camilla - CARDONA, Francesca - GOTI, Andrea. Are enzymes sensitive to the multivalent effect? Emerging evidence with glycosidases. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2016, vol. 57, no. 49, pp. 5407-5415., Registrované v: WOS
20. [1.1] MATASSINI, C. - MARRADI, M. - CARDONA, F. - PARMEGGIANI, C. - ROBINA, I. - MORENO-VARGAS, A. J. - PENADES, S. - GOTI, A. Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 116, pp.

95817-95822., Registrované v: WOS

21. [1.1] MATASSINI, C. - VANNI, C. - GOTI, A. - MORRONE, A. - MARRADI, M. - CARDONA, F. Multimerization of DAB-1 onto Au GNPs affords new potent and selective N-acetylgalactosamine-6-sulfatase (GALNS) inhibitors. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 44, pp. 8604-8612., Registrované v: WOS

22. [1.1] NASEER, Muhammad Moazzam - AHMED, Mukhtiar - HAMEED, Shahid. Functionalized calix[4]arenes as potential therapeutic agents. In CHEMICAL BIOLOGY & DRUG DESIGN. ISSN 1747-0277, 2017, vol. 89, no. 2, pp. 243-256., Registrované v: WOS

23. [1.1] NA, Guangren - HE, Ying - KIM, Yongju - LEE, Myongsoo. Switching of carbohydrate nanofibers for regulating cell proliferation. In SOFT MATTER. ISSN 1744-683X, 2016, vol. 12, no. 11, pp. 2846-2850., Registrované v: WOS

24. [1.1] PEREIRA, Andreia T. - RIBEIRO, Antonio J. M. - FERNANDES, Pedro A. - RAMOS, Maria J. Benchmarking of density functionals for the kinetics and thermodynamics of the hydrolysis of glycosidic bonds catalyzed by glycosidases. In INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY. ISSN 0020-7608, 2017, vol. 117, no. 18, pp., Registrované v: WOS

25. [1.1] ROMERO-BEN, E. - MENA BARRAGAN, T. - GARCIA DE DIONISIO, E. - SANCHEZ-FERNANDEZ, E. M. - GARCIA FERNANDEZ, J. M. - GUILLEN-MANCINA, E. - LOPEZ-LAZARO, M. - KHIAR, N. Mannose-coated polydiacetylene (PDA)-based nanomicelles: synthesis, interaction with concanavalin A and application in the water solubilization and delivery of hydrophobic molecules. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 39, pp. 5930-5946., Registrované v: WOS

26. [1.1] ROY, Rene - SHIAO, Tze Chieh. Glyconanosynths as powerful scaffolds and building blocks for the rapid construction of multifaceted, dense and chiral dendrimers. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 12, pp. 3924-3941., Registrované v: WOS

27. [1.1] SATTIN, Sara - BERNARDI, Anna. Design and synthesis of glycomimetics. In CARBOHYDRATE CHEMISTRY: CHEMICAL AND BIOLOGICAL APPROACHES, VOL 41. ISSN 2041-353X, 2016, vol. 41, no., pp. 1-25., Registrované v: WOS

28. [1.1] SCHNEIDER, Jeremy P. - TOMMASONE, Stefano - DELLA SALA, Paolo - GAETA, Carmine - TALOTTA, Carmen - TARNUS, Celine - NERI, Placido - BODLENNER, Anne - COMPAIN, Philippe. Synthesis and Glycosidase Inhibition Properties of Calix[8]arene-Based Iminosugar Click Clusters. In PHARMACEUTICALS, 2020, vol. 13, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ph13110366>., Registrované v: WOS

29. [1.1] TIKAD, Abdellatif - FU, Huixiao - SEVRAIN, Charlotte M. - LAURENT, Sophie - NIERENGARTEN, Jean-Francois - VINCENT, Stephane P. Mechanistic Insight into Heptosyltransferase Inhibition by using Kdo Multivalent Glycoclusters. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 37, pp. 13147-13155., Registrované v: WOS

30. [1.1] ZELLI, Renaud - BARTOLAMI, Eline - LONGEVIAL, Jean-Francois - BESSIN, Yannick - DUMY, Pascal - MARRA, Alberto - ULRICH, Sebastien. A metal-free synthetic approach to peptide-based

iminosugar clusters as novel multivalent glycosidase inhibitors. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 3, pp. 2210-2216., Registrované v: WOS

31. [1.1] ZELLI, Renaud - LONGEVIAL, Jean-Francois - DUMY, Pascal - MARRA, Alberto. Synthesis and biological properties of multivalent iminosugars. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2015, vol. 39, no. 7, pp. 5050-5074., Registrované v: WOS

32. [1.1] ZHAO, Kai - ZHOU, Gang - NIE, Huifang - CHEN, Weiping. Three-step synthesis of L-ido-1-deoxynojirimycin derivatives by reductive amination in water, "borrowing hydrogen" under neat conditions and deprotection. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 40, pp. 9466-9471., Registrované v: WOS

33. [1.2] BALDINI, L. - CASNATI, A. - SANSONE, F. Biomacromolecule Recognition by Calixarene Macrocycles. In Comprehensive Supramolecular Chemistry II, 2017-06-22, 4, pp. 371-408., Registrované v: SCOPUS

34. [1.2] CID, Juan José - ASSALI, M. - FERNÁNDEZ-GARCÍA, E. - VALDIVIA, V. - SÁNCHEZ-FERNÁNDEZ, E. M. - GARCIA FERNÁNDEZ, J. M. - WELLINGER, R. E. - FERNÁNDEZ, I. - KHIAR, N. Tuning of glyconanomaterial shape and size for selective bacterial cell agglutination. In Journal of Materials Chemistry B. ISSN 20507518, 2016-03-21, 4, 11, pp. 2028-2037., Registrované v: SCOPUS

ADCA187 BROADLEY, M.R. - WHITE, P.J. - HAMMOND, J.P. - ZELKO, Ivan - LUX, Alexander. Zinc in plants. In *New Phytologist*, 2007, vol. 173, p. 677-702. (2006: 4.245 - IF, Q1 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 0028-646X. Dostupné na: <https://doi.org/10.1111/j.1469-8137.2007.01996.x>

Ohlasy:

1. [1.1] ABAID-ULLAH, Muhammad - HASSAN, Muhammad Nadeem - JAMIL, Muhammad - BRADER, Guenter - SHAH, Muhammad Kausar Nawaz - SESSITSCH, Angela - HAFEEZ, Fauzia Yusuf. Plant Growth Promoting Rhizobacteria: An Alternate Way to Improve Yield and Quality of Wheat (*Triticum aestivum*). In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2015, vol. 17, no. 1, pp. 51-60., Registrované v: WOS

2. [1.1] ABDELGAWAD, Hamada - ZINTA, Gaurav - HAMED, Badreldin A. - SELIM, Samy - BEEMSTER, Gerrit - HOZZEIN, Wael N. - WADAAN, Mohammed A. M. - ASARD, Han - ABUELSOUD, Walid. Maize roots and shoots show distinct profiles of oxidative stress and antioxidant defense under heavy metal toxicity. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 258, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2019.113705>., Registrované v: WOS

3. [1.1] ABREU, Isidro - SAEZ, Angela - CASTRO-RODRIGUEZ, Rosario - ESCUDERO, Viviana - RODRIGUEZ-HAAS, Benjamin - SENOVILLA, Marta - LARUE, Camille - GROLIMUND, Daniel - TEJADA-JIMENEZ, Manuel - IMPERIAL, Juan - GONZALEZ-GUERRERO, Manuel. Medicago truncatula Zinc-Iron Permease6 provides zinc to rhizobia-infected nodule cells. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2017, vol. 40, no. 11, pp. 2706-2719., Registrované v: WOS

4. [1.1] ADEDIRAN, Gbotemi A. - NGWENYA, Bryne T. -

- MOSSELMANS, J. Frederick W. - HEAL, Kate V. - HARVIE, Barbra A. Mixed planting with a leguminous plant outperforms bacteria in promoting growth of a metal remediating plant through histidine synthesis. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2016, vol. 18, no. 7, pp. 720-729., Registrované v: WOS
5. [1.1] ADEDIRAN, Gbotemi A. - NGWENYA, Bryne T. - MOSSELMANS, J. Frederick W. - HEAL, Kate V. Bacteria-zinc co-localization implicates enhanced synthesis of cysteine-rich peptides in zinc detoxification when *Brassica juncea* is inoculated with *Rhizobium leguminosarum*. In NEW PHYTOLOGIST. ISSN 0028-646X, 2016, vol. 209, no. 1, pp. 280-293., Registrované v: WOS
6. [1.1] ADEKIYA, A. O. - ABOYEJI, C. M. - AGBEDE, T. M. - DUNSIN, O. - ADEBIYI, O. T. Effect of ZnSO₄ fertilizer on soil chemical properties, performance and proximate quality of sweet potato in a derived savanna ecology of Nigeria. In OPEN AGRICULTURE. ISSN 2391-9531, 2018, vol. 3, no. 1, pp. 644-651., Registrované v: WOS
7. [1.1] ADELE, Nyekachi C. - NGWENYA, Bryne T. - HEAL, Kate V. - MOSSELMANS, J. Frederick W. Soil Bacteria Override Speciation Effects on Zinc Phytotoxicity in Zinc-Contaminated Soils. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2018, vol. 52, no. 6, pp. 3412-3421., Registrované v: WOS
8. [1.1] AFSHAR, Reza Keshavarz - CHEN, Chengci - ZHOU, Shuang - ETEMADI, Fatemeh - HE, Huaqin - LI, Zhaowei. Agronomic and economic response of bread wheat to foliar zinc application. In AGRONOMY JOURNAL. ISSN 0002-1962, 2020, vol. 112, no. 5, pp. 4045-4056. Dostupné na: <https://doi.org/10.1002/agj2.20247>., Registrované v: WOS
9. [1.1] AHMAD, N. - ALATAR, A. A. - FAISAL, M. - KHAN, M. I. - FATIMA, N. - ANIS, M. - HEGAZY, A. K. Effect of copper and zinc on the in vitro regeneration of *Rauvolfia serpentina*. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2015, vol. 59, no. 1, pp. 11-17., Registrované v: WOS
10. [1.1] AHMAD, Rashid - AHMAD WARAICH, Ejaz - NAWAZ, Fahim - ASHRAF, Muhammad Y. - KHALID, Muhammad. Selenium (Se) improves drought tolerance in crop plants a myth or fact? In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2016, vol. 96, no. 2, pp. 372-380., Registrované v: WOS
11. [1.1] ACHARJEE, Kaushik - SARKAR, Jayanwita - DEB, Prahlad - CHACKRABORTY, Usha - SINHA, Biswajit. Efficacy of N₂O₂ donor schiff bases and their Zn²⁺ complexes on various morphological and biochemical parameters of *Cicer arietinum* L. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2018, vol. 41, no. 4, pp. 487-496., Registrované v: WOS
12. [1.1] AKHTAR, Muhammad - YOUSAF, Sundas - SARWAR, Nadeem - HUSSAIN, Saddam. Zinc biofortification of cereals-role of phosphorus and other impediments in alkaline calcareous soils. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2019, vol. 41, no. 5, pp. 2365-2379., Registrované v: WOS
13. [1.1] AKHTAR, Sajjad - OSTHOFF, Gernot - MASHINGAIDZE, Kingstone - LABUSCHAGNE, Maryke. Iron and Zinc in Maize in the Developing World: Deficiency, Availability, and Breeding. In CROP SCIENCE. ISSN 0011-183X, 2018, vol. 58, no. 6, pp. 2200-2213., Registrované v: WOS
14. [1.1] AKTER, Mousumi - ALAM, Md. Khairul - RASHID, Md.

- Harunur - AKHTER, S. - NASER, H. M. - SULTANA, S. - SHIL, N. C. - HOSSAIN, M. A. Correction and standardization of critical limit of zinc for maize (*Zea mays* L.) crop: Bangladesh perspective. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2020, vol. 43, no. 3, pp. 371-383. Dostupné na: <https://doi.org/10.1080/01904167.2019.1676904>., Registrované v: WOS
15. [1.1] ALEAMOTU'A, Maketalena - TAI, Yu-Ting - MCCURDY, David W. - COLLINGS, David A. Developmental Biology and Induction of Phi Thickenings by Abiotic Stress in Roots of the Brassicaceae. In PLANTS-BASEL. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS
16. [1.1] ALEAMOTU'A, Maketalena - MCCURDY, David W. - COLLINGS, David A. Phi thickenings in roots: novel secondary wall structures responsive to biotic and abiotic stresses. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2019, vol. 70, no. 18, pp. 4631-4641., Registrované v: WOS
17. [1.1] ALI, Basharat - PANTHA, Sumitra - ACHARYA, Roshan - UEDA, Yoshiaki - WU, Lin-Bo - ASHRAFUZZAMAN, Md - ISHIZAKI, Takuma - WISSUWA, Matthias - BULLEY, Sean - FREI, Michael. Enhanced ascorbate level improves multi-stress tolerance in a widely grown indica rice variety without compromising its agronomic characteristics. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2019, vol. 240, no., pp., Registrované v: WOS
18. [1.1] ALMAALI, G. A. - BISKO, N. A. - OSTAPCHUK, A. M. The effect of citrate and sulfate of different metals on carbohydrates composition of medicinal mushroom *Trametes versicolor* (Polyporales, Polyporaceae). In VISNYK OF DNIPROPETROVSK UNIVERSITY-BIOLOGY MEDICINE. ISSN 2310-4155, 2016, vol. 7, no. 1, pp. 32-36., Registrované v: WOS
19. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. Tolerance and potential for bioaccumulation of *Alternanthera tenella* Colla to cadmium under in vitro conditions. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
20. [1.1] ALPTEKIN, Burcu - LANGRIDGE, Peter - BUDAK, Hikmet. Abiotic stress miRNomes in the Triticeae. In FUNCTIONAL & INTEGRATIVE GENOMICS. ISSN 1438-793X, 2017, vol. 17, no. 2-3, pp. 145-170., Registrované v: WOS
21. [1.1] ALTUN, Serap Kilic - DINC, Hikmet - PAKSOY, Nilgun - TEMAMOGULLARI, Fusun Karacal - SAVRUNLU, Mehmet. Analyses of Mineral Content and Heavy Metal of Honey Samples from South and East Region of Turkey by Using ICP-MS. In INTERNATIONAL JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1687-8760, 2017, vol., no., pp., Registrované v: WOS
22. [1.1] ALVARADO, A. C. - PREDICALA, B. Z. - ASIS, D. A. Mixing nanoparticles with swine manure to reduce hydrogen sulfide and ammonia emissions. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2015, vol. 12, no. 3, pp. 893-904., Registrované v: WOS
23. [1.1] ALVA, Orlando - NAIR ROA-ROCO, Rosa - PEREZ-DIAZ, Ricardo - YANEZ, Monica - TAPIA, Jaime - MORENO, Yerko - RUIZ-LARA,

Simon - GONZALEZ, Enrique. Pollen Morphology and Boron Concentration in Floral Tissues as Factors Triggering Natural and GA-Induced Parthenocarpic Fruit Development in Grapevine. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 10, pp., Registrované v: WOS

24. [1.1] AL-MAALI, G. A. The influence of different compounds of trace elements on the biomass and synthesis of exopolysaccharides of mycelium *Trametes versicolor* (Polyporaceae, Polyporales). In BIOSYSTEMS DIVERSITY. ISSN 2310-0842, 2017, vol. 25, no. 4, pp. 289-296., Registrované v: WOS

25. [1.1] AMDOUN, Ryad - BENDIFALLAH, Nassim - SAHLI, Fatiha - MOUSTAFA, Khaled - HEFFERON, Kathleen - MAKHZOUM, Abdullah - KHELIFI, Lakhdar. Improving zinc phytoremediation characteristics in *Salix pedicellata* with a new acclimation approach. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2020, vol. 22, no. 7, pp. 745-754. Dostupné na: <https://doi.org/10.1080/15226514.2019.1708862>., Registrované v: WOS

26. [1.1] AMOOAGHAIE, Rayhaneh - NOROUZI, Maryam - SAERI, Mohammad. Impact of zinc and zinc oxide nanoparticles on the physiological and biochemical processes in tomato and wheat. In BOTANY. ISSN 1916-2790, 2017, vol. 95, no. 5, pp. 441-455., Registrované v: WOS

27. [1.1] ANAND, Thangaraj - KUMAR, Ashok S. K. - SAHOO, Suban K. Vitamin B-6 Cofactor Derivative: A Dual Fluorescent Turn-On Sensor to Detect Zn²⁺ and CN⁻ Ions and Its Application in Live Cell Imaging. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 25, pp. 7570-7579., Registrované v: WOS

28. [1.1] ANAND, Thangaraj - KUMAR, Ashok S. K. - SAHOO, Suban K. A novel Schiff base derivative of pyridoxal for the optical sensing of Zn²⁺ and cysteine. In PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES. ISSN 1474-905X, 2018, vol. 17, no. 4, pp. 414-422., Registrované v: WOS

29. [1.1] ANDRAS, Peter - MATOS, Joao Xavier - TURISOVA, Ingrid - BATISTA, Maria Joao - KANIANSKA, Radoslava - KHARBISH, Sherif. The interaction of heavy metals and metalloids in the soil-plant system in the So Domingos mining area (Iberian Pyrite Belt, Portugal). In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 21, pp. 20615-20630., Registrované v: WOS

30. [1.1] ANDRESEN, Elisa - PEITER, Edgar - KUPPER, Hendrik. Trace metal metabolism in plants. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 5, pp. 909-954., Registrované v: WOS

31. [1.1] ANDREY, Gorovtsov - RAJPUT, Vishnu - TATIANA, Minkina - SAGLARA, Mandzhieva - SVETLANA, Sushkova - IGOR, Kornienko - GRIGORYEVA, Tatiana - VASILY, Chokheli - IRAIDA, Aleshukina - VLADISLAV, Zinchenko - ELENA, Fedorenko - HASMIK, Movsesyan. The role of biochar-microbe interaction in alleviating heavy metal toxicity in *Hordeum vulgare* L. grown in highly polluted soils. In APPLIED GEOCHEMISTRY. ISSN 0883-2927, 2019, vol. 104, no., pp. 93-101., Registrované v: WOS

32. [1.1] ANJUM, Naser A. - SINGH, Harminder P. - KHAN, M. Iqbal R. - MASOOD, Asim - PER, Tasir S. - NEGI, Asha - BATISH, Daizy R. - KHAN, Nafees A. - DUARTE, Armando C. - PEREIRA, Eduarda - AHMAD,

Iqbal. Too much is bad-an appraisal of phytotoxicity of elevated plant-beneficial heavy metal ions. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2015, vol. 22, no. 5, pp. 3361-3382.,

Registrované v: WOS

33. [1.1] ANTAL, Diana Simona - VLAIA, Vicentiu - DEHELEAN, Cristina Adriana - VLAIA, Lavinia - TRANDAFIRESCU, Cristina - ARDELEAN, Florina - PINZARU, Iulia - IONESCU, Daniela. Zinc Across Medicinal Plants from Romanian Biodiversity and the Implications for Human Health. In REVISTA DE CHIMIE. ISSN 0034-7752, 2015, vol. 66, no. 2, pp. 236-239., Registrované v: WOS

34. [1.1] ANWAAR, Shad Ali - ALI, Shafaqat - ALI, Skhawat - ISHAQUE, Wajid - FARID, Mujahid - FAROOQ, Muhammad Ahsan - NAJEEB, Ullah - ABBAS, Farhat - SHARIF, Muhammad. Silicon (Si) alleviates cotton (*Gossypium hirsutum* L.) from zinc (Zn) toxicity stress by limiting Zn uptake and oxidative damage. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2015, vol. 22, no. 5, pp. 3441-3450., Registrované v: WOS

35. [1.1] ARENAS-LAGO, Daniel - CARVALHO, Luisa C. - SANTOS, Erika S. - MANUELA ABREU, M. The physiological mechanisms underlying the ability of *Cistus monspeliensis* L. from Sao Domingos mine to withstand high Zn concentrations in soils. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2016, vol. 129, no., pp. 219-227., Registrované v: WOS

36. [1.1] ARES, Angela - ITOUGA, Misao - KATO, Yukari - SAKAKIBARA, Hitoshi. Differential Metal Tolerance and Accumulation Patterns of Cd, Cu, Pb and Zn in the Liverwort *Marchantia polymorpha* L. In BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY. ISSN 0007-4861, 2018, vol. 100, no. 3, pp. 444-450., Registrované v: WOS

37. [1.1] ARIANI, Andrea - BAROZZI, Fabrizio - SEBASTIANI, Luca - SANITA DI TOPPI, Luigi - DI SANSEBASTIANO, Gian Pietro - ANDREUCCI, Andrea. AQUA1 is a mercury sensitive poplar aquaporin regulated at transcriptional and post-translational levels by Zn stress. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2019, vol. 135, no., pp. 588-600., Registrované v: WOS

38. [1.1] ARIANI, Andrea - ROMEO, Stefania - GROOVER, Andrew T. - SEBASTIANI, Luca. Comparative epigenomic and transcriptomic analysis of *Populus* roots under excess Zn. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2016, vol. 132, no., pp. 16-27., Registrované v: WOS

39. [1.1] ARNOLD, Tim - MARKOVIC, Tamara - KIRK, Guy J. D. - SCHOENBAECHLER, Maria - REHKAEMPER, Mark - ZHAO, Fangjie J. - WEISS, Dominik J. Iron and zinc isotope fractionation during uptake and translocation in rice (*Oryza sativa*) grown in oxic and anoxic soils. In COMPTES RENDUS GEOSCIENCE. ISSN 1631-0713, 2015, vol. 347, no. 7-8, pp. 397-404., Registrované v: WOS

40. [1.1] ASEMOLAYE, Michael Dare - JONATHAN, Segun Gbolagade - JAYEOLA, Adeniyi A. - AHMAD, Rafiq. Mediatonal influence of spent mushroom compost on phytoremediation of black-oil hydrocarbon polluted soil and response of *Megathyrus maximus* Jacq. In JOURNAL OF

- ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2017, vol. 200, no., pp. 253-262., Registrované v: WOS
41. [1.1] ATTEYA, Amira K. G. - GENAIDY, Esmail A. E. - ZAHRAN, Hamdy. A. Chemical constituents and yield of *Simmondsia chinensis* plants as affected by foliar application of gibberellic acid and zinc sulphate. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2018, vol. 15, no. 3, pp. 1528-1541., Registrované v: WOS
42. [1.1] AZEVEDO, Herlander - AZINHEIRO, Sarah Gaspar - MUNOZ-MERIDA, Antonio - CASTRO, Pedro Humberto - HUETTEL, Bruno - AARTS, Mark G. M. - ASSUNCAO, Ana G. L. Transcriptomic profiling of *Arabidopsis* gene expression in response to varying micronutrient zinc supply. In GENOMICS DATA. ISSN 2213-5960, 2016, vol. 7, no., pp. 256-258., Registrované v: WOS
43. [1.1] BACSI, I. - NOVAK, Z. - JANOSZKY, M. - B-BERES, V. - GRIGORSZKY, I. - NAGY, S. A. The sensitivity of two *Monoraphidium* species to zinc: their possible future role in bioremediation. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2015, vol. 12, no. 8, pp. 2455-2466., Registrované v: WOS
44. [1.1] BALAFREJ, Habiba - BOGUSZ, Didier - TRIQUI, Zine-El Abidine - GUEDIRA, Abdelkarim - BENDAOU, Najib - SMOUNI, Abdelaziz - FAHR, Mouna. Zinc Hyperaccumulation in Plants: A Review. In PLANTS-BASEL, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/plants9050562>., Registrované v: WOS
45. [1.1] BALA, Reetu - KALIA, Anu - DHALIWAL, Salwinder Singh. Evaluation of Efficacy of ZnO Nanoparticles as Remedial Zinc Nanofertilizer for Rice. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9516, 2019, vol. 19, no. 2, pp. 379-389., Registrované v: WOS
46. [1.1] BALI, Shagun - JAMWAL, Vijay Lakshmi - KAUR, Parminder - KOHLI, Sukhmeen Kaur - OHRI, Puja - GANDHI, Sumit G. - BHARDWAJ, Renu - AL-HUQAIL, Asma A. - SIDDIQUI, Manzer H. - AHMAD, Parvaiz. Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2019, vol. 174, no., pp. 283-294., Registrované v: WOS
47. [1.1] BANDYOPADHYAY, Tirthankar - MEHRA, Poonam - HAIRAT, Suboot - GIRI, Jitender. Morpho-physiological and transcriptome profiling reveal novel zinc deficiency-responsive genes in rice. In FUNCTIONAL & INTEGRATIVE GENOMICS. ISSN 1438-793X, 2017, vol. 17, no. 5, pp. 565-581., Registrované v: WOS
48. [1.1] BARAN, Agnieszka - WIECZOREK, Jerzy - MAZUREK, Ryszard - URBANSKI, Krzysztof - KLIMKOWICZ-PAWLAS, Agnieszka. Potential ecological risk assessment and predicting zinc accumulation in soils. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2018, vol. 40, no. 1, pp. 435-450., Registrované v: WOS
49. [1.1] BARRAMEDA-MEDINA, Yurena - BLASCO, Begona - LENTINI, Marco - ESPOSITO, Sergio - BAENAS, Nieves - MORENO, Diego A. - RUIZ, Juan M. Zinc biofortification improves phytochemicals and amino-acidic profile in *Brassica oleracea* cv. Bronco. In PLANT SCIENCE. ISSN 0168-9452, 2017, vol. 258, no., pp. 45-51., Registrované v: WOS
50. [1.1] BARRAMEDA-MEDINA, Yurena - LENTINI, Marco -

- ESPOSITO, Sergio - RUIZ, Juan M. - BLASCO, Begona. Zn-biofortification enhanced nitrogen metabolism and photorespiration process in green leafy vegetable *Lactuca sativa* L. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2017, vol. 97, no. 6, pp. 1828-1836., Registrované v: WOS
51. [1.1] BASHIR, Khurram - RASHEED, Sultana - KOBAYASHI, Takanori - SEKI, Motoaki - NISHIZAWA, Naoko K. Regulating Subcellular Metal Homeostasis: The Key to Crop Improvement. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
52. [1.1] BASHIR, Khurram - SEKI, Motoaki - NISHIZAWA, Naoko K. The transport of essential micronutrients in rice. In MOLECULAR BREEDING. ISSN 1380-3743, 2019, vol. 39, no. 12, pp., Registrované v: WOS
53. [1.1] BASHMAKOVA, E. B. - PASHKOVSKIY, P. P. - RADYUKINA, N. L. - KUZNETSOV, VI. V. Possible mechanism of iron deficit development in *Mimulus guttatus* plants exposed to joint action of nickel and zinc salts. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2015, vol. 62, no. 6, pp. 761-771., Registrované v: WOS
54. [1.1] BASKAR, Venkidasamy - NAYEEM, Safia - KUPPURAJ, Sree Preethy - MUTHU, Thiruvengadam - RAMALINGAM, Sathishkumar. Assessment of the effects of metal oxide nanoparticles on the growth, physiology and metabolic responses in in vitro grown eggplant (*Solanum melongena*). In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
55. [1.1] BATISTA BERNARDES, Rafaella Ferreira - QUINTAU LANA, Regina Maria - RODRIGUES OLIVEIRA, Laura Rayane - SEVERINO DE MENEZES FREITAS, Renato Aurelio - DE CAMARGO, Reginaldo - MARQUES PIRES, Danyela Cristina. ACCUMULATION OF SODIUM AND HEAVY METALS IN SOIL CULTIVATED WITH *Corymbia citriodora* AFTER THE APPLICATION OF SWINE WASTEWATER. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2020, vol. 36, no. 3, pp. 992-1002. Dostupné na: <https://doi.org/10.14393/BJ-v36n3a2020-39509>., Registrované v: WOS
56. [1.1] BAYCU, G. - TOLUNAY, D. - OZDEN, H. - CSATARI, I. - KARADAG, S. - AGBA, T. - ROGNES, S. E. An Abandoned Copper Mining Site in Cyprus and Assessment of Metal Concentrations in Plants and Soil. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2015, vol. 17, no. 7, pp. 622-631., Registrované v: WOS
57. [1.1] BENYO, Daniel - HORVATH, Edit - NEMETH, Edit - LEVICZKY, Tuende - TAKACS, Kinga - LEHOTAI, Nora - FEIGL, Gabor - KOLBERT, Zsuzsanna - OERDOEG, Attila - GALLE, Robert - CSISZAR, Jolan - SZABADOS, Laszlo - ERDEI, Laszlo - GALLE, Agnes. Physiological and molecular responses to heavy metal stresses suggest different detoxification mechanism of *Populus deltoides* and *P. x canadensis*. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 201, no., pp. 62-70., Registrované v: WOS
58. [1.1] BERMANEC, Vladimir - VIDAKOVIC-CIFREK, Zeljka - FIKET, Zeljka - TKALEC, Mirta - KAMPIC, Stefica - KNIEWALD, Goran. Influence of digested wastewater sludge on early growth of the perennial ryegrass (*Lolium perenne* L.). In ENVIRONMENTAL EARTH SCIENCES. ISSN 1866-6280, 2016, vol. 75, no. 1, pp., Registrované v: WOS
59. [1.1] BERNARDY, Katieli - FARIAS, Julia Gomes - PEREIRA, Aline Soares - SEVERO DORNELES, Athos Odin - BERNARDY, Daniele -

- TABALDI, Luciane Almeri - NEVES, Vinicius Machado - DRESSLER, Valderi Luiz - NICOLOSO, Fernando Teixeira. Plants' genetic variation approach applied to zinc contamination: secondary metabolites and enzymes of the antioxidant system in *Pfaffia glomerata* accessions. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 253, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.126692>., Registrované v: WOS
60. [1.1] BHATTACHARYA, Preeti Tomar - MISRA, Satya Ranjan - HUSSAIN, Mohsina. Nutritional Aspects of Essential Trace Elements in Oral Health and Disease: An Extensive Review. In *SCIENTIFICA*. ISSN 2090-908X, 2016, vol., no., pp., Registrované v: WOS
61. [1.1] BHATTI, Sandip Singh - SAMBYAL, Vasudha - NAGPAL, Avinash Kaur. Analysis of Genotoxicity of Agricultural Soils and Metal (Fe, Mn, and Zn) Accumulation in Crops. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH*. ISSN 1735-6865, 2018, vol. 12, no. 4, pp. 439-449., Registrované v: WOS
62. [1.1] BHATT, Rajan - HOSSAIN, Akbar - SHARMA, Pardeep. Zinc biofortification as an innovative technology to alleviate the zinc deficiency in human health: a review. In *OPEN AGRICULTURE*. ISSN 2391-9531, 2020, vol. 5, no. 1, pp. 176-187. Dostupné na: <https://doi.org/10.1515/opag-2020-0018>., Registrované v: WOS
63. [1.1] BIBBIANI, Susanna - COLZI, Ilaria - TAITI, Cosimo - NISSIM, Werther Guidi - PAPINI, Alessio - MANCUSO, Stefano - GONNELLI, Cristina. Smelling the metal: Volatile organic compound emission under Zn excess in the mint *Tetradenia riparia*. In *PLANT SCIENCE*. ISSN 0168-9452, 2018, vol. 271, no., pp. 1-8., Registrované v: WOS
64. [1.1] BIRCA, Alexandra Catalina - NEACSU, Ionela Andreea - VASILE, Otilia Ruxandra - CIUCA, Ion - VASILE, Ion Mihai - FAYEQ, Mohammed Alqasim - VASILE, Bogdan Stefan. Mg-Zn alloys, most suitable for biomedical applications. In *ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY*. ISSN 1220-0522, 2018, vol. 59, no. 1, pp. 49-54., Registrované v: WOS
65. [1.1] BITYUTSKII, Nikolai - YAKKONEN, Kirill - PETROVA, Anastasiya - NADPOROZHSKAYA, Marina. Xylem sap mineral analyses as a rapid method for estimation plant-availability of Fe, Zn and Mn in carbonate soils: a case study in cucumber. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9516, 2017, vol. 17, no. 2, pp. 279-290., Registrované v: WOS
66. [1.1] BLANCO, Juan A. Suitability of Totorá (*Schoenoplectus californicus* (CA Mey.) Sojak) for Its Use in Constructed Wetlands in Areas Polluted with Heavy Metals. In *SUSTAINABILITY*. ISSN 2071-1050, 2019, vol. 11, no. 1, pp., Registrované v: WOS
67. [1.1] BOROWIAK, Klaudia - GASECKA, Monika - MLECZEK, Mirosław - DABROWSKI, Jędrzej - CHADZINIKOLAU, Tamara - MAGDZIAK, Zuzanna - GOLINSKI, Piotr - RUTKOWSKI, Paweł - KOZUBIK, Tomisław. Photosynthetic activity in relation to chlorophylls, carbohydrates, phenolics and growth of a hybrid *Salix purpurea* x *triandra* x *viminialis* 2 at various Zn concentrations. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2015, vol. 37, no. 8, pp., Registrované v: WOS
68. [1.1] BOTHE, Hermann - SLOMKA, Aneta. Divergent biology of facultative heavy metal plants. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN

- 0176-1617, 2017, vol. 219, no., pp. 45-61., Registrované v: WOS
69. [1.1] BRACKX, Gwennhael - GUINOISEAU, Damien - DUPONCHEL, Ludovic - GELABERT, Alexandre - REICHEL, Victoria - ZRIG, Samia - DI MEGLIO, Jean-Marc - BENEDETTI, Marc F. - GAILLARDET, Jerome - CHARRON, Gaelle. A frugal implementation of Surface Enhanced Raman Scattering for sensing Zn²⁺ in freshwaters In depth investigation of the analytical performances. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-58647-7>., Registrované v: WOS
70. [1.1] BRENNAN, R. F. - PENROSE, B. - BELL, R. W. Micronutrients limiting pasture production in Australia. In CROP & PASTURE SCIENCE. ISSN 1836-0947, 2019, vol. 70, no. 12, pp. 1053-1064., Registrované v: WOS
71. [1.1] BRUGGER, Joel. Zinc. In ENCYCLOPEDIA OF GEOCHEMISTRY: A COMPREHENSIVE REFERENCE SOURCE ON THE CHEMISTRY OF THE EARTH. ISSN 1388-4360, 2018, vol., no., pp. 1521-1524., Registrované v: WOS
72. [1.1] CABOT, Catalina - MARTOS, Soledad - LLUGANY, Merce - GALLEGO, Berta - TOLRA, Roser - POSCHENRIEDER, Charlotte. A Role for Zinc in Plant Defense Against Pathogens and Herbivores. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
73. [1.1] CAI, Hongmei - HUANG, Sheng - CHE, Jing - YAMAJI, Naoki - MA, Jian Feng. The tonoplast-localized transporter OsHMA3 plays an important role in maintaining Zn homeostasis in rice. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2019, vol. 70, no. 10, pp. 2717-2725., Registrované v: WOS
74. [1.1] CAI, Yimin - XU, Weibiao - WANG, Meie - CHEN, Weiping - LI, Xuzhi - LI, Yonghui - CAI, Yaohui. Mechanisms and uncertainties of Zn supply on regulating rice Cd uptake. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2019, vol. 253, no., pp. 959-965., Registrované v: WOS
75. [1.1] CAKMAK, I. . - KUTMAN, U. B. Agronomic biofortification of cereals with zinc: a review. In EUROPEAN JOURNAL OF SOIL SCIENCE. ISSN 1351-0754, 2018, vol. 69, no. 1, pp. 172-180., Registrované v: WOS
76. [1.1] CALDELAS, Cristina - WEISS, Dominik Jakob. Zinc Homeostasis and isotopic fractionation in plants: a review. In PLANT AND SOIL. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 17-46., Registrované v: WOS
77. [1.1] CAMARGO GAI, Ana Paula - DOS SANTOS, Daniela Soares - VIEIRA, Evandro Alves. Effects of zinc excess on antioxidant metabolism, mineral content and initial growth of *Handroanthus impetiginosus* (Mart. ex DC.) Mattos and *Tabebuia roseoalba* (Ridl.) Sandwith. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2017, vol. 144, no., pp. 88-99., Registrované v: WOS
78. [1.1] CAMPOS, Ana Carolina A. L. - KRUIJER, Willem - ALEXANDER, Ross - AKKERS, Robert C. - DANKU, John - SALT, David E. - AARTS, Mark G. M. Natural variation in *Arabidopsis thaliana* reveals shoot ionome, biomass, and gene expression changes as biomarkers for zinc deficiency tolerance. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 13, pp. 3643-3656., Registrované v: WOS

79. [1.1] CANDAN, Nilgun - CAKMAK, Ismail - OZTURK, Levent. Zinc-biofortified seeds improved seedling growth under zinc deficiency and drought stress in durum wheat. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2018, vol. 181, no. 3, pp. 388-395., Registrované v: WOS
80. [1.1] CAPPAL, Jennifer J. - YETTER, Crystal - FAKRA, Sirine - CAPPAL, Patrick J. - DETAR, Rachael - LANDES, Corbett - PILON-SMITS, Elizabeth A. H. - SIMMONS, Mark P. Evolution of selenium hyperaccumulation in Stanleya (Brassicaceae) as inferred from phylogeny, physiology and X-ray microprobe analysis. In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 205, no. 2, pp. 583-595., Registrované v: WOS
81. [1.1] CARBALLO-VALDÉS, M. E; MARÍNEZ, A.; SALGAGO, I.; PÉRAT, L.; CRUZ, M.; LIVA, María B; ALLEYNE, S.; RODRÍGUEZ M., M; GARZA, Y. Standardization of variables involved in cadmium and zinc microbial removal from aqueous solutions. IN Biotecnología Aplicada, 2017, p. 1221-1225, Registrované v: WOS
82. [1.1] CARBONARE, Laura Dalle - WHITE, Mark D. - SHUKLA, Vinay - FRANCINI, Alessandra - PERATA, Pierdomenico - FLASHMAN, Emily - SEBASTIANI, Luca - LICAUSI, Francesco. Zinc Excess Induces a Hypoxia-Like Response by Inhibiting Cysteine Oxidases in Poplar Roots. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2019, vol. 180, no. 3, pp. 1614-1628., Registrované v: WOS
83. [1.1] CARILLO, Petronia - KYRATZIS, Angelos - KYRIACOU, Marios C. - DELL'AVERSANA, Emilia - FUSCO, Giovanna Marta - CORRADO, Giandomenico - ROUPHAEL, Youssef. Biostimulatory Action of Arbuscular Mycorrhizal Fungi Enhances Productivity, Functional and Sensory Quality in 'Piennolo del Vesuvio' Cherry Tomato Landraces. In AGRONOMY-BASEL, 2020, vol. 10, no. 6, pp. Dostupné na: <https://doi.org/10.3390/agronomy10060911>., Registrované v: WOS
84. [1.1] CARVALHO, Ana - REIS, Sara - PAVIA, Ivo - LIMA-BRITO, Jose Eduardo. Influence of seed priming with iron and/or zinc in the nucleolar activity and protein content of bread wheat. In PROTOPLASMA. ISSN 0033-183X, 2019, vol. 256, no. 3, pp. 763-775., Registrované v: WOS
85. [1.1] CARVALHO, Mina T. Villafort - PONGRAC, Paula - MUMM, Roland - VAN ARKEL, Jeroen - VAN AELST, Adriaan - JEROMEL, Luka - VAVPETIC, Primož - PELICON, Primož - AARTS, Mark G. M. Gomphrena clausenii, a novel metal-hypertolerant bioindicator species, sequesters cadmium, but not zinc, in vacuolar oxalate crystals. In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 208, no. 3, pp. 763-775., Registrované v: WOS
86. [1.1] CASTILLO-GONZALEZ, Jorge - OJEDA-BARRIOS, Dimaris - HERNANDEZ-RODRIGUEZ, Adriana - CECILIA GONZALEZ-FRANCO, Ana - ROBLES-HERNANDEZ, Loreto - ROGELIO LOPEZ-OCHOA, Gustavo. ZINC METALLOENZYMES IN PLANTS. In INTERCIENCIA. ISSN 0378-1844, 2018, vol. 43, no. 4, pp. 242-248., Registrované v: WOS
87. [1.1] CASTRO, Pedro Humberto - LILAY, Grmay H. - MUNOZ-MERIDA, Antonio - SCHJOERRING, Jan K. - AZEVEDO, Herlander - ASSUNCAO, Ana G. L. Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

88. [1.1] CLEMENS, Stephan. How metal hyperaccumulating plants can advance Zn biofortification. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 111-120., Registrované v: WOS
89. [1.1] COJOCARU, Paula - GUSIATIN, Zygmunt Mariusz - CRETESCU, Igor. Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (*Brassica napus*). In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2016, vol. 23, no. 11, pp. 10693-10701., Registrované v: WOS
90. [1.1] COLGAN, Matthew S. - MARTIN, Roberta E. - BALDECK, Claire A. - ASNER, Gregory P. Tree Foliar Chemistry in an African Savanna and Its Relation to Life History Strategies and Environmental Filters. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS
91. [1.1] CORNU, Jean-Yves - DEINLEIN, Ulrich - HOERETH, Stephan - BRAUN, Manuel - SCHMIDT, Holger - WEBER, Michael - PERSSON, Daniel P. - HUSTED, Soren - SCHJOERRING, Jan K. - CLEMENS, Stephan. Contrasting effects of nicotianamine synthase knockdown on zinc and nickel tolerance and accumulation in the zinc/cadmium hyperaccumulator *Arabidopsis halleri*. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2015, vol. 206, no. 2, pp. 738-750., Registrované v: WOS
92. [1.1] COSTEROUSSSE, Benjamin - SCHONHOLZER-MAUCLAIRE, Laurie - FROSSARD, Emmanuel - THONAR, Cecile. Identification of Heterotrophic Zinc Mobilization Processes among Bacterial Strains Isolated from Wheat Rhizosphere (*Triticum aestivum* L.). In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 1, pp., Registrované v: WOS
93. [1.1] COTA-RUIZ, Keni - YE, Yuqing - VALDES, Carolina - DENG, Chaoyi - WANG, Yi - HERNANDEZ-VIEZCAS, Jose A. - DUARTE-GARDEA, Maria - GARDEA-TORRESDEY, Jorge L. Copper nanowires as nanofertilizers for alfalfa plants: Understanding nano-bio systems interactions from microbial genomics, plant molecular responses and spectroscopic studies. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2020, vol. 742, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2020.140572>., Registrované v: WOS
94. [1.1] COUDERA, Eleonore - MATTIELLI, Nadine - DROUET, Thomas - SMOLDERS, Erik - DELVAUX, Bruno - ISERENTANT, Anne - MEEUS, Coralie - MAERSCHALK, Claude - OPFERGELT, Sophie - HOUBEN, David. Transpiration flow controls Zn transport in *Brassica napus* and *Lolium multiflorum* under toxic levels as evidenced from isotopic fractionation. In *COMPTES RENDUS GEOSCIENCE*. ISSN 1631-0713, 2015, vol. 347, no. 7-8, pp. 386-396., Registrované v: WOS
95. [1.1] CRISTALDI, Antonio - CONTI, Gea Oliveri - JHO, Eun Hea - ZUCCARELLO, Pietro - GRASSO, Alfina - COPAT, Chiara - FERRANTE, Margherita. Phytoremediation of contaminated soils by heavy metals and PAHs. A brief review. In *ENVIRONMENTAL TECHNOLOGY & INNOVATION*. ISSN 2352-1864, 2017, vol. 8, no., pp. 309-326., Registrované v: WOS
96. [1.1] CRISTALDI, Antonio - COPAT, Chiara - CONTI, Gea Oliveri - ZUCCARELLO, Pietro - GRASSO, Alfina - FERRANTE, Margherita. Phytoremediation. In *HANDBOOK OF ENVIRONMENTAL REMEDIATION: CLASSIC AND MODERN TECHNIQUES*, 2020, vol., no., pp. 268-298., Registrované v: WOS

97. [1.1] CRUZ-JIMENEZ, G. - LOREDO-PORTALES, R. - DEL RIO-SALAS, R. - MORENO-RODRIGUEZ, V - CASTILLO-MICHEL, H. - RAMIRO-BAUTISTA, L. R. - AQUILANTI, G. - DE LA ROSA-ALVAREZ, Ma G. - ROCHA-AMADOR, D. O. Multi-synchrotron techniques to constrain mobility and speciation of Zn associated with historical mine tailings. In CHEMICAL GEOLOGY. ISSN 0009-2541, 2020, vol. 558, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemgeo.2020.119866>., Registrované v: WOS
98. [1.1] CUCHIARA, Cristina Copstein - LARRE, Cristina Ferreira - PETERS, Jose Antonio. Copper and zinc interactions: morphophysiological responses in sweet potato plants (*Ipomoea batatas* L.). In IHERINGIA SERIE BOTANICA. ISSN 0073-4705, 2017, vol. 72, no. 1, pp. 142-149., Registrované v: WOS
99. [1.1] DA CRUZ, Tatiana N. M. - SAVASSA, Susilaine M. - MONTANHA, Gabriel S. - ISHIDA, Juliane K. - DE ALMEIDA, Eduardo - TSAI, Siu M. - LAVRES JUNIOR, Jose - PEREIRA DE CARVALHO, Hudson W. A new glance on root-to-shoot in vivo zinc transport and time-dependent physiological effects of ZnSO₄ and ZnO nanoparticles on plants. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
100. [1.1] DA SILVA, Rodrigo Ferreira - DA ROS, Clovis Orlando - ANTONIOLLI, Zaida Ines - GROLLI, Andre Luis - SCHEID, Douglas Leandro - BERTOLLO, Gilvan Moises - MISSIO, Evandro Luis. GROWTH AND TOLERANCE OF *Enterolobium contortisiliquum* Vell. SEEDLINGS GROWN IN CONTAMINATED SOIL WITH ZINC. In CIENCIA FLORESTAL. ISSN 0103-9954, 2018, vol. 28, no. 3, pp. 979-986., Registrované v: WOS
101. [1.1] DA SILVA, Rodrigo F. - WEIRICH, Sidinei W. - DA ROS, Clovis O. - SCHEID, Douglas L. - GROLLI, Andre L. - VIEL, Patricia. Accumulation and translocation of zinc in seedlings of species from genera *Eucalyptus* and *Corymbia*. In REVISTA BRASILEIRA DE ENGENHARIA AGRICOLA E AMBIENTAL. ISSN 1807-1929, 2015, vol. 19, no. 11, pp. 1114-1120., Registrované v: WOS
102. [1.1] DADE, Jessica - DUBOIS, Juwen C. - PASULA, Rajamouli - DONNELL, Anna M. - CARUSO, Joseph A. - SMULIAN, A. George - DEEPE, George S. HcZrt2, a zinc responsive gene, is indispensable for the survival of *Histoplasma capsulatum* in vivo. In MEDICAL MYCOLOGY. ISSN 1369-3786, 2016, vol. 54, no. 8, pp. 865-875., Registrované v: WOS
103. [1.1] DALIR, Neda - TANDY, Susan - GRAMLICH, Anja - KHOSHGOFTARMANESH, Amir - SCHULIN, Rainer. Effects of nickel on zinc uptake and translocation in two wheat cultivars differing in zinc efficiency. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2017, vol. 134, no., pp. 96-101., Registrované v: WOS
104. [1.1] DANIEL LIRA-MORALES, Juan - VARELA-BOJORQUEZ, Nancy - BERENICE MONTOYA-ROJO, Magaly - ADRIANA SANUDO-BARAJAS, J. The role of ZIP proteins in zinc assimilation and distribution in plants: current challenges. In CZECH JOURNAL OF GENETICS AND PLANT BREEDING. ISSN 1212-1975, 2019, vol. 55, no. 2, pp. 45-54., Registrované v: WOS
105. [1.1] DAS, Arpita - LAHA, Samrat - MANDAL, Sanchita - PAL, Sukanta - SIDDIQUI, Mohammed Wasim. Preharvest Biofortification of Horticultural Crops. In PREHARVEST MODULATION OF POSTHARVEST FRUIT AND VEGETABLE QUALITY, 2018, vol., no., pp. 381-434.,

Registrované v: WOS

106. [1.1] DE BIASI, Margherita G. - MARABOTTINI, Rosita - PAOLACCI, Anna Rita - CIAFFI, Mario - NALI, Cristina - LORENZINI, Giacomo - BDIANI, Maurizio. On the interactions among zinc availability and responses to ozone stress in durum wheat seedlings. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 9, pp. 8181-8189., Registrované v: WOS

107. [1.1] DE CARVALHO, Lais Pessanha - HELD, Jana - TENORIO DE MELO, Edesio Jose. Essential and nonessential metal effects on extracellular Leishmania amazonensis in vitro. In EXPERIMENTAL PARASITOLOGY. ISSN 0014-4894, 2020, vol. 209, no., pp. Dostupné na:

<https://doi.org/10.1016/j.exppara.2019.107826>., Registrované v: WOS

108. [1.1] DE LA RIVA, Enrique G. - VILLAR, Rafael - PEREZ-RAMOS, Ignacio M. - LUIS QUERO, Jose - MATIAS, Luis - POORTER, Lourens - MARANON, Teodoro. Relationships between leaf mass per area and nutrient concentrations in 98 Mediterranean woody species are determined by phylogeny, habitat and leaf habit. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2018, vol. 32, no. 2, pp. 497-510., Registrované v: WOS

109. [1.1] DE OLIVEIRA, Alexandre Bosco - VENDRAME, Wagner - COSTA, Anne Pinheiro - LONDE, Luciana C. N. QUANTITATIVE ANALYSIS OF JATROPHA GROWTH: MICRONUTRIENT DELIVERY SYSTEM AND NPK COMBINED EFFECTS. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2018, vol. 34, no. 6, pp. 17-27., Registrované v: WOS

110. [1.1] DE OLIVEIRA, Alexandre Bosco - COSTA, Anne Pinheiro - LONDE, Luciana C. N. - SCHAFFER, Bruce - VARGAS, Ana - VENDRAME, Wagner A. EFFECTIVENESS OF A MICRONUTRIENT DELIVERY SYSTEM FERTILIZER IN JATROPHA PLANTS IS RELATED TO ENHANCED PHOTOSYNTHESIS, GAS EXCHANGE AND BIOMASS ALLOCATION. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2018, vol. 34, no. 6, pp. 97-107., Registrované v: WOS

111. [1.1] DE SOUZA, Bruna Pereira - SILVA, Enilson De Barros - MONTEIRO DA CRUZ, Maria Do Ceu - AMORIM, Edson Perito - RODRIGUES DONATO, Sergio Luiz. MICRONUTRIENTS DEFICIENCY ON THE NUTRITIONAL STATUS OF BANANA PRATA SEEDLINGS. In REVISTA BRASILEIRA DE FRUTICULTURA. ISSN 0100-2945, 2016, vol. 38, no. 3, pp., Registrované v: WOS

112. [1.1] DE SOUZA, Guilherme Amaral - DE PINHO, Paulo Jorge - RIBEIRO BASTOS, Ana Rosa - BOTREL, Elberis Pereira - DE CARVALHO, Janice Guedes. CHARACTERIZATION OF VISUAL SYMPTOMS, DRY MATTER PRODUCTION AND BIOMETRIC INDEX IN CASTOR BEAN UNDER MICRONUTRIENTS DEFICIENCY. In REVISTA CAATINGA. ISSN 0100-316X, 2015, vol. 28, no. 1, pp. 100-108., Registrované v: WOS

113. [1.1] DESHPANDE, Paresh - DAPKEKAR, Ashwin - OAK, Manoj - PAKNIKAR, Kishore - RAJWADE, Jyutika. Nanocarrier-mediated foliar zinc fertilization influences expression of metal homeostasis related genes in flag leaves and enhances gluten content in durum wheat. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS

114. [1.1] DHAKSHINAMOORTHY, Amarajothi - NAVALON, Sergio - ASIRI, Abdullah M. - GARCIA, Hermenegildo. Gold-Nanoparticle-Decorated

- Metal-Organic Frameworks for Anticancer Therapy. In CHEMMEDCHEM. ISSN 1860-7179, 2020, vol. 15, no. 23, pp. 2236-2256. Dostupné na: <https://doi.org/10.1002/cmdc.202000562>., Registrované v: WOS
115. [1.1] DIAPARI, Marwan - SINDHU, Anoop - WARKENTIN, Thomas D. - BETT, Kirstin - TAR'AN, Bunyamin. Population structure and marker-trait association studies of iron, zinc and selenium concentrations in seed of field pea (*Pisum sativum* L.). In MOLECULAR BREEDING. ISSN 1380-3743, 2015, vol. 35, no. 1, pp., Registrované v: WOS
116. [1.1] DIETTERICH, Lee H. - GONNEAU, Cedric - CASPER, Brenda B. Arbuscular mycorrhizal colonization has little consequence for plant heavy metal uptake in contaminated field soils. In ECOLOGICAL APPLICATIONS. ISSN 1051-0761, 2017, vol. 27, no. 6, pp. 1862-1875., Registrované v: WOS
117. [1.1] DINAKE, Pogisego - MAPHANE, Onneetse - SEBOGISI, Karabo - KAMWI, Obed. Pollution status of shooting range soils from Cd, Cu, Mn, Ni and Zn found in ammunition. In COGENT ENVIRONMENTAL SCIENCE. ISSN 2331-1843, 2018, vol. 4, no. 1, pp., Registrované v: WOS
118. [1.1] DINESH, R. - SRINIVASAN, V. - HAMZA, S. - SARATHAMBAL, C. - GOWDA, S. J. Anke - GANESHAMURTHY, A. N. - GUPTA, S. B. - NAIR, V. Aparna - SUBILA, K. P. - LIJINA, A. - DIVYA, V. C. Isolation and characterization of potential Zn solubilizing bacteria from soil and its effects on soil Zn release rates, soil available Zn and plant Zn content. In GEODERMA. ISSN 0016-7061, 2018, vol. 321, no., pp. 173-186., Registrované v: WOS
119. [1.1] DIONISIO, Giuseppe - UDDIN, Mohammad Nasir - VINCZE, Eva. Enrichment and Identification of the Most Abundant Zinc Binding Proteins in Developing Barley Grains by Zinc-IMAC Capture and Nano LC-MS/MS. In PROTEOMES. ISSN 2227-7382, 2018, vol. 6, no. 1, pp., Registrované v: WOS
120. [1.1] DLUDLU, Meshack N. - CHIMPHANGO, Samson B. M. - STIRTON, Charles H. - MUASYA, A. Muthama. Distinct edaphic habitats are occupied by discrete legume assemblages with unique indicator species in the Cape Peninsula of South Africa. In JOURNAL OF PLANT ECOLOGY. ISSN 1752-9921, 2018, vol. 11, no. 4, pp. 632-644., Registrované v: WOS
121. [1.1] DMITRIEV, Alexey A. - KRASNOV, George S. - ROZHMINA, Tatiana A. - ZYABLITSIN, Alexander V. - SNEZHKINA, Anastasiya V. - FEDOROVA, Maria S. - PUSHKOVA, Elena N. - KEZIMANA, Parfait - NOVAKOVSKIY, Roman O. - POVKHOVA, Liubov V. - SMIRNOVA, Marina I. - MURAVENKO, Olga V. - BOLSHEVA, Nadezhda L. - KUDRYAVTSEVA, Anna V. - MELNIKOVA, Nataliya V. Flax (*Linum usitatissimum* L.) response to non-optimal soil acidity and zinc deficiency. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no., pp., Registrované v: WOS
122. [1.1] DOBRITZSCH, Dirk - GRANCHAROV, Konstantin - HERMSEN, Corinna - KRAUSS, Gerd-Joachim - SCHAUMLOFFEL, Dirk. Inhibitory effect of metals on animal and plant glutathione transferases. In JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY. ISSN 0946-672X, 2020, vol. 57, no., pp. 48-56. Dostupné na: <https://doi.org/10.1016/j.jtemb.2019.09.007>., Registrované v: WOS
123. [1.1] DU, Hong - LIANG, Honghao - JIANG, Yang - QU, Xiaoxiao - YAN, Haibo - LIU, Xiaojuan. Proteome responses of *Gracilaria lemaneiformis*

exposed to lead stress. In MARINE POLLUTION BULLETIN. ISSN 0025-326X, 2018, vol. 135, no., pp. 311-317., Registrované v: WOS 124. [1.1] DU, Jie - ZENG, Jian - MING, Xiaoyu - HE, Qinglin - TAO, Qi - JIANG, Mingyan - GAO, Suping - LI, Xi - LEI, Ting - PAN, Yuanzhi - CHEN, Qibing - LIU, Shiliang - YU, Xiaofang. The presence of zinc reduced cadmium uptake and translocation in *Cosmos bipinnatus* seedlings under cadmium/zinc combined stress. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2020, vol. 151, no., pp. 223-232. Dostupné na: <https://doi.org/10.1016/j.plaphy.2020.03.019>., Registrované v: WOS 125. [1.1] EGUCHI, Masatake - KIMURA, Kazuhiko - MAKINO, Amane - ISHIDA, Hiroyuki. Autophagy is induced under Zn limitation and contributes to Zn-limited stress tolerance in *Arabidopsis* (*Arabidopsis thaliana*). In SOIL SCIENCE AND PLANT NUTRITION. ISSN 0038-0768, 2017, vol. 63, no. 4, pp. 342-350., Registrované v: WOS 126. [1.1] EID, Ebrahim M. - ALAMRI, Saad A. M. - SHALTOUT, Kamal H. - GALAL, Tarek M. - AHMED, Mohamed T. - BRIMA, Eid L. - SEWELAM, Nasser. A sustainable food security approach: Controlled land application of sewage sludge recirculates nutrients to agricultural soils and enhances crop productivity. In FOOD AND ENERGY SECURITY. ISSN 2048-3694, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.1002/fes3.197>., Registrované v: WOS 127. [1.1] ELSHEERY, Nabil I. - HELALY, Mohamed N. - EL-HOSEINY, Hanan M. - ALAM-ELDEIN, Shamel M. Zinc Oxide and Silicone Nanoparticles to Improve the Resistance Mechanism and Annual Productivity of Salt-Stressed Mango Trees. In AGRONOMY-BASEL, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/agronomy10040558>., Registrované v: WOS 128. [1.1] EL-MOGY, Mohamed M. - MAHMOUD, Abdel Wahab M. - EL-SAWY, Mohamed B. - PARMAR, Aditya. Pre-Harvest Foliar Application of Mineral Nutrients to Retard Chlorophyll Degradation and Preserve Bio-Active Compounds in Broccoli. In AGRONOMY-BASEL, 2019, vol. 9, no. 11, pp., Registrované v: WOS 129. [1.1] EMILIANI, Julia - LLATANCE OYARCE, Wendi G. - DANIELA BERGARA, C. - SALVATIERRA, Lucas M. - NOVO, Luis A. B. - PEREZ, Leonardo M. Variations in the Phytoremediation Efficiency of Metal-polluted Water with *Salvinia biloba*: Prospects and Toxicological Impacts. In WATER, 2020, vol. 12, no. 6, pp. Dostupné na: <https://doi.org/10.3390/w12061737>., Registrované v: WOS 130. [1.1] ESHAGHI, Ebrahim - NOSRATI, Rahim - OWLIA, Parviz - MALBOOBI, Mohammad Ali - GHASEMINEJAD, Pejman - GANJALI, Mohammad Reza. Zinc solubilization characteristics of efficient siderophore-producing soil bacteria. In IRANIAN JOURNAL OF MICROBIOLOGY. ISSN 2008-3289, 2019, vol. 11, no. 5, pp. 419-430., Registrované v: WOS 131. [1.1] ESPERSCHUETZ, J. - ANDERSON, C. - BULMAN, S. - LENSE, O. - HORSWELL, J. - DICKINSON, N. - HOFMANN, R. - ROBINSON, B. H. Production of Biomass Crops Using Biowastes on Low-Fertility Soil: 1. Influence of Biowastes on Plant and Soil Quality. In JOURNAL OF ENVIRONMENTAL QUALITY. ISSN 0047-2425, 2016, vol. 45, no. 6, pp. 1960-1969., Registrované v: WOS

132. [1.1] EVENS, Nicholas P. - BUCHNER, Peter - WILLIAMS, Lorraine E. - HAWKESFORD, Malcolm J. The role of ZIP transporters and group F bZIP transcription factors in the Zn-deficiency response of wheat (*Triticum aestivum*). In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 92, no. 2, pp. 291-304., Registrované v: WOS
133. [1.1] FAIZAN, Mohammad - FARAZ, Ahmad - HAYAT, Shamsul. Effective use of zinc oxide nanoparticles through root dipping on the performance of growth, quality, photosynthesis and antioxidant system in tomato. In *JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0971-7811, 2020, vol. 29, no. 3, pp. 553-567. Dostupné na: <https://doi.org/10.1007/s13562-019-00525-z>., Registrované v: WOS
134. [1.1] FANCELLO, Dario - SCALCO, Jessica - MEDAS, Daniela - RODEGHERO, Elisa - MARTUCCI, Annalisa - MENEHINI, Carlo - DE GIUDICI, Giovanni. XRD-Thermal Combined Analyses: An Approach to Evaluate the Potential of Phytoremediation, Phytomining, and Biochar Production. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*, 2019, vol. 16, no. 11, pp., Registrované v: WOS
135. [1.1] FARAHZADI, Helal Nemat - ARBABIAN, Sedigheh - MAID, Ahamd - TAJADOD, Golnaz. Long-term Effect Different Concentrations of Zn (NO₃)(2) on the Development of Male and Female Gametophytes of *Capsicum annuum* L. var California Wonder. In *CARYOLOGIA*. ISSN 0008-7114, 2020, vol. 73, no. 1, pp. 145-154. Dostupné na: <https://doi.org/10.13128/caryologia-174>., Registrované v: WOS
136. [1.1] FATEMI, Hamideh - ZAGHDOUD, Chokri - NORTES, Pedro A. - CARVAJAL, Micaela - DEL CARMEN MARTINEZ-BALLESTA, Maria. Differential Aquaporin Response to Distinct Effects of Two Zn Concentrations after Foliar Application in Pak Choi (*Brassica rapa* L.) Plants. In *AGRONOMY-BASEL*, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/agronomy10030450>., Registrované v: WOS
137. [1.1] FEIGL, Gabor - KOLBERT, Zsuzsanna - LEHOTAI, Nora - MOLNAR, Arpad - OERDOEG, Attila - BORDE, Adam - LASKAY, Gabor - ERDEI, Laszlo. Different zinc sensitivity of Brassica organs is accompanied by distinct responses in protein nitration level and pattern. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2016, vol. 125, no., pp. 141-152., Registrované v: WOS
138. [1.1] FEIGL, Gabor - LEHOTAI, Nora - MOLNAR, Arpad - ORDOG, Attila - RODRIGUEZ-RUIZ, Marta - PALMA, Jose M. - CORPAS, Francisco J. - ERDEI, Laszlo - KOLBERT, Zsuzsanna. Zinc induces distinct changes in the metabolism of reactive oxygen and nitrogen species (ROS and RNS) in the roots of two Brassica species with different sensitivity to zinc stress. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2015, vol. 116, no. 4, pp. 613-625., Registrované v: WOS
139. [1.1] FEIGL, Gabor - MOLNAR, Arpad - SZOLLOSI, Reka - ORDOG, Attila - TOROCSI, Kitti - OLAH, Dora - BODOR, Attila - PEREI, Katalin - KOLBERT, Zsuzsanna. Zinc-induced root architectural changes of rhizotron-grown *B. napus* correlate with a differential nitro-oxidative response. In *NITRIC OXIDE-BIOLOGY AND CHEMISTRY*. ISSN 1089-8603, 2019, vol. 90, no., pp. 55-65., Registrované v: WOS
140. [1.1] FERRARA BARBOSA, Barbara Castanheira - SILVA, Samuel

- Chaves - DE OLIVEIRA, Raphael Ricon - CHALFUN, Antonio. Zinc supply impacts on the relative expression of a metallothionein-like gene in *Coffea arabica* plants. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 179-191., Registrované v: WOS
141. [1.1] FORSHAW, Sam - KNIGHTON, Richard C. - REBER, Jami - PARKER, Jeremy S. - CHMEL, Nikola P. - WILLS, Martin. A strained alkyne-containing bipyridine reagent; synthesis, reactivity and fluorescence properties. In *RSC ADVANCES*, 2019, vol. 9, no. 62, pp. 36154-36161., Registrované v: WOS
142. [1.1] FU, Xing-Zheng - ZHOU, Xue - XING, Fei - LING, Li-Li - CHUN, Chang-Pin - CAO, Li - AARTS, Mark G. M. - PENG, Liang-Zhi. Genome-Wide Identification, Cloning and Functional Analysis of the Zinc/Iron-Regulated Transporter-Like Protein (ZIP) Gene Family in Trifoliate Orange (*Poncirus trifoliata* L. Raf.). In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
143. [1.1] GALLEGO, Berta - MARTOS, Soledad - CABOT, Catalina - BARCELO, Juan - POSCHENRIEDER, Charlotte. Zinc hyperaccumulation substitutes for defense failures beyond salicylate and jasmonate signaling pathways of *Alternaria brassicicola* attack in *Noccaea caerulea*. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2017, vol. 159, no. 4, pp. 401-415., Registrované v: WOS
144. [1.1] GANDHI, A. - MURALIDHARAN, G. Assessment of zinc solubilizing potentiality of *Acinetobacter* sp isolated from rice rhizosphere. In *EUROPEAN JOURNAL OF SOIL BIOLOGY*. ISSN 1164-5563, 2016, vol. 76, no., pp. 1-8., Registrované v: WOS
145. [1.1] GARCIA-GOMEZ, Concepcion - OBRADOR, Ana - GONZALEZ, Demetrio - BABIN, Mar - DOLORES FERNANDEZ, Maria. Comparative effect of ZnO NPs, ZnO bulk and ZnSO₄ in the antioxidant defences of two plant species growing in two agricultural soils under greenhouse conditions. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2017, vol. 589, no., pp. 11-24., Registrované v: WOS
146. [1.1] GARCIA-GOMEZ, Concepcion - GARCIA, Sandra - FRANCISCA OBRADOR, Ana - GONZALEZ, Demetrio - BABIN, Mar - DOLORES FERNANDEZ, Maria. Effects of aged ZnO NPs and soil type on Zn availability, accumulation and toxicity to pea and beet in a greenhouse experiment. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2018, vol. 160, no., pp. 222-230., Registrované v: WOS
147. [1.1] GARG, Neera - SINGH, Sandeep. Mycorrhizal inoculations and silicon fortifications improve rhizobial symbiosis, antioxidant defense, trehalose turnover in pigeon pea genotypes under cadmium and zinc stress. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2018, vol. 86, no. 1, pp. 105-119., Registrované v: WOS
148. [1.1] GAUTAM, Ravindra Kumar - SHARMA, Sanjay Kumar - CHATTOPADHYAYA, Mahesh Chandra. Functionalized Magnetic Nanoparticles for Heavy Metals Removal from Aqueous Solutions. In *HEAVY METALS IN WATER: PRESENCE, REMOVAL AND SAFETY*, 2015, vol., no., pp. 57-85., Registrované v: WOS
149. [1.1] GHADERIAN, S. Majid - GHASEMI, Rasoul - HEIDARI, Hosniye - VAZIRIFAR, Saiede. Effects of Ni on superoxide dismutase and glutathione reductase activities and thiol groups: a comparative study between

Alyssum hyperaccumulator and non-accumulator species. In AUSTRALIAN JOURNAL OF BOTANY. ISSN 0067-1924, 2015, vol. 63, no. 1-2, pp. 65-71., Registrované v: WOS

150. [1.1] GHASAL, Prakash Chand - SHIVAY, Yashbir Singh - POONIYA, Vijay - CHOUDHARY, Mukesh - VERMA, Rakesh Kumar. Zinc partitioning in basmati rice varieties as influenced by Zn fertilization. In CROP JOURNAL. ISSN 2095-5421, 2018, vol. 6, no. 2, pp. 136-147., Registrované v: WOS

151. [1.1] GLINSKA, Slawa - GAPINSKA, Magdalena - MICHLEWSKA, Sylwia - SKIBA, Elzbieta - KUBICKI, Jakub. Analysis of Triticum aestivum seedling response to the excess of zinc. In PROTOPLASMA. ISSN 0033-183X, 2016, vol. 253, no. 2, pp. 367-377., Registrované v: WOS

152. [1.1] GONNEAU, Cedric - MOHANTY, Sanjay K. - DIETTERICH, Lee H. - HWANG, Wei-Ting - WILLENBRING, Jane K. - CASPER, Brenda B. Differential elemental uptake in three pseudo-metallophyte C-4 grasses in situ in the eastern USA. In PLANT AND SOIL. ISSN 0032-079X, 2017, vol. 416, no. 1-2, pp. 149-163., Registrované v: WOS

153. [1.1] GONZALEZ, Agueda - MAR GIL-DIAZ, M. - PINILLA, Paloma - CARMEN LOBO, M. Impact of Cr and Zn on Growth, Biochemical and Physiological Parameters, and Metal Accumulation by Wheat and Barley Plants. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2017, vol. 228, no. 11, pp., Registrované v: WOS

154. [1.1] GOSWAMI, Smita - DIENGDOH, Omega L. - SYIEM, Mayashree B. - PAKSHIRAJAN, Kannan - KIRAN, Mothe Gopi. Zn(II) and Cu(II) removal by Nostoc muscorum: a cyanobacterium isolated from a coal mining pit in Chiehruhphi, Meghalaya, India. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2015, vol. 61, no. 3, pp. 209-215., Registrované v: WOS

155. [1.1] GRAMSS, Gerhard - VOIGT, Klaus-Dieter. Regulation of the mineral concentrations in pea seeds from uranium mine and reference soils diverging extremely in their heavy metal load. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2015, vol. 194, no., pp. 255-266., Registrované v: WOS

156. [1.1] GRAMSS, Gerhard - VOIGT, Klaus-Dieter. Stability of the Inherent Target Metallome in Seed Crops and a Mushroom Grown on Soils of Extreme Mineral Spans. In AGRONOMY-BASEL. ISSN 2073-4395, 2016, vol. 6, no. 1, pp., Registrované v: WOS

157. [1.1] GRASSI, Chiara - CECCHI, Stefano - BALDI, Ada - ZANCHI, Camillo A. - ORLANDINI, Simone - PARDINI, Andrea - NAPOLI, Marco. Crop suitability assessment in remediation of Zn contaminated soil. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125706>., Registrované v: WOS

158. [1.1] GRUJCIC, Djordje - HANSEN, Thomas Hesselhoj - HUSTED, Soren - DRINIC, Milanka - SINGH, Bal Ram. Effect of nitrogen and zinc fertilization on zinc and iron bioavailability and chemical speciation in maize silage. In JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY. ISSN 0946-672X, 2018, vol. 49, no., pp. 269-275., Registrované v: WOS

159. [1.1] GRZESZCZUK, Monika - STEFANIAK, Anna - MELLER, Edward - WYSOCKA, Gabriela. MINERAL COMPOSITION OF SOME

- EDIBLE FLOWERS. In JOURNAL OF ELEMENTOLOGY. ISSN 1644-2296, 2018, vol. 23, no. 1, pp. 151-162., Registrované v: WOS
160. [1.1] GUARINO, Francesco - IMPROTA, Giovanni - TRIASSI, Maria - CICALATELLI, Angela - CASTIGLIONE, Stefano. Effects of Zinc Pollution and Compost Amendment on the Root Microbiome of a Metal Tolerant Poplar Clone. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01677>., Registrované v: WOS
161. [1.1] GUNGOR, Ozge - CESME, Mustafa - CINAR, M. Emin - GOLCU, Aysegul. The new metal-based compound from anticancer drug cytarabine: Spectral, electrochemical, DNA-binding, antiproliferative effect and in silico studies. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2019, vol. 1193, no., pp. 532-543., Registrované v: WOS
162. [1.1] GUO, J. X. - FENG, X. M. - HU, X. Y. - TIAN, G. L. - LING, N. - WANG, J. H. - SHEN, Q. R. - GUO, S. W. Effects of soil zinc availability, nitrogen fertilizer rate and zinc fertilizer application method on zinc biofortification of rice. In JOURNAL OF AGRICULTURAL SCIENCE. ISSN 0021-8596, 2016, vol. 154, no. 4, pp. 584-597., Registrované v: WOS
163. [1.1] GUPTA, Neha - RAM, Hari - KUMAR, Balwinder. Mechanism of Zinc absorption in plants: uptake, transport, translocation and accumulation. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2016, vol. 15, no. 1, pp. 89-109., Registrované v: WOS
164. [1.1] HACISALIHOGU, Gokhan. Zinc (Zn): The Last Nutrient in the Alphabet and Shedding Light on Zn Efficiency for the Future of Crop Production under Suboptimal Zn. In PLANTS-BASEL, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/plants9111471>., Registrované v: WOS
165. [1.1] HAGHIGHATJOU, Maryam - SHIRVANI, Mehran. Sugarcane Bagasse Biochar: Preparation, Characterization, and Its Effects on Soil Properties and Zinc Sorption-desorption. In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. ISSN 0010-3624, 2020, vol. 51, no. 10, pp. 1391-1405. Dostupné na: <https://doi.org/10.1080/00103624.2020.1763383>., Registrované v: WOS
166. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Soil application of zinc improves the growth, yield and grain zinc biofortification of mungbean. In SOIL & ENVIRONMENT. ISSN 2074-9546, 2018, vol. 37, no. 2, pp. 123-128., Registrované v: WOS
167. [1.1] HAIDER, Muhammad Umar - FAROOQ, Muhammad - NAWAZ, Ahmad - HUSSAIN, Mubshar. Foliage Applied Zinc Ensures Better Growth, Yield and Grain Biofortification of Mungbean. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2018, vol. 20, no. 12, pp. 2817-2822., Registrované v: WOS
168. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Zinc Nutrition for Improving the Productivity and Grain Biofortification of Mungbean. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9508, 2020, vol. 20, no. 3, pp. 1321-1335. Dostupné na: <https://doi.org/10.1007/s42729-020-00215-z>., Registrované v: WOS
169. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Optimizing zinc seed priming for improving the growth, yield and grain biofortification of mungbean (Vigna

- radiata (L.) wilczek). In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2020, vol. 43, no. 10, pp. 1438-1446. Dostupné na: <https://doi.org/10.1080/01904167.2020.1730895>., Registrované v: WOS
170. [1.1] HANAKA, Agnieszka - NOWAK, Artur - PLAK, Andrzej - DRESLER, Slawomir - OZIMEK, Ewa - JAROSZUK-SCISEL, Jolanta - WOJCIAK-KOSIOR, Magdalena - SOWA, Ireneusz. Bacterial Isolate Inhabiting Spitsbergen Soil Modifies the Physiological Response of Phaseolus coccineus in Control Conditions and under Exogenous Application of Methyl Jasmonate and Copper Excess. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 8, pp., Registrované v: WOS
171. [1.1] HAO, Zhuan - KUANG, Yuanwen - KANG, Ming. Untangling the influence of phylogeny, soil and climate on leaf element concentrations in a biodiversity hotspot. In FUNCTIONAL ECOLOGY. ISSN 0269-8463, 2015, vol. 29, no. 2, pp. 165-176., Registrované v: WOS
172. [1.1] HARGUINTEGUY, Carlos A. - LUISA PIGNATA, M. - FERNANDEZ-CIRELLI, Alicia. Nickel, lead and zinc accumulation and performance in relation to their use in phytoremediation of macrophytes Myriophyllum aquaticum and Egeria densa. In ECOLOGICAL ENGINEERING. ISSN 0925-8574, 2015, vol. 82, no., pp. 512-516., Registrované v: WOS
173. [1.1] HASSAN, Muhammad Umair - CHATTHA, Muhammad Umer - ULLAH, Aman - KHAN, Imran - QADEER, Abdul - AAMER, Muhammad - KHAN, Aman Ullah - NADEEM, Faisal - KHAN, Tahir Abbas. Agronomic Biofortification to Improve Productivity and Grain Zn Concentration of Bread Wheat. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2019, vol. 21, no. 3, pp. 615-620., Registrované v: WOS
174. [1.1] HAYES, Patrick E. - PEREIRA, Caio Guilherme - CLODE, Peta L. - LAMBERS, Hans. Calcium-enhanced phosphorus toxicity in calcifuge and soil-indifferent Proteaceae along the Jurien Bay chronosequence. In NEW PHYTOLOGIST. ISSN 0028-646X, 2019, vol. 221, no. 2, pp. 764-777., Registrované v: WOS
175. [1.1] HAYES, R. C. - ARA, I. - BADGERY, W. B. - CULVENOR, R. A. - HALING, R. E. - HARRIS, C. A. - LI, G. D. - NORTON, M. R. - ORGILL, S. E. - PENROSE, B. - SMITH, R. W. Prospects for improving perennial legume persistence in mixed grazed pastures of south-eastern Australia, with particular reference to white clover. In CROP & PASTURE SCIENCE. ISSN 1836-0947, 2019, vol. 70, no. 12, pp. 1141-1162., Registrované v: WOS
176. [1.1] HEEREMA, Richard J. - VANLEEUEWEN, Dawn - THOMPSON, Marisa Y. - SHERMAN, Joshua D. - COMEAU, Mary J. - WALWORTH, James L. Soil-application of Zinc-EDTA Increases Leaf Photosynthesis of Immature 'Wichita' Pecan Trees. In JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. ISSN 0003-1062, 2017, vol. 142, no. 1, pp. 27-35., Registrované v: WOS
177. [1.1] HELFENSTEIN, Julian - PAWLOWSKI, Michelle L. - HILL, Curtis B. - STEWART, Jessica - LAGOS-KUTZ, Doris - BOWEN, Charles Roger - FROSSARD, Emmanuel - HARTMAN, Glen L. Zinc deficiency alters soybean susceptibility to pathogens and pests. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2015, vol. 178, no. 6, pp. 896-903., Registrované v: WOS
178. [1.1] HERRERA-AGUDELO, Monica A. - MIRO, Manuel -

- ARRUDA, Marco A. Z. In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4 EPSPS gene) and nontransgenic precursor/successor soybean seeds. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 225, no., pp. 125-131., Registrované v: WOS
179. [1.1] HIPPLER, F. W. R. - BOARETTO, R. M. - QUAGGIO, J. A. - AZEVEDO, R. A. - MATTOS, D. Towards soil management with Zn and Mn: estimates of fertilisation efficacy of Citrus trees. In *ANNALS OF APPLIED BIOLOGY*. ISSN 0003-4746, 2015, vol. 166, no. 3, pp. 484-495., Registrované v: WOS
180. [1.1] HONG, Kibeom - SONG, Daesun - JUNG, Yongwon. Behavior control of membrane-less protein liquid condensates with metal ion-induced phase separation. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-19391-8>., Registrované v: WOS
181. [1.1] HONG, Liwei - ZHANG, Liangjie - LIU, Meiling - WANG, Shengjie - HE, Linjun - YANG, Wanyu - LI, Jingli - YU, Qiaojie - LI, Qingshun Q. - ZHOU, Kefu. Heavy metal rich stone-processing wastewater inhibits the growth and development of plants. In *INTERNATIONAL JOURNAL OF PHYTOREMEDIATION*. ISSN 1522-6514, 2019, vol. 21, no. 5, pp. 479-486., Registrované v: WOS
182. [1.1] HOSSAIN, Md. Babul - SAWADA, Ayumi - NODA, Kaori - KAWASAKI, Michio. Hydathode function and changes in contents of elements in eddo exposed to zinc in hydroponic solution. In *PLANT PRODUCTION SCIENCE*. ISSN 1343-943X, 2017, vol. 20, no. 4, pp. 423-433., Registrované v: WOS
183. [1.1] HSIEH, Ping-Han - KAN, Chia-Cheng - WU, Hsin-Yu - YANG, Hsiu-Chun - HSIEH, Ming-Hsiun. Early molecular events associated with nitrogen deficiency in rice seedling roots. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
184. [1.1] HUANG, Sheng - MA, Jian Feng. Silicon suppresses zinc uptake through down-regulating zinc transporter gene in rice. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2020, vol. 170, no. 4, pp. 580-591. Dostupné na: <https://doi.org/10.1111/ppl.13196>., Registrované v: WOS
185. [1.1] HUDCOVA, Barbora - VITKOVA, Martina - OUREDNICEK, Petr - KOMAREK, Michael. Stability and stabilizing efficiency of Mg-Fe layered double hydroxides and mixed oxides in aqueous solutions and soils with elevated As(V), Pb (II) and Zn(II) contents. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2019, vol. 648, no., pp. 1511-1519., Registrované v: WOS
186. [1.1] HUO, Fangjun - WU, Qing - KANG, Jin - ZHANG, Yongbin - YIN, Caixia. A specific fluorescent probe for zinc ion based on thymolphthalein and its application in living cells. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 262, no., pp. 263-269., Registrované v: WOS
187. [1.1] HUSSAIN, Shahid - SAHAR, Kiran - NAEEM, Asif - ZAFAR-UL-HYE, Muhammad - AON, Muhammad. Combined zinc and nitrogen applications at panicle initiation for zinc biofortification in rice. In *PERIODICUM BIOLOGORUM*. ISSN 0031-5362, 2018, vol. 120, no. 2-3, pp. 105-110., Registrované v: WOS
188. [1.1] CHARLIER, Jean-Benoit - POLESE, Catherine - NOUET,

Cecile - CARNOL, Monique - BOSMAN, Bernard - KRAEMER, Ute - MOTTE, Patrick - HANIKENNE, Marc. Zinc triggers a complex transcriptional and post-transcriptional regulation of the metal homeostasis gene FRD3 in Arabidopsis relatives. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 13, pp. 3865-3878., Registrované v: WOS

189. [1.1] CHEAH, Zhong Xiang - KOPITTKKE, Peter M. - HARPER, Stephen M. - MEYER, Gregor - O'HARE, Tim J. - BELL, Michael J. Speciation and accumulation of Zn in sweetcorn kernels for genetic and agronomic biofortification programs. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 1, pp. 219-227., Registrované v: WOS

190. [1.1] CHEAH, Zhong Xiang - KOPITTKKE, Peter M. - SCHECKEL, Kirk G. - NOERPEL, Matthew R. - BELL, Michael J. Comparison of Zn accumulation and speciation in kernels of sweetcorn and maize differing in maturity. In ANNALS OF BOTANY. ISSN 0305-7364, 2020, vol. 125, no. 1, pp. 185-193. Dostupné na: <https://doi.org/10.1093/aob/mcz179>., Registrované v: WOS

191. [1.1] CHECOVICH, Mariana L. - GALATRO, Andrea - MORICONI, Jorge I. - SIMONTACCHI, Marcela - DUBCOVSKY, Jorge - SANTA-MARIA, Guillermo E. The stay-green phenotype of TaNAM-RNAi wheat plants is associated with maintenance of chloroplast structure and high enzymatic antioxidant activity. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2016, vol. 104, no., pp. 257-265., Registrované v: WOS

192. [1.1] CHENG, Li - ZHAO, Tong - WANG, Hai - ZHU, Yanfang - HU, Ya - WU, Yuxia - JIA, Xumei - ZHU, Zulei - WANG, Yan-xiu. Correlation of the expression of metal tolerance protein genes with zinc accumulation and distribution in Malus halliana seedlings under zinc toxicity stress. In ARID LAND RESEARCH AND MANAGEMENT. ISSN 1532-4982, 2020, vol. 34, no. 3, pp. 336-352., Registrované v: WOS

193. [1.1] CHENG, Li - ZHAO, Tong - WANG, Hai - ZHU, Yanfang - HU, Ya - WU, Yuxia - JIA, Xumei - ZHU, Zulei - WANG, Yan-xiu. Correlation of the expression of metal tolerance protein genes with zinc accumulation and distribution in Malus halliana seedlings under zinc toxicity stress. In ARID LAND RESEARCH AND MANAGEMENT. ISSN 1532-4982, 2020, vol. 34, no. 3, pp. 336-352. Dostupné na: <https://doi.org/10.1080/15324982.2019.1703060>., Registrované v: WOS

194. [1.1] CHENG, Lixiang - ZHANG, Shaomei - YANG, Lili - WANG, Yuping - YU, Bin - ZHANG, Feng. Comparative proteomics illustrates the complexity of Fe, Mn and Zn deficiency-responsive mechanisms of potato (Solanum tuberosum L.) plants in vitro. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 1, pp. 199-217., Registrované v: WOS

195. [1.1] CHENG, Yiran - WANG, Chao - CHAI, Songyue - SHUAI, Wendi - SHA, Lina - ZHANG, Haiqin - KANG, Houyang - FAN, Xing - ZENG, Jian - ZHOU, Yonghong - WANG, Yi. Ammonium N influences the uptakes, translocations, subcellular distributions and chemical forms of Cd and Zn to mediate the Cd/Zn interactions in dwarf polish wheat (Triticum polonicum L.) seedlings. In CHEMOSPHERE. ISSN 0045-6535, 2018, vol. 193, no., pp. 1164-1171., Registrované v: WOS

196. [1.1] CHEN, Qin - GONG, Chunyan - JU, Xin - ZHU, Zhengbo - SHEN, Wenbiao - SHEN, Zhenguo - CUI, Jin. Hemin Through the Heme Oxygenase 1/Ferrous Iron, Carbon Monoxide System Involved in Zinc Tolerance

- in *Oryza Sativa* L. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2018, vol. 37, no. 3, pp. 947-957., Registrované v: WOS
197. [1.1] CHEN, Qin - ZHANG, Xiaoyan - LIU, Yuanyuan - WEI, Junyu - SHEN, Wenbiao - SHEN, Zhenguo - CUI, Jin. Hemin-mediated alleviation of zinc, lead and chromium toxicity is associated with elevated photosynthesis, antioxidative capacity; suppressed metal uptake and oxidative stress in rice seedlings. In PLANT GROWTH REGULATION. ISSN 0167-6903, 2017, vol. 81, no. 2, pp. 253-264., Registrované v: WOS
198. [1.1] CHEN, Xiaochao - LUDEWIG, Uwe. Biomass increase under zinc deficiency caused by delay of early flowering in *Arabidopsis*. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 5, pp. 1269-1279., Registrované v: WOS
199. [1.1] CHEN, Xiaochao - SCHOENBERGER, Brigitte - MENZ, Jochen - LUDEWIG, Uwe. Plasticity of DNA methylation and gene expression under zinc deficiency in *Arabidopsis* roots. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2018, vol. 59, no. 9, pp. 1790-1802., Registrované v: WOS
200. [1.1] CHEN, Ying Y. - HU, Cheng Y. - XIAO, Jia X. Effects of arbuscular mycorrhizal fungi on the growth and zinc uptake of trifoliate orange (*Poncirus trifoliata*) seedlings grown in low-zinc soil. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2017, vol. 40, no. 3, pp. 324-331., Registrované v: WOS
201. [1.1] CHEN, Zhuang - LIU, Yang-yi - HE, Xiao-xiao - CHEN, Jin-quan. Ultrafast excited state dynamics of biliverdin dimethyl ester coordinate with zinc ions(dagger). In CHINESE JOURNAL OF CHEMICAL PHYSICS. ISSN 1674-0068, 2020, vol. 33, no. 1, pp. 69-74. Dostupné na: <https://doi.org/10.1063/1674-0068/cjcp1911193>., Registrované v: WOS
202. [1.1] CHIBOUB, Manel - JEBARA, Salwa Harzalli - ABID, Ghassen - JEBARA, Moez. Co-inoculation Effects of *Rhizobium sultae* and *Pseudomonas* sp. on Growth, Antioxidant Status, and Expression Pattern of Genes Associated with Heavy Metal Tolerance and Accumulation of Cadmium in *Sulla coronaria*. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2020, vol. 39, no. 1, pp. 216-228. Dostupné na: <https://doi.org/10.1007/s00344-019-09976-z>., Registrované v: WOS
203. [1.1] CHOUDHARY, Ram Chandra - KUMARASWAMY, R. V. - KUMARI, Sarita - SHARMA, S. S. - PAL, Ajay - RALIYA, Ramesh - BISWAS, Pratim - SAHARAN, Vinod. Zinc encapsulated chitosan nanoparticle to promote maize crop yield. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 127, no., pp. 126-135., Registrované v: WOS
204. [1.1] CHOWDHURY, Tania - BERA, Kaushik - SAMANTA, Debabrata - DOLUI, Sandip - MAITY, Suwendu - MAITI, Nakul C. - GHOSH, Prasanta Kumar - DAS, Debasis. Unveiling the binding interaction of zinc (II) complexes of homologous Schiff-base ligands on the surface of BSA protein: A combined experimental and theoretical approach. In APPLIED ORGANOMETALLIC CHEMISTRY. ISSN 0268-2605, 2020, vol. 34, no. 4, pp. Dostupné na: <https://doi.org/10.1002/aoc.5556>., Registrované v: WOS
205. [1.1] IBRAHIM, Mohd Hafiz - KONG, Yap Chee - ZAIN, Nurul Amalina Mohd. Effect of Cadmium and Copper Exposure on Growth, Secondary Metabolites and Antioxidant Activity in the Medicinal Plant *Sambung Nyawa*

- (*Gynura procumbens* (Lour.) Merr). In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 10, pp., Registrované v: WOS
206. [1.1] IKARAOHA, C. I. - MBADIWE, N. C. - ANYANWU, C. J. - ODEKHIAN, J. - NWADIKE, C. N. - AMAH, H. C. The Role of Blood Lead, Cadmium, Zinc and Copper in Development and Severity of Acne Vulgaris in a Nigerian Population. In *BIOLOGICAL TRACE ELEMENT RESEARCH*. ISSN 0163-4984, 2017, vol. 176, no. 2, pp. 251-257., Registrované v: WOS
207. [1.1] IMRAN, Muhammad - KANWAL, Shamsa - HUSSAIN, Shahid - AZIZ, Tariq - MAQSOOD, Muhammad Aamer. EFFICACY OF ZINC APPLICATION METHODS FOR CONCENTRATION AND ESTIMATED BIOAVAILABILITY OF ZINC IN GRAINS OF RICE GROWN ON A CALCAREOUS SOIL. In *PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES*. ISSN 0552-9034, 2015, vol. 52, no. 1, pp. 169-175., Registrované v: WOS
208. [1.1] IMRAN, Muhammad - REHIM, Abdur - SARWAR, Nadeem - HUSSAIN, Saddam. Zinc bioavailability in maize grains in response of phosphorous-zinc interaction. In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2016, vol. 179, no. 1, pp. 60-66., Registrované v: WOS
209. [1.1] INAMUDDIN - HUSSAIN, Sardar - MOHAMMAD, Ali - KHAN, Anish. Zinc Selective Nano-Hybrid Cation Exchanger Carboxymethyl Cellulose Zr(IV) Tungstate: Sol-Gel Synthesis, Physicochemical Characterization, and Analytical Applications. In *POLYMER COMPOSITES*. ISSN 0272-8397, 2017, vol. 38, no. 10, pp. 2057-2066., Registrované v: WOS
210. [1.1] IQBAL, Muhammad Naveed - RASHEED, Rizwan - ASHRAF, Muhammad Yasin - ASHRAF, Muhammad Arslan - HUSSAIN, Iqbal. Exogenously applied zinc and copper mitigate salinity effect in maize (*Zea mays* L.) by improving key physiological and biochemical attributes. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 24, pp. 23883-23896., Registrované v: WOS
211. [1.1] ISEYEN, Mehmet - AKPINAR, Aysegul - EREN, Beytullah - OK, Gulsun. Heavy metal profiles of agricultural soils in Sakarya, Turkey. In *ENVIRONMENTAL ENGINEERING RESEARCH*. ISSN 1226-1025, 2019, vol. 24, no. 3, pp. 427-433., Registrované v: WOS
212. [1.1] ISMAEL, Marwa A. - ELYAMINE, Ali Mohamed - MOUSSA, Mohamed G. - CAI, Miaomiao - ZHAO, Xiaohu - HU, Chengxiao. Cadmium in plants: uptake, toxicity, and its interactions with selenium fertilizers. In *METALLOMICS*. ISSN 1756-5901, 2019, vol. 11, no. 2, pp. 255-277., Registrované v: WOS
213. [1.1] IVAN GONZALEZ, Cesar - ALEJANDRA MAINE, Maria - RICARDO HADAD, Hernan - CRISTINA SANCHEZ, Gabriela - PATRICIA BENAVIDES, Maria - ABEL CAMPAGNOLI, Marcelo. Effects on *Eichhornia crassipes* under Zn stress. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 27, pp. 26957-26964., Registrované v: WOS
214. [1.1] JAIN, Radha - VERMA, Rashmi - SINGH, Anshu - CHANDRA, A. - SOLOMON, S. Influence of selenium on metallothionein gene expression and physiological characteristics of sugarcane plants. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2015, vol. 77, no. 2, pp. 109-115., Registrované v: WOS

215. [1.1] JAMIL, Moazzam - SAJAD, Abid - AHMAD, Maqshoof - AKHTAR, M. Fakhar-u-Zaman - ABBASI, Ghulam Hassan - ARSHAD, Muhammad. GROWTH, YIELD AND QUALITY OF MAIZE (*Zea mays* L.) FODDER AS AFFECTED BY NITROGEN-ZINC INTERACTION IN ARID CLIMATE. In PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES. ISSN 0552-9034, 2015, vol. 52, no. 3, pp. 637-643., Registrované v: WOS
216. [1.1] JANKOWSKI, Wojciech - KUREK, Joanna - BARCZYNSKI, Piotr - HOFFMANN, Marcin. Quantum-chemical, NMR, FT IR, and ESI MS studies of complexes of colchicine with Zn(II). In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 4, pp., Registrované v: WOS
217. [1.1] JIANG, Jian-Qiao - SUN, Chun-Lin - SHI, Zi-Fa - XU, Zhu-Guo - ZHANG, Hao-Li. A ppb level turn-on fluorescence chemosensor for the detection of Zn²⁺. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 220, no., pp. 659-664., Registrované v: WOS
218. [1.1] JIA, Xumei - ZHU, Yanfang - ZHANG, Rui - ZHU, Zulei - ZHAO, Tong - CHENG, Li - GAO, Liyang - LIU, Bing - ZHANG, Xiayi - WANG, Yanxiu. Ionic and metabolomic analyses reveal the resistance response mechanism to saline-alkali stress in *Malus halliana* seedlings. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2020, vol. 147, no., pp. 77-90. Dostupné na: <https://doi.org/10.1016/j.plaphy.2019.12.001>., Registrované v: WOS
219. [1.1] JIMENEZ-ROSADO, Mercedes - PEREZ-PUYANA, Victor - RUBIO-VALLE, Jose Fernando - GUERRERO, Antonio - ROMERO, Alberto. Evaluation of Superabsorbent Capacity of Soy Protein-Based Bioplastic Matrices with Incorporated Fertilizer for Crops. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2020, vol. 28, no. 10, pp. 2661-2668. Dostupné na: <https://doi.org/10.1007/s10924-020-01811-x>., Registrované v: WOS
220. [1.1] JIMENEZ-ROSADO, Mercedes - PEREZ-PUYANA, Victor - RUBIO-VALLE, Jose Fernando - GUERRERO, Antonio - ROMERO, Alberto. Processing of biodegradable and multifunctional protein-based polymer materials for the potential controlled release of zinc and water in horticulture. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 46, pp. Dostupné na: <https://doi.org/10.1002/app.49419>., Registrované v: WOS
221. [1.1] JIN, Tiantian - CHEN, Jingtang - ZHU, Liying - ZHAO, Yongfeng - GUO, Jinjie - HUANG, Yaquin. Comparative mapping combined with homology-based cloning of the rice genome reveals candidate genes for grain zinc and iron concentration in maize. In BMC GENETICS. ISSN 1471-2156, 2015, vol. 16, no., pp., Registrované v: WOS
222. [1.1] JOY, Edward J. M. - STEIN, Alexander J. - YOUNG, Scott D. - ANDER, E. Louise - WATTS, Michael J. - BROADLEY, Martin R. Zinc-enriched fertilisers as a potential public health intervention in Africa. In PLANT AND SOIL. ISSN 0032-079X, 2015, vol. 389, no. 1-2, pp. 1-24., Registrované v: WOS
223. [1.1] KABIR, Ahmad Humayan - PALTRIDGE, Nick - STANGOULIS, James. Chlorosis correction and agronomic biofortification in field peas through foliar application of iron fertilizers under Fe deficiency. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2016, vol. 11, no. 1, pp. 1-4., Registrované v: WOS

224. [1.1] KACHOUT, Sai S. - BEN MANSOURA, A. - ENNAJAH, A. - LECLERC, J. C. - OUEGHI, Z. - BOURAOUI, Karray N. Effects of Metal Toxicity on Growth and Pigment Contents of Annual Halophyte (*A. hortensis* and *A. rosea*). In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH. ISSN 1735-6865, 2015, vol. 9, no. 2, pp. 613-620., Registrované v: WOS
225. [1.1] KALBOUSH, Zeinab A. - HASSAN, A. A. - GABR, W. E. Control of Rice Blast and Brown Spot Diseases by Synthesized Zinc Oxide Nanoparticles. In EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL. ISSN 1110-1768, 2016, vol. 26, no. 4, pp. 713-720., Registrované v: WOS
226. [1.1] KATARIA, Sunita - JAIN, Meeta - RASTOGI, Anshu - ZIVCAK, Marek - BRESTIC, Marian - LIU, Shiliang - TRIPATHI, Durgesh Kumar. ROLE OF NANOPARTICLES ON PHOTOSYNTHESIS: AVENUES AND APPLICATIONS. In NANOMATERIALS IN PLANTS, ALGAE, AND MICROORGANISMS: CONCEPTS AND CONTROVERSIES, VOL 2, 2019, vol., no., pp. 103-127., Registrované v: WOS
227. [1.1] KATUURAMU, Dennis N. - HART, John P. - PORCH, Timothy G. - GRUSAK, Michael A. - GLAHN, Raymond P. - CICHY, Karen A. Genome-wide association analysis of nutritional composition-related traits and iron bioavailability in cooked dry beans (*Phaseolus vulgaris* L.). In MOLECULAR BREEDING. ISSN 1380-3743, 2018, vol. 38, no. 4, pp., Registrované v: WOS
228. [1.1] KAVIANI, Elina - NIAZI, Ali - HEYDARIAN, Zohreh - MOGHADAM, Ali - GHASEMI-FASAEI, Reza - ABDOLLAHZADEH, Tayebe. Phytoremediation of Pb-Contaminated Soil by *Salicornia iranica*: Key Physiological and Molecular Mechanisms Involved in Pb Detoxification. In CLEAN-SOIL AIR WATER. ISSN 1863-0650, 2017, vol. 45, no. 5, pp., Registrované v: WOS
229. [1.1] KAYA, Cengiz. Nitric oxide improves high zinc tolerance in maize plants. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2016, vol. 39, no. 14, pp. 2072-2078., Registrované v: WOS
230. [1.1] KAYA, Muammer - HUSSAINI, Shokrullah - KURSUNOGLU, Sait. Critical review on secondary zinc resources and their recycling technologies. In HYDROMETALLURGY. ISSN 0304-386X, 2020, vol. 195, no., pp. Dostupné na: <https://doi.org/10.1016/j.hydromet.2020.105362>., Registrované v: WOS
231. [1.1] KAZNINA, N. M. - BATOVA, Yu. V. - LAIDINEN, G. F. - SHERUDILO, E. G. - TITOV, A. F. Low-Temperature Adaptation of Winter Wheat Seedlings under Excessive Zinc Content in the Root Medium. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2019, vol. 66, no. 5, pp. 763-770., Registrované v: WOS
232. [1.1] KAZNINA, N. M. - TITOV, A. F. - REPKINA, N. S. - BATOVA, Yu. Effect of Zinc Excess and Low Temperature on the IRT1 Gene Expression in the Roots and Leaves of Barley. In DOKLADY BIOCHEMISTRY AND BIOPHYSICS. ISSN 1607-6729, 2019, vol. 487, no. 1, pp. 264-268., Registrované v: WOS
233. [1.1] KAZNINA, N. M. - TITOV, A. F. - REPKINA, N. S. - BATOVA, Yu. Effect of Zinc Excess and Low Temperature on the IRT1 Gene Expression in the Roots and Leaves of Barley. In DOKLADY BIOCHEMISTRY AND BIOPHYSICS. ISSN 1607-6729, 2019, vol. 487, no. 1, pp. 264-268.,

Registrované v: WOS

234. [1.1] KHAIRIL, M. - BURSLEM, David F. R. P. Controls on foliar aluminium accumulation among populations of the tropical shrub *Melastoma malabathricum* L. (Melastomataceae). In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2018, vol. 38, no. 11, pp. 1752-1760., Registrované v: WOS
235. [1.1] KHAN, M. Iqbal R. - JAHAN, Badar - ALAJMI, Mohamed F. - REHMAN, Md Tabish - KHAN, Nafees A. Exogenously-Sourced Ethylene Modulates Defense Mechanisms and Promotes Tolerance to Zinc Stress in Mustard (*Brassica juncea* L.). In *PLANTS-BASEL*, 2019, vol. 8, no. 12, pp., Registrované v: WOS
236. [1.1] KHAN, Waqas-ud-Din - FAHEEM, Muhammad - KHAN, Muhammad Yahya - HUSSAIN, Shahid - MAQSOOD, Muhammad Aamer - AZIZ, Tariq. ZINC REQUIREMENT FOR OPTIMUM GRAIN YIELD AND ZINC BIOFORTIFICATION DEPENDS ON PHOSPHORUS APPLICATION TO WHEAT CULTIVARS. In *ROMANIAN AGRICULTURAL RESEARCH*. ISSN 1222-4227, 2015, vol. 32, no., pp. 155-163., Registrované v: WOS
237. [1.1] KIBITI, Cromwell Mwititi - AFOLAYAN, Anthony Jide. The Biochemical Role of Macro and Micro-Minerals in the Management of Diabetes Mellitus and its Associated Complications: A Review. In *INTERNATIONAL JOURNAL FOR VITAMIN AND NUTRITION RESEARCH*. ISSN 0300-9831, 2015, vol. 85, no. 1-2, pp. 88-103., Registrované v: WOS
238. [1.1] KILIC, Hediye Elif - TUNCA, Hatice - SEVINDIK, Tugba Ongun - DOGRU, Ali. Assessment of the effects of zinc on the growth and antioxidant enzymes in *Scenedesmus ellipsoideus* Chodat. In *OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES*. ISSN 1730-413X, 2019, vol. 48, no. 3, pp. 270-278., Registrované v: WOS
239. [1.1] KINTLOVA, Martina - BLAVET, Nicolas - CEGAN, Radim - HOBZA, Roman. Transcriptome of barley under three different heavy metal stress reaction. In *GENOMICS DATA*. ISSN 2213-5960, 2017, vol. 13, no., pp. 15-17., Registrované v: WOS
240. [1.1] KOMISSAROV, A. A. - SHCHEKA, O. L. - TIKHONOV, S. A. - KOROCHENTSEV, V. V. - SAMOILOV, I. S. - VOVNA, V. Electronic structure and nature of the metal-ligand chemical bond of Be, Mg, and Zn beta-diketonates by quantum chemistry methods. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2020, vol. 1204, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2019.127540>., Registrované v: WOS
241. [1.1] KOSUGI, Aki - TAMARU, Jun - GOTOU, Kazumi - FURIHATA, Hazuka Y. - SHIMIZU, Akifumi - KAWABE, Akira - HARADA, Emiko. Metal accumulation by *Arabidopsis halleri* subsp. *gemma* at a limestone mining site. In *AUSTRALIAN JOURNAL OF BOTANY*. ISSN 0067-1924, 2015, vol. 63, no. 1-2, pp. 134-140., Registrované v: WOS
242. [1.1] KOZAK, Katarzyna - PAPIERNIAK, Anna - BARABASZ, Anna - KENDZIOREK, Maria - PALUSINSKA, Malgorzata - WILLIAMS, Lorraine Elizabeth - ANTOSIEWICZ, Danuta Maria. NtZIP11, a new Zn transporter specifically upregulated in tobacco leaves by toxic Zn level. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2019, vol. 157, no., pp. 69-78., Registrované v: WOS
243. [1.1] KRISTUFEK, Vaclav - DIVIS, Jiri - OMELKA, Marek - KOPECKY, Jan - SAGOVA-MARECKOVA, Marketa. Site, Year and Cultivar

Effects on Relationships Between Periderm Nutrient Contents and Common Scab Severity. In AMERICAN JOURNAL OF POTATO RESEARCH. ISSN 1099-209X, 2015, vol. 92, no. 4, pp. 473-482., Registrované v: WOS

244. [1.1] KRYVORUCHKO, Igor S. Zn-use efficiency for optimization of symbiotic nitrogen fixation in chickpea (*Cicer arietinum* L.). In TURKISH JOURNAL OF BOTANY. ISSN 1300-008X, 2017, vol. 41, no. 5, pp. 423-441., Registrované v: WOS

245. [1.1] KUEHNLENZ, Tanja - HOFMANN, Christian - URAGUCHI, Shimpei - SCHMIDT, Holger - SCHEMPP, Stefanie - WEBER, Michael - LAHNER, Brett - SALT, David E. - CLEMENS, Stephan. Phytochelatins Synthesis Promotes Leaf Zn Accumulation of *Arabidopsis thaliana* Plants Grown in Soil with Adequate Zn Supply and is Essential for Survival on Zn-Contaminated Soil. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2016, vol. 57, no. 11, pp. 2342-2352., Registrované v: WOS

246. [1.1] KUKLOVA, Margita - HNILICKOVA, Helena - HNILICKA, Frantisek - PIVKOVA, Ivica - KUKLA, Jan. Toxic elements and energy accumulation in topsoil and plants of spruce ecosystems. In PLANT SOIL AND ENVIRONMENT. ISSN 1214-1178, 2017, vol. 63, no. 9, pp. 402-408., Registrované v: WOS

247. [1.1] KUMAR, Ashok - DEWANGAN, Savita - LAWATE, Pramod - BAHADUR, Indra - PRAJAPATI, Srishti. Zinc-Solubilizing Bacteria: A Boon for Sustainable Agriculture. In PLANT GROWTH PROMOTING RHIZOBACTERIA FOR SUSTAINABLE STRESS MANAGEMENT: VOL 1: RHIZOBACTERIA IN ABIOTIC STRESS MANAGEMENT. ISSN 2512-1901, 2019, vol. 12, no., pp. 139-155., Registrované v: WOS

248. [1.1] KUMAR, Manoj - JHA, A. K. - HAZARIKA, S. - VERMA, B. C. - CHOUDHURY, B. U. - RAMESH, T. - MOIRANGTHEM, P. - KUMAR, R. - BRAJENDRA - RAJKHOWA, D. J. - KUMAR, A. - DEVI, M. H. Micronutrients (B, Zn, Mo) for Improving Crop Production on Acidic Soils of Northeast India. In NATIONAL ACADEMY SCIENCE LETTERS-INDIA. ISSN 0250-541X, 2016, vol. 39, no. 2, pp. 85-89., Registrované v: WOS

249. [1.1] KUMAR, Vinay - SACHDEV, Divya - PASRICHA, Renu - MAHESHWARI, Priyanka H. - TANEJA, Neetu Kumra. Zinc-Supported Multiwalled Carbon Nanotube Nanocomposite: A Synergism to Micronutrient Release and a Smart Distributor To Promote the Growth of Onion Seeds in Arid Conditions. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 43, pp. 36733-36745., Registrované v: WOS

250. [1.1] KURIAKOSE, Saritha V. - PRASAD, Majeti Narasimha Vara. Cadmium-Induced Toxicity in *Sorghum bicolor*-Alleviation by Zinc and Aggravation by Phosphate. In CADMIUM TOLERANCE IN PLANTS: AGRONOMIC, MOLECULAR, SIGNALING, AND OMIC APPROACHES, 2019, vol., no., pp. 193-221., Registrované v: WOS

251. [1.1] KUTLU, Imren - GULMEZOGLU, Nurdilek. Morpho-agronomic characters of oat growing with humic acid and zinc application in different sowing times. In PLANT SCIENCE TODAY. ISSN 2348-1900, 2020, vol. 7, no. 4, pp. 594-600. Dostupné na: <https://doi.org/10.14719/pst.2020.7.4.861>., Registrované v: WOS

252. [1.1] KWAPISZ, Joanna - GWOREK, Barbara - GRANIEWSKA, Magdalena. Zinc accumulation and mobility in the soils of the Upper Silesian Industrial District. In PRZEMYSŁ CHEMICZNY. ISSN 0033-2496, 2016, vol.

- 95, no. 3, pp. 491-496., Registrované v: WOS
253. [1.1] LAL, Banwari - GAUTAM, Priyanka - NAYAK, Amaresh Kumar - MAHARANA, Sanghamitra - TRIPATHI, Rahul - SHAHID, Mohammad - BAIG, Mirza Jaynul - RAJA, Rajagounder - KATO, Yoichiro - KUMAR SRIVASTAVA, Ashish - SINGH, Sudhanshu. Tolerant varieties and exogenous application of nutrients can effectively manage drought stress in rice. In ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2020, vol. 66, no. 1, pp. 13-32. Dostupné na: <https://doi.org/10.1080/03650340.2019.1587749>., Registrované v: WOS
254. [1.1] LASHMAR, Nicole - BERRYMAN, Simon Young - LIDDELL, Michael J. - MORRISON, Anthony L. - CERNUSAK, Lucas A. - NORTHFIELD, Tobin D. - GOOSEM, Stephen - JENNISON, Bruce. Environmental impacts of abrasive blasting of transmission towers in protected areas. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2019, vol. 252, no., pp., Registrované v: WOS
255. [1.1] LAURENT, Clementine - LEKEUX, Gilles - UKUWELA, Ashwinie A. - XIAO, Zhiguang - CHARLIER, Jean-Benoit - BOSMAN, Bernard - CARNOL, Monique - MOTTE, Patrick - DAMBLON, Christian - GALLENI, Moreno - HANIKENNE, Marc. Metal binding to the N-terminal cytoplasmic domain of the P-IB ATPase HMA4 is required for metal transport in Arabidopsis. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2016, vol. 90, no. 4-5, pp. 453-466., Registrované v: WOS
256. [1.1] LEE, Woo-Chun - LEE, Sang-Woo - JEON, Ji-Hoon - JUNG, Hyun - KIM, Soon-Oh. A novel method for real-time monitoring of soil ecological toxicity Detection of earthworm motion using a vibration sensor. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2019, vol. 185, no., pp., Registrované v: WOS
257. [1.1] LEIBAR-PORCEL, Estibaliz - MCAINSH, Martin R. - DODD, Ian C. Elevated Root-Zone Dissolved Inorganic Carbon Alters Plant Nutrition of Lettuce and Pepper Grown Hydroponically and Aeroponically. In AGRONOMY-BASEL, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/agronomy10030403>., Registrované v: WOS
258. [1.1] LEITAO, T. E. - CAMEIRA, M. R. - COSTA, H. D. - PACHECO, J. M. - HENRIQUES, M. J. - MARTINS, L. L. - MOURATO, M. P. Environmental Quality in Urban Allotment Gardens: Atmospheric Deposition, Soil, Water and Vegetable Assessment at LISBON City. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2018, vol. 229, no. 2, pp., Registrované v: WOS
259. [1.1] LEITNER, Jindrich - SEDMIDUBSKY, David - JANKOVSKY, Ondrej. Effect of ZnO nanosizing on its solubility in aqueous media. In MICRO & NANO LETTERS. ISSN 1750-0443, 2018, vol. 13, no. 11, pp. 1585-1589., Registrované v: WOS
260. [1.1] LEKEUX, Gilles - LAURENT, Clementine - JORIS, Marine - JADOUL, Alice - JIANG, Dan - BOSMAN, Bernard - CARNOL, Monique - MOTTE, Patrick - XIAO, Zhiguang - GALLENI, Moreno - HANIKENNE, Marc. di-Cysteine motifs in the C-terminus of plant HMA4 proteins confer nanomolar affinity for zinc and are essential for HMA4 function in vivo. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 22, pp. 5547-5560., Registrované v: WOS
261. [1.1] LEON-MEDIAVILLA, Javier - SENOVILLA, Marta -

- MONTIEL, Jesus - GIL-DIEZ, Patricia - SAEZ, Angela - KRYVORUCHKO, Igor S. - REGUERA, Maria - UDVARDI, Michael K. - IMPERIAL, Juan - GONZALEZ-GUERRERO, Manuel. MtMTP2-Facilitated Zinc Transport Into Intracellular Compartments Is Essential for Nodule Development in *Medicago truncatula*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
262. [1.1] LEVIZOU, Efi - ANTONIADIS, Vasileios - PAPATHEODOROU, Sophia. Without exceeding the limits: industrial soil rich in Zn and Cd has no effect on purslane and lettuce but promotes geranium growth. In *ENVIRONMENTAL EARTH SCIENCES*. ISSN 1866-6280, 2016, vol. 75, no. 18, pp., Registrované v: WOS
263. [1.1] LIDON, Fernando C. - ALMEIDA, Ana S. - COSTA, Ana R. - BAGULHO, Ana S. - SCOTTI-CAMPOS, Paula - SEMEDO, Jose N. - MACAS, Benvindo - COUTINHO, Jose - PINHEIRO, Nuno - GOMES, Conceicao - LEITAO, Antonio E. - PAIS, Isabel P. - SILVA, Maria M. - REBOREDO, Fernando H. - PESSOA, Maria F. - RAMALHO, Jose C. Sequential zinc and iron biofortification of bread-wheat grains: from controlled to uncontrolled environments. In *CROP & PASTURE SCIENCE*. ISSN 1836-0947, 2015, vol. 66, no. 11, pp. 1097-1104., Registrované v: WOS
264. [1.1] LIN, Chung-Yi - HUANG, Li-Yao - CHI, Wen-Chang - HUANG, Tsai-Lien - KAKIMOTO, Tatsuo - TSAI, Chang-Rong - HUANG, Hao-Jen. Pathways involved in vanadate-induced root hair formation in *Arabidopsis*. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2015, vol. 153, no. 1, pp. 137-148., Registrované v: WOS
265. [1.1] LITTON, Creighton M. - GIARDINA, Christian P. - FREEMAN, Kristen R. - SELMANTS, Paul C. - SPARKS, Jed P. Impact of Mean Annual Temperature on Nutrient Availability in a Tropical Montane Wet Forest. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00784>., Registrované v: WOS
266. [1.1] LIU, Dun-Yi - ZHANG, Wei - YAN, Peng - CHEN, Xin-Ping - ZHANG, Fu-Suo - ZOU, Chun-Qin. Soil application of zinc fertilizer could achieve high yield and high grain zinc concentration in maize. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 47-55., Registrované v: WOS
267. [1.1] LIU, Chunkui - HU, Chengxiao - TAN, Qiling - SUN, Xuecheng - WU, Songwei - ZHAO, Xiaohu. Co-application of molybdenum and zinc increases grain yield and photosynthetic efficiency of wheat leaves. In *PLANT SOIL AND ENVIRONMENT*. ISSN 1214-1178, 2019, vol. 65, no. 10, pp. 508-515., Registrované v: WOS
268. [1.1] LIU, Xiang - CHEN, Juan - WANG, Guang-Hui - WANG, Wen-Hua - SHEN, Zhi-Jun - LUO, Mei-Rong - GAO, Gui-Feng - SIMON, Martin - GHOTO, Kabir - ZHENG, Hai-Lei. Hydrogen sulfide alleviates zinc toxicity by reducing zinc uptake and regulating genes expression of antioxidative enzymes and metallothioneins in roots of the cadmium/zinc hyperaccumulator *Solanum nigrum* L. In *PLANT AND SOIL*. ISSN 0032-079X, 2016, vol. 400, no. 1-2, pp. 177-192., Registrované v: WOS
269. [1.1] LI, Guangxin - LI, Chang - RENGEL, Zed - LIU, Hongen - ZHAO, Peng. Title: Excess Zn-induced changes in physiological parameters and expression levels of TaZips in two wheat genotypes. In *ENVIRONMENTAL*

AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 177, no., pp.
Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104133.>, Registrované v:
WOS

270. [1.1] LI, Meng - HUANG, Caihong - YANG, Tianxue - DROSOS, Marios - WANG, Jinzhi - KANG, Xiaoming - LIU, Fulai - XI, Beidou - HU, Zhengyi. Role of plant species and soil phosphorus concentrations in determining phosphorus: nutrient stoichiometry in leaves and fine roots. In PLANT AND SOIL. ISSN 0032-079X, 2019, vol. 445, no. 1-2, pp. 231-242., Registrované v: WOS

271. [1.1] LI, Peng - DU, Yumei - HUANG, Longbin - MITTER, Neena - XU, Zhi Ping. Nanotechnology promotes the R&D of new-generation micronutrient foliar fertilizers. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 73, pp. 69465-69478., Registrované v: WOS

272. [1.1] LI, Shi-Zhen - ZHU, Xiang-Kun - WU, Long-Hua - LUO, Yong-Ming. Zinc, iron, and copper isotopic fractionation in *Elsholtzia splendens* Nakai: A study of elemental uptake and (re)translocation mechanisms. In JOURNAL OF ASIAN EARTH SCIENCES. ISSN 1367-9120, 2020, vol. 192, no., pp. Dostupné na: <https://doi.org/10.1016/j.jseaes.2020.104227.>, Registrované v: WOS

273. [1.1] LI, Suzhen - ZHOU, Xiaojin - LI, Hongbo - LIU, Yuanfeng - ZHU, Liying - GUO, Jinjie - LIU, Xiaoqing - FAN, Yunliu - CHEN, Jingtang - CHEN, Rumei. Overexpression of *ZmIRT1* and *ZmZIP3* Enhances Iron and Zinc Accumulation in Transgenic *Arabidopsis*. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 8, pp., Registrované v: WOS

274. [1.1] LI, Suzhen - ZHOU, Xiaojin - ZHAO, Yongfeng - LI, Hongbo - LIU, Yuanfeng - ZHU, Liying - GUO, Jinjie - HUANG, Yaquin - YANG, Wenzhu - FAN, Yunliu - CHEN, Jingtang - CHEN, Rumei. Constitutive expression of the *ZmZIP7* in *Arabidopsis* alters metal homeostasis and increases Fe and Zn content. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2016, vol. 106, no., pp. 1-10., Registrované v: WOS

275. [1.1] LI, Xiao Shuang - SONG, Li Li. The role of ABA in the responses of wild-type and abscisic acid mutants of *Arabidopsis thaliana* to excess zinc. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2020, vol. 42, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03067-3.>, Registrované v: WOS

276. [1.1] LI, X. B. - SUO, H. C. - LIU, J. T. - WANG, L. - LI, C. C. - LIU, W. Genome-wide identification and expression analysis of the potato ZIP gene family under Zn-deficiency. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2020, vol. 64, no., pp. 845-855. Dostupné na: <https://doi.org/10.32615/bp.2020.125.>, Registrované v: WOS

277. [1.1] LI, Zhi - FAN, Yanchun - GAO, Lei - CAO, Xiu - YE, Junli - LI, Guohuai. The Dual Roles of Zinc Sulfate in Mitigating Peach Gummosis. In PLANT DISEASE. ISSN 0191-2917, 2016, vol. 100, no. 2, pp. 345-351., Registrované v: WOS

278. [1.1] LOCOSSELLI, Giuliano Maselli - DE CAMARGO, Evelyn Pereira - LOPES MOREIRA, Tiana Carla - TODESCO, Enzo - ANDRADE, Maria de Fatima - SALDIVA DE ANDRE, Carmen Diva - DE ANDRE, Paulo Afonso - SINGER, Julio M. - FERREIRA, Luciana Schwandner - NASCIMENTO SALDIVA, Paulo Hilario - BUCKERIDGE, Marcos Silveira. The role of air pollution and climate on the growth of urban trees. In SCIENCE

- OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2019, vol. 666, no., pp. 652-661., Registrované v: WOS
279. [1.1] LOPES JUNIOR, Cicero Alves - OLIVEIRA, Silvana Ruella - MAZZAFERA, Paulo - ZEZZI ARRUDA, Marco Aurelio. Expanding the information about the influence of cadmium on the metabolism of sunflowers: Evaluation of total, bioavailable, and bioaccessible content and metallobiomolecules in sunflower seeds. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2016, vol. 125, no., pp. 87-97., Registrované v: WOS
280. [1.1] LOPEZ-BERGES, Manuel S. ZafA-mediated regulation of zinc homeostasis is required for virulence in the plant pathogen *Fusarium oxysporum*. In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, 2020, vol. 21, no. 2, pp. 244-249. Dostupné na: <https://doi.org/10.1111/mpp.12891>., Registrované v: WOS
281. [1.1] LOPEZ-RAYO, Sandra - IMRAN, Ahmad - HANSEN, Hans Chr. Bruun - SCHJOERRING, Jan K. - MAGID, Jakob. Layered Double Hydroxides: Potential Release-on-Demand Fertilizers for Plant Zinc Nutrition. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 40, pp. 8779-8789., Registrované v: WOS
282. [1.1] LUCIANO, Avila-Juarez - IRINEO, Torres-Pacheco - ROSALIA VIRGINIA, Ocampo-Velazquez - ANGELICA FEREGRINO-PEREZ, Ana - CRUZ HERNANDEZ, Andres - RAMON GERARDO, Guevara-Gonzalez. Integrating Plant Nutrients and Elicitors for Production of Secondary Metabolites, Sustainable Crop Production and Human Health: A Review. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2017, vol. 19, no. 3, pp. 391-402., Registrované v: WOS
283. [1.1] LUGLI, Francesco - MAHLER, Claudio Fernando. A soil-plant model applied to phytoremediation of metals. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2016, vol. 18, no. 4, pp. 295-307., Registrované v: WOS
284. [1.1] LUO, Tao - NIU, Jiajia - GUO, Xiaomeng - WU, Huitao - HAN, Dongmei - SHUAI, Liang - WU, Zhenxian. Preharvest zinc sulfate spray improves the storability of longan (*Dimocarpus longan* Lour.) fruits by protecting the cell wall components and antioxidants of pericarp. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 3, pp. 1098-1107., Registrované v: WOS
285. [1.1] LUO, Zhi-Bin - HE, Jiali - POLLE, Andrea - RENNENBERG, Heinz. Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 6, pp. 1131-1148., Registrované v: WOS
286. [1.1] LYU, Jie - PARK, Jihae - PANDEY, Lalit Kumar - CHOI, Soyeon - LEE, Hojun - DE SAEGER, Jonas - DEPUYDT, Stephen - HAN, Taejun. Testing the toxicity of metals, phenol, effluents, and receiving waters by root elongation in *Lactuca sativa* L. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2018, vol. 149, no., pp. 225-232., Registrované v: WOS
287. [1.1] MAGER, Svenja - SCHOENBERGER, Brigitte - LUDEWIG, Uwe. The transcriptome of zinc deficient maize roots and its relationship to DNA

- methylation loss. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2018, vol. 18, no., pp., Registrované v: WOS
288. [1.1] MAHMOOD, A. - KANWAL, H. - KAUSAR, A. - ILYAS, A. - AKHTER, N. - ILYAS, M. - NISA, Z. - KHALID, H. SEED PRIMING WITH ZINC MODULATE GROWTH, PIGMENTS AND YIELD OF CHICKPEA (*Cicer arietinum* L.) UNDER WATER DEFICIT CONDITIONS. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2019, vol. 17, no. 1, pp. 147-160., Registrované v: WOS
289. [1.1] MAJDOUB, N. - REZGUI, M. - BEN KAAB, S. - BEN KAAB, L. B. Compatible solutes content, enzymatic and non-enzymatic antioxidant activities of fennel (*Foeniculum vulgare* L.) in response to Zn-induced oxidative damage. In AGROCHIMICA. ISSN 0002-1857, 2017, vol. 61, no. 3, pp. 269-285., Registrované v: WOS
290. [1.1] MAJEE, Prakash - SINGHA, Debal Kanti - MONDAL, Sudip Kumar - MAHATA, Partha. Effect of charge transfer and structural rigidity on divergent luminescence response of a metal organic framework towards different metal ions: luminescence lifetime decay experiments and DFT calculations. In PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES. ISSN 1474-905X, 2019, vol. 18, no. 5, pp. 1110-1121., Registrované v: WOS
291. [1.1] MALCZEWSKA-JASKOLA, Karolina - JANKOWSKI, Wojciech - WARZAJTIS, Beata - JASIEWICZ, Beata - HOFFMANN, Marcin - RYCHLEWSKA, Urszula. Chalcogenated (S)-(-)-nicotine derivatives as chiral linkers for 1D coordination polymers. In POLYHEDRON. ISSN 0277-5387, 2015, vol. 100, no., pp. 404-411., Registrované v: WOS
292. [1.1] MANARA, Anna - FASANI, Elisa - FURINI, Antonella - DALCORSO, Giovanni. Evolution of the metal hyperaccumulation and hypertolerance traits. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2020, vol. 43, no. 12, pp. 2969-2986. Dostupné na: <https://doi.org/10.1111/pce.13821>., Registrované v: WOS
293. [1.1] MANUEL MENDOZA-CASTILLO, Victor - PINEDA-PINEDA, Joel - MANUEL VARGAS-CANALES, Juan - HERNANDEZ-ARGUELLO, Eduardo. Nutrition of fig (*Ficus carica* L.) under hydroponics and greenhouse conditions. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2019, vol. 42, no. 11-12, pp. 1350-1365., Registrované v: WOS
294. [1.1] MANWARING, Hanna R. - BLIGH, H. F. J. - YADAV, Rattan. The Challenges and Opportunities Associated with Biofortification of Pearl Millet (*Pennisetum glaucum*) with Elevated Levels of Grain Iron and Zinc. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
295. [1.1] MAO, Hui - WANG, Zhaohui - LYONS, Graham. Germination-enhancing and zinc-sparing roles for selenium in broccoli. In ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE. ISSN 0906-4710, 2015, vol. 65, no. 2, pp. 141-149., Registrované v: WOS
296. [1.1] MARCHAND, C. - FERNANDEZ, J.M. - MORETON, B. Trace metal geochemistry in mangrove sediments and their transfer to mangrove plants (New Caledonia). In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2016, vol. 562, no., pp. 216-227., Registrované v: WOS
297. [1.1] MARQUES, M. C. - NASCIMENTO, C. W. A. - DA SILVA,

- A. J. - DA SILVA GOUVEIA-NETO, A. Tolerance of an energy crop (*Jatropha curcas* L.) to zinc and lead assessed by chlorophyll fluorescence and enzyme activity. In *SOUTH AFRICAN JOURNAL OF BOTANY*. ISSN 0254-6299, 2017, vol. 112, no., pp. 275-282., Registrované v: WOS
298. [1.1] MARTIN, Ruth C. - VINING, Kelly - DOMBROWSKI, James E. Genome-wide (ChIP-seq) identification of target genes regulated by BdbZIP10 during paraquat-induced oxidative stress. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2018, vol. 18, no., pp., Registrované v: WOS
299. [1.1] MATTIELLO, Edson M. - RUIZ, Hugo A. - NEVES, Julio C. L. - VENTRELLA, Marilia C. - ARAUJO, Wagner L. Zinc deficiency affects physiological and anatomical characteristics in maize leaves. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2015, vol. 183, no., pp. 138-143., Registrované v: WOS
300. [1.1] MA, Jie - ZHANG, Xiuqing - WANG, Lijun. Synergistic effects between [Si-hemicellulose matrix] ligands and Zn ions in inhibiting Cd ion uptake in rice (*Oryza sativa*) cells. In *PLANTA*. ISSN 0032-0935, 2017, vol. 245, no. 5, pp. 965-976., Registrované v: WOS
301. [1.1] METALI, Faizah - ABU SALIM, Kamariah - TENNAKOON, Kushan - BURSLEM, David F. R. P. Controls on foliar nutrient and aluminium concentrations in a tropical tree flora: phylogeny, soil chemistry and interactions among elements. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2015, vol. 205, no. 1, pp. 280-292., Registrované v: WOS
302. [1.1] MEVADA, Adwait - PANDYA, N. Y. - GAJJAR, P. N. Electronic properties of MgZnPt₂ at extremely high temperatures and pressures. In *CHINESE JOURNAL OF PHYSICS*. ISSN 0577-9073, 2017, vol. 55, no. 3, pp. 1011-1017., Registrované v: WOS
303. [1.1] MIEREK-ADAMSKA, Agnieszka - ZNAJEWSKA, Zuzanna - GOC, Anna - DABROWSKA, Grazyna Barbara. Molecular cloning and characterization of *Ipomoea nil* metallothioneins. In *TURKISH JOURNAL OF BOTANY*. ISSN 1300-008X, 2018, vol. 42, no. 3, pp. 247-256., Registrované v: WOS
304. [1.1] MIKHAILOVA, Elena A. - HAGAN, Donald - SHARP, Julia - RITTER, Brian - STIGLITZ, Roxanne - MEALING, Veeander - ALLERTON, Tristan - BURDETTE, Kylie - SOLOMONS, Allen - SCHLAUTMAN, Mark A. Landscape, Soil, and Plant Analysis of Japanese Stiltgrass (*Microstegium vimineum*) Invasion in the Piedmont Region, SC. In *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*. ISSN 0010-3624, 2017, vol. 48, no. 9, pp. 1068-1077., Registrované v: WOS
305. [1.1] MISHRA, Bhoopesh - MCDONALD, Louis M. - ROY, Mimi - LANZIROTTI, Antonio - MYNENI, Satish C. B. Uptake and speciation of zinc in edible plants grown in smelter contaminated soils. In *PLOS ONE*. ISSN 1932-6203, 2020, vol. 15, no. 4, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0226180>., Registrované v: WOS
306. [1.1] MOHAMED, Heba I. - ELSHERBINY, Esraa A. - ABDELHAMID, Magdi T. Physiological and Biochemical Responses of *Vicia Faba* Plants to Foliar Application of Zinc and Iron. In *GESUNDE PFLANZEN*. ISSN 0367-4223, 2016, vol. 68, no. 4, pp. 201-212., Registrované v: WOS
307. [1.1] MOHAMMADI, Morad - HOSEINI, Naser Majnoun - CHAICHI, Mohammad Reza - ALIPOUR, Hadi - DASHTAKI, Mohammad - SAFIKHANI, Sara. Influence of nano-iron oxide and zinc sulfate on

- physiological characteristics of peppermint. In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. ISSN 0010-3624, 2018, vol. 49, no. 18, pp. 2315-2326., Registrované v: WOS
308. [1.1] MONTALBAN, Blanca - CROES, Sarah - WEYENS, Nele - CARMEN LOBO, Ma - PEREZ-SANZ, Araceli - VANGRONSVELD, Jaco. Characterization of bacterial communities associated with *Brassica napus* L. growing on a Zn-contaminated soil and their effects on root growth. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2016, vol. 18, no. 10, pp. 985-993., Registrované v: WOS
309. [1.1] MONTOYA, Monica - VALLEJO, Antonio - RECIO, Jaime - GUARDIA, Guillermo - MANUEL ALVAREZ, Jose. Zinc-nitrogen interaction effect on wheat biofortification and nutrient use efficiency. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2020, vol. 183, no. 2, pp. 169-179. Dostupné na: <https://doi.org/10.1002/jpln.201900339>., Registrované v: WOS
310. [1.1] MOREIRA, Helena - PEREIRA, Sofia I. A. - MARQUES, Ana P. G. C. - RANGEL, Antnio O. S. S. - CASTRO, Paula M. L. Mine land valorization through energy maize production enhanced by the application of plant growth-promoting rhizobacteria and arbuscular mycorrhizal fungi. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 7, pp. 6940-6950., Registrované v: WOS
311. [1.1] MOREIRA, Helena - PEREIRA, Sofia I. A. - MARQUES, Ana P. G. C. - RANGEL, Antonio O. S. S. - CASTRO, Paula M. L. Effects of soil sterilization and metal spiking in plant growth promoting rhizobacteria selection for phytotechnology purposes. In GEODERMA. ISSN 0016-7061, 2019, vol. 334, no., pp. 72-81., Registrované v: WOS
312. [1.1] MORENO-LORA, Aurora - DELGADO, Antonio. Factors determining Zn availability and uptake by plants in soils developed under Mediterranean climate. In GEODERMA. ISSN 0016-7061, 2020, vol. 376, no., pp. Dostupné na: <https://doi.org/10.1016/j.geoderma.2020.114509>., Registrované v: WOS
313. [1.1] MORINA, Filis - JOVANOVIĆ, Ljubinko - PROKIĆ, Ljiljana - VELJOVIĆ-JOVANOVIĆ, Sonja. Physiological basis of differential zinc and copper tolerance of *Verbascum* populations from metal-contaminated and uncontaminated areas. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 10, pp. 10005-10020., Registrované v: WOS
314. [1.1] MORINA, Filis - MISHRA, Archana - MIJOVILOVICH, Ana - MATOUSKOVA, Sarka - BRUECKNER, Dennis - SPAK, Josef - KUPPER, Hendrik. Interaction Between Zn Deficiency, Toxicity and Turnip Yellow Mosaic Virus Infection in *Nocca ochroleuca*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00739>., Registrované v: WOS
315. [1.1] MORI, Asako - KIRK, Guy J. D. - LEE, Jae-Sung - MORETE, Mark J. - NANDA, Amrit K. - JOHNSON-BEEBOUT, Sarah E. - WISSUWA, Matthias. Rice Genotype Differences in Tolerance of Zinc-Deficient Soils: Evidence for the Importance of Root-Induced Changes in the Rhizosphere. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 6, no., pp., Registrované v: WOS
316. [1.1] MOUSTAKAS, Michael - BAYCU, Gulriz - GEVREK, Nurbir

- MOUSTAKA, Julietta - CSATARI, Istvan - ROGNES, Sven Erik. Spatiotemporal heterogeneity of photosystem II function during acclimation to zinc exposure and mineral nutrition changes in the hyperaccumulator *Nocca caerulescens*. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2019, vol. 26, no. 7, pp. 6613-6624., Registrované v: WOS
317. [1.1] MOYNIER, Frederic - VANCE, Derek - FUJII, Toshiyuki - SAVAGE, Paul. The Isotope Geochemistry of Zinc and Copper. In NON-TRADITIONAL STABLE ISOTOPES. ISSN 1529-6466, 2017, vol. 82, no., pp. 543-600., Registrované v: WOS
318. [1.1] MUKHERJEE, Arnab - SUN, Youping - MORELIUS, Erving - TAMEZ, Carlos - BANDYOPADHYAY, Susmita - NIU, Genhua - WHITE, Jason C. - PERALTA-VIDEA, Jose R. - GARDEA-TORRESDEY, Jorge L. Differential Toxicity of Bare and Hybrid ZnO Nanoparticles in Green Pea (*Pisum sativum* L.): A Life Cycle Study. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 6, no., pp., Registrované v: WOS
319. [1.1] MUSCHITZ, Aurelie - RIOU, Catherine - MOLLET, Jean-Claude - GLOAGUEN, Vincent - FAUGERON, Celine. Modifications of cell wall pectin in tomato cell suspension in response to cadmium and zinc. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2015, vol. 37, no. 11, pp., Registrované v: WOS
320. [1.1] MUSILOVA, Janette - BYSTRICKA, Judita - LACHMAN, Jaromir - HARANGOZO, Lubos - TREBICHALSKY, Pavol - VOLNOVA, Beata. Potatoes A crop resistant against input of heavy metals from the metallicly contaminated soil. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2016, vol. 18, no. 6, pp. 547-552., Registrované v: WOS
321. [1.1] MYKOLENKO, S. - LIEDIENOV, V. - KHARYTONOV, M. - MAKIEIEVA, N. - KULIUSH, T. - QUERALT, I. - MARGUI, E. - HIDALGO, M. - PARDINI, G. - GISPERT, M. Presence, mobility and bioavailability of toxic metal(oids) in soil, vegetation and water around a Pb-Sb recycling factory (Barcelona, Spain). In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2018, vol. 237, no., pp. 569-580., Registrované v: WOS
322. [1.1] NADEEM, Faisal - AZHAR, Muhammad - ANWAR-UL-HAQ, Muhammad - SABIR, Muhammad - SAMREEN, Tayyaba - TUFAIL, Abdullah - AWAN, Hafiz Umair Masood - JUAN, Wu. Comparative Response of Two Rice (*Oryza sativa* L.) Cultivars to Applied Zinc and Manganese for Mitigation of Salt Stress. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9508, 2020, vol. 20, no. 4, pp. 2059-2072. Dostupné na: <https://doi.org/10.1007/s42729-020-00275-1>., Registrované v: WOS
323. [1.1] NADEEM, Faisal - FAROOQ, Muhammad. Application of Micronutrients in Rice-Wheat Cropping System of South Asia. In RICE SCIENCE. ISSN 1672-6308, 2019, vol. 26, no. 6, pp. 356-371., Registrované v: WOS
324. [1.1] NANDA, Amrit K. - PUJOL, Vincent - WISSUWA, Matthias. Patterns of stress response and tolerance based on transcriptome profiling of rice crown tissue under zinc deficiency. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 7, pp. 1715-1729., Registrované v: WOS
325. [1.1] NARDIS, Barbara O. - SILVA, Enilson B. - GRAZZIOTTI,

- Paulo H. - ALLEONI, Luis R. F. - MELO, Leonidas C. A. - FARNEZI, Mucio M. M. Availability and zinc accumulation in forage grasses grown in contaminated soil. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2018, vol. 20, no. 3, pp. 205-213., Registrované v: WOS
326. [1.1] NASIRI-SAVADKOOHI, S. - SAEIDI-SAR, S. - ABBASPOUR, H. - DEHPUR, A. A. PROTECTIVE ROLE OF EXOGENOUS NITRIC OXIDE AGAINST ZINC TOXICITY IN PLANTAGO MAJOR L. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2017, vol. 15, no. 4, pp. 511-524., Registrované v: WOS
327. [1.1] NASIR, Maryam - KHAN, Ahmad Sattar - BASRA, S. M. Ahmad - MALIK, Aman Ullah. Foliar application of moringa leaf extract, potassium and zinc influence yield and fruit quality of 'Kinnow' mandarin. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2016, vol. 210, no., pp. 227-235., Registrované v: WOS
328. [1.1] NAYAK, Pranati - RAM, Shidharth Sankar - KALIDASS, C. PIXE-based detection of elemental accumulation during direct organogenesis in Blepharispermum subsessile DC.: An endangered medicinal plant of Odisha, India. In X-RAY SPECTROMETRY. ISSN 0049-8246, 2017, vol. 46, no. 6, pp. 529-536., Registrované v: WOS
329. [1.1] NDOUR, Papa Mamadou Sitor - HEULIN, Thierry - ACHOUAK, Wafa - LAPLAZE, Laurent - CURNAC, Laurent. The rhizosphere: from desert plants adaptation to crop breeding. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 456, no. 1-2, pp. 1-13. Dostupné na: <https://doi.org/10.1007/s11104-020-04700-3>., Registrované v: WOS
330. [1.1] NEGRILA, Catalin Constantin - PREDOI, Mihai Valentin - ICONARU, Simona Liliana - PREDOI, Daniela. Development of Zinc-Doped Hydroxyapatite by Sol-Gel Method for Medical Applications. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
331. [1.1] NEILSEN, G. H. - NEILSEN, D. - FORGE, T. Environmental Limiting Factors for Cherry Production. In CHERRIES: BOTANY, PRODUCTION AND USES, 2017, vol., no., pp. 189-222., Registrované v: WOS
332. [1.1] NESSEM, Afaf A. - KASIM, Wedad A. Physiological Impact of Seed Priming with CaCl₂ or Carrot Root Extract on Lupinus termis Plants Fully Grown under Salinity Stress. In EGYPTIAN JOURNAL OF BOTANY. ISSN 0375-9237, 2019, vol. 59, no. 3, pp. 763-777., Registrované v: WOS
333. [1.1] NG, Kok Siew - HEAD, Ian - PREMIER, Giuliano C. - SCOTT, Keith - YU, Eileen - LLOYD, Jon - SADHUKHAN, Jhuma. A multilevel sustainability analysis of zinc recovery from wastes. In RESOURCES CONSERVATION AND RECYCLING. ISSN 0921-3449, 2016, vol. 113, no., pp. 88-105., Registrované v: WOS
334. [1.1] NI, Yifan - XIAO, Lian - WAN, Fengting - XU, Mengxuan - QIU, Lingzhi - LI, Junfeng - LI, Junli. COMPARISON OF THE EFFECTS OF ZNO NPS, MGO NPS AND IONIC ZINC AND MAGNESIUM ON WHEAT PLANTS. In FRESERIUS ENVIRONMENTAL BULLETIN. ISSN 1018-4619, 2019, vol. 28, no. 4, pp. 2561-2574., Registrované v: WOS
335. [1.1] NKRUMAH, Philip Nti - ECHEVARRIA, Guillaume - ERSKINE, Peter D. - VAN DER ENT, Antony. Contrasting nickel and zinc hyperaccumulation in subspecies of Dichapetalum gelonioides from Southeast Asia. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp.,

Registrované v: WOS

336. [1.1] NOUAIRI, Issam - MRABET, Moncef - RABHI, Mokded - MHADHBI, Haythem - ZRIBI, Kais. Cu-tolerant *Sinorhizobium meliloti* strain is beneficial for growth, Cu accumulation, and mineral uptake of alfalfa plants grown in Cu excess. In ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2015, vol. 61, no. 12, pp. 1707-1718., Registrované v: WOS
337. [1.1] NUNES, Matheus H. - DAVEY, Matthew P. - COOMES, David A. On the challenges of using field spectroscopy to measure the impact of soil type on leaf traits. In BIOGEOSCIENCES. ISSN 1726-4170, 2017, vol. 14, no. 13, pp. 3371-3385., Registrované v: WOS
338. [1.1] OLIVER, M. A. - GREGORY, P. J. Soil, food security and human health: a review. In EUROPEAN JOURNAL OF SOIL SCIENCE. ISSN 1351-0754, 2015, vol. 66, no. 2, pp. 257-276., Registrované v: WOS
339. [1.1] OLUWADARE, David A. - CARNEY, Helen E. - SARKER, Mosharraf H. - ENNIS, Christopher J. Kinetics of water-extractable zinc release from seaweed (*Fucus serratus*) as soil amendment. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2020, vol. 183, no. 2, pp. 136-143. Dostupné na: <https://doi.org/10.1002/jpln.201900398>., Registrované v: WOS
340. [1.1] ONDRASEK, Gabrijel - RENGEL, Zed - CLODE, Peta L. - KILBURN, Matt R. - GUAGLIARDO, Paul - ROMIC, Davor. Zinc and cadmium mapping by NanoSIMS within the root apex after short-term exposure to metal contamination. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2019, vol. 171, no., pp. 571-578., Registrované v: WOS
341. [1.1] ONG, Ghim Hock - WONG, Ling Shing - TAN, Ai Li - YAP, Chee Kong. Effects of metal-contaminated soils on the accumulation of heavy metals in gotu kola (*Centella asiatica*) and the potential health risks: a study in Peninsular Malaysia. In ENVIRONMENTAL MONITORING AND ASSESSMENT. ISSN 0167-6369, 2016, vol. 188, no. 1, pp., Registrované v: WOS
342. [1.1] OPOKU, Philipa - GIKUNOO, Emmanuel - ARTHUR, Emmanuel Kwesi - FOLI, Gordon. Removal of selected heavy metals and metalloids from an artisanal gold mining site in Ghana using indigenous plant species. In COGENT ENVIRONMENTAL SCIENCE. ISSN 2331-1843, 2020, vol. 6, no. 1, pp. Dostupné na: <https://doi.org/10.1080/23311843.2020.1840863>., Registrované v: WOS
343. [1.1] ORANI, Anna Maria - BARATS, Aurelie - VASSILEVA, Emilia - THOMAS, Olivier P. Marine sponges as a powerful tool for trace elements biomonitoring studies in coastal environment. In MARINE POLLUTION BULLETIN. ISSN 0025-326X, 2018, vol. 131, no., pp. 633-645., Registrované v: WOS
344. [1.1] OTLEWSKA, Anna - MIGLIORE, Melania - DYBKA-STEPIEN, Katarzyna - MANFREDINI, Andrea - STRUSZCZYK-SWITA, Katarzyna - NAPOLI, Rosario - BIALKOWSKA, Aneta - CANFORA, Loredana - PINZARI, Flavia. When Salt Meddles Between Plant, Soil, and Microorganisms. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.553087>., Registrované v: WOS
345. [1.1] OZAKI, Shinji - FRITSCH, Clementine - VALOT, Benoit -

MORA, Frederic - CORNIER, Thierry - SCHEIFLER, Renaud - RAOUL, Francis. Does pollution influence small mammal diet in the field? A metabarcoding approach in a generalist consumer. In *MOLECULAR ECOLOGY*. ISSN 0962-1083, 2018, vol. 27, no. 18, pp. 3700-3713., Registrované v: WOS

346. [1.1] PACZKA, Grzegorz - MAZUR-PACZKA, Anna - GARCZYNSKA, Mariola - KOSTECKA, Joanna - BUTT, Kevin R. Effects of Vermireactor Modifications on the Welfare of Earthworms *Eisenia fetida* (Sav.) and Properties of Vermicomposts. In *AGRICULTURE-BASEL*, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/agriculture10100481>., Registrované v: WOS

347. [1.1] PADASH, Akbar - SHAHABIVAND, Saleh - BEHTASH, Farhad - AGHAEI, Ahmad. A practicable method for zinc enrichment in lettuce leaves by the endophyte fungus *Piriformospora indica* under increasing zinc supply. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2016, vol. 213, no., pp. 367-372., Registrované v: WOS

348. [1.1] PACHOLCZAK, A. - PETELEWICZ, P. - JAGIELLO-KUBIEC, K. - ILCZUK, A. The effect of two biopreparations on rhizogenesis in stem cuttings of *Cotinus coggygria* Scop. In *EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE*. ISSN 1611-4426, 2015, vol. 80, no. 4, pp. 183-189., Registrované v: WOS

349. [1.1] PALANOG, Alvin D. - CALAYUGAN, Mark Ian C. - DESCALSOTA-EMPLEO, Gwen Iris - AMPARADO, Amery - INABANGAN-ASILO, Mary Ann - AROCENA, Emily C. - CRUZ, Pompe C. Sta - BORROMEO, Teresita H. - LALUSIN, Antonio - HERNANDEZ, Jose E. - ACUIN, Cecilia - REINKE, Russell - SWAMY, B. P. Mallikarjuna. Zinc and Iron Nutrition Status in the Philippines Population and Local Soils. In *FRONTIERS IN NUTRITION*. ISSN 2296-861X, 2019, vol. 6, no., pp., Registrované v: WOS

350. [1.1] PALUSINSKA, Malgorzata - BARABASZ, Anna - KOZAK, Katarzyna - PAPIERNIAK, Anna - MASLINSKA, Karolina - ANTOSIEWICZ, Danuta Maria. Zn/Cd status-dependent accumulation of Zn and Cd in root parts in tobacco is accompanied by specific expression of ZIP genes. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12870-020-2255-3>., Registrované v: WOS

351. [1.1] PANDOTRA, Pankaj - VIZ, Bhavana - RAM, Gandhi - GUPTA, Ajai Prakash - GUPTA, Suphla. Multi-elemental profiling and chemo-metric validation revealed nutritional qualities of *Zingiber officinale*. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2015, vol. 114, no., pp. 222-231., Registrované v: WOS

352. [1.1] PATACO, Ines Maria - LIDON, Fernando Cebola - RAMOS, Ines - OLIVEIRA, Karlana - GUERRA, Mauro - PESSOA, Maria Fernanda - CARVALHO, Maria Luisa - RAMALHO, Jose Cochicho - LEITAO, Antonio Eduardo - SANTOS, Jose Paulo - CAMPOS, Paula Scotti - SILVA, Maria Manuela - PAIS, Isabel P. - REBOREDO, Fernando Henrique. Biofortification of durum wheat (*Triticum turgidum* L. ssp *durum* (Desf.) Husnot) grains with nutrients. In *JOURNAL OF PLANT INTERACTIONS*. ISSN 1742-9145, 2017, vol. 12, no. 1, pp. 39-50., Registrované v: WOS

353. [1.1] PAUNOV, Momchil - KOLEVA, Lyubka - VASSILEV, Andon - VANGRONSVELD, Jaco - GOLTSEV, Vasilij. Effects of Different Metals on

- Photosynthesis: Cadmium and Zinc Affect Chlorophyll Fluorescence in Durum Wheat. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
354. [1.1] PAWLOWSKI, Michelle L. - HELFENSTEIN, Julian - FROSSARD, Emmanuel - HARTMAN, Glen L. Boron and zinc deficiencies and toxicities and their interactions with other nutrients in soybean roots, leaves, and seeds. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2019, vol. 42, no. 6, pp. 634-649., Registrované v: WOS
355. [1.1] PEDRO SIDA-ARREOLA, Juan - SANCHEZ, Esteban - LEOPOLDINA OJEDA-BARRIOS, Damaris - DOLORES AVILA-QUEZADA, Graciela - ANTONIA FLORES-CORDOVA, Maria - MARQUEZ-QUIROZ, Cesar - PRECIADO-RANGEL, Pablo. Can biofortification of zinc improve the antioxidant capacity and nutritional quality of beans? In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2017, vol. 29, no. 3, pp. 237-241., Registrované v: WOS
356. [1.1] PEREIRA, Alezania Silva - CORTEZ, Priscila Andressa - DE ALMEIDA, Alex-Alan Furtado - PRASAD, Majeti Narashima Vara - COSTA FRANCA, Marcel Giovanni - DA CUNHA, Maura - DE JESUS, Raildo Mota - OLIVEIRA MANGABEIRA, Pedro Antonio. Morphology, ultrastructure, and element uptake in *Calophyllum brasiliense* Cambess. (Calophyllaceae J. Agardh) seedlings under cadmium exposure. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 18, pp. 15576-15588., Registrované v: WOS
357. [1.1] PEREIRA, Talitha Soares - PEREIRA, Thais Soares - FIGUEREDO DE CARVALHO SOUZA, Carla Leticia - ALVINO LIMA, Emilly Juliane - BATISTA, Bruno Lemos - DA SILVA LOBATO, Allan Klynger. Silicon deposition in roots minimizes the cadmium accumulation and oxidative stress in leaves of cowpea plants. In *PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS*. ISSN 0971-5894, 2018, vol. 24, no. 1, pp. 99-114., Registrované v: WOS
358. [1.1] PERSSON, Daniel Pergament - DE BANG, Thomas C. - PEDAS, Pai R. - KUTMAN, Umit Baris - CAKMAK, Ismail - ANDERSEN, Birgit - FINNIE, Christine - SCHJOERRING, Jan K. - HUSTED, Soren. Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2016, vol. 211, no. 4, pp. 1255-1265., Registrované v: WOS
359. [1.1] PHUPHONG, Piyawan - CAKMAK, Ismail - YAZICI, Atilla - RERKASEM, Benjavan - PROM-U-THAI, Chanakan. Shoot and root growth of rice seedlings as affected by soil and foliar zinc applications. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2020, vol. 43, no. 9, pp. 1259-1267. Dostupné na: <https://doi.org/10.1080/01904167.2020.1730900>., Registrované v: WOS
360. [1.1] PITA-BARBOSA, Alice - RICACHENEVSKY, Felipe K. - WILSON, Michael - DOTTORINI, Tania - SALT, David E. Transcriptional plasticity buffers genetic variation in zinc homeostasis. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
361. [1.1] POBLACIONES, Maria J. - DAMON, Paul - RENGEL, Zed. Foliar zinc biofortification effects in *Lolium rigidum* and *Trifolium subterraneum* grown in cadmium-contaminated soil. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 9, pp., Registrované v: WOS

362. [1.1] POPOOLA, Lekan Taofeek - YUSUFF, Adeyinka Sikiru - ADERIBIGBE, Tajudeen Adejare. Assessment of natural groundwater physico-chemical properties in major industrial and residential locations of Lagos metropolis. In APPLIED WATER SCIENCE. ISSN 2190-5487, 2019, vol. 9, no. 8, pp., Registrované v: WOS
363. [1.1] PRAHARAJ, Subhashisa - SINGH, Rohitashav - SINGH, V. K. - GOUDA, Himansu Sekhar - SINGH, R. K. Effect of zinc fertilization on growth, yield attributes and yield of wheat (*Triticum aestivum*) crop under irrigated mollisol. In INDIAN JOURNAL OF AGRICULTURAL SCIENCES. ISSN 0019-5022, 2020, vol. 90, no. 11, pp. 2108-2112., Registrované v: WOS
364. [1.1] PRAKASH, Meppaloor G. - CHUNG, Ill Min. DETERMINATION OF ZINC OXIDE NANOPARTICLES TOXICITY IN ROOT GROWTH IN WHEAT (*TRITICUM AESTIVUM* L.) SEEDLINGS. In ACTA BIOLOGICA HUNGARICA. ISSN 0236-5383, 2016, vol. 67, no. 3, pp. 286-296., Registrované v: WOS
365. [1.1] PRASAD, Rajendra - SHIVAY, Yashbir Singh. Relative grain zinc loading ability of cereals (rice, wheat, maize) and a grain legume (chickpea). In INDIAN JOURNAL OF AGRICULTURAL SCIENCES. ISSN 0019-5022, 2018, vol. 88, no. 2, pp. 307-313., Registrované v: WOS
366. [1.1] PRAZAK, Roman - MOLAS, Jolanta. EFFECT OF COPPER CONCENTRATION ON MICROPROPAGATION AND ACCUMULATION OF SOME METALS IN THE DENDROBIUM KINGIANUM BIDWILL ORCHID. In JOURNAL OF ELEMENTOLOGY. ISSN 1644-2296, 2015, vol. 20, no. 3, pp. 693-703., Registrované v: WOS
367. [1.1] QIAO, Kun - TIAN, Yanbao - HU, Zhangli - CHAI, Tuanyao. Wheat Cell Number Regulator CNR10 Enhances the Tolerance, Translocation, and Accumulation of Heavy Metals in Plants. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2019, vol. 53, no. 2, pp. 860-867., Registrované v: WOS
368. [1.1] QIU, Yang - XIE, ZhongKui - WANG, XinPing - WANG, YaJun - ZHANG, YuBao - HE, YuHui - LI, WenMei - LV, WenCong. Effect of slow-release iron fertilizer on iron-deficiency chlorosis, yield and quality of *Lilium davidii* var. unicolor in a two-year field experiment. In SCIENCES IN COLD AND ARID REGIONS. ISSN 1674-3822, 2018, vol. 10, no. 5, pp. 421-427., Registrované v: WOS
369. [1.1] RAISH, Mohammad - AHMAD, Ajaz - ALKHARFY, Khalid M. - AL-JENOABI, Fahad I. - AL-MOHIZEA, Abdullah M. - MOHSIN, Kazi - AHAMAD, Syed Rizwan - ALI, Naushad - SHAKEEL, Faiyaz. Antioxidant Potential and In Situ Analysis of Major and Trace Element Determination of Ood-saleeb, a Known Unani Herbal Medicine by ICP-MS. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2016, vol. 172, no. 2, pp. 521-527., Registrované v: WOS
370. [1.1] RAJIV, P. - VANATHI, P. - THANGAMANI, A. An investigation of phytotoxicity using Eichhornia mediated zinc oxide nanoparticles on *Helianthus annuus*. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2018, vol. 16, no., pp. 419-424., Registrované v: WOS
371. [1.1] RAJPUT, Vishnu - MINKINA, Tatiana - SUSHKOVA, Svetlana - BEHAL, Arvind - MAKSIMOV, Alexey - BLICHARSKA, Eliza - GHAZARYAN, Karen - MOVSESYAN, Hasmik - BARSOVA, Natalia. ZnO

- and CuO nanoparticles: a threat to soil organisms, plants, and human health. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2020, vol. 42, no. 1, pp. 147-158. Dostupné na: <https://doi.org/10.1007/s10653-019-00317-3>., Registrované v: WOS
372. [1.1] RALIYA, Ramesh - TARAFDAR, Jagadish Chandra - BISWAS, Pratim. Enhancing the Mobilization of Native Phosphorus in the Mung Bean Rhizosphere Using ZnO Nanoparticles Synthesized by Soil Fungi. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 16, pp. 3111-3118., Registrované v: WOS
373. [1.1] RAMAKRISHNA, Bellamkonda - RAO, S. Seeta Ram. Foliar application of brassinosteroids alleviates adverse effects of zinc toxicity in radish (*Raphanus sativus* L.) plants. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 665-677., Registrované v: WOS
374. [1.1] RAM, H. - RASHID, A. - ZHANG, W. - DUARTE, A. P. - PHATTARAKUL, N. - SIMUNJI, S. - KALAYCI, M. - FREITAS, R. - RERKASEM, B. - BAL, R. S. - MAHMOOD, K. - SAVASLI, E. - LUNGU, O. - WANG, Z. H. - DE BARROS, V. L. N. P. - MALIK, S. S. - ARISOY, R. Z. - GUO, J. X. - SOHU, V. S. - ZOU, C. Q. - CAKMAK, I. Biofortification of wheat, rice and common bean by applying foliar zinc fertilizer along with pesticides in seven countries. In PLANT AND SOIL. ISSN 0032-079X, 2016, vol. 403, no. 1-2, pp. 389-401., Registrované v: WOS
375. [1.1] RANA, Vivek - MAITI, Subodh Kumar. Differential distribution of metals in tree tissues growing on reclaimed coal mine overburden dumps, Jharia coal field (India). In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 10, pp. 9745-9758., Registrované v: WOS
376. [1.1] RAY, R. - DUTTA, B. - MANDAL, S. K. - GONZALEZ, A. G. - POKROVSKY, O. S. - JANA, T. K. Bioaccumulation of vanadium (V), niobium (Nb) and tantalum (Ta) in diverse mangroves of the Indian Sundarbans. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 448, no. 1-2, pp. 553-564. Dostupné na: <https://doi.org/10.1007/s11104-020-04450-2>., Registrované v: WOS
377. [1.1] REEVES, Roger D. - VAN DER ENT, Antony - BAKER, Alan J. M. Global Distribution and Ecology of Hyperaccumulator Plants. In AGROMINING: FARMING FOR METALS: EXTRACTING UNCONVENTIONAL RESOURCES USING PLANTS. ISSN 2365-0559, 2018, vol., no., pp. 75-92., Registrované v: WOS
378. [1.1] REHMAN, Abdul - FAROOQ, Muhammad - OZTURK, Levent - ASIF, Muhammad - SIDDIQUE, Kadambot H. M. Zinc nutrition in wheat-based cropping systems. In PLANT AND SOIL. ISSN 0032-079X, 2018, vol. 422, no. 1-2, pp. 283-315., Registrované v: WOS
379. [1.1] REHMAN, Abdul - FAROOQ, Muhammad - ASIF, Muhammad - OZTURK, Levent. Supra-optimal growth temperature exacerbates adverse effects of low Zn supply in wheat. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2019, vol. 182, no. 4, pp. 656-666., Registrované v: WOS
380. [1.1] REICH, Martin - SHAHBAZ, Muhammad - PRAJAPATI, Dharmendra H. - PARMAR, Saroj - HAWKESFORD, Malcolm J. - DE KOK, Luit J. Interactions of Sulfate with Other Nutrients As Revealed by H₂S Fumigation of Chinese Cabbage. In FRONTIERS IN PLANT SCIENCE. ISSN

- 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
381. [1.1] REIS, Sara - PAVIA, Ivo - CARVALHO, Ana - MOUTINHO-PEREIRA, Jose - CORREIA, Carlos - LIMA-BRITO, Jose. Seed priming with iron and zinc in bread wheat: effects in germination, mitosis and grain yield. In PROTOPLASMA. ISSN 0033-183X, 2018, vol. 255, no. 4, pp. 1179-1194., Registrované v: WOS
382. [1.1] REPKA, Vladimir - FIALA, Roderik - CIAMPOROVA, Milada - PAVLOVKIN, Jan. Effects of ZnCl₂ on ROS generation, plasma membrane properties, and changes in protein expression in grapevine root explants. In BIOLOGIA. ISSN 0006-3088, 2016, vol. 71, no. 5, pp. 528-537., Registrované v: WOS
383. [1.1] REYNOLDS, R. Jason B. - CAPP, Jennifer J. - PILON-SMITS, Elizabeth A. H. Evolutionary Aspects of Plant Selenium Accumulation. In SELENIUM IN PLANTS: MOLECULAR, PHYSIOLOGICAL, ECOLOGICAL AND EVOLUTIONARY ASPECTS. ISSN 1572-5561, 2017, vol. 11, no., pp. 189-205., Registrované v: WOS
384. [1.1] RIBEIRO, Miguel A. Q. - DE ALMEIDA, Alex-Alan F. - ALVES, Taina F. O. - GRAMACHO, Karina P. - PIROVANI, Carlos P. - VALLE, Raul R. Rootstock x scion interactions on Theobroma cacao resistance to witches' broom: photosynthetic, nutritional and antioxidant metabolism responses. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2016, vol. 38, no. 3, pp., Registrované v: WOS
385. [1.1] RIBEIRO, Paula Godinho - MARTINS, Gabriel Caixeta - MOREIRA, Cristiano Goncalves - DE OLIVEIRA, Cynthia - ANDRADE, Maria Luiza de Carvalho - SALES, Thais Silva - CHAGAS, Wantuir Filipe Teixeira - LABORY, Claudia Regina Gontijo - DE CARVALHO, Teotonio Soares - GUILHERME, Luiz Roberto Guimaraes. Interactions of cadmium and zinc in high zinc tolerant native species *Andropogon gayanus* cultivated in hydroponics: growth endpoints, metal bioaccumulation, and ultrastructural analysis. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 36, pp. 45513-45526. Dostupné na: <https://doi.org/10.1007/s11356-020-10183-7>., Registrované v: WOS
386. [1.1] RICACHENEVSKY, Felipe Klein - MENGUER, Paloma Koprovski - SPEROTTO, Raul Antonio - FETT, Janette Palma. Got to hide your Zn away: Molecular control of Zn accumulation and biotechnological applications. In PLANT SCIENCE. ISSN 0168-9452, 2015, vol. 236, no., pp. 1-17., Registrované v: WOS
387. [1.1] RILEY, Christa L. - NEZAT, Carmen A. Controls on major ion chemistry and metals in a suburban pond fed by municipal water and treated stormwater. In APPLIED GEOCHEMISTRY. ISSN 0883-2927, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.apgeochem.2020.104576>., Registrované v: WOS
388. [1.1] RIZZOLO, Joana A. - BARBOSA, Cybelli G. G. - BORILLO, Guilherme C. - GODOI, Ana F. L. - SOUZA, Rodrigo A. F. - ANDREOLI, Rita V. - MANZI, Antonio O. - SA, Marta O. - ALVES, Eliane G. - POEHLKER, Christopher - ANGELIS, Isabella H. - DITAS, Florian - SATURNO, Jorge - MORAN-ZULOAGA, Daniel - RIZZO, Luciana V. - ROSARIO, Nilton E. - PAULIQUEVIS, Theotonio - SANTOS, Rosa M. N. - YAMAMOTO, Carlos I. - ANDREAE, Meinrat O. - ARTAXO, Paulo - TAYLOR, Philip E. - GODOI, Ricardo H. M. Soluble iron nutrients in Saharan dust over the central Amazon

rainforest. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2017, vol. 17, no. 4, pp. 2673-2687., Registrované v: WOS

389. [1.1] ROSTAMI, Majid - TALARPOSHTI, Reza Mirzaei - MOHAMMADI, Hoda - DEMYAN, Michael Scott. Morpho-physiological response of Saffron (*Crocus Sativus* L.) to particle size and rates of zinc fertilizer. In *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*. ISSN 0010-3624, 2019, vol. 50, no. 10, pp. 1250-1257., Registrované v: WOS

390. [1.1] ROUPHAEL, Youssef - COLLA, Giuseppe - BERNARDO, Letizia - KANE, David - TREVISAN, Marco - LUCINI, Luigi. Zinc Excess Triggered Polyamines Accumulation in Lettuce Root Metabolome, As Compared to Osmotic Stress under High Salinity. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS

391. [1.1] RUCINSKA-SOBKOWIAK, Renata. Water relations in plants subjected to heavy metal stresses. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2016, vol. 38, no. 11, pp., Registrované v: WOS

392. [1.1] SABOVLJEVIC, Marko S. - WEIDINGER, Marieluisse - SABOVLJEVIC, Aneta D. - ADLASSNIG, Wolfram - LANG, Ingeborg. Is the Binding Pattern of Zinc(II) Equal in Different Bryophyte Species? In *MICROSCOPY AND MICROANALYSIS*. ISSN 1431-9276, 2018, vol. 24, no. 1, pp. 69-74., Registrované v: WOS

393. [1.1] SAENCHAI, Chorpet - PROM-U-THAI, Chanakan - LORDKAEW, Sittichai - ROUACHED, Hatem - RERKASEM, Benjavan. Distribution of iron and zinc in plant and grain of different rice genotypes grown under aerobic and wetland conditions. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2016, vol. 71, no., pp. 108-115., Registrované v: WOS

394. [1.1] SAGHAFI, Davood - DELANGIZ, Nasser - LAJAYER, Behnam Asgari - GHORBANPOUR, Manour. An overview on improvement of crop productivity in saline soils by halotolerant and halophilic PGPRs. In *3 BIOTECH*. ISSN 2190-572X, 2019, vol. 9, no. 7, pp., Registrované v: WOS

395. [1.1] SAINI, Shalini - BHARATI, Kavita - SHAHA, Chandrima - MUKHOPADHYAY, Chinmay K. Zinc depletion promotes apoptosis-like death in drug-sensitive and antimony-resistance *Leishmania donovani*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

396. [1.1] SAITO, Shunya - UOZUMI, Nobuyuki. Calcium-Regulated Phosphorylation Systems Controlling Uptake and Balance of Plant Nutrients. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00044>., Registrované v: WOS

397. [1.1] SALIH, Zhian - AZIZ, Farhad. Heavy Metals Accumulation in Leaves of Five Plant Species as a Bioindicator of Steel Factory Pollution and their Effects on Pigment Content. In *POLISH JOURNAL OF ENVIRONMENTAL STUDIES*. ISSN 1230-1485, 2019, vol. 28, no. 6, pp. 4351-4358., Registrované v: WOS

398. [1.1] SAMARDJIEVA, Kalina A. - TAVARES, Fernando - PISSARRA, Jose. Histological and ultrastructural evidence for zinc sequestration in *Solanum nigrum* L. In *PROTOPLASMA*. ISSN 0033-183X, 2015, vol. 252, no. 1, pp. 345-357., Registrované v: WOS

399. [1.1] SAMARDJIEVA, Kalina A. - GONCALVES, Rui F. - VALENTAO, Patricia - ANDRADE, Paula B. - PISSARRA, Jose - PEREIRA, Susana - TAVARES, Fernando. Zinc Accumulation and Tolerance in *Solanum nigrum* are Plant Growth Dependent. In *INTERNATIONAL JOURNAL OF*

- PHYTOREMEDIATION. ISSN 1522-6514, 2015, vol. 17, no. 3, pp. 272-279., Registrované v: WOS
400. [1.1] SAMI, A. - SHAH, F. A. - ABDULLAH, M. - ZHOU, X. - YAN, Y. - ZHU, Z. - ZHOU, K. Melatonin mitigates cadmium and aluminium toxicity through modulation of antioxidant potential in *Brassica napus* L. In PLANT BIOLOGY. ISSN 1435-8603, 2020, vol. 22, no. 4, pp. 679-690. Dostupné na: <https://doi.org/10.1111/plb.13093>., Registrované v: WOS
401. [1.1] SAMREEN, Tayyeba - HUMAIRA - SHAH, Hamid Ullah - ULLAH, Saleem - JAVID, Muhammad. Zinc effect on growth rate, chlorophyll, protein and mineral contents of hydroponically grown mungbeans plant (*Vigna radiata*). In ARABIAN JOURNAL OF CHEMISTRY. ISSN 1878-5352, 2017, vol. 10, no., pp. S1802-S1807., Registrované v: WOS
402. [1.1] SARASWAT, Shweta - RAI, J. P. N. Aquatic macrophytes mediated remediation of toxic metals from moderately contaminated industrial effluent. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2018, vol. 20, no. 9, pp. 876-884., Registrované v: WOS
403. [1.1] SARKER, Md Mosharaf Hossain - MOSLEHUDDIN, Abu Zofar Md - JAHIRUDDIN, Md - ISLAM, Md Rafiqul. Direct and Residual Effects of Micronutrients on Crops in a Pattern in Floodplain Soil. In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. ISSN 0010-3624, 2019, vol., no., pp., Registrované v: WOS
404. [1.1] SARKER, Md Mosharaf Hossain - MOSLEHUDDIN, Abu Zofar Md - JAHIRUDDIN, M. - ISLAM, M. Rafiqul - TALUKDER, Rasendra. Effect of micronutrient fortified fertiliser application on the growth and yield components of tomato plant in floodplain soils of Bangladesh. In JOURNAL OF THE NATIONAL SCIENCE FOUNDATION OF SRI LANKA. ISSN 1391-4588, 2019, vol. 47, no. 2, pp. 161-168., Registrované v: WOS
405. [1.1] SATO, Yasushi - GOTO, Shinpei - TERAOKA, Shoya - TAKAGAKI, Katsuya - TAKEHARA, Akinari - SANO, Sakae - SAKAKIBARA, Masayuki. Establishment of an Aseptic Culture System and Analysis of the Effective Growth Conditions for *Eleocharis acicularis* Ramets for Use in Phytoremediation. In ENVIRONMENTS. ISSN 2076-3298, 2017, vol. 4, no. 2, pp., Registrované v: WOS
406. [1.1] SAYER, Emma J. - RODTASSANA, Chadtip - SHELDRAKE, Merlin - BRECHET, Laetitia M. - ASHFORD, Oliver S. - LOPEZ-SANGIL, Luis - KERDRAON-BYRNE, Deirdre - CASTRO, Biancolini - TURNER, Benjamin L. - WRIGHT, S. Joseph - TANNER, Edmund V. J. Revisiting nutrient cycling by litterfall-Insights from 15 years of litter manipulation in old-growth lowland tropical forest. In TROPICAL ECOSYSTEMS IN THE 21ST CENTURY. ISSN 0065-2504, 2020, vol. 62, no., pp. 173-223. Dostupné na: <https://doi.org/10.1016/bs.aecr.2020.01.002>., Registrované v: WOS
407. [1.1] SEEPRASERT, Prapamon - ANURAKPONGSATORN, Patana - LAOHAROJANAPHAND, Sirinart - BUSAMONGKOL, Arporn. Instrumental neutron activation analysis to determine inorganic elements in paddy soil and rice and evaluate bioconcentration factors in rice. In Agriculture and Natural Resources. ISSN 2452316X, 2017-06-01, 51, 3, pp. 154-157., Registrované v: WOS
408. [1.1] SHA ZHIMIN - YUE YUBO - CAO LINKUI - LU LINFANG. Measuring and analysis of non-essential element variation in soybean. In 2015 SEVENTH INTERNATIONAL CONFERENCE ON MEASURING

- TECHNOLOGY AND MECHATRONICS AUTOMATION (ICMTMA 2015). ISSN 2157-1473, 2015, vol., no., pp. 621-625., Registrované v: WOS
409. [1.1] SHAFIGH, Mahshid - HAMIDPOUR, Mohsen - FURRER, Gerhard. Zinc release from Zn-Mg-Fe(III)-LDH intercalated with nitrate, phosphate and carbonate: The effects of low molecular weight organic acids. In APPLIED CLAY SCIENCE. ISSN 0169-1317, 2019, vol. 170, no., pp. 135-142., Registrované v: WOS
410. [1.1] SHAFIQ, Sarfraz - ALI, Asim - SAJJAD, Yasar - ZEB, Qudsia - SHAHZAD, Muhammad - KHAN, Abdul Rehman - NAZIR, Rashid - WIDEMANN, Emilie. The Interplay between Toxic and Essential Metals for Their Uptake and Translocation Is Likely Governed by DNA Methylation and Histone Deacetylation in Maize. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 18, pp. Dostupné na: <https://doi.org/10.3390/ijms21186959>., Registrované v: WOS
411. [1.1] SHAFIQ, Sarfraz - ZEB, Qudsia - ALI, Asim - SAJJAD, Yasar - NAZIR, Rashid - WIDEMANN, Emilie - LIU, Liangyu. Lead, Cadmium and Zinc Phytotoxicity Alter DNA Methylation Levels to Confer Heavy Metal Tolerance in Wheat. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 19, pp., Registrované v: WOS
412. [1.1] SHAH, Azhar Hussain - SHAH, Safdar Hussain - AHMAD, Habib - SWATI, Zahoor Ahmad. Cross Tolerance Mechanisms of Osmotic and Ionic Stress Adapted Cell Lines of Rice Towards Salinity. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2015, vol. 17, no. 5, pp. 1019-1024., Registrované v: WOS
413. [1.1] SHARAFI, Yavar. Effects of zinc on pollen gamete penetration to pistils in some apple crosses assessed by fluorescence microscopy. In CARYOLOGIA. ISSN 0008-7114, 2019, vol. 72, no. 3, pp. 63-73., Registrované v: WOS
414. [1.1] SHARMA, Anket - SOARES, Cristiano - SOUSA, Bruno - MARTINS, Maria - KUMAR, Vinod - SHAHZAD, Babar - SIDHU, Gagan P. S. - BALI, Aditi S. - ASGHER, Mohd - BHARDWAJ, Renu - THUKRAL, Ashwani K. - FIDALGO, Fernanda - ZHENG, Bingsong. Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2020, vol. 168, no. 2, pp. 318-344. Dostupné na: <https://doi.org/10.1111/ppl.13004>., Registrované v: WOS
415. [1.1] SHELAK, Rahul Mahadev - WAGHUNDE, Rajesh Ramdas - MORITA, Eugene Hayato - HAYASHI, Hidenori. Plant-Microbe-Metal Interactions: Basics, Recent Advances, and Future Trends. In PLANT MICROBIOME: STRESS RESPONSE. ISSN 2512-1901, 2018, vol. 5, no., pp. 283-305., Registrované v: WOS
416. [1.1] SHEN, Zhangjun - WANG, Yupeng - CHEN, Yansong - ZHANG, Zhen. Transfer of heavy metals from the polluted rhizosphere soil to *Celosia argentea* L. in copper mine tailings. In HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY. ISSN 2211-3452, 2017, vol. 58, no. 1, pp. 93-100., Registrované v: WOS
417. [1.1] SHI, Wen-Guang - LI, Hong - LIU, Tong-Xian - POLLE, Andrea - PENG, Chang-Hui - LUO, Zhi-Bin. Exogenous abscisic acid alleviates zinc uptake and accumulation in *Populus x canescens* exposed to excess zinc. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2015, vol. 38, no. 1,

pp. 207-223., Registrované v: WOS

418. [1.1] SHI, Xiang - SUN, Haijing - CHEN, Yitai - PAN, Hongwei - WANG, Shufeng. Transcriptome Sequencing and Expression Analysis of Cadmium (Cd) Transport and Detoxification Related Genes in Cd-Accumulating *Salix integra*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS

419. [1.1] SHI, Zuokun - WANG, Shasha - PAN, Biying - LIU, Yongkang - LI, Yan - WANG, Shigui - WANG, Su - TANG, Bin. Effects of zinc acquired through the plant-aphid-ladybug food chain on the growth, development and fertility of *Harmonia axyridis*. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 259, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.127497>., Registrované v: WOS

420. [1.1] SHRI, P. Usha - PILLAY, Vasanth. Excess of soil zinc interferes with uptake of other micro and macro nutrients in *Sorghum bicolor* (L.) plants. In Indian Journal of Plant Physiology. ISSN 00195502, 2017-09-01, 22, 3, pp. 304-308., Registrované v: WOS

421. [1.1] SHTANGEEVA, Irina - TESFALIDET, Solomon - LOVGREN, Lars. Comparison of nutrient concentrations in leaves of five plants. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2017, vol. 40, no. 2, pp. 239-247., Registrované v: WOS

422. [1.1] SCHEEPERS, Maxime - SPIELMANN, Julien - BOULANGER, Madeleine - CARNOL, Monique - BOSMAN, Bernard - DE PAUW, Edwin - GOORMAGHTIGH, Erik - MOTTE, Patrick - HANIKENNE, Marc. Intertwined metal homeostasis, oxidative and biotic stress responses in the *Arabidopsis frd3* mutant. In PLANT JOURNAL. ISSN 0960-7412, 2020, vol. 102, no. 1, pp. 34-52. Dostupné na: <https://doi.org/10.1111/tbj.14610>., Registrované v: WOS

423. [1.1] SCHEID, Douglas L. - MARCO, Rudinei D. - GROLLI, Andre L. - DA SILVA, Rodrigo F. - DA ROS, Clovis O. - ANDREAZZA, Robson. Growth, tolerance and zinc accumulation in *Senna multijuga* and *Erythrina crista-galli* seedlings. In REVISTA BRASILEIRA DE ENGENHARIA AGRICOLA E AMBIENTAL. ISSN 1807-1929, 2017, vol. 21, no. 7, pp. 465-470., Registrované v: WOS

424. [1.1] SCHREINER, R. Paul. Nutrient Uptake and Distribution in Young Pinot noir Grapevines over Two Seasons. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, 2016, vol. 67, no. 4, pp. 436-448., Registrované v: WOS

425. [1.1] SIDDIQUI, Shadab Naseer - UMAR, Shahid - IQBAL, Muhammad. Zinc-induced modulation of some biochemical parameters in a high- and a low-zinc-accumulating genotype of *Cicer arietinum* L. grown under Zn-deficient condition. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 5, pp. 1335-1345., Registrované v: WOS

426. [1.1] SIDDIQUI, Shadab Naseer - UMAR, Shahid - AREF, Ibrahim M. - IQBAL, Muhammad. Growth and Yield Patterns of Chickpea Genotypes Differing in Zinc-accumulating Capacity. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2016, vol. 18, no. 5, pp. 1004-1010., Registrované v: WOS

427. [1.1] SIDHU, Gagan Preet Singh - BALI, Aditi Shreeya - SINGH, Harminder Pal - BATISH, Daizy R. - KOHLI, Ravinder Kumar. Insights into the tolerance and phytoremediation potential of *Coronopus didymus* L. (Sm) grown

under zinc stress. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 244, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125350>., Registrované v: WOS

428. [1.1] SINDHU, Satyavir S. - SHARMA, Ruchi - SINDHU, Swati - PHOUR, Manisha. Plant Nutrient Management Through Inoculation of Zinc-Solubilizing Bacteria for Sustainable Agriculture. In BIOFERTILIZERS FOR SUSTAINABLE AGRICULTURE AND ENVIRONMENT. ISSN 1613-3382, 2019, vol. 55, no., pp. 173-201., Registrované v: WOS

429. [1.1] SINGH, Akanksha - SHARMA, V. K. - DIKSHIT, H. K. - SINGH, D. - ASKI, M. - PRAKASH, Prapti - KAUSHIK, S. C. - SINGH, Gyanendra - KUMAR, Shiv - SARKER, A. Microsatellite marker-based genetic diversity analysis of elite lentil lines differing in grain iron and zinc concentration. In JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0971-7811, 2017, vol. 26, no. 2, pp. 199-207., Registrované v: WOS

430. [1.1] SINGH, M. - SINGH, K. Agronomic zinc biofortification of wheat. In AGROCHIMICA. ISSN 0002-1857, 2019, vol. 63, no. 4, pp. 307-317., Registrované v: WOS

431. [1.1] SKIBA, Elzbieta - MICHLEWSKA, Sylwia - PIETRZAK, Monika - WOLF, Wojciech M. Additive interactions of nanoparticulate ZnO with copper, manganese and iron in Pisum sativum L., a hydroponic study. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-70303-8>., Registrované v: WOS

432. [1.1] SOLAIMAN, Sandra G. - MIN, Byeng R. The effect of high levels of dietary zinc on growth performance, carcass. characteristics, blood parameters, immune response and tissue minerals in growing Boer-cross goat kids. In SMALL RUMINANT RESEARCH. ISSN 0921-4488, 2019, vol. 177, no., pp. 167-174., Registrované v: WOS

433. [1.1] SOLEIMANNEJAD, Zahra - SADEGHIPOUR, Hamid Reza - ABDOLZADEH, Ahmad - GOLALIPOUR, Masoud. Physiological responses of white mustard grown in Zn-contaminated soils. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2020, vol. 42, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03119-8>., Registrované v: WOS

434. [1.1] SONG, Mei-Ru - LI, Dong-Yao - NIAN, Fu-Yu - XUE, Jin-Ping - CHEN, Juan-Juan. Zeolitic imidazolate metal organic framework-8 as an efficient pH-controlled delivery vehicle for zinc phthalocyanine in photodynamic therapy. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2018, vol. 53, no. 4, pp. 2351-2361., Registrované v: WOS

435. [1.1] SONG, Shaole - SUN, Wei - WANG, Li - LIU, Runqing - HAN, Haisheng - HU, Yuehua - YANG, Yue. Recovery of cobalt and zinc from the leaching solution of zinc smelting slag. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2019, vol. 7, no. 1, pp., Registrované v: WOS

436. [1.1] SONG, Won-Yong - LEE, Hyun-Sook - JIN, Sang-Rak - KO, Donghwi - MARTINOIA, Enrico - LEE, Youngsook - AN, Gynheung - AHN, Sang-Nag. Rice PCR1 influences grain weight and Zn accumulation in grains. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2015, vol. 38, no. 11, pp. 2327-2339., Registrované v: WOS

437. [1.1] SONG, Yu - JIN, Liang - WANG, Xiaojuan. Cadmium absorption and transportation pathways in plants. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2017, vol. 19, no. 2,

pp. 133-141., Registrované v: WOS

438. [1.1] SOOMRO, Najaf Ali - WU, Qiao - AMUR, Safdar Ali - LIANG, Hao - RAHMAN, Aziz Ur - YUAN, Qeping - WEI, Yun. Natural drug phycion encapsulated zeolitic imidazolate framework, and their application as antimicrobial agent. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2019, vol. 182, no., pp., Registrované v: WOS

439. [1.1] SOUSA, Bruno - SOARES, Cristiano - OLIVEIRA, Francisca - MARTINS, Maria - BRANCO-NEVES, Simao - BARBOSA, Beatriz - ATAIDE, Ines - TEIXEIRA, Jorge - AZENHA, Manuel - AZEVEDO, Ricardo Antunes - FIDALGO, Fernanda. Foliar application of 24-epibrassinolide improves *Solanum nigrum* L. tolerance to high levels of Zn without affecting its remediation potential. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 244, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125579>., Registrované v: WOS

440. [1.1] SRIVASTAVA, Nitisha - KUMAR, Girjesh. Zinc Chloride Induced Meiotic Aberrations in Green Manure Crop *Sesbania cannabina* Poir. (Dhaincha). In CYTOLOGIA. ISSN 0011-4545, 2019, vol. 84, no. 2, pp. 127-130., Registrované v: WOS

441. [1.1] STEIN, Ricardo J. - HOERETH, Stephan - DE MELO, J. Romario F. - SYLLWASSCHY, Lara - LEE, Gwonjin - GARBIN, Mario L. - CLEMENS, Stephan - KRAEMER, Ute. Relationships between soil and leaf mineral composition are element-specific, environment-dependent and geographically structured in the emerging model *Arabidopsis halleri*. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 213, no. 3, pp. 1274-1286., Registrované v: WOS

442. [1.1] STRACHEL, Rafal - ZABOROWSKA, Magdalena - WYSZKOWSKA, Jadwiga. DELIBERATIONS ON ZINC A TRACE MINERAL OR A TOXIC ELEMENT? In JOURNAL OF ELEMENTOLOGY. ISSN 1644-2296, 2016, vol. 21, no. 2, pp. 625-639., Registrované v: WOS

443. [1.1] STURIKOVA, Helena - KRYSTOFOVA, Olga - HUSKA, Dalibor - ADAM, Vojtech. Zinc, zinc nanoparticles and plants. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2018, vol. 349, no., pp. 101-110., Registrované v: WOS

444. [1.1] SUN, Yafei - SONG, Ke - SUN, Lijuan - QIN, Qin - JIANG, Tingting - JIANG, Qiaoming - XUE, Yong. Morpho-physiological and transcriptome analysis provide insights into the effects of zinc application on nitrogen accumulation and metabolism in wheat (*Triticum aestivum* L.). In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2020, vol. 149, no., pp. 111-120. Dostupné na:

<https://doi.org/10.1016/j.plaphy.2020.01.038>., Registrované v: WOS

445. [1.1] SUZUI, Nobuo - YIN, Yong-Gen - ISHII, Satomi - SEKIMOTO, Hitoshi - KAWACHI, Naoki. Visualization of zinc dynamics in intact plants using positron imaging of commercially available Zn-65. In PLANT METHODS. ISSN 1746-4811, 2017, vol. 13, no., pp., Registrované v: WOS

446. [1.1] TADAYON, Mohammad Saeed - MOAFPOURIAN, Golamreza. Effects of Exogenous epi-brassinolid, zinc and boron foliar nutrition on fruit development and ripening of grape (*Vitis vinifera* L. clv. 'Khalili'). In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2019, vol. 244, no., pp. 94-101., Registrované v: WOS

447. [1.1] TAGHIZADEH, L. - MONTAZEROZOHORI, M. -

- MASOUDI ASL, A. - JOOHARI, S. - WHITE, J. M. New tetrahedral zinc halide Schiff base complexes: Synthesis, crystal structure, theoretical, 3D Hirshfeld surface analyses, antimicrobial and thermal studies. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 77, no., pp. 229-244., Registrované v: WOS
448. [1.1] TALEBI, Majid - TABATABAEI, Badraddin Ebrahim Sayed - AKBARZADEH, Hamid. Hyperaccumulation of Cu, Zn, Ni, and Cd in *Azolla* species inducing expression of methallothionein and phytochelatin synthase genes. In CHEMOSPHERE. ISSN 0045-6535, 2019, vol. 230, no., pp. 488-497., Registrované v: WOS
449. [1.1] TANG, Lu - YAO, Aijun - YUAN, Ming - TANG, Yetao - LIU, Jian - LIU, Xi - QIU, Rongliang. Transcriptional up-regulation of genes involved in photosynthesis of the Zn/Cd hyperaccumulator *Sedum alfredii* in response to zinc and cadmium. In CHEMOSPHERE. ISSN 0045-6535, 2016, vol. 164, no., pp. 190-200., Registrované v: WOS
450. [1.1] TANG, Ye-Tao - CLOQUET, Christophe - DENG, Teng-Hao-Bo - STERCKEMAN, Thibault - ECHEVARRIA, Guillaume - YANG, Wen-Jun - MOREL, Jean-Louis - QIU, Rong-Liang. Zinc Isotope Fractionation in the Hyperaccumulator *Nocca caerulea* and the Nonaccumulating Plant *Thlaspi arvense* at Low and High Zn Supply. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2016, vol. 50, no. 15, pp. 8020-8027., Registrované v: WOS
451. [1.1] TAN, Qiqi - LI, Jiazhu - CHEN, Zixun - MA, Ying - WANG, Guoan - JIA, Yufu - YAO, Hongyan - HAN, Wenxuan. Clarifying the influence of temperature on variances in plant metallic nutrients through minimizing the effect of precipitation. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2019, vol. 646, no., pp. 347-356., Registrované v: WOS
452. [1.1] TEWARI, Rajesh K. - KUMAR, Praveen - SHARMA, Parmanand. An effective antioxidant defense provides protection against zinc deficiency-induced oxidative stress in Zn-efficient maize plants. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2019, vol. 182, no. 5, pp. 701-707., Registrované v: WOS
453. [1.1] TIAN, Xiaoxia - LI, Li - MAO, Peichun - MENG, Lin - GUO, Qiang - LI, Shanshan. Tolerance and physiological responses of *Iris lactea* var. *chinensis* germplasm under zinc stress. In Chinese Journal of Applied and Environmental Biology. ISSN 1006687X, 2017-01-01, 23, 1, pp. 67-76., Registrované v: WOS
454. [1.1] TIAN, Zhengfang - YAO, Xianxian - MA, Kexin - NIU, Xingxing - GROTHE, Julia - XU, Qingni - LIU, Liansheng - KASKEL, Stefan - ZHU, Yufang. Metal-Organic Framework/Graphene Quantum Dot Nanoparticles Used for Synergistic Chemo-and Photothermal Therapy. In ACS OMEGA. ISSN 2470-1343, 2017, vol. 2, no. 3, pp. 1249-1258., Registrované v: WOS
455. [1.1] TIONG, Jingwen - MCDONALD, Glenn - GENC, Yusuf - SHIRLEY, Neil - LANGRIDGE, Peter - HUANG, Chun Y. Increased expression of six ZIP family genes by zinc (Zn) deficiency is associated with enhanced uptake and root-to-shoot translocation of Zn in barley (*Hordeum vulgare*). In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 207, no. 4, pp. 1097-1109., Registrované v: WOS
456. [1.1] TIRANI, M. Mazaheri - HAGHJOU, M. Madadkar - SULIEMAN, S. - ISMAILI, A. Comparative Evaluation of Zinc Oxide Effects on

- Tobacco (*Nicotiana tabacum* L.) Grown in Different Media. In JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY. ISSN 1680-7073, 2018, vol. 20, no. 4, pp. 787-802., Registrované v: WOS
457. [1.1] TIRANI, M. M. - HAGHJOU, M. M. REACTIVE OXYGEN SPECIES (ROS), TOTAL ANTIOXIDANT CAPACITY (AOC) AND MALONDIALDEHYDE (MDA) MAKE A TRIANGLE IN EVALUATION OF ZINC STRESS EXTENSION. In JOURNAL OF ANIMAL AND PLANT SCIENCES. ISSN 1018-7081, 2019, vol. 29, no. 4, pp. 1100-1111., Registrované v: WOS
458. [1.1] TRIPATHI, Durgesh Kumar - SINGH, Shweta - SINGH, Swati - MISHRA, Sanjay - CHAUHAN, D. K. - DUBEY, N. K. Micronutrients and their diverse role in agricultural crops: advances and future prospective. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2015, vol. 37, no. 7, pp., Registrované v: WOS
459. [1.1] TUFAIL, A. - LI, H. - NAEEM, A. - LI, T. X. Leaf cell membrane stability-based mechanisms of zinc nutrition in mitigating salinity stress in rice. In PLANT BIOLOGY. ISSN 1435-8603, 2018, vol. 20, no. 2, pp. 338-345., Registrované v: WOS
460. [1.1] UCURUM, Metin - OZDEMIR, Akin - TEKE, Cagatay - SERENCAM, Huseyin - IPEK, Mumtaz. Optimization of Adsorption Parameters for Ultra-Fine Calcite Using a Box-Behnken Experimental Design. In OPEN CHEMISTRY. ISSN 2391-5420, 2018, vol. 16, no. 1, pp. 992-1000., Registrované v: WOS
461. [1.1] ULLAH, Aman - FAROOQ, Muhammad - REHMAN, Abdul - HUSSAIN, Mubshar - SIDDIQUE, Kadambot H. M. Zinc nutrition in chickpea (*Cicer arietinum*): a review. In CROP & PASTURE SCIENCE. ISSN 1836-0947, 2020, vol. 71, no. 3, pp. 199-218. Dostupné na: <https://doi.org/10.1071/CP19357>., Registrované v: WOS
462. [1.1] ULLAH, Aman - FAROOQ, Muhammad - HUSSAIN, Mubshar. Improving the productivity, profitability and grain quality of kabuli chickpea with co-application of zinc and endophyte bacteria *Enterobacter* sp. MN17. In ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2020, vol. 66, no. 7, pp. 897-912. Dostupné na: <https://doi.org/10.1080/03650340.2019.1644501>., Registrované v: WOS
463. [1.1] UMANA, Maria Natalia - ZHANG, Caicai - CAO, Min - LIN, Luxiang - SWENSON, Nathan G. A core-transient framework for trait-based community ecology: an example from a tropical tree seedling community. In ECOLOGY LETTERS. ISSN 1461-023X, 2017, vol. 20, no. 5, pp. 619-628., Registrované v: WOS
464. [1.1] UMANA, Maria Natalia - ZHANG, Caicai - CAO, Min - LIN, Luxiang - SWENSON, Nathan G. A core-transient framework for trait-based community ecology: an example from a tropical tree seedling community. In ECOLOGY LETTERS. ISSN 1461-023X, 2017, vol. 20, no. 5, pp. 619-628., Registrované v: WOS
465. [1.1] UPADHYAYA, H. - DUTTA, B. K. - PANDA, S. K. Impact of zinc on dehydration and rehydration responses in tea. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2018, vol. 62, no. 2, pp. 395-399., Registrované v: WOS
466. [1.1] VERA-ESTRELLA, Rosario - GMEZ-MENDEZ, Maria F. - AMEZCUA-ROMERO, Julio C. - BARKLA, Bronwyn J. -

- ROSAS-SANTIAGO, Paul - PANTOJA, Omar. Cadmium and zinc activate adaptive mechanisms in *Nicotiana tabacum* similar to those observed in metal tolerant plants. In *PLANTA*. ISSN 0032-0935, 2017, vol. 246, no. 3, pp. 433-451., Registrované v: WOS
467. [1.1] VIDA KOVIC-CIFREK, Zeljka - TKALEC, Mirta - SIKIC, Sandra - TOLIC, Sonja - LEPEDUS, Hrvoje - PEVALEK-KOZLINA, Branka. Growth and photosynthetic responses of *Lemna minor* L. exposed to cadmium in combination with zinc or copper. In *ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY*. ISSN 0004-1254, 2015, vol. 66, no. 2, pp. 141-152., Registrované v: WOS
468. [1.1] VIDYA, Balasubramanian - SIVARAMAN, Gandhi - SUMESH, Remani Vasudevan - CHELLAPPA, Duraisamy. Fluorescein-Based "Turn On" Fluorescence Detection of Zn²⁺ and Its Applications in Imaging of Zn²⁺ in Apoptotic Cells. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2016, vol. 1, no. 13, pp. 4024-4029., Registrované v: WOS
469. [1.1] VIERS, Jerome - PROKUSHKIN, Anatoly S. - POKROVSKY, Oleg S. - KIRDYANOV, Alexander V. - ZOUITEN, Cyril - CHMELEFF, Jerome - MEHEUT, Merlin - CHABAUX, Francois - OLIVA, Priscia - DUPRE, Bernard. Zn isotope fractionation in a pristine larch forest on permafrost-dominated soils in Central Siberia. In *GEOCHEMICAL TRANSACTIONS*. ISSN 1467-4866, 2015, vol. 16, no., pp., Registrované v: WOS
470. [1.1] WANG, Dongdong - ZHOU, Jiajia - SHI, Ruohong - WU, Huihui - CHEN, Ruhui - DUAN, Beichen - XIA, Guoliang - XU, Pengping - WANG, Hui - ZHOU, Shu - WANG, Chengming - WANG, Haibao - GUO, Zhen - CHEN, Qianwang. Biodegradable Core-shell Dual-Metal-Organic-Frameworks Nanotheranostic Agent for Multiple Imaging Guided Combination Cancer Therapy. In *THERANOSTICS*. ISSN 1838-7640, 2017, vol. 7, no. 18, pp. 4605-4617., Registrované v: WOS
471. [1.1] WANG, Min - KONG, Fanmei - LIU, Rui - FAN, Qingqi - ZHANG, Xiaocun. Zinc in Wheat Grain, Processing, and Food. In *FRONTIERS IN NUTRITION*. ISSN 2296-861X, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.3389/fnut.2020.00124>., Registrované v: WOS
472. [1.1] WANG, Yanli - SEVERING, Edouard I. - KOORNNEEF, Maarten - AARTS, Mark G. M. FLC and SVP Are Key Regulators of Flowering Time in the Biennial/Perennial Species *Nocca caerulea*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.582577>., Registrované v: WOS
473. [1.1] WANG, Yi - WANG, Xiaolu - WANG, Chao - WANG, Ruijiao - PENG, Fan - XIAO, Xue - ZENG, Jian - FAN, Xing - KANG, Houyang - SHA, Lina - ZHANG, Haiqin - ZHOU, Yonghong. Proteomic Profiling of the Interactions of Cd/Zn in the Roots of Dwarf Polish Wheat (*Triticum polanicum* L.). In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
474. [1.1] WANG, Yuqing - HEEREMA, Richard J. - WALWORTH, James L. - DUNGAN, Barry - VANLEEUEWEN, Dawn - HOLGUIN, F. Omar. Nutraceuical Properties of Pecan Kernels Are Affected by Soil Zinc Fertilizer Application. In *HORTSCIENCE*. ISSN 0018-5345, 2020, vol. 55, no. 12, pp. 2001-2007. Dostupné na: <https://doi.org/10.21273/HORTSCI15314-20>.,

Registrované v: WOS

475. [1.1] WANG, Zhangmin - LIU, Qi - PAN, Fei - YUAN, Linxi - YIN, Xuebin. Effects of increasing rates of zinc fertilization on phytic acid and phytic acid/zinc molar ratio in zinc bio-fortified wheat. In FIELD CROPS RESEARCH. ISSN 0378-4290, 2015, vol. 184, no., pp. 58-64., Registrované v: WOS

476. [1.1] WEGIEL, Andrzej - BIELINIS, Ernest - POLOWY, Krzysztof. THE STOCK AND CONTENT OF MICRONUTRIENTS IN ABOVEGROUND BIOMASS OF SCOTS PINE STANDS OF DIFFERENT DENSITIES. In JOURNAL OF ELEMENTOLOGY. ISSN 1644-2296, 2019, vol. 24, no. 2, pp. 615-628., Registrované v: WOS

477. [1.1] WEREMCZUK, Aleksandra - RUSZCZYNSKA, Anna - BULSKA, Ewa - ANTOSIEWICZ, Danuta Maria. NO-Dependent programmed cell death is involved in the formation of Zn-related lesions in tobacco leaves. In METALLOMICS. ISSN 1756-5901, 2017, vol. 9, no. 7, pp. 924-935., Registrované v: WOS

478. [1.1] WEREMCZUK, Aleksandra - PAPIERNIAK, Anna - KOZAK, Katarzyna - WILLATS, William G. T. - ANTOSIEWICZ, Danuta Maria. Contribution of NtZIP1-like, NtZIP11 and a WAK-pectin based mechanism to the formation of Zn-related lesions in tobacco leaves. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 176, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104074>., Registrované v: WOS

479. [1.1] WJCIK, Magorzata - DRESLER, Sawomir - TUKIENDORF, Anna. Physiological mechanisms of adaptation of *Dianthus carthusianorum* L. to growth on a Zn-Pb waste deposit the case of chronic multi-metal and acute Zn stress. In PLANT AND SOIL. ISSN 0032-079X, 2015, vol. 390, no. 1-2, pp. 237-250., Registrované v: WOS

480. [1.1] WOJCIESZEK, Justyna - JIMENEZ-LAMANA, Javier - BIERLA, Katarzyna - ASZTEMBORSKA, Monika - RUZIK, Lena - JAROSZ, Maciej - SZPUNAR, Joanna. Elucidation of the fate of zinc in model plants using single particle ICP-MS and ESI tandem MS. In JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY. ISSN 0267-9477, 2019, vol. 34, no. 4, pp. 683-693., Registrované v: WOS

481. [1.1] WOJCIK, Pawel - FILIPCZAK, Jacek - WOJCIK, Marzena. Effects of prebloom sprays of tryptophan and zinc on calcium nutrition, yielding and fruit quality of 'Elstar' apple trees. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2019, vol. 246, no., pp. 212-216., Registrované v: WOS

482. [1.1] WOLF, Mariane - BARETTA, Dilmar - BECEGATO, Valter A. - ALMEIDA, Vitor de C. - PAULINO, Alexandre T. Copper/Zinc Bioaccumulation and the Effect of Phytotoxicity on the Growth of Lettuce (*Lactuca sativa* L.) in Non-contaminated, Metal-Contaminated and Swine Manure-Enriched Soils. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2017, vol. 228, no. 4, pp., Registrované v: WOS

483. [1.1] WONGKAEW, Arunee - NAKAMURA, Shin-ichi - SEKIMOTO, Hitoshi - YOKOYAMA, Tadashi - OHKAMA-OHTSU, Naoko. Phloem-specific overexpression of AtOPT6 in *Arabidopsis* enhances Zn transport into shoots. In PLANT SCIENCE. ISSN 0168-9452, 2019, vol. 285, no., pp. 91-98., Registrované v: WOS

484. [1.1] WORTHY, Samantha J. - LAUGHLIN, Daniel C. - ZAMBRANO, Jenny - UMANA, Maria N. - ZHANG, Caicai - LIN, Luxiang -

CAO, Min - SWENSON, Nathan G. Alternative designs and tropical tree seedling growth performance landscapes. In *ECOLOGY*. ISSN 0012-9658, 2020, vol. 101, no. 6, pp. Dostupné na: <https://doi.org/10.1002/ecy.3007>., Registrované v: WOS

485. [1.1] WU, Liang - GUO, Qing-Sheng - LIU, Yu-Qian - SUN, Qing-Jiang. Fluorescence Resonance Energy Transfer-Based Ratiometric Fluorescent Probe for Detection of Zn²⁺ Using a Dual-Emission Silica-Coated Quantum Dots Mixture. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2015, vol. 87, no. 10, pp. 5318-5323., Registrované v: WOS

486. [1.1] WU, Ping - CUI, Pei-Xin - FANG, Guo-Dong - WANG, Yu - WANG, Shen-Qiang - ZHOU, Dong-Mei - ZHANG, Wei - WANG, Yu-Jun. Biochar decreased the bioavailability of Zn to rice and wheat grains: Insights from microscopic to macroscopic scales. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 621, no., pp. 160-167., Registrované v: WOS

487. [1.1] WU, Xuexia - HE, Jie - DING, Haidong - ZHU, Zongwen - CHEN, Jianlin - XU, Shuang - ZHA, Dingshi. Modulation of zinc-induced oxidative damage in *Solanum melongena* by 6-benzylaminopurine involves ascorbate-glutathione cycle metabolism. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2015, vol. 116, no., pp. 1-11., Registrované v: WOS

488. [1.1] XIE, Ruohan - ZHAO, Jianqi - LU, Lingli - GE, Jun - BROWN, Patrick H. - WEI, Shuai - WANG, Runze - QIAO, Yabei - WEBB, Samuel M. - TIAN, Shengke. Efficient phloem remobilization of Zn protects apple trees during the early stages of Zn deficiency. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2019, vol. 42, no. 12, pp. 3167-3181., Registrované v: WOS

489. [1.1] XIE, Ruohan - ZHAO, Jianqi - LU, Lingli - BROWN, Patrick - GUO, Jiansheng - TIAN, Shengke. Penetration of foliar-applied Zn and its impact on apple plant nutrition status: in vivo evaluation by synchrotron-based X-ray fluorescence microscopy. In *HORTICULTURE RESEARCH*. ISSN 2662-6810, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41438-020-00369-y>., Registrované v: WOS

490. [1.1] XIE, Ruohan - ZHAO, Jianqi - LU, Lingli - BROWN, Patrick - LIN, Xianyong - WEBB, Samuel M. - GE, Jun - ANTIPOVA, Olga - LI, Luxi - TIAN, Shengke. Seasonal Zinc Storage and a Strategy for Its Use in Buds of Fruit Trees(1)([OPEN]). In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2020, vol. 183, no. 3, pp. 1200-1212. Dostupné na: <https://doi.org/10.1104/pp.19.01563>., Registrované v: WOS

491. [1.1] XING FEI - FU XING-ZHENG - WANG NAN-QI - XI JIAN-LONG - HUANG YI - ZHOU WEI - LING LI-LI - PENG LIANG-ZHI. Physiological changes and expression characteristics of ZIP family genes under zinc deficiency in navel orange (*Citrus sinensis*). In *JOURNAL OF INTEGRATIVE AGRICULTURE*. ISSN 2095-3119, 2016, vol. 15, no. 4, pp. 803-811., Registrované v: WOS

492. [1.1] XU, Qiuyun - GAO, Li - PENG, Wenqi - GAO, Bo - XU, Dongyu - SUN, Ke. Assessment of labile Zn in reservoir riparian soils using DGT, DIFS, and sequential extraction. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2018, vol. 160, no., pp. 184-190., Registrované v: WOS

493. [1.1] XU, Wei - HAO, Minhui - WANG, Juan - ZHANG, Chunyu - ZHAO, Xiuhai - VON GADOW, Klaus. Soil Elements Influencing Community Structure in an Old-Growth Forest in Northeastern China. In *FORESTS*. ISSN 1999-4907, 2016, vol. 7, no. 8, pp., Registrované v: WOS
494. [1.1] YADAV, Shivam - PRAJAPATI, Rajesh - ATRI, Neelam. UV-B-Heavy Metal Interaction: Comparative Evaluation on Photosynthetic Properties of Three Cyanobacteria. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2016, vol. 73, no. 5, pp. 739-746., Registrované v: WOS
495. [1.1] YAMUNARANI, Ramegowda - RAMEGOWDA, Venkategowda - GEETHA, Govind - JALENDRAKUMAR, Hagadur Gopal - UDAYAKUMAR, Makarla - SHANKAR, Ambarahalli Guligowda. Effect of Zn application on its uptake, distribution and concentration of Fe and Cu in finger millet [*Eleusine coracana* (L.) Gaertn.]. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2016, vol. 39, no. 4, pp. 569-580., Registrované v: WOS
496. [1.1] YANG, Jing Fan - LIU, Pingwei - KOMAN, Volodymyr B. - LIU, Albert Tianxiang - STRANO, Michael S. Synthetic Cells: Colloidal-sized state machines. In *ROBOTIC SYSTEMS AND AUTONOMOUS PLATFORMS: ADVANCES IN MATERIALS AND MANUFACTURING*, 2019, vol., no., pp. 361-386., Registrované v: WOS
497. [1.1] YAN, Bofang - ISAURE, Marie-Pierre - MOUNICOU, Sandra - CASTILLO-MICHEL, Hiram - DE NOLF, Wout - NGUYEN, Christophe - CORNU, Jean-Yves. Cadmium distribution in mature durum wheat grains using dissection, laser ablation-ICP-MS and synchrotron techniques. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.113987>., Registrované v: WOS
498. [1.1] YAO, Bao-Min - CHEN, Peng - SUN, Guo-Xin. Distribution of elements and their correlation in bran, polished rice, and whole grain. In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, 2020, vol. 8, no. 2, pp. 982-992. Dostupné na: <https://doi.org/10.1002/fsn3.1379>., Registrované v: WOS
499. [1.1] YOSHIHARA, Shizue - YAMAMOTO, Kasumi - NAKAJIMA, Yoshino - TAKEDA, Satomi - KURAHASHI, Kensuke - TOKUMOTO, Hayato. Absorption of zinc ions dissolved from zinc oxide nanoparticles in the tobacco callus improves plant productivity. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2019, vol. 138, no. 2, pp. 377-385., Registrované v: WOS
500. [1.1] YU, Xiaofen - LUO, Qingchen - HUANG, Kaixun - YANG, Guangxiao - HE, Guangyuan. Prospecting for Microelement Function and Biosafety Assessment of Transgenic Cereal Plants. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
501. [1.1] ZAKIRULLAH, Muhammad - INNAYAT, Sumayya - JAN, Tariq - ARIF, Muhammad - ALI, Muhammad - ALAM, Mehboob. The effect of different levels of amino acid and zinc on the quality and quantity of Berseem (*Trifolium alexandrinum*). In *ASIAN JOURNAL OF AGRICULTURE AND BIOLOGY*. ISSN 2307-8553, 2018, vol. 6, no. 3, pp. 379-384., Registrované v: WOS
502. [1.1] ZAMAN, Qamar Uz - ASLAM, Zubair - YASEEN, Muhammad - IHSAN, Muhammad Zahid - KHALIQ, Abdul - FAHAD, Shah - BASHIR, Safder - RAMZANI, P. M. A. - NAEEM, Muhammad. Zinc biofortification in rice: leveraging agriculture to moderate hidden hunger in developing countries. In

- ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2018, vol. 64, no. 2, pp. 147-161., Registrované v: WOS
503. [1.1] ZANETTI, D. - MENEZES, A. C. B. - SILVA, F. A. S. - COSTA E SILVA, L. F. - ROTA, P. P. - DETMANN, E. - ENGLE, T. E. - VALADARES FILHO, S. C. In situ and in vitro estimation of mineral release from common feedstuffs fed to cattle. In JOURNAL OF AGRICULTURAL SCIENCE. ISSN 0021-8596, 2017, vol. 155, no. 7, pp. 1160-1173., Registrované v: WOS
504. [1.1] ZENG, Houqing - ZHANG, Xin - DING, Ming - ZHU, Yiyong. Integrated analyses of miRNAome and transcriptome reveal zinc deficiency responses in rice seedlings. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no. 1, pp., Registrované v: WOS
505. [1.1] ZENG, Houqing - ZHANG, Xin - DING, Ming - ZHANG, Xiajun - ZHU, Yiyong. Transcriptome profiles of soybean leaves and roots in response to zinc deficiency. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2019, vol. 167, no. 3, pp. 330-351., Registrované v: WOS
506. [1.1] ZHANG, Haizhen - YANG, Jingli - LI, Wenlong - CHEN, Yingxi - LU, Han - ZHAO, Shicheng - LI, Dandan - WEI, Ming - LI, Chenghao. PuHSA4a Enhances Tolerance To Excess Zinc by Regulating Reactive Oxygen Species Production and Root Development in Populus. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2019, vol. 180, no. 4, pp. 2254-2271., Registrované v: WOS
507. [1.1] ZHANG, Huihui - XU, Zisong - GUO, Kaiwen - HUO, Yuze - HE, Guoqiang - SUN, Hongwei - GUAN, Yupeng - XU, Nan - YANG, Wei - SUN, Guangyu. Toxic effects of heavy metal Cd and Zn on chlorophyll, carotenoid metabolism and photosynthetic function in tobacco leaves revealed by physiological and proteomics analysis. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2020, vol. 202, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2020.110856>., Registrované v: WOS
508. [1.1] ZHANG, Li - YAN, Minfei - LI, Hongbing - REN, Yuanyuan - SIDDIQUE, Kadambot H. M. - CHEN, Yinglong - ZHANG, Suiqi. Effects of zinc fertilizer on maize yield and water-use efficiency under different soil water conditions. In FIELD CROPS RESEARCH. ISSN 0378-4290, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.fcr.2020.107718>., Registrované v: WOS
509. [1.1] ZHANG, Songhe - LIU, Kaihui - LV, Xiaoyang - WANG, PeiFang - WANG, Chao - ZHANG, Wenjing - HE, ZhenLi. Effects of nitric oxide on zinc tolerance of the submerged macrophyte Hydrilla verticillata. In AQUATIC BIOLOGY. ISSN 1864-7790, 2015, vol. 23, no. 1, pp. 61-69., Registrované v: WOS
510. [1.1] ZHANG, Yong - YAN, Yujing - FU, Chunxia - LI, Ming - WANG, Yan'an. Zinc sulfate spray increases activity of carbohydrate metabolic enzymes and regulates endogenous hormone levels in apple fruit. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2016, vol. 211, no., pp. 363-368., Registrované v: WOS
511. [1.1] ZHANG, Zhong-Hua - WANG, Hua - LIU, Jia - QIN, Wei - ZHU, Meng-Yan - ZU, Yuan-Gang - TANG, Zhong-Hua. The effects of soil metals on the composition of oil of Paeonia ostii seeds. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2015, vol. 10, no. 1, pp. 288-295.,

Registrované v: WOS

512. [1.1] ZHAO, Ning - YU, Guirui - HE, Nianpeng - WANG, Qiufeng - GUO, Dali - ZHANG, Xinyu - WANG, Ruili - XU, Zhiwei - JIAO, Cuicui - LI, Nani - JIA, Yanlong. Coordinated pattern of multi-element variability in leaves and roots across Chinese forest biomes. In GLOBAL ECOLOGY AND BIOGEOGRAPHY. ISSN 1466-822X, 2016, vol. 25, no. 3, pp. 359-367.,

Registrované v: WOS

513. [1.1] ZHENG, Haoquan - ZHANG, Yuning - LIU, Leifeng - WAN, Wei - GUO, Peng - NYSTROM, Andreas M. - ZOU, Xiaodong. One-pot Synthesis of Metal Organic Frameworks with Encapsulated Target Molecules and Their Applications for Controlled Drug Delivery. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2016, vol. 138, no. 3, pp. 962-968., Registrované v: WOS

514. [1.1] ZHONG, Yingxin - YANG, Mengtian - CAI, Jian - WANG, Xiao - ZHOU, Qin - CAO, Weixing - DAI, Tingbo - JIANG, Dong. Nitrogen topdressing timing influences the spatial distribution patterns of protein components and quality traits of flours from different pearling fractions of wheat (*Triticum aestivum* L.) grains. In FIELD CROPS RESEARCH. ISSN 0378-4290, 2018, vol. 216, no., pp. 120-128., Registrované v: WOS

515. [1.1] ZHOU, Xia - PENG, Jun-Ling - WEN, Cai-Ying - LIU, Ze-Yu - WANG, Xing-Hao - WU, Jian-Zhong - OU, Yong-Cong. Tuning the structure and Zn(II) sensing of lanthanide complexes with two phenylimidazophenanthrolines by acetonitrile hydrolysis. In CRYSTENGCOMM. ISSN 1466-8033, 2017, vol. 19, no. 43, pp. 6533-6539., Registrované v: WOS

516. [1.1] ZHU, Bin - HUO, Dong-Ao - HONG, Xiao-Xiao - GUO, Juan - PENG, Tao - LIU, Jie - HUANG, Xiao-Long - YAN, Hui-Qing - WENG, Qing-Bei - ZHANG, Xiao-Cun - DU, Xu-Ye. The *Salvia miltiorrhiza* NAC transcription factor SmNAC1 enhances zinc content in transgenic *Arabidopsis*. In GENE. ISSN 0378-1119, 2019, vol. 688, no., pp. 54-61., Registrované v: WOS

517. [1.1] ZINICOVSCAIA, Inga - GUNDORINA, Svetlana - VERGEL, Konstantin - GROZDOV, Dmitrii - CIOCARLAN, Alexandru - ARICU, Aculina - DRAGALIN, Ion - CIOCARLAN, Nina. Elemental analysis of Lamiaceae medicinal and aromatic plants growing in the Republic of Moldova using neutron activation analysis. In PHYTOCHEMISTRY LETTERS. ISSN 1874-3900, 2020, vol. 35, no., pp. 119-127. Dostupné na:

<https://doi.org/10.1016/j.phytol.2019.10.009>., Registrované v: WOS

518. [1.1] ZRIBI, Kais - NOUAIRI, Issam - SLAMA, Ines - TALBI-ZRIBI, Ons - MHADHBI, Haythem. *Medicago sativa* Sinorhizobium meliloti Symbiosis Promotes the Bioaccumulation of Zinc in Nodulated Roots. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2015, vol. 17, no. 1, pp. 49-55., Registrované v: WOS

519. [1.1] ZULFIQAR, Faisal - NAVARRO, Miriam - ASHRAF, Muhammad - AKRAM, Nudrat Aisha - MUNNE-BOSCH, Sergi. Nanofertilizer use for sustainable agriculture: Advantages and limitations. In PLANT SCIENCE. ISSN 0168-9452, 2019, vol. 289, no., pp., Registrované v: WOS

520. [1.2] ABDOLI, Majid - ESFANDIARI, Ezatollah - ALILOO, Ali Asghar - SADEGHZADEH, Behzad - MOUSAVI, Seyed Bahman. Study of genetic diversity in different wheat species with various genomes based on morphological characteristics and zinc use efficiency under two zinc-deficient

- growing conditions. In *Acta Agriculturae Slovenica*. ISSN 15819175, 2019-01-01, 113, 1, pp. 147-161., Registrované v: SCOPUS
521. [1.2] AJEESH KRISHNA, T. P. - ANTONY CEASAR, S. - MAHARAJAN, T. - RAMAKRISHNAN, M. - DURAIPANDIYAN, V. - AL-DHABI, N. A. - IGNACIMUTHU, S. Improving the zinc-use efficiency in plants: A review. In *Sabrao Journal of Breeding and Genetics*. ISSN 10297073, 2017-09-01, 49, 3, pp. 211-230., Registrované v: SCOPUS
522. [1.2] AL MAHMUD, Jubayer - BHUYAN, M. H.M.Borhannuddin - ANEE, Taufika Islam - NAHAR, Kamrun - FUJITA, Masayuki - HASANUZZAMAN, Mirza. Reactive oxygen species metabolism and antioxidant defense in plants under metal/metalloid stress. In *Plant Abiotic Stress Tolerance: Agronomic, Molecular and Biotechnological Approaches*, 2019-04-04, pp. 221-257., Registrované v: SCOPUS
523. [1.2] ATABAYEVA, Saule. Heavy metals accumulation ability of wild grass species from industrial areas of kazakhstan. In *Phytoremediation: Management of Environmental Contaminants*, Volume 3, 2016-01-01, pp. 157-208., Registrované v: SCOPUS
524. [1.2] ATABAYEVA, Saule. The possibility of use of oil seed plants and grasses for phytoremediation. In *Phytoremediation: Management of Environmental Contaminants*, 2019-01-02, 6, pp. 297-318., Registrované v: SCOPUS
525. [1.2] BADONI, Preeti - KUMARI, Maya - PATADE, Vikas Y. - AHMED, Zakwan. Effects of high concentrations of copper on growth and physiology of *Jatropha curcas* L. In *Biochemical and Cellular Archives*. ISSN 09725075, 2015-01-01, 15, 2, pp. 495-500., Registrované v: SCOPUS
526. [1.2] BASU, P. S. Physiological processes toward movement of micronutrients from soil to seeds in biofortification perspectives. In *Biofortification of Food Crops*, 2016-01-01, pp. 317-329., Registrované v: SCOPUS
527. [1.2] BERNARDY, K. - FARIAS, J. G. - DORNELES, A. O.S. - PEREIRA, A. S. - SCHORR, M. R.W. - THEWES, F. R. - LONDERO, J. E.L. - NICOLOSO, F. T. Changes in root morphology and dry matter production in *pfaffia glomerata* (Spreng.) pedersen accessions in response to excessive zinc. In *Revista Brasileira de Plantas Medicinai*s. ISSN 15160572, 2016-01-01, 18, 2, pp. 613-620., Registrované v: SCOPUS
528. [1.2] BLANCO, Juan A. Suitability of *Totora* (*Schoenoplectus californicus* (C.A. Mey.) Soják) for its use in constructed Wetlands in Areas Polluted with heavy metals. In *Sustainability* (Switzerland), 2018-12-20, 11, 1, pp., Registrované v: SCOPUS
529. [1.2] BLASCO, Begoña - NAVARRO-LEÓN, Eloy - RUIZ, Juan M. Oxidative Stress in Relation With Micronutrient Deficiency or Toxicity. In *Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants*, 2018-03-27, pp. 181-194., Registrované v: SCOPUS
530. [1.2] BOUKER, Hadjira - YSSAAD, Houcine Abdelhakim Reguieg - ARBAOUI, Mohamed - BELARBI, Amaria. Effect of zinc on parameters (protein, soluble sugar and proline) in bean (*vicia faba* L.). In *Plant Archives*. ISSN 09725210, 2019-01-01, 19, 2, pp. 2920-2924., Registrované v: SCOPUS
531. [1.2] CAPRILES, José M. - ALBARRACIN-JORDAN, Juan - LOMBARDO, Umberto - OSORIO, Daniela - MALEY, Blaine - GOLDSTEIN, Steven T. - HERRERA, Katherine A. - GLASCOCK, Michael D. - DOMIC,

- Alejandra I. - VEIT, Heinz - SANTORO, Calogero M. High-altitude adaptation and late Pleistocene foraging in the Bolivian Andes. In *Journal of Archaeological Science: Reports*. ISSN 2352409X, 2016-04-01, 6, pp. 463-474., Registrované v: SCOPUS
532. [1.2] CASTRO, Pedro Humberto - LILAY, Grmay H. - ASSUNÇÃO, Ana G.L. Regulation of Micronutrient Homeostasis and Deficiency Response in Plants. In *Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants*, 2018-03-27, pp. 1-15., Registrované v: SCOPUS
533. [1.2] CUCHIARA, Cristina Copstein - LARRÉ, Cristina Ferreira - PETERS, José Antonio. The objective of this study was to evaluate the combined effects of copper (Cu) and zinc (Zn) on sweet potato plants based on morphological parameters, mineral profiles, and antioxidant metabolism. In *Iheringia Serie Botanica*. ISSN 00734705, 2017-04-30, 72, 1, pp. 142-149., Registrované v: SCOPUS
534. [1.2] DALY, Darren Heenan - VELIVELLI, Siva L.S. - PRESTWICH, Barbara Doyle. The role of soil microbes in crop biofortification. In *Agriculturally Important Microbes for Sustainable Agriculture*, 2017-09-18, 1, pp. 333-356., Registrované v: SCOPUS
535. [1.2] DAS, Arpita - LAHA, Samrat - MANDAL, Sanchita - PAL, Sukanta - SIDDIQUI, Mohammed Wasim. Preharvest Biofortification of Horticultural Crops. In *Preharvest Modulation of Postharvest Fruit and Vegetable Quality*, 2017-01-01, pp. 381-434., Registrované v: SCOPUS
536. [1.2] DE SOUSA LIMA, Francisco - NASCIMENTO, Clistenes Williams Araújo - DA SILVA SOUSA, Carla. Zinc fertilization as an alternative to increase the concentration of micronutrients in edible parts of vegetables. In *Revista Brasileira de Ciencias Agrarias*. ISSN 19811160, 2015-01-01, 10, 3, pp. 403-408., Registrované v: SCOPUS
537. [1.2] DOTANIYA, M. L. - RAJENDIRAN, S. - DOTANIYA, C. K. - SOLANKI, Praveen - MEENA, V. D. - SAHA, J. K. - PATRA, A. K. Microbial assisted phytoremediation for heavy metal contaminated soils. In *Phytobiont and Ecosystem Restitution*, 2018-12-31, pp. 295-317., Registrované v: SCOPUS
538. [1.2] EL-DAHSHOURI, Mohamad Farouk - EL-FOULY, M. M. - KHALIFA, R. Kh M. - EL-GHANY, H. M.Abd. Effect of zinc foliar application at different physiological growth stages on yield and quality of wheat under sandy soil conditions. In *Agricultural Engineering International: CIGR Journal*, 2017-01-01, 2017, pp. 193-200., Registrované v: SCOPUS
539. [1.2] EMAMVERDIAN, Abolghassem - DING, Yulong - MOKHBERDORAN, Farzad - XIE, Yinfeng. Heavy metal stress and some mechanisms of plant defense response. In *Scientific World Journal*. ISSN 23566140, 2015-01-01, 2015, pp., Registrované v: SCOPUS
540. [1.2] ESFANDIARI, Ezatollah - ABDOLI, Majid - MOUSAVI, Seyed Bahman - SADEGHZADEH, Behzad. Impact of foliar zinc application on agronomic traits and grain quality parameters of wheat grown in zinc deficient soil. In *Indian Journal of Plant Physiology*. ISSN 00195502, 2016-09-01, 21, 3, pp. 263-270., Registrované v: SCOPUS
541. [1.2] ESFANDIARI, Ezatollah - ABDOLI, Majid - SADEGHZADEH, Behzad - MOUSAVI, Seyed Bahman. Evaluation of Turkish durum wheat (*Triticum turgidum* var. durum) genotypes based on quantitative traits and shoot zinc accumulation under zinc-deficient calcareous soil. In *Iranian Journal of Plant Physiology*. ISSN 22285512, 2018-06-01, 8, 4, pp. 2525-2537.,

Registrované v: SCOPUS

542. [1.2] EZE, Peter N. - KUMAHOR, Samuel K. Gaussian process simulation of soil Zn micronutrient spatial heterogeneity and uncertainty – A performance appraisal of three semivariogram models. In *Scientific African*, 2019-09-01, 5, pp., Registrované v: SCOPUS

543. [1.2] GAJIC, Gordana M. - PAVLOVIC, Pavle. The role of vascular plants in the phytoremediation of fly ash deposits. In *Phytoremediation: Methods, Management and Assessment*, 2018-01-01, pp. 151-236., Registrované v: SCOPUS

544. [1.2] GARG, Neera - SINGH, Sandeep. Arbuscular Mycorrhiza *Rhizophagus irregularis* and Silicon Modulate Growth, Proline Biosynthesis and Yield in *Cajanus cajan* L. Millsp. (pigeonpea) Genotypes Under Cadmium and Zinc Stress. In *Journal of Plant Growth Regulation*. ISSN 07217595, 2018-03-01, 37, 1, pp. 46-63., Registrované v: SCOPUS

545. [1.2] GRAMSS, Gerhard - VOIGT, Klaus Dieter. Seed crops reduce quality losses caused by soils of extreme mineral spans. In *Agricultural Research Updates*, 2017-01-01, 21, pp. 1-56., Registrované v: SCOPUS

546. [1.2] HANUMANTHAPPA, D. - VASUDEVAN, S. N. - SHAKUNTALA, N. M. - MUNISWAMY, M. - KISAN, B. - SANGEETA MACHA, I. Role of seed-Zn content on seed longevity of pigeonpea genotypes. In *Indian Journal of Agricultural Research*. ISSN 03678245, 2018-06-01, 52, 3, pp. 250-256., Registrované v: SCOPUS

547. [1.2] CHEN, Xiaochao - SCHÖNBERGER, Brigitte - MENZ, Jochen - LUDEWIG, Uwe. Plasticity of DNA methylation and gene expression under zinc deficiency in *Arabidopsis* roots. In *Plant and Cell Physiology*. ISSN 00320781, 2018-09-01, 59, 9, pp. 1790-1802., Registrované v: SCOPUS

548. [1.2] CHOJNACKA, Katarzyna - MICHALAK, Izabela - SAEID, Agnieszka - GODLEWSKA, Katarzyna - TUHY, Łukasz - SAMORAJ, Mateusz - DMYTRYK, Agnieszka - WIŚNIEWSKA, Aneta. Trace Elements a Threat or Benefit? In *Recent Advances in Trace Elements*, 2017-12-18, pp. 545-567., Registrované v: SCOPUS

549. [1.2] CHOUDHARY, Mahendra K. - KAVITA - HATWAL, A. P.K. - SINGH, B. Effect of biofertilizers and micronutrients on quality attributes of garlic (*Allium sativum* L.) var. G-282. In *Annals of Biology*. ISSN 09700153, 2015-12-01, 31, 2, pp. 275-278., Registrované v: SCOPUS

550. [1.2] IBRAHIM, Soad M.M. - HASHISH, Kh I. - LOBNA, S. Taha - MAZHER, Azza A.M. - KANDIL, M. M. In vitro culture protocol, micropropagation, acclimatization and chemical constituents of *Spathiphyllum cannifolium* plant under copper concentration effect. In *International Journal of PharmTech Research*. ISSN 09744304, 2016-01-01, pp. 33-41., Registrované v: SCOPUS

551. [1.2] JIAO, Xin Tian - XUE, Wei Jie - ZHAO, Yan Ling - ZHANG, Chang Bo - YAN, Lei - LIU, Zhong Qi. Effects of silicon and zinc interaction on the uptake of cadmium in rice seedlings. In *Journal of Agro-Environment Science*. ISSN 16722043, 2018-01-01, 37, 11, pp. 2491-2497., Registrované v: SCOPUS

552. [1.2] JIN, Cheng - ZHAO, Zhuan Jun - NAN, Zhong Ren - WANG, Sheng Li - WU, Wen Fei - WANG, Hou Cheng. Speciation characteristics and bioavailability of heavy metals in oasis soil under Pb, Zn combined stress. In *Huanjing Kexue/Environmental Science*. ISSN 02503301, 2015-01-01, 36, 5, pp.

1870-1876., Registrované v: SCOPUS

553. [1.2] KELLER, Markus. The Science of Grapevines: Anatomy and Physiology: Second Edition. In The Science of Grapevines: Anatomy and Physiology: Second Edition, 2015-01-20, pp. 1-509., Registrované v: SCOPUS

554. [1.2] KLEPECKAS, Martynas - JANUŠKAITIENĖ, Irena. The effect of various sapropel concentrations on content and fluorescence of photosynthetic pigments of bean. In Environmental Research, Engineering and Management. ISSN 13921649, 2016-01-01, 72, 4, pp. 28-36., Registrované v: SCOPUS

555. [1.2] KUMARI, Anita - SHEOKAND, Sunita - POOJA - KUMAR, Ashwani - MANN, Anita - KUMAR, Neeraj - DEVI, Sarita - RANI, Babita - KUMAR, Arvind - MEENA, B. L. Halophyte growth and physiology under metal toxicity. In Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes, 2019-01-01, pp. 83-113., Registrované v: SCOPUS

556. [1.2] KUMAR, Dhananjay - SINGH, D. P. - BARMAN, S. C. - KUMAR, Narendra. Heavy metal and their regulation in plant system: An overview. In Plant Responses to Xenobiotics, 2016-01-01, pp. 19-38., Registrované v: SCOPUS

557. [1.2] LAMBERS, Hans - OLIVEIRA, Rafael S. Plant physiological ecology. In Plant Physiological Ecology, 2019-01-01, pp. 1-699., Registrované v: SCOPUS

558. [1.2] LIU, Jian - LUO, Liqiang. Advances in research on the mechanisms of plant-driven mineral weathering. In Chinese Journal of Applied and Environmental Biology. ISSN 1006687X, 2019-01-01, 25, 6, pp. 1503-1511., Registrované v: SCOPUS

559. [1.2] LI, Peng - DU, Yumei - HUANG, Longbin - MITTER, Neena - XU, Zhi Ping. Nanotechnology promotes the R&D of new-generation micronutrient foliar fertilizers. In RSC Advances, 2016-01-01, 6, 73, pp. 69465-69478., Registrované v: SCOPUS

560. [1.2] LU, Xuelian - GU, Houwu - CHEN, Zhu - SHAN, Dandan - WANG, Wenjie - HE, Kuanxin - CHEN, Xueping. A preliminary research on BABA induced resistance to high Zn^{sup2+} stress of tobacco. In Acta Tabacaria Sinica. ISSN 10045708, 2015-12-31, 21, 6, pp. 40-49., Registrované v: SCOPUS

561. [1.2] MAŁKOWSKI, Eugeniusz - SITKO, Krzysztof - ZIELEŻNIK-RUSINOWSKA, Paulina - GIEROŃ, Żaneta - SZOPIŃSKI, Michał. Heavy metal toxicity: Physiological implications of metal toxicity in plants. In Plant Metallomics and Functional Omics: A System-Wide Perspective, 2019-01-01, pp. 253-301., Registrované v: SCOPUS

562. [1.2] MARCELO, Marcelo Caetano A. - POZEBON, Dirce - FERRÃO, Marco F. Multivariate analysis of the profile of elements concentrations in the yerba mate (*Ilex paraguariensis*) marketed in the MERCOSUR. In Revista Virtual de Química. ISSN 19846835, 2015-11-01, 7, 6, pp. 2400-2421., Registrované v: SCOPUS

563. [1.2] MARKERT, Bernd - FRÄNZLE, Stefan - WÜNSCHMANN, Simone. Chemical evolution: The biological system of the elements. In Chemical Evolution: The Biological System of the Elements, 2015-01-01, pp. 1-282., Registrované v: SCOPUS

564. [1.2] MAZAHERI TIRANI, Maryam - MADADKAR HAGHJOU, Maryam - ISMAILI, Ahmad. Hydroponic grown tobacco plants respond to zinc oxide nanoparticles and bulk exposures by morphological, physiological and

- anatomical adjustments. In Functional Plant Biology. ISSN 14454408, 2019-01-01, pp., Registrované v: SCOPUS
565. [1.2] MICHALAK, Izabela - SAEID, Agnieszka - CHOJNACKA, Katarzyna - GRAMZA, Mateusz. Trace Elements as Fertilizer Micronutrients. In Recent Advances in Trace Elements, 2017-12-18, pp. 299-318., Registrované v: SCOPUS
566. [1.2] MITRA, Gyanendra Nath. Regulation of nutrient uptake by plants: A biochemical and molecular approach. In Regulation of Nutrient Uptake by Plants: A Biochemical and Molecular Approach, 2015-01-01, pp. 1-195., Registrované v: SCOPUS
567. [1.2] MITRA, Gyanendranath. Essential plant nutrients and recent concepts about their uptake. In Essential Plant Nutrients: Uptake, Use Efficiency, and Management, 2017-08-07, pp. 3-36., Registrované v: SCOPUS
568. [1.2] MOBIN, Mohammad - KHAN, M. Nasir - ABBAS, Zahid Khorshid. Nitric oxide impact on plant adaptation to transition metal stress. In Nitric Oxide Action in Abiotic Stress Responses in Plants, 2015-01-01, pp. 155-167., Registrované v: SCOPUS
569. [1.2] MONGKHONSIN, Bodin - NAKBANPOTE, Woranan - MEESUNGNOEN, Orapan - PRASAD, Majeti Narasimha Vara. Adaptive and Tolerance Mechanisms in Herbaceous Plants Exposed to Cadmium. In Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation, 2018-12-05, pp. 73-109., Registrované v: SCOPUS
570. [1.2] MOREIRA, H. - PEREIRA, S. I.A. - CASTRO, P. M.L. Impact of heavy metals and metalloids on soil microorganisms of mining areas. In Contaminated Soils: Sources, Properties and Impacts, 2016-01-01, pp. 95-120., Registrované v: SCOPUS
571. [1.2] MORINA, Filis - VIDOVIĆ, Marija - KUKAVICA, Biljana - VELJOVIĆ-JOVANOVIĆ, Sonja. Induction of peroxidase isoforms in the roots of two *Verbascum thapsus* L. populations is involved in adaptive responses to excess Zn^{2+} and Cu^{2+} . In Botanica Serbica. ISSN 18212158, 2015-01-01, 39, 2, pp. 151-158., Registrované v: SCOPUS
572. [1.2] MOURATO, Miguel - PINTO, Filipa - MOREIRA, Inês - SALES, Joana - LEITÃO, Inês - MARTINS, Luisa Louro. The Effect of Cd Stress in Mineral Nutrient Uptake in Plants. In Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation, 2018-12-05, pp. 327-348., Registrované v: SCOPUS
573. [1.2] MOYNIER, Frédéric - VANCE, Derek - FUJII, Toshiyuki - SAVAGE, Paul. The isotope geochemistry of zinc and copper. In Non-Traditional Stable Isotopes, 2017-03-06, 82, pp. 543-600., Registrované v: SCOPUS
574. [1.2] NARENDHRAN, S. - RAJIV, P. - SIVARAJ, Rajeshwari. Influence of zinc oxide nanoparticles on growth of *sesamum indicum* L. in zinc deficient soil. In International Journal of Pharmacy and Pharmaceutical Sciences, 2016-01-01, 8, 3, pp. 365-371., Registrované v: SCOPUS
575. [1.2] NAZIR, Qudsia - HUSSAIN, Azhar - IMRAN, Muhammad - MAHMOOD, Sajid - AHMAD, Maqshoof - IQBAL, Muhammad Mazhar. Zinc biofortification of cereals through fertilizers: Recent advances and future perspectives. In Asian Journal of Agriculture and Biology, 2016-01-01, 4, 4, pp. 140-152., Registrované v: SCOPUS
576. [1.2] NIKOLIC, Milos V. - MIJAJLOVIC, Marina Z. - TOMOVIC,

- Dusan Lj - BUKONJIC, Andriana M. - JEVTIC, Verica V. - RATKOVIC, Zoran R. - TRIFUNOVIC, Srecko R. - RADIC, Gordana P. Synthesis and characterization of zinc(II)-complexes with S-alkyl derivatives of thiosalicylic acid. In Serbian Journal of Experimental and Clinical Research. ISSN 18208665, 2018-06-01, 19, 2, pp. 113-117., Registrované v: SCOPUS
577. [1.2] NOURI, Mohammad Zaman - GHAFFARI, Mohammad Reza - SOBHANIAN, Hamid - HAJIREZAEI, Mohammad Reza. Proteomics approach for identification of nutrient deficiency related proteins in crop plants. In Agricultural Proteomics Volume 2: Environmental Stresses, 2016-01-01, pp. 177-201., Registrované v: SCOPUS
578. [1.2] ORTIZ-ACEVEDO, A. - OSORIO-VEGA, N. W. - ECHEVERRI-GÓMEZ, J. - GONZÁLEZ-MURILLO, O. A. - MEDINA-SIERRA, M. Physiology of arbuscular mycorrhizal fungi. In Livestock Research for Rural Development. ISSN 01213784, 2015-01-01, 27, 9, pp., Registrované v: SCOPUS
579. [1.2] PANDEY, Nalini. Role of plant nutrients in plant growth and physiology. In Plant Nutrients and Abiotic Stress Tolerance, 2018-08-20, pp. 51-93., Registrované v: SCOPUS
580. [1.2] PAULA, Lucélia de Sousa - SILVA, Bianca do Carmo - DE PINHO, Wrielle Cordeiro Silva - BARBOSA, Maria Antonia Machado - GUEDES-LOBATO, Elaine Maria Silva - SEGURA, Fabiana Roberta - BATISTA, Bruno Lemos - JÚNIOR, Fernando Barbosa - LOBATO, Allan Klynger da Silva. Silicon (Si) ameliorates the gas exchange and reduces negative impacts on photosynthetic pigments in maize plants under Zinc (Zn) toxicity. In Australian Journal of Crop Science. ISSN 18352693, 2015-01-01, 9, 10, pp. 901-908., Registrované v: SCOPUS
581. [1.2] PAVITHRA, G. J. - MAHESH, S. - PARVATHI, M. S. - BASAVARAJESHWARI, R. M. - NATARAJA, K. N. - SHANKAR, A. G. Comparative growth responses and transcript profiling of zinc transporters in two tomato varieties under different zinc treatments. In Indian Journal of Plant Physiology. ISSN 00195502, 2016-06-01, 21, 2, pp. 208-212., Registrované v: SCOPUS
582. [1.2] POLTRONIERI, Yonara - MARTINEZ, Herminia Emilia Prieto - CLEMENTE, Junia Maria - FERREIRA, Aline de Oliveira. Boron, copper and zinc supply by insertion tablets in the coffee orthotropic stem. In Coffee Science. ISSN 18096875, 2016-01-01, 11, 4, pp. 521-529., Registrované v: SCOPUS
583. [1.2] POPOOLA, Lekan Taofeek. Groundwater characterization in major industrial and residential locations of Lagos metropolis. In Environmental Quality Management. ISSN 10881913, 2019-09-01, 29, 1, pp. 169-179., Registrované v: SCOPUS
584. [1.2] RAWAT, Jyoti - SANWAL, Pankaj - SAXENA, Jyoti. Towards the mechanisms of nutrient solubilization and fixation in soil system. In Role of Rhizospheric Microbes in Soil: Volume 2: Nutrient Management and Crop Improvement, 2018-06-19, pp. 229-257., Registrované v: SCOPUS
585. [1.2] REN, Chong - XU, Guo Yun - LI, Ming Juan - CUI, Yan Chun - WANG, Man Ling - XIA, Xin Jie. Zinc tolerance and its mechanism in autotetraploid arabidopsis thaliana. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2015-01-01, 51, 2, pp. 189-196., Registrované v: SCOPUS
586. [1.2] ROJANAPITHAYAKORN, Dararat - ARIYAKANON,

- Naiyanan. Electrokinetic enhancement on phytoremediation in zinc contaminated soil by Ruzi grass. In *EnvironmentAsia*. ISSN 19061714, 2016-01-01, 9, 1, pp. 92-98., Registrované v: SCOPUS
587. [1.2] ROUT, Gyana Ranjan - PANIGRAHI, Jogeswar. Analysis of signaling pathways during heavy metal toxicity: A functional genomics perspective. In *Elucidation of Abiotic Stress Signaling in Plants: Functional Genomics Perspectives*, Volume 2, 2015-01-01, pp. 295-322., Registrované v: SCOPUS
588. [1.2] SAIBI, Walid - BRINI, Faiçal. Superoxide dismutase (SOD) and abiotic stress tolerance in plants: An overview. In *Superoxide Dismutase: Structure, Synthesis and Applications*, 2018-01-01, pp. 101-142., Registrované v: SCOPUS
589. [1.2] SATHIYADASH, Kullaiyan - RAJENDRAN, Kuppu - KARTHIKEYAN, Veluswamy - MUTHUKUMAR, Thangavelu. Modulation of plant micronutrient uptake by arbuscular mycorrhizal fungi. In *Probiotics and Plant Health*, 2017-07-29, pp. 337-352., Registrované v: SCOPUS
590. [1.2] SHE, Xu - WANG, Zhaohui - MA, Xiaolong - CAO, Hanbing - HE, Hongxia - WANG, Sen. Variation of winter wheat grain zinc concentration and its relation to major soil characteristics in drylands of the loess plateau. In *Scientia Agricultura Sinica*. ISSN 05781752, 2017-11-16, 50, 22, pp. 4338-4349., Registrované v: SCOPUS
591. [1.2] SILVA, E. B. - ALLEONI, L. R.F. - SANTOS, S. R. - MAGALHÃES, S. C. - FARNEZI, M. M.M. Response of Physic Nut Trees to Liming of Acidic Soils. In *Communications in Soil Science and Plant Analysis*. ISSN 00103624, 2016-04-27, 47, 8, pp. 1023-1032., Registrované v: SCOPUS
592. [1.2] SINGH, N. P. - SANTAL, Anita Rani. Phytoremediation of heavy metals: The use of green approaches to clean the environment. In *Phytoremediation: Management of Environmental Contaminants*, Volume 2, 2015-01-01, pp. 115-129., Registrované v: SCOPUS
593. [1.2] SINISHA, Asari Kandi - PUTHUR, Jos Thomas. Comparative Study on the Zinc and Cadmium Tolerance Potential of Twelve Prominent Rice Cultivars. In *Journal of Crop Science and Biotechnology*. ISSN 19759479, 2018-09-01, 21, 3, pp. 201-210., Registrované v: SCOPUS
594. [1.2] SRIVASTAVA, P. C. - RAWAT, Deepa - PACHAURI, S. P. - SHRIVASTAVA, Manoj. Strategies for Enhancing Zinc Efficiency in Crop Plants. In *Nutrient Use Efficiency: From Basics to Advance*, 2015-01-01, pp. 87-101., Registrované v: SCOPUS
595. [1.2] SZEPESI, Ágnes - SZOLLOSI, Réka. Mechanism of Proline Biosynthesis and Role of Proline Metabolism Enzymes Under Environmental Stress in Plants. In *Plant Metabolites and Regulation under Environmental Stress*, 2018-03-20, pp. 337-353., Registrované v: SCOPUS
596. [1.2] UL HASSAN, Zaid - ALI, Shafaqat - RIZWAN, Muhammad - HUSSAIN, Afzal - AKBAR, Zaheer - RASOOL, Nasir - ABBAS, Faraht. Role of zinc in alleviating heavy metal stress. In *Essential Plant Nutrients: Uptake, Use Efficiency, and Management*, 2017-08-07, pp. 351-366., Registrované v: SCOPUS
597. [1.2] VAISHNAV, Anukool - VARMA, Ajit - TUTEJA, Narendra - CHOUDHARY, Devendra Kumar. PGPR-mediated amelioration of crops under salt stress. In *Plant-Microbe Interaction: An Approach to Sustainable Agriculture*, 2017-01-01, pp. 205-226., Registrované v: SCOPUS

598. [1.2] VASENEV, Ivan - ANDREEVA, Irina - KOSHKIN, Evgeniy - SAMARDŽIĆ, Miljan. Possibilities of rapeseed cultivation as bioenergetic crop under conditions of chemically degraded soils in Russia. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2017-01-01, 17, 43, pp. 725-732., Registrované v: SCOPUS
599. [1.2] WAKEEL, Abdul - FAROOQ, Muhammad - BASHIR, Khurram - OZTURK, Levent. Micronutrient Malnutrition and Biofortification: Recent Advances and Future Perspectives. In Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants, 2018-03-27, pp. 225-243., Registrované v: SCOPUS
600. [1.2] ZENG, Chao Zhen - YAN, Ming Li - LIU, Zhi Xiang. Heavy metal hyperaccumulator plants and their evolution: facts and controversies. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2019-08-20, 55, 8, pp. 1063-1074., Registrované v: SCOPUS
601. [1.2] ZHANG, Peng - YANG, Wenjun - DENG, Tenghaobo - CHAO, Yuanqing - WANG, Shizhong - QIU, Rongliang - TANG, Yetao. Stable isotope fractionation of zinc and cadmium in soil-plant system: A review. In Kexue Tongbao/Chinese Science Bulletin. ISSN 0023074X, 2018-10-01, 63, 28-29, pp. 2944-2953., Registrované v: SCOPUS
602. [1.2] ZHANG, Wei - XUE, Yan-Fang - CHEN, Xin-Ping - ZHANG, Fu-Suo - ZOU, Chun-Qin. Zinc nutrition for high productivity and human health in intensive production of wheat. In ADVANCES IN AGRONOMY, VOL 163. ISSN 0065-2113, 2020, vol. 163, no., pp. 179-217. Dostupné na: <https://doi.org/10.1016/bs.agron.2020.05.004>., Registrované v: WOS
603. [1.2] ZHANG, Xiaoli - ZHAI, Feifei - LI, Wei - LIU, Junxiang - QIAN, Yongqiang - HAN, Lei - SUN, Zhenyuan. Characteristics of Cadmium Absorption and Distribution in 27 Willow Clones. In Linze Kexue/Scientia Silvae Sinicae. ISSN 10017488, 2017-04-01, 53, 4, pp. 9-17., Registrované v: SCOPUS
604. [1.2] ZHANG, Ya Qin - LEI, Fei Yi - CHEN, Yu - LI, Si Jia - DOU, Ming Ming - MA, Liu Hui - SHI, Feng - CHEN, Xing Fu. Effect of combined fertilization of zinc, boron and molybdenum on agronomic traits and yield of *Angelica dahurica*. In Journal of Plant Nutrition and Fertilizers. ISSN 1008505X, 2018-01-01, 24, 3, pp. 769-778., Registrované v: SCOPUS
605. [1.2] Zhou, G., Li, B., Fu, Y., Guan, G., Yao, F., & Liu, G. (2019). Effects of iron, manganese and zinc deficiency on the symptom, photosynthetic characteristics and nutrient status of 'Nanfeng' tangerine. In *Acta Horticulturae Sinica*, 46(4), 691-700, Registrované v: SCOPUS
606. [3.2] Akin, Betül; Bingöl, Nuket Akanil. Heavy Metal Accumulation in Wetland Plants and Water-Sediment Relationship in Kopruluoren-Kutahya. In: *Journal of Limnology and Freshwater Fisheries Research*. ISSN: 2148-9300, 2019, Volume: 5 Issue: 2 Pages: 76-82
607. [3.2] Al-Maali, G. A.; Vedenicheva, N. P.; Bisko, N. A.; Kosakivska, I., V. Effect of microelements on cytokinins content in mycelial biomass of medicinal mushroom *Trametes versicolor* (Polyporaceae, Basidiomycota). In: *Ukrayins'kyi Botanichnyi Zhurnal*. ISSN: 0372-4123, 2019, Volume: 76 Issue: 1 Pages: 71-78
608. [3.2] Cen-Cen, Elmi Roseida; Gómez-Merino, Fernando; Martínez-Hernández, Aída. Tolerancia de *Agave tequilana* a altas

concentraciones de cationes metálicos divalentes. IN Polibotánica, 2015, vol. 0, iss. 40, p. 163-182., Registrované v: SciELO Citation Index

609. [3.2] de Oliveira Araújo, Érica; Ferreira Dos Santos, Élcio; Camacho, Marcos Antonio. Boron-zinc interaction in the absorption of micronutrients by cotton. IN Agronomía Colombiana, 2018, vol. 36, iss. 1, p. 51-57., Registrované v: SciELO Citation Index

610. [3.2] Gresikova, S.; Ollerova, H. Mercury as a risk factor for woody plants in the locations of Vel'ky Choc and Cierny Vah. In: Oecologia Montana. ISSN: 1210-3209, 2019, Volume: 28 Issue: 2 Pages: 70-76

611. [3.2] Meng, Lu; Sun, Liang; Tan, Longtao. Progress in ZIP transporter gene family in rice. IN Yichuan, 2018, vol. 40, iss. 1, p. 33-43., Registrované v: BIOSIS Citation Index

ADCA188 BRODACZEWSKA, Natalia - KOŠŤÁLOVÁ, Zuzana - UHRÍN, Dušan**. (3, 2)D 1H, 13C BIRD, X-HSQC-TOCSY for NMR structure elucidation of mixtures: application to complex carbohydrates. In *Journal of Biomolecular NMR*, 2018, vol. 70, p. 115-122. (2017: 2.534 - IF, Q2 - JCR, 1.371 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). Dostupné na: <https://doi.org/10.1007/s10858-018-0163-8>

Ohlasy:

1. [1.1] BECKER, Johanna - KOOS, Martin R. M. - SCHULZE-SUENNINGHAUSEN, David - LUY, Burkhard. ASAP-HSQC-TOCSY for fast spin system identification and extraction of long-range couplings. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2019, vol. 300, no., pp. 76-83., Registrované v: WOS
2. [1.1] GARCIA-VAQUERO, M. Analytical Methods and Advances to Evaluate Dietary Fiber. In DIETARY FIBER: PROPERTIES, RECOVERY, AND APPLICATIONS, 2019, vol., no., pp. 165-197., Registrované v: WOS
3. [1.1] SAKAS, Justinas - BELL, Nicholle G. A. Reduced dimensionality hyphenated NMR experiments for the structure determination of compounds in mixtures. In FARADAY DISCUSSIONS. ISSN 1359-6640, 2019, vol. 218, no., pp. 191-201., Registrované v: WOS
4. [1.1] SONG, Yuefan - WANG, Qiukuan - WANG, Qingjun - HE, Yunhai - REN, Dandan - LIU, Shu - WU, Long. Structural characterization and antitumor effects of fucoidans from brown algae *Kjellmaniella crassifolia* farmed in northern China. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 125-133., Registrované v: WOS
5. [1.1] USTYUZHANINA, Nadezhda E. - BILAN, Maria - NIFANTIEV, Nikolay E. - USOV, Anatolii. New insight on the structural diversity of holothurian fucosylated chondroitin sulfates. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2019, vol. 91, no. 7, pp. 1065-1071., Registrované v: WOS

ADCA189 BROWN, J.L. - KOSSACZKA, Z. - JIANG, B. - BUSSEY, H.A. A mutational analysis of killer toxin resistance in *Saccharomyces cerevisiae* identifies new genes involved in cell wall (1-6)-beta-glucan synthesis. In *Genetics*, 1993, vol.133, p. 837-849. ISSN 0016-6731.

Ohlasy:

1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk.

Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS

2. [1.1] BELDA, Ignacio - RUIZ, Javier - ALONSO, Alejandro - MARQUINA, Domingo - SANTOS, Antonio. The Biology of *Pichia membranifaciens* Killer Toxins. In TOXINS. ISSN 2072-6651, 2017, vol. 9, no. 4, pp., Registrované v: WOS

3. [1.1] DAVIDSON, Reshma - PONTASCH, Josef A. - WU, Jian-Qiu. Sbg1 Is a Novel Regulator for the Localization of the beta-Glucan Synthase Bgs1 in Fission Yeast. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS

4. [1.1] OLIVEIRA-GARCIA, Ely - DEISING, Holger B. Attenuation of PAMP-triggered immunity in maize requires down-regulation of the key beta-1,6-glucan synthesis genes KRE5 and KRE6 in biotrophic hyphae of *Colletotrichum graminicola*. In PLANT JOURNAL. ISSN 0960-7412, 2016, vol. 87, no. 4, pp. 355-375., Registrované v: WOS

5. [1.1] RODRIGUES, Celia F. - HENRIQUES, Mariana. Portrait of Matrix Gene Expression in *Candida glabrata* Biofilms with Stress Induced by Different Drugs. In GENES. ISSN 2073-4425, 2018, vol. 9, no. 4, pp., Registrované v: WOS

6. [1.1] SUKEGAWA, Yuko - NEGISHI, Takahiro - KIKUCHI, Yo - ISHII, Keiko - IMANARI, Miyuki - GHANEGOLMOHAMMADI, Farzan - NOGAMI, Satoru - OHYA, Yoshikazu. Genetic dissection of the signaling pathway required for the cell wall integrity checkpoint. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2018, vol. 131, no. 13, pp., Registrované v: WOS

7. [1.1] ZIMKUS, Aurelijus - MISIUNAS, Audrius - RAMANAVICIUS, Arunas - CHAUSTOVA, Larisa. Evaluation of Competence Phenomenon of Yeast *Saccharomyces cerevisiae* by Lipophilic Cations Accumulation and FT-IR Spectroscopy. Relation of Competence to Cell Cycle. In GENETIC TRANSFORMATION SYSTEMS IN FUNGI, VOL 1. ISSN 2198-7777, 2015, vol., no., pp. 239-252., Registrované v: WOS

8. [3.2] Group Author(s). Uniprot Consortium. P32893. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/P32893>, Registrované v: Data Citation Index

ADCA190 BRULL, L.P. - KOVÁČIK, Vladimír - THOMAS-OATES, J. - HEERMA, W. - HAVERKAMP, J. Sodium-cationized oligosaccharides do not appear to undergo 'internal residue loss' rearrangement processes on tandem mass spectrometry. In *Rapid Communications in Mass Spectrometry*, 1998, vol. 12, p. 1520-1532. ISSN 0951-4198. Dostupné na: [https://doi.org/10.1002/\(sici\)1097-0231\(19981030\)12:20<1520::aid-rcm336>3.0.co;2-w](https://doi.org/10.1002/(sici)1097-0231(19981030)12:20<1520::aid-rcm336>3.0.co;2-w)

Ohlasy:

1. [1.1] FREDENHAGEN, A. - KUHNOL, J. - KITTELMANN, M. - OBERER, L. Gas-Phase Rearrangement of the O-Glucuronide of Vildagliptin Forms Product-Ion Fragments Suggesting Wrongly an N-Glucuronide (vol 47, pg 189, 2019). In DRUG METABOLISM AND DISPOSITION. ISSN 0090-9556, 2019, vol. 47, no. 5, pp. 545-546., Registrované v: WOS

2. [1.1] LETTOW, Maike - MUCHA, Eike - MANZ, Christian - THOMAS, Daniel A. - MARIANSKI, Mateusz - MEIJER, Gerard - VON

HELDEN, Gert - PAGEL, Kevin. The role of the mobile proton in fucose migration. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 19, pp. 4637-4645., Registrované v: WOS

3. [1.1] PU, Yi - RIDGEWAY, Mark E. - GLASKIN, Rebecca S. - PARK, Melvin A. - COSTELLO, Catherine E. - LIN, Cheng. Separation and Identification of Isomeric Glycans by Selected Accumulation-Trapped Ion Mobility Spectrometry-Electron Activated Dissociation Tandem Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 7, pp. 3440-3443., Registrované v: WOS

4. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In Analysis of Post-Translational Modifications Using Mass Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA191 BRÜLL, L.P. - HEERMA, W. - THOMAS-OATES, J.E. - HAVERKAMP, J. - KOVACIK, Vladimír - KOVÁČ, P. Loss of internal 1-6 substituted monosaccharide residues from underivatized and per-O-methylated trisaccharides. In *Journal of the American Society for Mass Spectrometry*, 1997, vol. 8, p. 43.

Ohlasy:

1. [1.1] AGYEKUM, Isaac - PEPI, Lauren - YU, Yanlei - LI, Junhui - YAN, Lufeng - LINHARDT, Robert J. - CHEN, Shiguo - AMSTER, I. Jonathan. Structural elucidation of fucosylated chondroitin sulfates from sea cucumber using FTICR-MS/MS. In EUROPEAN JOURNAL OF MASS SPECTROMETRY. ISSN 1469-0667, 2018, vol. 24, no. 1, pp. 157-167., Registrované v: WOS
2. [1.1] BANOUB, Joseph H. - DEMIAN, Wael L. L. - PIAZZETTA, Paolo - SARKIS, George - KANAWATI, Basem - LAFONT, Dominique - LAURENT, Nicolas - VAILLANT, Celine - RANDELL, Edward - GIORGI, Gianluca - FRIDGEN, Travis D. The in situ gas-phase formation of a C-glycoside ion obtained during electrospray ionization tandem mass spectrometry. A unique intramolecular mechanism involving an ion-molecule reaction. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2015, vol. 29, no. 19, pp. 1717-1732., Registrované v: WOS
3. [1.1] CHANDLER, Kevin Brown - ALAMOUD, Khalid A. - STAHL, Vanessa L. - NGUYEN, Bach-Cuc - KARTHA, Vinay K. - BAIS, Manish - NOMOTO, Kenichi - OWA, Takashi - MONTI, Stefano - KUKURUZINSKA, Maria A. - COSTELLO, Catherine E. beta-Catenin/CBP inhibition alters epidermal growth factor receptor fucosylation status in oral squamous cell carcinoma. In MOLECULAR OMICS, 2020, vol. 16, no. 3, pp. 195-209. Dostupné na: <https://doi.org/10.1039/d0mo00009d>., Registrované v: WOS
4. [1.1] LETTOW, Maike - MUCHA, Eike - MANZ, Christian - THOMAS, Daniel A. - MARIANSKI, Mateusz - MEIJER, Gerard - VON HELDEN, Gert - PAGEL, Kevin. The role of the mobile proton in fucose migration. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 19, pp. 4637-4645., Registrované v: WOS
5. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. New strategies for profiling and characterization of human milk oligosaccharides. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786.

- Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>., Registrované v: WOS
6. [1.1] RATH, Cornelia B. - SCHIRMEISTER, Falko - FIGL, Rudolf - SEEBERGER, Peter H. - SCHAEFFER, Christina - KOLARICH, Daniel. Flagellin Glycoproteomics of the Periodontitis Associated Pathogen *Selenomonas sputigena* Reveals Previously Not Described O-glycans and Rhamnose Fragment Rearrangement Occurring on the Glycopeptides. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2018, vol. 17, no. 4, pp. 721-736., Registrované v: WOS
 7. [1.1] TANG, Yang - PU, Yi - GAO, Jinshan - HONG, Pengyu - COSTELLO, Catherine E. - LIN, Cheng. De Novo Glycan Sequencing by Electronic Excitation Dissociation and Fixed-Charge Derivatization. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2018, vol. 90, no. 6, pp. 3793-3801., Registrované v: WOS
 8. [1.1] TANG, Yang - WEI, Juan - COSTELLO, Catherine E. - LIN, Cheng. Characterization of Isomeric Glycans by Reversed Phase Liquid Chromatography-Electronic Excitation Dissociation Tandem Mass Spectrometry. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2018, vol. 29, no. 6, pp. 1295-1307., Registrované v: WOS
 9. [1.1] WONG, Y-L. Elaine - CHEN, Xiangfeng - LI, Wan - WANG, Ze - HUNG, Y.L. Winnie - WU, Ri - CHAN, T.W. Dominic. Differentiation of Isomeric Ginsenosides by Using Electron-Induced Dissociation Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 11, pp. 5590-5594., Registrované v: WOS
 10. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In Coupling and Decoupling of Diverse Molecular Units in Glycosciences, 2017-11-20, pp. 225-267., Registrované v: SCOPUS
 11. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In Analysis of Post-Translational Modifications Using Mass Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA192 BRÜLL, L.P. - KOVÁČIK, Vladimír - THOMAS-OATES, J.E. - HEERMA, W. - HAVERKAMP, J. Sodium-cationized oligosaccharides do not appear to undergo "internal residue loss" rearrangement processes on tandem mass spectrometry. In *Rapid Communications in Mass Spectrometry*, 1998, vol. 12, p. 1520-1532.

Ohlasy:

1. [1.1] DILLON, Francisco M. - CHLUDIL, Hugo D. - ZAVALA, Jorge A. Solar UV-B radiation modulates chemical defenses against *Anticarsia gemmatilis* larvae in leaves of field-grown soybean. In PHYTOCHEMISTRY. ISSN 0031-9422, 2017, vol. 141, no., pp. 27-36., Registrované v: WOS
2. [1.1] HONG, Pengyu - SUN, Hui - SHA, Long - PU, Yi - KHATRI, Kshitij - YU, Xiang - TANG, Yang - LIN, Cheng. GlycoDeNovo an Efficient Algorithm for Accurate de novo Glycan Topology Reconstruction from Tandem Mass Spectra. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2017, vol. 28, no. 11, pp. 2288-2301., Registrované v: WOS
3. [1.1] CHIZHOV, A. O. - FILATOV, A. V. - PEREPELOV, A. V. - KNIREL, Y. A. A New Example of Rearrangement Observed in the Tandem

- Mass Spectra of Oligosaccharides. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2020, vol. 75, no. 14, pp. 1842-1845. Dostupné na: <https://doi.org/10.1134/S1061934820140075>., Registrované v: WOS
4. [1.1] OURSEL, Stephanie - CHOLET, Sophie - JUNOT, Christophe - FENAILLE, Francois. Comparative analysis of native and permethylated human milk oligosaccharides by liquid chromatography coupled to high resolution mass spectrometry. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2017, vol. 1071, no., pp. 49-57., Registrované v: WOS
5. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. New strategies for profiling and characterization of human milk oligosaccharides. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786. Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>., Registrované v: WOS
6. [1.1] PRIEN, Justin M. - STOECKMANN, Henning - ALBRECHT, Simone - MARTIN, Silvia M. - VARATTA, Matthew - FURTADO, Marsha - HOSSELET, Stephen - WANG, Meiyao - FORMOLO, Trina - RUDD, Pauline M. - SCHIEL, John E. Orthogonal Technologies for NISTmAb N-Glycan Structure Elucidation and Quantitation. In STATE-OF-THE-ART AND EMERGING TECHNOLOGIES FOR THERAPEUTIC MONOCLONAL ANTIBODY CHARACTERIZATION, VOL 2: BIOPHARMACEUTICAL CHARACTERIZATION: THE NISTMAB CASE STUDY. ISSN 0097-6156, 2015, vol. 1201, no., pp. 185-235., Registrované v: WOS
7. [1.1] PU, Yi - RIDGEWAY, Mark E. - GLASKIN, Rebecca S. - PARK, Melvin A. - COSTELLO, Catherine E. - LIN, Cheng. Separation and Identification of Isomeric Glycans by Selected Accumulation-Trapped Ion Mobility Spectrometry-Electron Activated Dissociation Tandem Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 7, pp. 3440-3443., Registrované v: WOS
8. [1.1] RATH, Cornelia B. - SCHIRMEISTER, Falko - FIGL, Rudolf - SEEBERGER, Peter H. - SCHAEFFER, Christina - KOLARICH, Daniel. Flagellin Glycoproteomics of the Periodontitis Associated Pathogen Selenomonas sputigena Reveals Previously Not Described O-glycans and Rhamnose Fragment Rearrangement Occurring on the Glycopeptides. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2018, vol. 17, no. 4, pp. 721-736., Registrované v: WOS
9. [1.1] TANG, Yang - PU, Yi - GAO, Jinshan - HONG, Pengyu - COSTELLO, Catherine E. - LIN, Cheng. De Novo Glycan Sequencing by Electronic Excitation Dissociation and Fixed-Charge Derivatization. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2018, vol. 90, no. 6, pp. 3793-3801., Registrované v: WOS
10. [1.1] TANG, Yang - WEI, Juan - COSTELLO, Catherine E. - LIN, Cheng. Characterization of Isomeric Glycans by Reversed Phase Liquid Chromatography-Electronic Excitation Dissociation Tandem Mass Spectrometry. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2018, vol. 29, no. 6, pp. 1295-1307., Registrované v: WOS
11. [1.2] FUJII, Toshihiro. Ion/molecule attachment reactions: Mass spectrometry. In Ion/Molecule Attachment Reactions: Mass Spectrometry,

2015-08-03, pp. 1-328., Registrované v: SCOPUS

12. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences*, 2017-11-20, pp. 225-267., Registrované v: SCOPUS

ADCA193 BUBENČÍKOVÁ, Táňa - CHOLUJOVÁ, Dana - MESSINGEROVÁ, Lucia - MISLOVIČOVÁ, Danica - ŠEREŠ, Mário - BREIER, Albert - SULOVÁ, Zdena. Detection of Glycomic alterations Induced by Overexpression of P-glycoprotein on the Surfaces of L1210 Cells Using Sialic Acid Binding Lectins. In *International Journal of Molecular Science*, 2012, vol. 13, no. 11, . p. 15177-15192. (2011: 2.598 - IF, Q2 - JCR, 0.787 - SJR, Q1 - SJR). ISSN 1422-0067. APVV-0084-07, APVV-0290-10, VVCE-0064-07, VEGA 2/0123/10, 2/0155/09, CEMAN. Dostupné na: <https://doi.org/10.3390/ijms131115177>

Ohlasy:

1. [1.1] TAKIMOTO-SHIMOMURA, Tomoko - NAGOSHI, Hisao - MAEGAWA, Saori - FUJIBAYASHI, Yuto - TSUKAMOTO, Taku - MATSUMURA-KIMOTO, Yayoi - MIZUNO, Yoshimi - CHINEN, Yoshiaki - MIZUTANI, Shinsuke - SHIMURA, Yuji - HORIIKE, Shigeo - TANIWAKI, Masafumi - KOBAYASHI, Tsutomu - KURODA, Junya. Establishment and Characteristics of a Novel Mantle Cell Lymphoma-derived Cell Line and a Bendamustine-resistant Subline. In *CANCER GENOMICS & PROTEOMICS*. ISSN 1109-6535, 2018, vol. 15, no. 3, pp. 213-223., Registrované v: WOS
2. [1.1] ZHANG, Xiaoqing - NIE, Huan - WHITED, Joshua - WANG, Dan - LI, Yu - SUN, Xue-Long. Recent approaches for directly profiling cell surface sialoform. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 12, pp. 910-924., Registrované v: WOS

ADCA194 BUCOVÁ, Mária - SUCHÁNKOVÁ, Magda - DZURILLA, Martin - VRLÍK, Mojmír - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - URBAN, Štefan - HORNÁKOVÁ, Edita - ŠELIGOVÁ, Marianna - DURMANOVÁ, Vladimíra - PENZ, Peter - JAVOR, Juraj - PAULOVÍČOVÁ, Ema. Inflammatory marker sTREM-1 reflects the clinical stage and respiratory tract obstruction in allergic asthma bronchiale patients and correlates with number of neutrophils. In *Mediators of Inflammation*, 2012, article ID 628754, 8 p. (2011: 3.263 - IF, Q2 - JCR, 1.238 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0962-9351. Dostupné na: <https://doi.org/10.1155/2012/628754>

Ohlasy:

1. [1.1] CROTEAU-CHONKA, Damien C. - QIU, Weiliang - MARTINEZ, Fernando D. - STRUNK, Robert C. - LEMANSKE, Robert F. - LIU, Andrew H. - GILLILAND, Frank D. - MILLSTEIN, Joshua - GAUDERMAN, W. James - OBER, Carole - KRISHNAN, Jerry A. - WHITE, Steven R. - NAURECKAS, Edward T. - NICOLAE, Dan L. - BARNES, Kathleen C. - LONDON, Stephanie J. - BARRAZA-VILLARREAL, Albino - CAREYL, Vincent J. - WEISS, Scott T. - RABY, Benjamin A. Gene Expression Profiling in Blood Provides Reproducible Molecular Insights into Asthma Control. In *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*. ISSN 1073-449X, 2017, vol. 195, no. 2, pp. 179-188., Registrované v: WOS
2. [1.1] KUEMMEL, Andreas - ALFLEN, Astrid - SCHMIDT, Lars

- Henning - SEBASTIAN, Martin - WIEWRODT, Rainer - SCHULZE, Arik Bernard - BUHL, Roland - RADSACK, Markus. Soluble Triggering Receptor Expressed on Myeloid Cells 1 in lung cancer. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
3. [1.1] PROBOSZCZ, Malgorzata - PAPLINSKA-GORYCA, Magdalena - NEJMAN-GRYZ, Patrycja - GORSKA, Katarzyna - KRENKE, Rafal. A comparative study of sTREM-1, IL-6 and IL-13 concentration in bronchoalveolar lavage fluid in asthma and COPD: A preliminary study. In ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE. ISSN 1899-5276, 2017, vol. 26, no. 2, pp. 231-236., Registrované v: WOS
4. [1.1] UPCHURCH, Katherine - WIEST, Matthew - CARDENAS, Jacob - SKINNER, Jason - NATTAMI, Durgha - LANIER, Bobby - MILLARD, Mark - JOO, HyeMee - TURNER, Jacob - OH, SangKon. Whole blood transcriptional variations between responders and non-responders in asthma patients receiving omalizumab. In CLINICAL AND EXPERIMENTAL ALLERGY. ISSN 0954-7894, 2020, vol. 50, no. 9, pp. 1017-1034. Dostupné na: <https://doi.org/10.1111/cea.13671>., Registrované v: WOS
5. [1.1] ZHANG, Guangbo - LIU, Hongmei - HUANG, Jian - CHEN, Siwen - PAN, Xudong - HUANG, Haitao - WANG, Ling. TREM-1(low) is a novel characteristic for tumor-associated macrophages in lung cancer. In ONCOTARGET. ISSN 1949-2553, 2016, vol. 7, no. 26, pp. 40508-40517., Registrované v: WOS
6. [1.2] BOSCO, Maria Carla - RAGGI, Federica - VARESIO, Luigi. Therapeutic potential of targeting TREM-1 in inflammatory diseases and cancer. In Current Pharmaceutical Design. ISSN 13816128, 2016-12-01, 22, 41, pp. 6209-6233., Registrované v: SCOPUS
7. [1.2] FRANCIS, Abbie - BOSIO, Erika - STONE, Shelley F. - FATOVICH, Daniel M. - ARENDTS, Glenn - MACDONALD, Stephen P.J. - BURROWS, Sally - BROWN, Simon G.A. Markers involved in innate immunity and neutrophil activation are elevated during acute human anaphylaxis: Validation of a microarray study. In Journal of Innate Immunity. ISSN 1662811X, 2018-12-01, 11, 1, pp. 63-73., Registrované v: SCOPUS
8. [1.2] HALL, Sannette C. - AGRAWAL, Devendra K. Toll-like receptors, triggering receptor expressed on myeloid cells family members and receptor for advanced glycation end-products in allergic airway inflammation. In Expert Review of Respiratory Medicine. ISSN 17476348, 2016-02-01, 10, 2, pp. 171-184., Registrované v: SCOPUS
9. [1.2] HU, Daiju. Role of Anti-inflammatory Cytokines IL-35 and IL-37 in Asthma. In Inflammation. ISSN 03603997, 2017-04-01, 40, 2, pp. 697-707., Registrované v: SCOPUS
10. [1.2] PAKNEJAD, Mojgan - SATTARI, Mandana - ROOZBAHANI, Zohreh - ERSHADI, Morteza - MEHRFARD, Ali. Relationships between high-mobility group protein b1 and triggering receptor expressed on myeloid cells concentrations in gingival crevicular fluid and chronic periodontitis. In Iranian Journal of Allergy, Asthma and Immunology. ISSN 17351502, 2016-10-01, 15, 5, pp. 381-385., Registrované v: SCOPUS
11. [1.2] TESSIER, Laurence - CÔTÉ, Olivier - CLARK, Mary Ellen - VIEL, Laurent - DIAZ-MÉNDEZ, Andrés - ANDERS, Simon - BIENZLE, Dorothee. Impaired response of the bronchial epithelium to inflammation characterizes severe equine asthma. In BMC Genomics, 2017-09-08, 18, 1, pp.,

Registrované v: SCOPUS

12. [1.2] WU, Dawei - MUELLER, Sarina K. - NOCERA, Angela L. - FINN, Kristen - LIBERMANN, Towia A. - BLEIER, Benjamin S. TREM-1 Neutrophil Activation Pathway Is Suppressed in Eosinophilic Nasal Polyps. In American Journal of Rhinology and Allergy. ISSN 19458924, 2018-09-01, 32, 5, pp. 359-368., Registrované v: SCOPUS

ADCA195 BUČEKOVÁ, Marcela - JARDEKOVÁ, Lucia - JURICOVÁ, Valéria - BUGÁROVÁ, Veronika - DI MARCO, Gabriele - GISMONDI, Angelo - LEONARDI, Donatella - FARKAŠOVSKÁ, Jarmila - GODOČÍKOVÁ, Jana - LAHO, Maroš - KLAUDINY, Jaroslav - MAJTÁN, Viktor - CANINI, Antonella - MAJTÁN, Juraj**. Antibacterial activity of different blossom honeys: New findings. In *Molecules*, 2019, vol. 24, no. 8, no. 1573. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules24081573>

Ohlasy:

1. [1.1] CEBRERO, G. - SANHUEZA, O. - PEZOA, M. - BAEZ, M.E. - MARTINEZ, J. - BAEZ, M. - FUENTES, E. Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In *FOOD CHEMISTRY*. ISSN 0308-8146, JUN 15 2020, vol. 315., Registrované v: WOS

2. [1.1] CILIA, G. - FRATINI, F. - MARCHI, M. - SAGONA, S. - TURCHI, B. - ADAMCHUK, L. - FELICOLI, A. - KACANIOVA, M. Antibacterial Activity of Honey Samples from Ukraine. In *VETERINARY SCIENCES*. DEC 2020, vol. 7, no. 4., Registrované v: WOS

3. [1.1] COMBARROS-FUERTES, P. - FRESNO, J.M. - ESTEVINHO, M.M. - SOUSA-PIMENTA, M. - TORNADIJO, M.E. - ESTEVINHO, L.M. Honey: Another Alternative in the Fight against Antibiotic-Resistant Bacteria?. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

4. [1.1] COMBARROS-FUERTES, P. - ESTEVINHO, L.M. - TEIXEIRA-SANTOS, R. - RODRIGUES, A.G. - PINA-VAZ, C. - FRESNO, J.M. - TORNADIJO, M.E. Antibacterial Action Mechanisms of Honey: Physiological Effects of Avocado, Chestnut, and Polyfloral Honey upon *Staphylococcus aureus* and *Escherichia coli*. In *MOLECULES*. MAR 1 2020, vol. 25, no. 5., Registrované v: WOS

5. [1.1] GREEN, K.J. - DODS, K. - HAMMER, K.A. Development and validation of a new microplate assay that utilises optical density to quantify the antibacterial activity of honeys including Jarrah, Marri and Manuka. In *PLOS ONE*. ISSN 1932-6203, DEC 9 2020, vol. 15, no. 12., Registrované v: WOS

6. [1.1] HBIBI, A. - SIKKOU, K. - KHEDID, K. - EL HAMZAOU, S. - BOUZIANE, A. - BENAZZA, D. Antimicrobial activity of honey in periodontal disease: a systematic review. In *JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY*. ISSN 0305-7453, APR 2020, vol. 75, no. 4, p. 807-826., Registrované v: WOS

7. [1.1] KARAPETSAS, A. - VOULGARIDOU, G.P. - ILIADI, D. - TSOCHANTARIDIS, I. - MICHAIL, P. - KYNIGOPOULOS, S. - LAMBROPOULOU, M. - STAVROPOULOU, M.I. - STATHOPOULOU, K. - KARABOURNIOTI, S. - ALIGIANNIS, N. - GARDIKIS, K. - GALANIS, A. -

- PANAYIOTIDIS, M.I. - PAPPA, A. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In ANTIOXIDANTS. JUL 2020, vol. 9, no. 7., Registrované v: WOS
8. [1.1] MARTINENGHI, L.D. - JONSSON, R. - LUND, T. - JENSSEN, H. Isolation, Purification, and Antimicrobial Characterization of Cannabidiolic Acid and Cannabidiol from Cannabis sativa L.. In BIOMOLECULES. JUN 2020, vol. 10, no. 6., Registrované v: WOS
9. [1.1] MASOURA, M. - PASSARETTI, P. - OVERTON, T.W. - LUND, P.A. - GKATZIONIS, K. Use of a model to understand the synergies underlying the antibacterial mechanism of H₂O₂-producing honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 19 2020, vol. 10, no. 1., Registrované v: WOS
10. [1.1] MUENSTEDT, Karsten - MAENNLE, Heidrun. Using Bee Products for the Prevention and Treatment of Oral Mucositis Induced by Cancer Treatment. In MOLECULES, 2019, vol. 24, no. 17, pp., Registrované v: WOS
11. [1.1] NOLAN, Victoria C. - HARRISON, James - COX, Jonathan A. G. Dissecting the Antimicrobial Composition of Honey. In ANTIBIOTICS-BASEL, 2019, vol. 8, no. 4, pp., Registrované v: WOS
12. [1.1] NOLAN, V.C. - HARRISON, J. - WRIGHT, J.E.E. - COX, J.A.G. Clinical Significance of Manuka and Medical-Grade Honey for Antibiotic-Resistant Infections: A Systematic Review. In ANTIBIOTICS-BASEL. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS
13. [1.1] SAHIN, H. - KOLAYLI, S. - BEYKAYA, M. Investigation of Variations of Invertase and Glucose Oxidase Degrees against Heating and Timing Options in Raw Honeys. In JOURNAL OF CHEMISTRY. ISSN 2090-9063, MAR 27 2020, vol. 2020., Registrované v: WOS
14. [1.1] SCRIPCA, Laura Agripina - NOROCEL, Liliana - AMARIEI, Sonia. Comparison of Physicochemical, Microbiological Properties and Bioactive Compounds Content of Grassland Honey and other Floral Origin Honeys. In MOLECULES, 2019, vol. 24, no. 16, pp., Registrované v: WOS
15. [1.1] SINDI, Azhar - CHAWN, Moses Van Bawi - HERNANDEZ, Magda Escorcia - GREEN, Kathryn - ISLAM, Md Khairul - LOCHER, Cornelia - HAMMER, Katherine. Anti-biofilm effects and characterisation of the hydrogen peroxide activity of a range of Western Australian honeys compared to Manuka and multifloral honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
16. [1.1] TSAVEA, Eleni - MOSSIALOS, Dimitris. Antibacterial activity of honeys produced in Mount Olympus area against nosocomial and foodborne pathogens is mainly attributed to hydrogen peroxide and proteinaceous compounds. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2019, vol. 58, no. 5, pp. 756-763., Registrované v: WOS
17. [1.2] ČEKŠTERYTĖ, Violeta - KURTINAITIENĖ, Bogumila - JAŠKŪNĖ, Kristina - KRETAVIČIUS, Justinas. The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In Journal of Apicultural Research. ISSN 00218839, 2020-10-19, 59, 5, pp. 862-875., Registrované v: SCOPUS
18. [1.2] ZHANG, Xin - TANG, Xiangyou - SONG, Huali - SHI, Peng - HAO, Yuhui. Research progress on radioprotective effects of bee products. In

- ADCA196 BUČEKOVÁ, Marcela - SOJKA, Martin - VALACHOVÁ, Ivana - MARTINOTTI, S. - RANZATO, E. - SZEP, Z. - MAJTAN, V. - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Bee-derived antibacterial peptide, defensin-1, promotes wound re-epithelialisation in vitro and in vivo. In *Scientific Reports*, 2017, vol. 7, no. 1, art. no. 7340. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-017-07494-0>
- Ohlasy:
1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2., Registrované v: WOS
 2. [1.1] HARWOOD, Gyan - AMDAM, Gro - FREITAK, Dalial. The role of Vitellogenin in the transfer of immune elicitors from gut to hypopharyngeal glands in honey bees (*Apis mellifera*). In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2019, vol. 112, no., pp. 90-100., Registrované v: WOS
 3. [1.1] KUNG, Mei-Lang - LIN, Pei-Ying - HUANG, Shih-Tsung - TAI, Ming-Hong - HSIEH, Shu-Ling - WU, Chih-Chung - YEH, Bi-Wen - WU, Wen-Jeng - HSIEH, Shuchen. Zingerone Nanotetramer Strengthened the Polypharmacological Efficacy of Zingerone on Human Hepatoma Cell Lines. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 1, pp. 137-150., Registrované v: WOS
 4. [1.1] KUREK-GORECKA, A. - GORECKI, M. - RZEPECKA-STOJKO, A. - BALWIERZ, R. - STOJKO, J. Bee Products in Dermatology and Skin Care. In MOLECULES. FEB 1 2020, vol. 25, no. 3., Registrované v: WOS
 5. [1.1] LIN, Yan - SHAO, Qiqi - ZHANG, Meng - LU, Chenyue - FLEMING, Joy - SU, Songkun. Royal jelly-derived proteins enhance proliferation and migration of human epidermal keratinocytes in an in vitro scratch wound model. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2019, vol. 19, no., pp., Registrované v: WOS
 6. [1.1] LIN, Yan - ZHANG, Meng - WANG, Luying - LIN, Tianxing - WANG, Guanggao - PENG, Jianhua - SU, Songkun. The in vitro and in vivo wound-healing effects of royal jelly derived from *Apis mellifera* L. during blossom seasons of *Castanea mollissima* Bl. and *Brassica napus* L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12906-020-03138-5>, Registrované v: WOS
 7. [1.1] LIN, Y. - ZHANG, M. - WANG, L.Y. - LIN, T.X. - WANG, G.G. - PENG, J.H. - SU, S.K. The in vitro and in vivo wound-healing effects of royal jelly derived from *Apis mellifera* L. during blossom seasons of *Castanea mollissima* Bl. and *Brassica napus* L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES. NOV 23 2020, vol. 20, no. 1., Registrované v: WOS
 8. [1.1] MONTAZER, M. - NAVAEI, T. - RAD, M.M. Preparation of a naturally driven cotton wound dressing via honey, *Tragacanth* and *Sumac*. In

- INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH. ISSN 0971-0426, SEP 2020, vol. 45, no. 3, p. 260-266., Registrované v: WOS
9. [1.1] NOLAN, Victoria C. - HARRISON, James - COX, Jonathan A. G. Dissecting the Antimicrobial Composition of Honey. In ANTIBIOTICS-BASEL, 2019, vol. 8, no. 4, pp., Registrované v: WOS
10. [1.1] PAJOR, M. - WOROBO, R.W. - MILEWSKI, S. - SZWEDA, P. The Antimicrobial Potential of Bacteria Isolated from Honey Samples Produced in the Apiaries Located in Pomeranian Voivodeship in Northern Poland. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. SEP 2018, vol. 15, no. 9., Registrované v: WOS
11. [1.1] PENG, Y.Y. - LI, L.H. - YUAN, Q.Y. - GU, P. - YOU, Z.W. - ZHUANG, A. - BI, X.P. Effect of Bifunctional beta Defensin 2-Modified Scaffold on Bone Defect Reconstruction. In ACS OMEGA. ISSN 2470-1343, MAR 3 2020, vol. 5, no. 8, p. 4302-4312., Registrované v: WOS
12. [1.2] JEFFERY, Steven - HENRY, Nader - RADOTRA, Ishan. Properties and use of a honey dressing and gel in wound management. In British Journal of Nursing. ISSN 09660461, 2019-03-28, 28, 6, pp. S30-S35., Registrované v: SCOPUS
13. [1.2] OMAR, Syaliza - MAT-KAMIR, Nursyamimi Farhana - SANNY, Maimunah. Antibacterial activity of Malaysian produced stingless-bee honey on wound pathogens. In Journal of Sustainability Science and Management. ISSN 18238556, 2019-06-01, 14, 3, pp. 67-79., Registrované v: SCOPUS

ADCA197 BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - KOHÚTOVÁ, Lenka - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Honeybee glucose oxidase-its expression in honeybee workers and comparative analyses of its content and H₂O₂-mediated antibacterial activity in natural honeys. In *Naturwissenschaften*, 2014, vol. 101, no. 8, p. 661-670. (2013: 1.971 - IF, Q1 - JCR, 0.920 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0028-1042. Dostupné na: <https://doi.org/10.1007/s00114-014-1205-z>

Ohlasy:

1. [1.1] BLACKMAN, Lewis D. - OO, Zay Y. - QU, Yue - GUNATILLAKE, Pathiraja A. - CASS, Peter - LOCOCK, Katherine E. S. Antimicrobial Honey-Inspired Glucose-Responsive Nanoreactors by Polymerization-Induced Self-Assembly. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 10, pp. 11353-11362. Dostupné na: <https://doi.org/10.1021/acsami.9b22386>., Registrované v: WOS
2. [1.1] BOLOGNESE, Fabrizio - BISTOLETTI, Michela - BARBIERI, Paola - ORLANDI, Viviana Teresa. Honey-sensitive *Pseudomonas aeruginosa* mutants are impaired in catalase A. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2016, vol. 162, no. 9, pp. 1554-1562., Registrované v: WOS
3. [1.1] BRUDZYNSKI, Katrina. A current perspective on hydrogen peroxide production in honey. A review. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 332, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127229>., Registrované v: WOS
4. [1.1] CEBRERO, Gonzalo - SANHUEZA, Oscar - PEZOA, Matias - BAEZ, Maria E. - MARTINEZ, Jessica - BAEZ, Mauricio - FUENTES, Edwar. Relationship among the minor constituents, antibacterial activity and

- geographical origin of honey: A multifactor perspective. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 315, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126296>., Registrované v: WOS
5. [1.1] CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - JASKUNE, Kristina - KRETAVICIUS, Justinas. The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 862-875. Dostupné na: <https://doi.org/10.1080/00218839.2020.1804118>., Registrované v: WOS
6. [1.1] DALISSON, Benjamin - BARRALET, Jake. Bioinorganics and Wound Healing. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2019, vol. 8, no. 18, pp., Registrované v: WOS
7. [1.1] DERA KSHAN, Fatemeh Khadivi - DARVISHI, Farshad - DEZFULIAN, Mehrouz - MADZAK, Catherine. Expression and Characterization of Glucose Oxidase from *Aspergillus niger* in *Yarrowia lipolytica*. In *MOLECULAR BIOTECHNOLOGY*. ISSN 1073-6085, 2017, vol. 59, no. 8, pp. 307-314., Registrované v: WOS
8. [1.1] ERBAN, Tomas - SHCHERBACHENKO, Elena - TALACKO, Pavel - HARANT, Karel. The Unique Protein Composition of Honey Revealed by Comprehensive Proteomic Analysis: Allergens, Venom-like Proteins, Antibacterial Properties, Royal Jelly Proteins, Serine Proteases, and Their Inhibitors. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2019, vol. 82, no. 5, pp. 1217-1226., Registrované v: WOS
9. [1.1] HASSAN, Yousef I. - LAHAYE, Ludovic - GONG, Max M. - PENG, Jian - GONG, Joshua - LIU, Song - GAY, Cyril G. - YANG, Chengbo. Innovative drugs, chemicals, and enzymes within the animal production chain. In *VETERINARY RESEARCH*. ISSN 0928-4249, 2018, vol. 49, no., pp., Registrované v: WOS
10. [1.1] HU, Han - BIENEFELD, Kaspar - WEGENER, Jakob - ZAUTKE, Fred - HAO, Yue - FENG, Mao - HAN, Bin - FANG, Yu - WUBIE, Abebe Jenberie - LI, Jianke. Proteome Analysis of the Hemolymph, Mushroom Body, and Antenna Provides Novel Insight into Honeybee Resistance against *Varroa* Infestation. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2016, vol. 15, no. 8, pp. 2841-2854., Registrované v: WOS
11. [1.1] JONES, Ben - SHIPLEY, Emily - ARNOLD, Kathryn E. Social immunity in honeybees Density dependence, diet, and body mass trade-offs. In *ECOLOGY AND EVOLUTION*. ISSN 2045-7758, 2018, vol. 8, no. 10, pp. 4852-4859., Registrované v: WOS
12. [1.1] KIM, Linda - BRUDZYNSKI, Katrina. Identification of menaquinones (vitamin K2 homologues) as novel constituents of honey. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 249, no., pp. 184-192., Registrované v: WOS
13. [1.1] KORNECKI, Jakub F. - CARBALLARES, Diego - TARDIOLI, Paulo W. - RODRIGUES, Rafael C. - BERENGUER-MURCIA, Angel - ALCANTARA, Andres R. - FERNANDEZ-LAFUENTE, Roberto. Enzyme production of d-gluconic acid and glucose oxidase: successful tales of cascade reactions. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2020, vol. 10, no. 17, pp. 5740-5771. Dostupné na: <https://doi.org/10.1039/d0cy00819b>., Registrované v: WOS

14. [1.1] LEWKOWSKI, Oleg - MURESAN, Carmen I. - DOBRITZSCH, Dirk - FUSZARD, Matthew - ERLER, Silvio. The Effect of Diet on the Composition and Stability of Proteins Secreted by Honey Bees in Honey. In INSECTS, 2019, vol. 10, no. 9, pp., Registrované v: WOS
15. [1.1] LIANG, Yanyan - ZHANG, Lin - QU, Yang - LI, Hui - SHI, Ben. Antibacterial activity of buckwheat honey added with ferrous lactate against *Pseudomonas aeruginosa*. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2019.108624>., Registrované v: WOS
16. [1.1] LOPEZ-URIBE, Margarita M. - FITZGERALD, Andrea - SIMONE-FINSTROM, Michael. Inducible versus constitutive social immunity: examining effects of colony infection on glucose oxidase and defensin-1 production in honeybees. In ROYAL SOCIETY OPEN SCIENCE. ISSN 2054-5703, 2017, vol. 4, no. 5, pp., Registrované v: WOS
17. [1.1] LOPEZ-URIBE, Margarita M. - RICIGLIANO, Vincent A. - SIMONE-FINSTROM, Michael. Defining Pollinator Health: A Holistic Approach Based on Ecological, Genetic, and Physiological Factors. In ANNUAL REVIEW OF ANIMAL BIOSCIENCES, VOL 8, 2020. ISSN 2165-8102, 2020, vol. 8, no., pp. 269-294. Dostupné na: <https://doi.org/10.1146/annurev-animal-020518-115045>., Registrované v: WOS
18. [1.1] MAES, Patrick W. - RODRIGUES, Pedro A. P. - OLIVER, Randy - MOTT, Brendon M. - ANDERSON, Kirk E. Diet-related gut bacterial dysbiosis correlates with impaired development, increased mortality and Nosema disease in the honeybee (*Apis mellifera*). In MOLECULAR ECOLOGY. ISSN 0962-1083, 2016, vol. 25, no. 21, pp. 5439-5450., Registrované v: WOS
19. [1.1] MASOURA, Maria - PASSARETTI, Paolo - OVERTON, Tim W. - LUND, Pete A. - GKATZIONIS, Konstantinos. Use of a model to understand the synergies underlying the antibacterial mechanism of H₂O₂-producing honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74937-6>., Registrované v: WOS
20. [1.1] MUKHOPADHYAY, Anurup - RAJPUT, Monika - BARUI, Ananya - CHATTERJEE, Shiv Sekhar - PAL, Nishith Kumar - CHATTERJEE, Jyotirmoy - MUKHERJEE, Rabibrata. Dual cross-linked honey coupled 3D antimicrobial alginate hydrogels for cutaneous wound healing. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 116, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.111218>., Registrované v: WOS
21. [1.1] NEGRI, Pedro - VILLALOBOS, Ethel - SZAWARSKI, Nicolas - DAMIANI, Natalia - GENDE, Liesel - GARRIDO, Melisa - MAGGI, Matias - QUINTANA, Silvina - LAMATTINA, Lorenzo - EGUARAS, Martin. Towards Precision Nutrition: A Novel Concept Linking Phytochemicals, Immune Response and Honey Bee Health. In INSECTS, 2019, vol. 10, no. 11, pp., Registrované v: WOS
22. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In JOURNAL OF TISSUE VIABILITY. ISSN 0965-206X, 2016, vol. 25, no. 2, pp. 98-118., Registrované v: WOS
23. [1.1] POLI, J.P. - GUINOISEAU, E. - LUCIANI, A. - YANG, Y. - BATTESTI, M.J. - PAOLINI, J. - COSTA, J. - QUILICHINI, Y. - BERTI, L. -

- LORENZI, V. Key role of hydrogen peroxide in antimicrobial activity of spring, Honeydew maquis and chestnut grove Corsican honeys on *Pseudomonas aeruginosa* DNA. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2018, vol. 66, no. 5, pp. 427-433., Registrované v: WOS
24. [1.1] RICHTER, Katharina Natalia - ROLKE, Daniel - BLENAU, Wolfgang - BAUMANN, Otto. Secretory cells in honeybee hypopharyngeal gland: polarized organization and age-dependent dynamics of plasma membrane. In *CELL AND TISSUE RESEARCH*. ISSN 0302-766X, 2016, vol. 366, no. 1, pp. 163-174., Registrované v: WOS
25. [1.1] SAGONA, Simona - TURCHI, Barbara - FRATINI, Filippo - GIUSTI, Matteo - TORRACCA, Beatrice - NUVOLONI, Roberta - CERRI, Domenico - FELICOLI, Antonio. Preliminary evaluation of glucose oxidase and its products in vitro antimicrobial activities on *Paenibacillus larvae* ATCC9545 vegetative form. In *BULLETIN OF INSECTOLOGY*. ISSN 1721-8861, 2015, vol. 68, no. 2, pp. 233-237., Registrované v: WOS
26. [1.1] SAGONA, S. - TURCHI, B. - FRATINI, F. - GIUSTI, M. - TORRACCA, B. - BIONDI, C. - NUVOLONI, R. - CERRI, D. - FELICOLI, A. Antimicrobial activity of fifteen Italian honeys against *Paenibacillus larvae* ATCC 9545. In *JOURNAL OF THE HELLENIC VETERINARY MEDICAL SOCIETY*. ISSN 1792-2720, 2017, vol. 68, no. 4, pp. 547-556., Registrované v: WOS
27. [1.1] SAWAZAKI, Takuto - NAKAJIMA, Yukari - URAI, Tamae - MUKAI, Kanae - OHTA, Megumi - KATO, Ikuko - KAWAGUCHI, Azusa - KINOSHITA, Yui - KUMAGAI, Yuri - SAKASHITA, Ayaka - YAMAZAKI, Asuka - NAKATANI, Toshio. Efficacy of Honeydew Honey and Blossom Honey on Full-thickness Wound Healing in Mice. In *WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE*. ISSN 1044-7946, 2018, vol. 30, no. 7, pp. 197-204., Registrované v: WOS
28. [1.1] TRAVER, Brenna E. - FEAZEL-ORR, Haley K. - CATALFAMO, Katelyn M. - BREWSTER, Carlyle C. - FELL, Richard D. Seasonal Effects and the Impact of In-Hive Pesticide Treatments on Parasite, Pathogens, and Health of Honey Bees. In *JOURNAL OF ECONOMIC ENTOMOLOGY*. ISSN 0022-0493, 2018, vol. 111, no. 2, pp. 517-527., Registrované v: WOS
29. [1.1] WEGENER, Jakob - RUHNKE, Haike - MILCHREIT, Kathrin - KLEEBAUM, Katharina - FRANKE, Monique - MISPAGEL, Sebastian - BISCHOFF, Gabriela - KAMP, Guenter - BIENEFELD, Kaspar. Secondary biomarkers of insecticide-induced stress of honey bee colonies and their relevance for overwintering strength. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2016, vol. 132, no., pp. 379-389., Registrované v: WOS
30. [1.1] ZHANG, Hai-Tian - ZUO, Fan - LI, Feiran - CHAN, Henry - WU, Qiuyu - ZHANG, Zhan - NARAYANAN, Badri - RAMADOSS, Koushik - CHAKRABORTY, Indranil - SAHA, Gobinda - KAMATH, Ganesh - ROY, Kaushik - ZHOU, Hua - CHUBYKIN, Alexander A. - SANKARANARAYANAN, Subramanian K. R. S. - CHOI, Jong Hyun - RAMANATHAN, Shriram. Perovskite nickelates as bio-electronic interfaces. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2019, vol. 10, no., pp., Registrované v: WOS
31. [1.1] ZHANG, Tiffany - QU, Yue - GUNATILLAKE, Pathiraja A. -

- CASS, Peter - LOCOCK, Katherine E. S. - BLACKMAN, Lewis D.
Honey-inspired antimicrobial hydrogels resist bacterial colonization through twin synergistic mechanisms. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-72478-6>, Registrované v: WOS
32. [1.2] BURLEW, Rusty. Honey's magical power: Four ways to slay microbes. In *American Bee Journal*. ISSN 00027626, 2017-12-01, 157, 12, pp. 1325-1327., Registrované v: SCOPUS
33. [1.2] CEKSTERYTĖ, Violeta - BORUTINSKAITĖ, Veronika - MATUZEVICIUS, Dalius - TREIGYTĖ, Grazina - NAVAKAUSKAS, Dalius - KURTINAITIENĖ, Bogumila - NAVAKAUSKIENĖ, Ruta. Evaluation of proteome profiles of *Salix* spp Pollen and relationship between glucose oxidase activity and pollen content in willow honey. In *Baltic Forestry*. ISSN 13921355, 2019-01-01, 25, 1, pp. 83-96., Registrované v: SCOPUS
34. [1.2] OMAR, Syaliza - MAT-KAMIR, Nursyamimi Farhana - SANNY, Maimunah. Antibacterial activity of Malaysian produced stingless-bee honey on wound pathogens. In *Journal of Sustainability Science and Management*. ISSN 18238556, 2019-06-01, 14, 3, pp. 67-79., Registrované v: SCOPUS

ADCA198 BUČKO, Marek - GEMEINER, Peter - SCHENKMAYEROVÁ, Andrea - KRAJČOVIČ, Tomáš - RUDROFF, Florian - MIHOVILOVIČ, Marko.
Baeyer-Villiger oxidations: biotechnological approach. In *Applied Microbiology and Biotechnology*, 2016, vol. 100, p. 6585-6599. (2015: 3.376 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-016-7670-x>

Ohlasy:

1. [1.1] ANGELASTRO, Antonio - DAWSON, William M. - LUK, Louis Y. P. - ALLEMANN, Rudolf K. A Versatile Disulfide-Driven Recycling System for NADP(+) with High Cofactor Turnover Number. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 2, pp. 1025-1029., Registrované v: WOS
2. [1.1] BALKE, Kathleen - BEIER, Andy - BORNSCHEUER, Uwe T. Hot spots for the protein engineering of Baeyer-Villiger monooxygenases. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2018, vol. 36, no. 1, pp. 247-263., Registrované v: WOS
3. [1.1] BISOGNO, Fabricio R. - LOPEZ-VIDAL, Martin G. - DE GONZALO, Gonzalo. Organocatalysis and Biocatalysis Hand in Hand: Combining Catalysts in One-Pot Procedures. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 12, pp. 2026-2049., Registrované v: WOS
4. [1.1] DE GONZALO, Gonzalo - FURST, Maximilian J. L. J. - FRAAIJE, Marco W. Polycyclic Ketone Monooxygenase (PockeMO): A Robust Biocatalyst for the Synthesis of Optically Active Sulfoxides. In *CATALYSTS*. ISSN 2073-4344, 2017, vol. 7, no. 10, pp., Registrované v: WOS
5. [1.1] DE GONZALO, Gonzalo - FRANCONETTI, Antonio. Enantioselective sulfoxidations employing the thermostable cyclohexanone monooxygenase from *Thermocrispum municipale*. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 113, no., pp. 24-28., Registrované v: WOS

6. [1.1] DE SOUZA, Rodrigo O. M. A. - MIRANDA, Leandro S. M. - BORNSCHEUER, Uwe T. A Retrosynthesis Approach for Biocatalysis in Organic Synthesis. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 50, pp. 12040-12063., Registrované v: WOS
7. [1.1] DELGOVE, Marie A. F. - VALENCIA, Daniela - SOLE, Jordi - BERNARTS, Katrien V. - DE WILDEMAN, Stefaan M. A. - GUILLEN, Marina - ALVARO, Gregorio. High performing immobilized Baeyer-Villiger monooxygenase and glucose dehydrogenase for the synthesis of epsilon-caprolactone derivative. In APPLIED CATALYSIS A-GENERAL. ISSN 0926-860X, 2019, vol. 572, no., pp. 134-141., Registrované v: WOS
8. [1.1] DITHUGOE, Choaro D. - VAN MARWIJK, Jacqueline - SMIT, Martha S. - OPPERMAN, Diederik J. An Alcohol Dehydrogenase from the Short-Chain Dehydrogenase/Reductase Family of Enzymes for the Lactonization of Hexane-1,6-diol. In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 1, pp. 96-102., Registrované v: WOS
9. [1.1] DOCKREY, Summer A. Baker - SUH, Carolyn E. - BENITEZ, Atabay Rodriguez - WYMORE, Troy - BROOKS, Charles L. - NARAYAN, Alison R. H. Positioning-Group-Enabled Biocatalytic Oxidative Dearomatization. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2019, vol. 5, no. 6, pp. 1010-1016., Registrované v: WOS
10. [1.1] DOMINGUEZ DE MARIA, Pablo - DE GONZALO, Gonzalo - ALCANTARA, Andres R. Biocatalysis as Useful Tool in Asymmetric Synthesis: An Assessment of Recently Granted Patents (2014-2019). In CATALYSTS, 2019, vol. 9, no. 10, pp., Registrované v: WOS
11. [1.1] DONG, JiaJia - FERNANDEZ-FUEYO, Elena - HOLLMANN, Frank - PAUL, Caroline E. - PESIC, Milja - SCHMIDT, Sandy - WANG, Yonghua - YOUNES, Sabry - ZHANG, Wuyuan. Biocatalytic Oxidation Reactions: A Chemist's Perspective. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 30, pp. 9238-9261., Registrované v: WOS
12. [1.1] FORDWOUR, Osei Boakye - WOLTERS, Kirsten R. Active site variants provide insight into the nature of conformational changes that accompany the cyclohexanone monooxygenase catalytic cycle. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2018, vol. 654, no., pp. 85-96., Registrované v: WOS
13. [1.1] FURST, Maximilian J. L. J. - GRAN-SCHEUCH, Alejandro - AALBERS, Friso S. - FRAAIJE, Marco W. Baeyer-Villiger Monooxygenases: Tunable Oxidative Biocatalysts. In ACS CATALYSIS. ISSN 2155-5435, 2019, vol. 9, no. 12, pp. 11207-11241., Registrované v: WOS
14. [1.1] FURST, Maximilian J. L. J. - BOONSTRA, Marjon - BANDSTRA, Selle - FRAAIJE, Marco W. Stabilization of cyclohexanone monooxygenase by computational and experimental library design. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2019, vol. 116, no. 9, pp. 2167-2177., Registrované v: WOS
15. [1.1] GONCALVES, Caroline C. S. - DA FONSECA, Francine S. A. Enzyme-Catalyzed Redox Reactions. In REVISTA VIRTUAL DE QUIMICA. ISSN 1984-6835, 2018, vol. 10, no. 4, pp. 778-797., Registrované v: WOS
16. [1.1] GRAN-SCHEUCH, Alejandro - TRAJKOVIC, Milos - PARRA, Loreto - FRAAIJE, Marco W. Mining the Genome of Streptomyces leeuwenhoekii: Two New Type I Baeyer-Villiger Monooxygenases From

- Atacama Desert. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
17. [1.1] GRIMM, Christopher - LAZZAROTTO, Mattia - POMPEI, Simona - SCHICHLER, Johanna - RICHTER, Nina - FARNBERGER, Judith E. - FUCHS, Michael - KROUTIL, Wolfgang. Oxygen-Free Regioselective Biocatalytic Demethylation of Methyl-phenyl Ethers via Methyltransfer Employing Veratrol-O-demethylase. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 18, pp. 10375-10380. Dostupné na: <https://doi.org/10.1021/acscatal.0c02790>., Registrované v: WOS
18. [1.1] HEINE, Thomas - VAN BERKEL, Willem J. H. - GASSNER, George - VAN PEE, Karl-Heinz - TISCHLER, Dirk. Two-Component FAD-Dependent Monooxygenases: Current Knowledge and Biotechnological Opportunities. In BIOLOGY-BASEL, 2018, vol. 7, no. 3, pp., Registrované v: WOS
19. [1.1] HOLLMANN, Frank - KARA, Selin - OPPERMAN, Diederik J. - WANG, Yonghua. Biocatalytic synthesis of lactones and lactams. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, 2018, vol. 13, no. 23, pp. 3601-3610., Registrované v: WOS
20. [1.1] HORN, Alexander - KAZMAIER, Uli. Purified mCPBA, a Useful Reagent for the Oxidation of Aldehydes. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, vol., no. 20-21, pp. 2531-2536., Registrované v: WOS
21. [1.1] HU, Yujing - ZHANG, Yu - XU, Weihua - XU, Jian - LIN, Xianfu - WU, Qi. Dual-Enzyme-Catalyzed Synthesis of Enantiocomplementary Polyesters. In ACS MACRO LETTERS, 2019, vol. 8, no. 11, pp. 1432-1436., Registrované v: WOS
22. [1.1] CHA, Hee-Jeong - SEO, Eun-Ji - SONG, Ji-Won - JO, Hye-Jin - KUMAR, Akula Ravi - PARK, Jin-Byung. Simultaneous Enzyme/Whole-Cell Biotransformation of C18 Ricinoleic Acid into (R)-3-Hydroxynonanoic Acid, 9-Hydroxynonanoic Acid, and 1,9-Nonanedioic Acid. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2018, vol. 360, no. 4, pp. 696-703., Registrované v: WOS
23. [1.1] CHENPRAKHON, Pirom - WONGNATE, Thanyaporn - CHAIYEN, Pimchai. Monooxygenation of aromatic compounds by flavin-dependent monooxygenases. In PROTEIN SCIENCE. ISSN 0961-8368, 2019, vol. 28, no. 1, pp. 8-29., Registrované v: WOS
24. [1.1] KUMAR, Hemant - FRAAIJE, Marco W. Conversion of Furans by Baeyer-Villiger Monooxygenases. In CATALYSTS. ISSN 2073-4344, 2017, vol. 7, no. 6, pp., Registrované v: WOS
25. [1.1] LATHAM, Jonathan - BRANDENBURGER, Eileen - SHEPHERD, Sarah A. - MENON, Binuraj R. K. - MICKLEFIELD, Jason. Development of Halogenase Enzymes for Use in Synthesis. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 1, pp. 232-269., Registrované v: WOS
26. [1.1] LEWKOWICZ, Elizabeth S. - IRIBARREN, Adolfo M. Whole Cell Biocatalysts for the Preparation of Nucleosides and their Derivatives. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6851-6878., Registrované v: WOS
27. [1.1] LOPEZ-GALLEGO, Fernando. On-pot and cell-free biocatalysis using coimmobilized enzymes on advanced materials. In

- METABOLONS AND SUPRAMOLECULAR ENZYME ASSEMBLIES. ISSN 0076-6879, 2019, vol. 617, no., pp. 385-411., Registrované v: WOS
28. [1.1] MILLER, Anne-Frances - PARK, Jonathan T. - FERGUSON, Kyle L. - PITSAWONG, Warintra - BOMMARIUS, Andreas S. Informing Efforts to Develop Nitroreductase for Amine Production. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
29. [1.1] MORRILL, Charlotte - JENSEN, Chantel - JUST-BARINGO, Xavier - GROGAN, Gideon - TURNER, Nicholas J. - PROCTER, David J. Biocatalytic Conversion of Cyclic Ketones Bearing Quaternary Stereocenters into Lactones in an Enantioselective Radical Approach to Medium-Sized Carbocycles. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 14, pp. 3692-3696., Registrované v: WOS
30. [1.1] MTHETHWA, Katlego Siphamandla - KASSIER, Karin - ENGEL, Jennifer - KARA, Selin - SMIT, Martha Sophia - OPPERMAN, Diederik Johannes. Fungal BVMOs as alternatives to cyclohexanone monooxygenase. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 106, no., pp. 11-17., Registrované v: WOS
31. [1.1] MUSUMECI, Matias A. - LOZADA, Mariana - RIAL, Daniela V. - MAC CORMACK, Walter P. - JANSSON, Janet K. - SJOLING, Sara - CARROLL, JoLynn - DIONISI, Hebe M. Prospecting Biotechnologically-Relevant Monooxygenases from Cold Sediment Metagenomes: An In Silico Approach. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 4, pp., Registrované v: WOS
32. [1.1] QUOC-THAI NGUYEN - MATTEVI, Andrea - FRAAIJE, Marco W. EXPANDING THE REPERTOIRE OF FLAVOENZYME-BASED BIOCATALYSIS. In FUTURE DIRECTIONS IN BIOCATALYSIS, 2ND EDITION, 2017, vol., no., pp. 119-133., Registrované v: WOS
33. [1.1] RICHTER, Nina - FARNBERGER, Judith E. - POMPEI, Simona - GRIMM, Christopher - SKIBAR, Wolfgang - ZEPECK, Ferdinand - KROUTIL, Wolfgang. Biocatalytic Methyl Ether Cleavage: Characterization of the Corrinoid-Dependent Methyl Transfer System from *Desulfitobacterium hafniense*. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2019, vol. 361, no. 11, pp. 2688-2695., Registrované v: WOS
34. [1.1] ROMERO, Elvira - CASTELLANOS, J. Ruben Gomez - MATTEVI, Andrea - FRAAIJE, Marco W. Characterization and Crystal Structure of a Robust Cyclohexanone Monooxygenase. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 51, pp. 15852-15855., Registrované v: WOS
35. [1.1] ROMERO, Elvira - CASTELLANOS, J. Ruben Gomez - GADDA, Giovanni - FRAAIJE, Marco W. - MATTEVI, Andrea. Same Substrate, Many Reactions: Oxygen Activation in Flavoenzymes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 4, pp. 1742-1769., Registrované v: WOS
36. [1.1] SEO, Eun-Ji - KANG, Chae Won - WOO, Ji-Min - JANG, Sungho - YEON, Young Joo - JUNG, Gyoo Yeol - PARK, Jin-Byung. Multi-level engineering of Baeyer-Villiger monooxygenase-based *Escherichia coli* biocatalysts for the production of C9 chemicals from oleic acid. In METABOLIC ENGINEERING. ISSN 1096-7176, 2019, vol. 54, no., pp. 137-144., Registrované v: WOS
37. [1.1] SHELDON, Roger A. A. - BRADY, Dean - BODE, Moira L. L.

The Hitchhiker's guide to biocatalysis: recent advances in the use of enzymes in organic synthesis. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 10, pp. 2587-2605. Dostupné na: <https://doi.org/10.1039/c9sc05746c>., Registrované v: WOS

38. [1.1] SHELDON, Roger A. - BRADY, Dean. Broadening the Scope of Biocatalysis in Sustainable Organic Synthesis. In CHEMSUSCHEM. ISSN 1864-5631, 2019, vol. 12, no. 13, pp. 2859-2881., Registrované v: WOS

39. [1.1] SILVA, Andre Leonardo Patricio - DA SILVA CARIDADE, Taiza Nayara - MAGALHAES, Renata Rodrigues - DE SOUSA, Kelly Teotonio - DE SOUSA, Christian Carlos - VALE, Juliana Alves. Biocatalytic production of ε-caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8887-8895. Dostupné na: <https://doi.org/10.1007/s00253-020-10875-7>., Registrované v: WOS

40. [1.1] SOLE, Jordi - BRUMMUND, Jan - CAMINAL, Gloria - ALVARO, Gregorio - SCHURMANN, Martin - GUILLEN, Marina. Enzymatic Synthesis of Trimethyl-ε-caprolactone: Process Intensification and Demonstration on a 100 L Scale. In ORGANIC PROCESS RESEARCH & DEVELOPMENT. ISSN 1083-6160, 2019, vol. 23, no. 11, pp. 2336-2344., Registrované v: WOS

41. [1.1] SOLE, Jordi - BRUMMUND, Jan - CAMINAL, Gloria - SCHURMAN, Martin - ALVARO, Gregorio - GUILLEN, Marina. Trimethyl-ε-caprolactone synthesis with a novel immobilized glucose dehydrogenase and an immobilized thermostable cyclohexanone monooxygenase. In APPLIED CATALYSIS A-GENERAL. ISSN 0926-860X, 2019, vol. 585, no., pp., Registrované v: WOS

42. [1.1] SONG, Ji-Won - SEO, Joo-Hyun - OH, Doek-Kun - BORNSCHEUER, Uwe T. - PARK, Jin-Byung. Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2020, vol. 10, no. 1, pp. 46-64. Dostupné na: <https://doi.org/10.1039/c9cy01802f>., Registrované v: WOS

43. [1.1] TIEN DUC NGUYEN - CHOI, Go-Eun - GU, Do-Heon - SEO, Pil-Won - KIM, Ji-Won - PARK, Jin-Byung - KIM, Jeong-Sun. Structural basis for the selective addition of an oxygen atom to cyclic ketones by Baeyer-Villiger monooxygenase from *Parvibaculum lavamentivorans*. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2019, vol. 512, no. 3, pp. 564-570., Registrované v: WOS

44. [1.1] TOLMIE, Carmien - SMIT, Martha S. - OPPERMAN, Diederik J. Native roles of Baeyer-Villiger monooxygenases in the microbial metabolism of natural compounds. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2019, vol. 36, no. 2, pp. 326-353., Registrované v: WOS

45. [1.1] VALENCIA, Daniela - GUILLEN, Marina - FURST, Maximilian J. L. J. - LOPEZ-SANTIN, Josep - ALVARO, Gregorio. An immobilized and highly stabilized self-sufficient monooxygenase as biocatalyst for oxidative biotransformations. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2018, vol. 93, no. 4, pp. 985-993., Registrované v: WOS

46. [1.1] VELASCO-LOZANO, Susana - LOPEZ-GALLEGO, Fernando. Wiring step-wise reactions with immobilized multi-enzyme systems. In

- BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2018, vol. 36, no. 3, pp. 184-194., Registrované v: WOS
47. [1.1] WANG, Jian-bo - LI, Guangyue - REETZ, Manfred T. Enzymatic site-selectivity enabled by structure-guided directed evolution. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 28, pp. 3916-3928., Registrované v: WOS
48. [1.1] WILLETTS, Andrew. Characterised Flavin-Dependent Two-Component Monooxygenases from the CAM Plasmid of *Pseudomonas putida* ATCC 17453 (NCIMB 10007): ketolactonases by Another Name. In MICROORGANISMS. ISSN 2076-2607, 2019, vol. 7, no. 1, pp., Registrované v: WOS
49. [1.1] WOO, Ji-Min - JEON, Eun-Yeong - SEO, Eun-Ji - SEO, Joo-Hyun - LEE, Dong-Yup - YEON, Young Joo - PARK, Jin-Byung. Improving catalytic activity of the Baeyer-Villiger monooxygenase-based *Escherichia coli* biocatalysts for the overproduction of (Z)-11-(heptanoyloxy) undec-9-enoic acid from ricinoleic acid. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
50. [1.1] YANG, Guang - CANG, Ran - SHEN, Li-Qun - XUE, Feng - HUANG, He - ZHANG, Zhi-Gang. Expanding the substrate scope of phenylacetone monooxygenase from *Thermobifida fusca* towards cyclohexanone by protein engineering. In CATALYSIS COMMUNICATIONS. ISSN 1566-7367, 2019, vol. 119, no., pp. 159-163., Registrované v: WOS
51. [1.1] ZUREK, Jiri - SVOBODOVA, Eva - STURALA, Jiri - DVORAKOVA, Hana - SVOBODA, Jiri - CIBULKA, Radek. Chiral ethylene-bridged flavinium salts: the stereoselectivity of flavin-10a-hydroperoxide formation and the effect of substitution on the photochemical properties. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 12, pp. 1780-1791., Registrované v: WOS
52. [1.2] LI, Yangli - YANG, Xiaoyu - DENG, Zixin - ZHU, Dongqing. Baeyer-Villiger monooxygenases in the biosynthesis of microbial secondary metabolites. In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology. ISSN 10003061, 2019-03-25, 35, 3, pp. 351-362., Registrované v: SCOPUS
53. [1.2] LÓPEZ-GALLEGÓ, Fernando. On-pot and cell-free biocatalysis using coimmobilized enzymes on advanced materials. In Methods in Enzymology. ISSN 00766879, 2019-01-01, 617, pp. 385-411., Registrované v: SCOPUS
54. [1.2] OU, Xiao Yang - WU, Xiao Ling - PENG, Fei - XU, Pei - ZHANG, Shi Yu - ZONG, Min Hua - LOU, Wen Yong. Highly efficient asymmetric reduction of 2-octanone in biphasic system by immobilized *Acetobacter* sp. CCTCC M209061 cells. In Journal of Biotechnology. ISSN 01681656, 2019-06-20, 299, pp. 37-43., Registrované v: SCOPUS
55. [1.2] YEON, Young Joo - PARK, Jin Byung. Regiospecific Conversion of Lipids and Fatty Acids through Enzymatic Cascade Reactions. In Lipid Modification by Enzymes and Engineered Microbes, 2018-03-20, pp. 139-155., Registrované v: SCOPUS
56. [3.1] He Li, Zhao Lei, Xu Dan-Jie, Li Si-Min. (2016). The application of immobilized microbes in biofilm-type biochemical oxygen demand sensor: a review. In Microbiology China, 43(7), 1565-1578

ADCA199 BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MIHOVILOVIČ, Marko D. - LACÍK, Igor. Continuous testing system for Baeyer-Villiger biooxidation using recombinant Escherichia coli expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. In *Enzyme and Microbial Technology*, 2011, vol. 49, p. 284 - 288. (2010: 2.287 - IF, Q2 - JCR, 1.207 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2011.05.013>

Ohlasy:

1. [1.1] JAVAHERIAN, M. - DORAGHI, F. Nano silica boron sulfuric acid as a dual Bronsted/Lewis acid and a heterogeneous catalyst in Baeyer-Villiger oxidation of ketones with hydrogen peroxide. In REACTION KINETICS MECHANISMS AND CATALYSIS. ISSN 1878-5190, OCT 2015, vol. 116, no. 1, p. 235-248., Registrované v: WOS
2. [1.1] KADISCH, M. - WILLRODT, C. - HILLEN, M. - BUHLER, B. - SCHMID, A. Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, AUG 2017, vol. 12, no. 8., Registrované v: WOS
3. [1.1] LERCHNER, J. - DAVID, K.A. - UNGER, F.T. - LEMKE, K. - FORSTER, T. - MERTENS, F. Continuous monitoring of drug effects on complex biological samples by segmented flow chip calorimetry. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, FEB 2017, vol. 127, no. 2, p. 1307-1317., Registrované v: WOS
4. [1.1] MELGAREJO-TORRES, R. - CASTILLO-ARAIZA, C.O. - LOPEZ-ORDAZ, P. - CALLEJA-CASTANEDA, N.V. - CANO-VELASCO, J.L. - CAMACHO-RUIZ, R.M. - LYE, G.J. - HUERTA-OCHOA, S. Evaluation of ionic liquids as dispersed phase during the production of lactones with E-coli in a three phase partitioning bioreactor. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, NOV 1 2015, vol. 279, p. 379-386., Registrované v: WOS
5. [1.1] MELGAREJO-TORRES, R. - CASTILLO-ARAIZA, C.O. - DUTTA, A. - BENY, G. - TORRES-MARTINEZ, D. - GUTIERREZ-ROJAS, M. - LYE, G.J. - HUERTA-OCHOA, S. Mathematical model of a three phase partitioning bioreactor for conversion of ketones using whole cells. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, JAN 15 2015, vol. 260, p. 765-775., Registrované v: WOS
6. [1.2] MELGAREJO-TORRES, R. - PÉREZ-VEGA, S.B. - RIVERA-ARREDONDO, V.M. - CHE-GALICIA, G. Multiphase bioreactors in the pharmaceutical industry. (2019) Advances in Chemical Engineering, 54, p. 195-237., Registrované v: Scopus

ADCA200 BUČKO, Marek - VIKARTOVSKÁ, Alica - LACÍK, Igor - KOLLÁRIKOVÁ, Gabriela - GEMEINER, Peter - PÄTOPRSTÝ, Vladimír - BRYGIN, Michal. Immobilization of a whole-cell epoxide-hydrolyzing biocatalyst in sodium alginate-cellulose sulfate-poly(methylene-co-guanidine) capsules using a controlled encapsulation process. In *Enzyme and Microbial Technology*. - New York : Elsevier, 2005, vol. 36, p.118-126. ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2004.07.006>

Ohlasy:

1. [1.1] BAO, W.N. - LIAO, H.X. - CHEN, Y. - HUANG, Q.Q. -

- HUANG, W.D. - FANG, R. - LIU, S.W. Isolation of a novel strain *Aspergillus niger* WH-2 for production of l(+)-tartaric acid under acidic condition. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, APR 2020, vol. 42, no. 4, p. 605-612., Registrované v: WOS
2. [1.1] BAO, W.N. - PAN, H.F. - ZHANG, Z.H. - CHENG, Y.Q. - XIE, Z.P. - ZHANG, J.G. Isolation of the stable strain *Labrys* sp BK-8 for L(+)-tartaric acid production. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, MAY 2015, vol. 119, no. 5, p. 538-542., Registrované v: WOS
3. [1.1] DEMONT, A. - MARISON, I.W. Microencapsulation by Dripping and Jet Break-Up. In HANDBOOK OF ENCAPSULATION AND CONTROLLED RELEASE. 2016, p. 177-199., Registrované v: WOS
4. [1.1] DONG, S. - LIU, X. - CUI, G.Z. - CUI, Q. - WANG, X.Q. - FENG, Y.G. Structural insight into the catalytic mechanism of a cis-epoxysuccinate hydrolase producing enantiomerically pure D(-)-tartaric acid. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, AUG 7 2018, vol. 54, no. 61, p. 8482-8485., Registrované v: WOS
5. [1.1] KECSKEMETI, A. - GASPAR, A. Particle-based immobilized enzymatic reactors in microfluidic chips. In TALANTA. ISSN 0039-9140, APR 1 2018, vol. 180, p. 211-228., Registrované v: WOS
6. [1.1] KISUKURI, C.M. - ANDRADE, L.H. Production of chiral compounds using immobilized cells as a source of biocatalysts. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2015, vol. 13, no. 40, p. 10086-10107., Registrované v: WOS
7. [1.1] LIU, Y. - ZHANG, C. - ZHANG, C.J. - GUO, Y. - ZHAO, J.C. - CUI, L. - ZHU, P. The Effect of Oxidation Degree of Oxidized Starch on the Properties of Sodium Alginate/Gelatin IPNs Crosslinked with Oxidized Starch. In ACTA POLYMERIC SINICA. ISSN 1000-3304, APR 20 2015, no. 4, p. 374-381., Registrované v: WOS
8. [1.1] TODOROVA, E.V. - CHERNEV, G.E. - DJAMBAZOV, S.P. Synthesis and characterization of silica hybrid materials applicable for defect remediation of concrete. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2015, vol. 47, no. 1, p. 268-275., Registrované v: WOS
9. [1.1] WANG, Y.G. - WANG, X.J. - XIE, Y.J. - ZHANG, K. Functional nanomaterials through esterification of cellulose: a review of chemistry and application. In CELLULOSE. ISSN 0969-0239, JUL 2018, vol. 25, no. 7, p. 3703-3731., Registrované v: WOS
10. [1.1] XUAN, J.S. - FENG, Y.G. Enantiomeric Tartaric Acid Production Using cis-Epoxy succinate Hydrolase: History and Perspectives. In MOLECULES. ISSN 1420-3049, MAR 1 2019, vol. 24, no. 5., Registrované v: WOS
11. [1.1] YOUNES, M. - AQUILINA, G. - CASTLE, L. - ENGEL, K.H. - FOWLER, P. - FERNANDEZ, M.J.F. - FURST, P. - GURTNER, R. - GUNDERT-REMY, U. - HUSOY, T. - MENNES, W. - SHAH, R. - WAALKENS-BERENDSEN, I. - WOLFLE, D. - BOON, P. - TOBBACK, P. - WRIGHT, M.C. - AGUILERA, J. - RINCON, A.M. - TARD, A. - MOLDEUS, P. Re-evaluation of L(+)-tartaric acid (E 334), sodium tartrates (E 335), potassium tartrates (E 336), potassium sodium tartrate (E 337) and calcium tartrate (E 354) as food additives. In EFSA JOURNAL. MAR 2020, vol. 18, no. 3., Registrované v: WOS

12. [1.1] ZHANG, Q.L. - LIN, D.Q. - YAO, S.J. Review on biomedical and bioengineering applications of cellulose sulfate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, NOV 5 2015, vol. 132, p. 311-322., Registrované v: WOS
13. [1.2] ARCHELAS, Alain - IACAZIO, Gilles - KOTIK, Michael. Epoxide Hydrolases and their Application in Organic Synthesis. In Green Biocatalysis, 2016-05-13, pp. 179-229., Registrované v: SCOPUS
14. [1.2] LEE, Boon Beng - RAVINDRA, Pogaku - CHAN, Eng Seng. Ca-alginate liquid core capsule for lactobacili fermentation. In Advances in Bioprocess Technology, 2015-01-01, pp. 455-471., Registrované v: SCOPUS
15. [1.2] SAINI, Priya - SAREEN, Dipti. An Overview on the Enhancement of Enantioselectivity and Stability of Microbial Epoxide Hydrolases. In Molecular Biotechnology. ISSN 10736085, 2017-03-01, 59, 2-3, pp. 98-116., Registrované v: SCOPUS

ADCA201 BUČKO, Marek - VIKARTOVSKÁ, Alica - GEMEINER, Peter - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - MARISON, I.W. Nocardia tartaricans cells immobilized in sodium alginate-cellulose sulfate-poly (methylene-co-guanidine)capsules: mechanical resistance and operational stability. In *Journal of Chemical Technology and Biotechnology*, 2006, vol. 81, no. 4, p. 500 - 504. (2005: 0.981 - IF, Q2 - JCR, 0.599 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0268-2575. Dostupné na: <https://doi.org/10.1002/jctb.1466>

Ohlasy:

1. [1.1] HRONSKA, H. - MICHALIKOVA, S. - ROSENBERG, M. Microbial production of specialty C4 dicarboxylic acids from maleic anhydride. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2017, vol. 56, no. 3, p. 219-231., Registrované v: WOS
2. [1.1] ZHANG, Q.L. - LIN, D.Q. - YAO, S.J. Review on biomedical and bioengineering applications of cellulose sulfate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, NOV 5 2015, vol. 132, p. 311-322., Registrované v: WOS

ADCA202 BUČKOVÁ, A. - EISENREICHOVÁ, E. - HALADOVÁ, M. - UHRÍN, D. - TOMKO, J. A new acetylated kaempferol derivative from Lilium candidum L. In *Phytochemistry*, 1988, vol. 27, p. 1914-1915. ISSN 0031-9422.

Ohlasy:

1. [1.1] JOVTCHEV, Gabriele - GATEVA, Svetla - STANKOV, Alexander. Lilium Compounds Kaempferol and Jatropham Can Modulate Cytotoxic and Genotoxic Effects of Radiomimetic Zeocin in Plants and Human Lymphocytes In Vitro. In ENVIRONMENTAL TOXICOLOGY. ISSN 1520-4081, 2016, vol. 31, no. 6, pp. 751-764., Registrované v: WOS
2. [1.2] ILKEI, Viktor - HAZAI, László - ANTUS, Sándor - BÖLCSKEI, Hedvig. Flavonoid Alkaloids: Isolation, Bioactivity, and Synthesis. In Studies in Natural Products Chemistry. ISSN 15725995, 2018-01-01, 56, pp. 247-285., Registrované v: SCOPUS

ADCA203 BUČKOVÁ, M. - LABUDA, J. - ŠANDULA, Jozef - KRIŽKOVÁ, L. - ŠTĚPÁNEK, I. - ĐURAČKOVÁ, Z. Detection of damage to DNA and antioxidative activity of yeast polysaccharides at the DNA-modified screen-printed electrode. In

Talanta, 2002, vol. 56, p. 939-947. Dostupné na:
[https://doi.org/10.1016/S0039-9140\(01\)00654-3](https://doi.org/10.1016/S0039-9140(01)00654-3)

Ohlasy:

1. [1.1] APAK, Resat - CEKIC, Sema Demirci - UZER, Aysem - CELIK, Saliha Esin - BENER, Mustafa - BEKDESER, Burcu - CAN, Ziya - SAGLAM, Sener - ONEM, Ayse Nur - ERCAG, Erol. Novel Spectroscopic and Electrochemical Sensors and Nanoprobes for the Characterization of Food and Biological Antioxidants. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 1, pp., Registrované v: WOS
2. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In *HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS*, 2015, vol., no., pp. 61-103., Registrované v: WOS
3. [1.1] HASSAN, Riyadh Abdulmalek - HENG, Lee Yook - TAN, Ling Ling. Novel DNA Biosensor for Direct Determination of Carrageenan. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
4. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
5. [1.1] LI, Zhi - ZILBERMAN, Yael - LU, Qing-Bin - TANG, Xiaowu (Shirley). Electrochemical methods for probing DNA damage mechanisms and designing cisplatin-based combination chemotherapy. In *BIOTECHNIQUES*. ISSN 0736-6205, 2019, vol. 66, no. 3, pp. 135-142., Registrované v: WOS
6. [1.1] MOUSAVISANI, Seyedeh Zeinab - RAOOF, Jahan Bakhsh - OJANI, Reza - BAGHERYAN, Zahra. An impedimetric biosensor for DNA damage detection and study of the protective effect of deferoxamine against DNA damage. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2018, vol. 122, no., pp. 142-148., Registrované v: WOS
7. [1.1] UZUNBOY, Seda - CEKIC, Sema Demirci - EKSIN, Ece - ERDEM, Arzum - APAK, Resat. CUPRAC colorimetric and electroanalytical methods determining antioxidant activity based on prevention of oxidative DNA damage. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 518, no., pp. 69-77., Registrované v: WOS
8. [1.2] SU, Ping - SONG, Siyuan - WU, Qiumin - SUN, Xin - LIU, Yun. Preparation of the flavonoid microcapsules of okra' flowers and the antioxidant capacity in oil. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2016-04-30, 16, 4, pp. 153-158., Registrované v: SCOPUS

ADCA204 BUCHTA, V. - SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - ALT, S. - JÍLEK, P. *Zygosaccharomyces bailii* a potential spoiler of mustard. In *Food microbiology*, 1996, vol. 13, p. 133-135. ISSN 0740-0020. Dostupné na:
<https://doi.org/10.1006/fmic.1996.0017>

Ohlasy:

1. [1.2] GÜNDÜZ ERGÜN, Burcu - HÜCCETOĞULLARI, Damla - ÖZTÜRK, Sibel - ÇELİK, Eda - ÇALIK, Pınar. Established and upcoming yeast

expression systems. In *Methods in Molecular Biology*. ISSN 10643745, 2019-01-01, 1923, pp. 1-74., Registrované v: SCOPUS
2. [1.2] MOCANU, Gabriel Dănuț - BOTEZ, Elisabeta. Microbial contaminants of acidified specialty products. In *Microbial Contamination of Food Products*, 2018-01-01, pp. 161-175., Registrované v: SCOPUS

ADCA205 BUJDÁKOVÁ, H. - PAULOVÍČOVÁ, Ema - BORECKÁ-MELKUSOVÁ, S. - GAŠPERÍK, Juraj - KUCHÁRIKOVÁ, S. - KOLECKÁ, A. - LELL, C. - JENSEN, D.B. - WURZNER, R. - CHORVÁT, D. Jr. - PICHOVÁ, I. Antibody response to the 45 kDa *Candida albicans* antigen in an animal model and potential role of the antigen in adherence. In *Journal of Medical Microbiology*, 2008, vol. 57, p. 1466-1472. (2007: 2.091 - IF, Q3 - JCR, 1.078 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0022-2615. Dostupné na: <https://doi.org/10.1099/jmm.0.2008/001479-0>

Ohlasy:

1. [1.1] CARRANO, Giulia - PAULONE, Simona - LAINZ, Lucia - SEVILLA, Maria-Jesus - BLASI, Elisabetta - MORAGUES, Maria-Dolores. Anti-*Candida albicans* germ tube antibodies reduce in vitro growth and biofilm formation of *C. albicans*. In *REVISTA IBEROAMERICANA DE MICOLOGIA*. ISSN 1130-1406, 2019, vol. 36, no. 1, pp. 9-16., Registrované v: WOS
2. [1.1] LI, Jiayan - CHEN, Daiwen - YU, Bing - HE, Jun - ZHENG, Ping - MAO, Xiangbing - YU, Jie - LUO, Junqiu - TIAN, Gang - HUANG, Zhiqing - LUO, Yuheng. Fungi in Gastrointestinal Tracts of Human and Mice: from Community to Functions. In *MICROBIAL ECOLOGY*. ISSN 0095-3628, 2018, vol. 75, no. 4, pp. 821-829., Registrované v: WOS
3. [1.1] MIKAMO, Hiroshige - YAMAGISHI, Yuka - SUGIYAMA, Hiroyuki - SADAKATA, Hisato - MIYAZAKI, Shun - SANO, Takako - TOMITA, Tsutomu. High glucose-mediated overexpression of ICAM-1 in human vaginal epithelial cells increases adhesion of *Candida albicans*. In *JOURNAL OF OBSTETRICS AND GYNAECOLOGY*. ISSN 0144-3615, 2018, vol. 38, no. 2, pp. 226-230., Registrované v: WOS
4. [1.1] MISHRA, Nripendra Nath - ALI, Shakir - SHUKLA, Praveen K. A monoclonal antibody against 47.2 kDa cell surface antigen prevents adherence and affects biofilm formation of *Candida albicans*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2015, vol. 31, no. 1, p. 11-21., Registrované v: WOS
5. [1.2] GIRARDOT, Marion - IMBERT, Christine. Natural sources as innovative solutions against fungal biofilms. In *Advances in Experimental Medicine and Biology*. ISSN 0065-2598, 2016, 931, p. 105-125., Registrované v: SCOPUS

ADCA206 BUJDÁKOVÁ, H. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - ŠÍMOVÁ, Z. Participation of the *Candida albicans* surface antigen in adhesion, the first phase of biofilm development. In *FEMS Immunology and medical microbiology*, 2010, vol. 59, p. 485-492. (2009: 2.335 - IF, Q3 - JCR, Current Contents - CCC). (2010 - Current Contents). ISSN 0928-8244. Dostupné na: <https://doi.org/10.1111/j.1574-695X.2010.00713.x>

Ohlasy:

1. [1.1] HARPF, Verena - RAMBACH, Guenter - WUERZNER, Reinhard - LASS-FLOERL, Cornelia - SPETH, Cornelia. *Candida* and

Complement: New Aspects in an Old Battle. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.01471>., Registrované v: WOS

2. [1.1] MISHRA, Nripendra Nath - ALI, Shakir - SHUKLA, Praveen K. A monoclonal antibody against 47.2 kDa cell surface antigen prevents adherence and affects biofilm formation of *Candida albicans*. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2015, vol. 31, no. 1, pp. 11-21., Registrované v: WOS
3. [1.1] PIERCE, Christopher G. - SRINIVASAN, Anand - RAMASUBRAMANIAN, Anand K. - LOPEZ-RIBOT, Jose L. From Biology to Drug Development: New Approaches to Combat the Threat of Fungal Biofilms. In MICROBIOLOGY SPECTRUM, 2015, vol. 3, no. 3, pp., Registrované v: WOS

ADCA207 BURYI, Maksym** - BABIN, Vladimír - CHANG, Yu Ying - REMEŠ, Zdeněk - MIČOVÁ, Júlia - ŠIMEK, Daniel. Influence of precursor age on defect states in ZnO nanorods. In *Applied Surface Science*, 2020, vol. 525, art. no. 146448 [8] p. (2019: 6.182 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146448>

Ohlasy:

1. [1.1] CRAPANZANO, Roberta - VILLA, Irene - MOSTONI, Silvia - D'ARIENZO, Massimiliano - DI CREDICO, Barbara - FASOLI, Mauro - SCOTTI, Roberto - VEDDA, Anna. Morphology Related Defectiveness in ZnO Luminescence: From Bulk to Nano-Size. In NANOMATERIALS, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/nano10101983>., Registrované v: WOS

ADCA208 BYSTRICKÝ, Peter - MACHOVÁ, Eva - KOLAROVA, Nadežda. Effect of gluco-monosaccharides and different conditions on digestion of hyaluronan by testicular hyaluronidase. In *General Physiology and Biophysics*, 2002, vol. 21, p. 463-469. (2001: 0.932 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0231-5882.

Ohlasy:

1. [1.2] TAO, Lei - SONG, Fei - XU, Naiyu - LI, Duxin - LINHARDT, Robert J. - ZHANG, Zhenqing. New insights into the action of bacterial chondroitinase AC I and hyaluronidase on hyaluronic acid. In Carbohydrate Polymers. ISSN 01448617, 2017-02-20, 158, pp. 85-92., Registrované v: SCOPUS

ADCA209 BYSTRICKÝ, Slavomír - PAULOVIČOVÁ, Ema - MACHOVÁ, Eva. *Candida albicans* mannan-protein conjugate as vaccine candidate. In *Immunology Letters*, 2003, vol.85, p. 251-255. ISSN 0165-2478. Dostupné na: [https://doi.org/10.1016/S0165-2478\(02\)00241-9](https://doi.org/10.1016/S0165-2478(02)00241-9)

Ohlasy:

1. [1.1] GILLIS, Richard B. - ADAMS, Gary G. - BESONG, David T. M. - MACHOVA, Eva - EBRINGEROVA, Anna - ROWE, Arthur J. - HARDING, Stephen E. - PATEL, Trushar R. Application of novel analytical ultracentrifuge analysis to solutions of fungal mannans. In EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS. ISSN 0175-7571,

2017, vol. 46, no. 3, pp. 235-245., Registrované v: WOS

2. [1.1] MA, Bin - LV, Xiaofei - HE, Yan - XU, Jianming. Assessing adsorption of polycyclic aromatic hydrocarbons on *Rhizopus oryzae* cell wall components with water-methanol cosolvent model. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2016, vol. 125, no., pp. 55-60., Registrované v: WOS

3. [1.1] WANG, Xiao-juan - SUI, Xue - YAN, Lan - WANG, Yan - CAO, Yong-bing - JIANG, Yuan-ying. Vaccines in the treatment of invasive candidiasis. In *VIRULENCE*. ISSN 2150-5594, 2015, vol. 6, no. 4, pp. 309-315., Registrované v: WOS

4. [1.1] WANG, Xiao-juan - SUI, Xue - YAN, Lan - WANG, Yan - CAO, Yong-bing - JIANG, Yuan-ying. Vaccines in the treatment of invasive candidiasis. In *VIRULENCE*. ISSN 2150-5594, 2015, vol. 6, no. 4, pp. 309-315., Registrované v: WOS

ADCA210 BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - MALOVÍKOVÁ, Anna - KOGAN, Grigorij. Determination of cross-linking effect of adipic acid dihydrazide on glycoconjugate preparation S. Bystricky. In *Glycoconjugate Journal*, 1999, vol. 16, no. 11, p. 691-695.

Ohlasy:

1. [1.1] ABDULSAMAD, A. - OYI, A. R. - ISAH, A. B. - ODIDI, I. Derivatisation of Cashew Gum via Cross-linking with Citric Acid: Characterisation and Preliminary Evaluation of Tableting Properties. In *BRITISH JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 2231-2919, 2015, vol. 6, no. 1, pp., Registrované v: WOS

ADCA211 BYSTRICKÝ, Slavomír - PAVLIAK, V. - SZU, S.C. Characterization of colominic acid by circular dichroism and viscosity analysis. In *Biophysical Chemistry*, 1997, vol. 63, p. 147-152. Dostupné na: [https://doi.org/10.1016/S0301-4622\(96\)02242-9](https://doi.org/10.1016/S0301-4622(96)02242-9)

Ohlasy:

1. [1.1] LEI, Yanli - WU, Miaosen - WANG, Junyi - ZHANG, Hongtao - ZHAN, Xiaobei - SUN, Zhenglong - WU, Jianrong. Preparation and property of a biantenna macromolecule based on polysialic acid. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1342-1349. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.107>., Registrované v: WOS

ADCA212 BYSTRICKÝ, Slavomír - MALOVÍKOVÁ, Anna - STICZAY, T.. Interaction of alginates and pectins with cationic polypeptides. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1990, vol. 13, p. 283-294. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(90\)90060-6](https://doi.org/10.1016/0144-8617(90)90060-6)

Ohlasy:

1. [1.1] GARHY, Doaa M. A. - ISMAIL, Soha - IBRAHIM, Howida K. - GHORAB, Mahmoud M. Buccoadhesive gel of carvedilol nanoparticles for enhanced dissolution and bioavailability. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2018, vol. 47, no., pp. 151-158., Registrované v: WOS

2. [1.1] KUPIKOWSKA-STOBBA, Barbara - LEWINSKA, Dorota.

Polymer microcapsules and microbeads as cell carriers for in vivo biomedical applications. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 6, pp. 1536-1574. Dostupné na: <https://doi.org/10.1039/c9bm01337g>, Registrované v: WOS

3. [1.1] RAMOS, Philippe E. - CERQUEIRA, Miguel A. - COOK, Michael T. - BOURBON, Ana I. - KHUTORYANSKIY, Vitaliy V. - CHARALAMPOULOS, Dimitris - TEIXEIRA, Jose A. - VICENTE, Antonio A. Development of an immobilization system for in situ micronutrients release. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2016, vol. 90, no., pp. 121-132., Registrované v: WOS

4. [1.1] WANG, Hui-ping - DING, Ni - ZHOU, You-liang - CHEN, Yan-jun - ZHANG, Chao-can. Preparation and Properties of Quaternized Chitosan/Alginate/CaCO₃ Composite Microcapsules Based on Gas-liquid Shearing. In ACTA POLYMERICA SINICA. ISSN 1000-3304, 2015, vol., no. 11, pp. 1336-1343., Registrované v: WOS

5. [1.1] YANG, Jisheng - HAN, Suyu - ZHENG, Haicheng - DONG, Hongbiao - LIU, Jiubing. Preparation and application of micro/nanoparticles based on natural polysaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 123, no., pp. 53-66., Registrované v: WOS

6. [1.1] ZHENG, Haotian. Polymers for structure design of dairy foods. In Polymers for Food Applications, 2018-01-01, pp. 509-528., Registrované v: SCOPUS

7. [1.2] DA SILVA, J. A.Lopes - RAO, M. A. Pectins: Structure, functionality, and uses. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 353-411., Registrované v: SCOPUS

8. [1.2] DUMITRIU, Severian - VIDAL, Pierre F. - CHORNET, Esteban. Hydrogels based on polysaccharides. In Polysaccharides in Medicinal Applications, 2017-01-01, pp. 125-241., Registrované v: SCOPUS

ADCA213 BYSTRICKÝ, Slavomír - MALOVÍKOVÁ, Anna - STICZAY, T. Interaction of acidic polysaccharides with polylysine enantiomers. Conformation probe in solution. In *Carbohydrate Polymers*, 1991, vol. 15, p. 299-308. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(91\)90044-D](https://doi.org/10.1016/0144-8617(91)90044-D)

Ohlasy:

1. [1.1] MATHEW, Basil - OLLI, Sudar - GURU, Ankeeta - NAGARAJ, Ramakrishnan. Chimeric analogs of human beta-defensin 1 and theta-defensin disrupt pre-established bacterial biofilms. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2017, vol. 27, no. 15, pp. 3264-3266., Registrované v: WOS

2. [1.1] VAITHILINGAM, Vijayaganapathy - STEINKJER, Bjorg - RYAN, Liv - LARSSON, Rolf - TUCH, Bernard Edward - OBERHOLZER, Jose - ROKSTAD, Anne Mari. In Vitro and In Vivo Biocompatibility Evaluation of Polyallylamine and Macromolecular Heparin Conjugates Modified Alginate Microbeads. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

3. [1.1] VERMA, Madan L. - DHANYA, B. S. - SUKRITI - RANI, Varsha - THAKUR, Meenu - JESLIN, J. - KUSHWAHA, Rekha. Carbohydrate and protein based biopolymeric nanoparticles: Current status and biotechnological applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 154, no.,

pp. 390-412. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.105.>,
Registrované v: WOS

4. [1.2] EL-SHERBINY, Ibrahim M. - ALI, Isra H. Biopolymer-based nanocomposites for environmental applications. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 389-421., Registrované v: SCOPUS

5. [1.2] KIM, Min Jun - HWANG, Hae Hyun - LEE, Dong Yun. Intelligent scaffold-mediated enhancement of the viability and functionality of transplanted pancreatic islets to cure diabetes mellitus. In Handbook of Intelligent Scaffolds for Tissue Engineering and Regenerative Medicine, 2nd Edition, 2017-01-01, pp. 757-792., Registrované v: SCOPUS

6. [1.2] PANDURANGAN, Ashok Kumar - KANAGESAN, Samikannu - NARAYANASWAMY, Radhakrishnan - ESA, Norhaizan Mohd - PARASURAMAN, Padmanabhan. Nanobiomaterial-based delivery of drugs in various cancer therapies: Classifying the mechanisms of action (using biochemical and molecular biomarkers). In Nanobiomaterials in Cancer Therapy: Applications of Nanobiomaterials, 2016-04-07, pp. 331-365., Registrované v: SCOPUS

7. [1.2] VAITHILINGAM, Vijayaganapathy - BAL, Sumeet - TUCH, Bernard E. Encapsulated islet transplantation: Where do we stand? In Review of Diabetic Studies. ISSN 16136071, 2017-03-01, 14, 1, pp. 51-78., Registrované v: SCOPUS

ADCA214 BYSTRICKÝ, Slavomír - SZU, S.C. O-Acetylation affects the binding properties of the carboxyl groups on the Vi bacterial polysaccharide. In *Biophysical Chemistry*, 1994, vol. 51, p. 1-7. Dostupné na: [https://doi.org/10.1016/0301-4622\(94\)00002-6](https://doi.org/10.1016/0301-4622(94)00002-6)

Ohlasy:

1. [1.1] HITRI, Krisztina - KUTTEL, Michelle M. - DE BENEDETTO, Gianluigi - LOCKYER, Kay - GAO, Fang - HANSAL, Peter - RUDD, Timothy R. - BEAMISH, Emma - RIJPKEMA, Sjoerd - RAVENSCROFT, Neil - BOLGIANO, Barbara. O-acetylation of typhoid capsular polysaccharide confers polysaccharide rigidity and immunodominance by masking additional epitopes. In VACCINE. ISSN 0264-410X, 2019, vol. 37, no. 29, pp. 3866-3875., Registrované v: WOS

2. [1.1] HU, Xiaomei - CHEN, Zhijin - XIONG, Kun - WANG, Jing - RAO, Xiancai - CONG, Yanguang. Vi capsular polysaccharide: Synthesis, virulence, and application. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, 2017, vol. 43, no. 4, pp. 440-452., Registrované v: WOS

3. [1.1] JONES, Christopher - AN, So Jung - YOON, Yeon Kyung - KOTHARI, Sudeep - SAHASTRABUDDHE, Sushant - CARBIS, Rodney. Spectroscopic characterisation of a series of Salmonella Typhi Vi-diphtheria toxoid glycoconjugate antigens differing in polysaccharide-protein ratio. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2020, vol. 181, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2020.113100.>, Registrované v: WOS

4. [1.2] MULARD, Laurence A. Bacterial polysaccharides as major surface antigens: Interest in O-acetyl substitutions. In Carbohydrate Chemistry. ISSN 2041353X, 2018-01-01, 43, pp. 71-103., Registrované v: SCOPUS

ADCA215 BYSTRICKÝ, Slavomír - MEDOVARSKÁ, Izabela - MACHOVÁ, Eva.

Separation of different types of monosaccharides by polyacrylamide column chromatography. In *Zeitschrift für Naturforschung Section B - A Journal of Chemical Sciences*, 2011, vol. 66, p. 295-298. (2010: 0.816 - IF, Q4 - JCR, 0.317 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0932-0776.

Ohlasy:

1. [1.1] HUANG, Shiyu - YANG, Wenjian - HUANG, Gangliang. Preparation and activities of selenium polysaccharide from plant such as *Grifola frondosa*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 242, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116409>., Registrované v: WOS
2. [1.1] SUSHYTSKYI, L. - BLEHA, R. - SINICA, A. - CAPEK, P. - COPIKOVA, J. - KASTANEK, P. WATER-SOLUBLE POLYSACCHARIDES ISOLATED FROM BIOMASS OF CHLOROPHYL-DEFICIENT MICROALGA *Chlorella vulgaris* G11. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, vol., no., pp. 385-389., Registrované v: WOS

ADCA216 CABIB, E. - FARKAŠ, Vladimír - KOSÍK, Ondřej - BLANCO, N. -

ARROYO, J. - MCPIE, P. Assembly of the yeast cell wall: Crh1p and Crh2p act as transglycosylases in vivo and in vitro. In *Journal of Biological Chemistry*, 2008, vol. 283, p. 29859-29872. (2007: 5.581 - IF, Q1 - JCR, 4.338 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M804274200>

Ohlasy:

1. [1.1] ADHIKARI, Hema - CULLEN, Paul J. Role of Phosphatidylinositol Phosphate Signaling in the Regulation of the Filamentous-Growth Mitogen-Activated Protein Kinase Pathway. In *EUKARYOTIC CELL*. ISSN 1535-9778, 2015, vol. 14, no. 4, pp. 427-440., Registrované v: WOS
2. [1.1] ARAUJO, Danielle Silva - LIMA, Patricia de Sousa - BAEZA, Lilian Cristiane - ALVES PARENTE, Ana Flavia - BILAO, Alexandre Melo - BORGES, Clayton Luiz - DE ALMEIDA SOARES, Celia Maria. Employing proteomic analysis to compare *Paracoccidioides lutzii* yeast and mycelium cell wall proteins. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2017, vol. 1865, no. 11, pp. 1304-1314., Registrované v: WOS
3. [1.1] BLATZER, Michael - BEAUVAIS, Anne - HENRISSAT, Bernard - LATGE, Jean-Paul. Revisiting Old Questions and New Approaches to Investigate the Fungal Cell Wall Construction. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 331-369. Dostupné na: https://doi.org/10.1007/82_2020_209., Registrované v: WOS
4. [1.1] GEOGHEGAN, Ivey A. - GURR, Sarah J. Chitosan Mediates Germling Adhesion in *Magnaporthe oryzae* and Is Required for Surface Sensing and Germling Morphogenesis. In *PLOS PATHOGENS*. ISSN 1553-7366, 2016, vol. 12, no. 6, pp., Registrované v: WOS
5. [1.1] GHAMRAWI, Sarah - GASTEBOIS, Amandine -

- ZYKWINSKA, Agata - VANDEPUTTE, Patrick - MAROT, Agnes - MABILLEAU, Guillaume - CUENOT, Stephane - BOUCHARA, Jean-Philippe. A Multifaceted Study of *Scedosporium boydii* Cell Wall Changes during Germination and Identification of GPI-Anchored Proteins. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 6, pp., Registrované v: WOS
6. [1.1] GOW, Neil A. R. - LATGE, Jean-Paul - MUNRO, Carol A. The Fungal Cell Wall: Structure, Biosynthesis, and Function. In MICROBIOLOGY SPECTRUM, 2017, vol. 5, no. 3, pp., Registrované v: WOS
7. [1.1] HUANG, Wei - SHANG, Yanfang - CHEN, Peilin - CEN, Kai - WANG, Chengshu. Basic Leucine Zipper (bZIP) Domain Transcription Factor MBZ1 Regulates Cell Wall Integrity, Spore Adherence, and Virulence in *Metarhizium robertsii*. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2015, vol. 290, no. 13, pp. 8218-8231., Registrované v: WOS
8. [1.1] KALEBINA, Tatyana S. - SOKOLOV, Sviatoslav S. - SELYAKH, Irina O. - VANICHKINA, Darya P. - SEVERIN, Fedor F. Amiodarone induces cell wall channel formation in yeast *Hansenula polymorpha*. In SPRINGERPLUS. ISSN 2193-1801, 2015, vol. 4, no., pp., Registrované v: WOS
9. [1.1] KANG, Liqin - ZHU, Yiting - BAI, Yang - YUAN, Sheng. Characteristics, transcriptional patterns and possible physiological significance of glycoside hydrolase family 16 members in *Coprinopsis cinerea*. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, 2019, vol. 366, no. 7, pp., Registrované v: WOS
10. [1.1] KAPPEL, Lisa - MUNSTERKOTTER, Martin - SIPOS, Gyorgy - ESCOBAR RODRIGUEZ, Carolina - GRUBER, Sabine. Chitin and chitosan remodeling defines vegetative development and *Trichoderma* biocontrol. In PLOS PATHOGENS. ISSN 1553-7366, 2020, vol. 16, no. 2, pp. Dostupné na: <https://doi.org/10.1371/journal.ppat.1008320>., Registrované v: WOS
11. [1.1] KIARIE, Elijah G. - LEUNG, Haley - KAKHKI, Reza Akbari Moghaddam - PATTERSON, Rob - BARTA, John R. Utility of Feed Enzymes and Yeast Derivatives in Ameliorating Deleterious Effects of Coccidiosis on Intestinal Health and Function in Broiler Chickens. In FRONTIERS IN VETERINARY SCIENCE, 2019, vol. 6, no., pp., Registrované v: WOS
12. [1.1] KIM, Sang-Jin - BRANDIZZI, Federica. The plant secretory pathway for the trafficking of cell wall polysaccharides and glycoproteins. In GLYCOBIOLOGY. ISSN 0959-6658, 2016, vol. 26, no. 9, pp. 940-949., Registrované v: WOS
13. [1.1] LI, Jizhou - MOUYNA, Isabelle - HENRY, Christine - MOYRAND, Frederique - MALOSSE, Christian - CHAMOT-ROOKE, Julia - JANBON, Guilhem - LATGE, Jean-Paul - FONTAINE, Thierry. Glycosylphosphatidylinositol Anchors from Galactomannan and GPI-Anchored Protein Are Synthesized by Distinct Pathways in *Aspergillus fumigatus*. In JOURNAL OF FUNGI, 2018, vol. 4, no. 1, pp., Registrované v: WOS
14. [1.1] MUSZKIETA, Laetitia - FONTAINE, Thierry - BEAU, Remi - MOUYNA, Isabelle - VOGT, Marian Samuel - TROW, Jonathan - CORMACK, Brendan P. - ESSEN, Lars-Oliver - JOUVION, Gregory - LATGE, Jean-Paul. The Glycosylphosphatidylinositol-Anchored DFG Family Is Essential for the Insertion of Galactomannan into the beta-(1,3)-Glucan-Chitin Core of the Cell Wall of *Aspergillus fumigatus*. In MSPHERE. ISSN 2379-5042, 2019, vol. 4, no. 4, pp., Registrované v: WOS

15. [1.1] OH, Hye Ji - MOON, Hye Yun - CHEON, Seon Ah - HAHN, Yoonsoo - KANG, Hyun Ah. Functional analysis of recombinant human and *Yarrowia lipolytica* O-GlcNAc transferases expressed in *Saccharomyces cerevisiae*. In JOURNAL OF MICROBIOLOGY. ISSN 1225-8873, 2016, vol. 54, no. 10, pp. 667-674., Registrované v: WOS
16. [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike - BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207., Registrované v: WOS
17. [1.1] SIMMONS, Thomas J. - MOHLER, Kyle E. - HOLLAND, Claire - GOUBET, Florence - FRANKOVA, Lenka - HOUSTON, Douglas R. - HUDSON, Andrew D. - MEULEWAETER, Frank - FRY, Stephen C. Hetero-trans--glucanase, an enzyme unique to *Equisetum* plants, functionalizes cellulose. In PLANT JOURNAL. ISSN 0960-7412, 2015, vol. 83, no. 5, pp. 753-769., Registrované v: WOS
18. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS
19. [1.1] VIBORG, Alexander Holm - TERRAPON, Nicolas - LOMBARD, Vincent - MICHEL, Gurvan - CZIZEK, Mirjam - HENRISSAT, Bernard - BRUMER, Harry. A subfamily roadmap of the evolutionarily diverse glycoside hydrolase family 16 (GH16). In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 44, pp. 15973-15986., Registrované v: WOS
20. [1.1] YEO, Chew Chieng - ABU BAKAR, Fauziah - CHAN, Wai Ting - ESPINOSA, Manuel - HARIKRISHNA, Jennifer Ann. Heterologous Expression of Toxins from Bacterial Toxin-Antitoxin Systems in Eukaryotic Cells: Strategies and Applications. In TOXINS. ISSN 2072-6651, 2016, vol. 8, no. 2, pp., Registrované v: WOS
21. [1.2] VAN LEEUWE, Tim M. - ARENTSHORST, Mark - ERNST, Tim - ALAZI, Ebru - PUNT, Peter J. - RAM, Arthur F.J. Efficient marker free CRISPR/Cas9 genome editing for functional analysis of gene families in filamentous fungi. In Fungal Biology and Biotechnology, 2019-09-21, 6, 1, pp., Registrované v: SCOPUS

ADCA217 CABIB, E. - FARKAŠ, Vladimír. The control of morphogenesis: an enzymatic mechanism for the initiation of septum formation i yeast. In *Proceedings of the National Academy of Sciences of the United States of America*, 1971, vol. 68, p. 2052-2056. ISSN 0027-8424.

Ohlasy:

1. [1.1] ARCONES, Irene - RONCERO, Cesar. Monitoring Chitin Deposition During Septum Assembly in Budding Yeast. In YEAST CYTOKINESIS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2016, vol. 1369, no., pp. 59-72., Registrované v: WOS
2. [1.1] FAJARDO-SOMERAA'L, Rosa A. - JOEHNK, Bastian -

BAYRAM, Oezguer - VALERIUS, Oliver - BRAUS, Gerhard H. - RIQUELME, Meritxell. Dissecting the function of the different chitin synthases in vegetative growth and sexual development in *Neurospora crassa*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2015, vol. 75, no., pp. 30-45., Registrované v: WOS

ADCA218 CABIB, E. - FARKAŠ, Vladimír. The control of morphogenesis: an enzymatic mechanism for the initiation of septum formation in yeast. In *Proceedings of the National Academy of Sciences of the United States of America*, 1971, vol. 68, p. 2052-2056. ISSN 0027-8424.

Ohlasy:

1. [1.1] ARCONES, Irene - RONCERO, Cesar. Monitoring Chitin Deposition During Septum Assembly in Budding Yeast. In *YEAST CYTOKINESIS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2016, vol. 1369, no., pp. 59-72., Registrované v: WOS

ADCA219 CAPEK, Peter. A water soluble glucomannan isolated from an immunomodulatory active polysaccharide of *Salvia Officinalis* L. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol.75, s.356-359. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.07.017>

Ohlasy:

1. [1.1] GHORBANI, Ahmad. Sage. In *LEAFY MEDICINAL HERBS: BOTANY, CHEMISTRY, POSTHARVEST TECHNOLOGY AND USES*, 2016, vol., no., pp. 224-236., Registrované v: WOS

2. [1.1] LIAO, Zhencheng - ZENG, Rui - HU, Lingli - MAFFUCCI, Katherine G. - QU, Yan. Polysaccharides from tubers of *Bletilla striata*: Physicochemical characterization, formulation of buccoadhesive wafers and preliminary study on treating oral ulcer. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 122, no., pp. 1035-1045., Registrované v: WOS

3. [1.1] LIU, Xiao - WEI, Weiqi - WU, Shubin - LEI, Ming - LIU, Ying. A promptly approach from monosaccharides of biomass to oligosaccharides via sharp-quenching thermo conversion (SQTC). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 189, no., pp. 204-209., Registrované v: WOS

4. [1.1] SHI, Xiao-Dan - YIN, Jun-Yi - HUANG, Xiao-Jun - QUE, Zhi-Qiang - NIE, Shao-Ping. Structural and conformational characterization of linear O-acetyl-glucomannan purified from gel of *Aloe barbadensis* Miller. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 2373-2380., Registrované v: WOS

5. [1.1] SHI, Xiao-Dan - YIN, Jun-Yi - CUI, Steve W. - WANG, Qi - WANG, Shao-Yun - NIE, Shao-Ping. Plant-derived glucomannans: Sources, preparation methods, structural features, and biological properties. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 99, no., pp. 101-116. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.02.016>., Registrované v: WOS

6. [1.1] SIPOSOVA, Kristina - KOLLAROVA, Karin - LISKOVA, Desana - VIVODOVA, Zuzana. The effects of IBA on the composition of maize

- root cell walls. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2019, vol. 239, no., pp. 10-17., Registrované v: WOS
7. [1.1] WANG, Shurong - RU, Bin - LIN, Haizhou - SUN, Wuxing. Pyrolysis behaviors of four O-acetyl-preserved hemicelluloses isolated from hardwoods and softwoods. In FUEL. ISSN 0016-2361, 2015, vol. 150, no., pp. 243-251., Registrované v: WOS
8. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO, Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from *Salvia miltiorrhiza*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.113>., Registrované v: WOS
9. [1.2] XIE, Mingyong - YIN, Junyi - NIE, Shaoping. Research Progress on Structural Characterization of Polysaccharides from Natural Resources. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-03-31, 17, 3, pp. 1-19., Registrované v: SCOPUS

ADCA220 CAPEK, Peter - ALFOLDI, Juraj - LIŠKOVÁ, Desana. An acetylated galactoglucomannan from *Picea abies* L. Karst. In *Carbohydrate Research*, 2002, vol.337, p.1033-1037. (2001: 1.349 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(02\)00090-3](https://doi.org/10.1016/S0008-6215(02)00090-3)

Ohlasy:

1. [1.1] AZHAR, Shoaib - HENRIKSSON, Gunnar - THELIANDER, Hans - LINDSTROM, Mikael E. Extraction of hemicelluloses from fiberized spruce wood. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 19-24., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - MARTINEZ-ABAD, Antonio - BERGLUND, Jennie - LARSBRINK, Johan - VILAPLANA, Francisco - OLSSON, Lisbeth. Mannanase hydrolysis of spruce galactoglucomannan focusing on the influence of acetylation on enzymatic mannan degradation. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
3. [1.1] EICHINGER, T. - RAHKILA, J. - WILLFOER, S. - XU, C. TEMPO-oxidized O-acetyl galactoglucomannan oligomers: isolation and comprehensive structural elucidation. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2019, vol. 53, no. 1, pp. 71-85., Registrované v: WOS
4. [1.1] CHEN, Jing - ROBB, Craig S. - UNFRIED, Frank - KAPPELMANN, Lennart - MARKERT, Stephanie - SONG, Tao - HARDER, Jens - AVCI, Burak - BECHER, Doerte - XIE, Ping - AMANN, Rudolf I. - HEHEMANN, Jan-Hendrik - SCHWEDER, Thomas - TEELING, Hanno. Alpha- and beta-mannan utilization by marine Bacteroidetes. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2018, vol. 20, no. 11, pp. 4127-4140., Registrované v: WOS
5. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované

v: WOS

6. [1.1] LASSFOLK, Robert - RAHKILA, Jani - JOHANSSON, Mikael P. - EKHOLM, Filip S. - WARNA, Johan - LEINO, Reko. Acetyl Group Migration across the Saccharide Units in Oligomannoside Model Compound. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 4, pp. 1646-1654., Registrované v: WOS

7. [1.1] LEE, Jung-Bum - TANIKAWA, Tatsuya - HAYASHI, Kyoko - ASAGI, Mariko - KASAHARA, Yoshimasa - HAYASHIA, Toshimitsu. Characterization and biological effects of two polysaccharides isolated from Acanthopanax sciadophylloides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 159-166., Registrované v: WOS

8. [1.1] LIU, Hua-Min - WANG, Fei-Yun - LIU, Yu-Lan. Hot-compressed water extraction of polysaccharides from soy hulls. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 202, no., pp. 104-109., Registrované v: WOS

9. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Structural studies of water-extractable pectic polysaccharides and arabinogalactan proteins from Picea abies greenery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 207-217., Registrované v: WOS

10. [1.1] PATTATHIL, Sivakumar - HAHN, Michael G. - DALE, Bruce E. - CHUNDAWAT, Shishir P. S. Insights into plant cell wall structure, architecture, and integrity using glycome profiling of native and AFEX (TM)-pre-treated biomass. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 14, pp. 4279-4294., Registrované v: WOS

11. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GOMEZ, Leonardo D. - MIEDES, Eva - BANASIAK, Alicja - RATKE, Christine - GAERTNER, Cyril - MOUILLE, Gregory - MCQUEEN-MASON, Simon J. - MOLINA, Antonio - SELLSTEDT, Anita - TENKANEN, Maija - MELLEROWICZ, Ewa J. Expression of fungal acetyl xylan esterase in Arabidopsis thaliana improves saccharification of stem lignocellulose. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2016, vol. 14, no. 1, pp. 387-397., Registrované v: WOS

12. [1.1] PRANOVICH, Andrey - HOLMBOM, Bjarne - WILLFOR, Stefan. TWO-STAGE HOT-WATER EXTRACTION OF GALACTOGLUCOMANNANS FROM SPRUCE WOOD. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2016, vol. 36, no. 2, pp. 140-156., Registrované v: WOS

13. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - DI FALCO, Marcos - ZHOU, Miaomiao - AGUILAR-PONTES, Maria Victoria - SIETIO, Outi-Maaria - TSANG, Adrian - DE VRIES, Ronald P. - MAKELA, Miia R. The molecular response of the white-rot fungus Dichomitus squalens to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., Registrované v: WOS

14. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (Picea abies). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS

15. [1.1] WANG, Shurong - RU, Bin - LIN, Haizhou - SUN, Wuxing. Pyrolysis behaviors of four O-acetyl-preserved hemicelluloses isolated from hardwoods and softwoods. In FUEL. ISSN 0016-2361, 2015, vol. 150, no., pp. 243-251., Registrované v: WOS
16. [1.1] ZHONG, Ruiqin - CUI, Dongtao - YE, Zheng-Hua. Evolutionary origin of O-acetyltransferases responsible for glucomannan acetylation in land plants. In NEW PHYTOLOGIST. ISSN 0028-646X, 2019, vol. 224, no. 1, pp. 466-479., Registrované v: WOS
17. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In ENERGY TECHNOLOGY. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
18. [1.2] SUDHAKAR, K. - REDDY, N. Naryana - RAO, K. Madhusudhana - MOLOI, S. J. - REDDY, A. Babul - SADIKU, E. Rotimi. Polyethylene/Hemicellulose-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 167-200., Registrované v: SCOPUS

ADCA221 CAPEK, Peter. An arabinogalactan containing 3-O-methyl-D-galactose residues isolated from the aerial parts of *Salvia officinalis* L. In *Carbohydrate Research*, 2008, vol.343, p. 1390-1393. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2008.03.026>

Ohlasy:

1. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and characterization of pectins from primary cell walls of edible acai (*Euterpe oleracea*) berries, fruits of a monocotyledon palm. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v: WOS
2. [1.1] LEIVAS, Carolina Lopes - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Pectic type II arabinogalactans from starfruit (*Averrhoa carambola* L.). In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 199, no., pp. 252-257., Registrované v: WOS
3. [1.1] LEIVAS, Carolina L. - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. STRUCTURAL CHARACTERIZATION OF A TYPE II ARABINO GALACTAN FROM STARFRUIT (*Averrhoa carambola* L.). In PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2015, vol., no., pp. 134-138., Registrované v: WOS
4. [1.1] O'ROURKE, Christina - GREGSON, Timothy - MURRAY, Lorna - SADLER, Ian H. - FRY, Stephen C. Sugar composition of the pectic polysaccharides of charophytes, the closest algal relatives of land-plants: presence of 3-O-methyl-D-galactose residues. In ANNALS OF BOTANY. ISSN 0305-7364, 2015, vol. 116, no. 2, pp. 225-236., Registrované v: WOS
5. [1.1] PFEIFER, Lukas - CLASSEN, Birgit. Validation of a Rapid GC-MS Procedure for Quantitative Distinction between 3-O-Methyl- and 4-O-Methyl-Hexoses and Its Application to a Complex Carbohydrate Sample. In SEPARATIONS, 2020, vol. 7, no. 3, pp. Dostupné na: <https://doi.org/10.3390/separations7030042>., Registrované v: WOS

6. [1.1] YUAN, Yunfei - WANG, Yan-Bo - JIANG, Yueming - PRASAD, K. Nagendra - YANG, Jiali - QU, Hongxia - WANG, Ying - JIA, Yongxia - MO, Hui - YANG, Bao. Structure identification of a polysaccharide purified from *Lycium barbarum* fruit. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 82, no., pp. 696-701., Registrované v: WOS
7. [1.2] RAMAWAT, Kishan Gopal - MÉRILLON, Jean Michel. Polysaccharides: Bioactivity and biotechnology. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1-2241., Registrované v: SCOPUS

ADCA222 CAPEK, Peter - MATULOVÁ, Mária. An arabino(glucurono)xylan isolated from immunomodulatory active hemicellulose fraction of *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2013, vol. 59, p. 396-401. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

Ohlasy:

1. [1.1] DO NASCIMENTO, Georgia Erdmann - BAGGIO, Cristiane H. - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Arabinoxylan from Mucilage of Tomatoes (*Solanum lycopersicum* L.): Structure and Antinociceptive Effect in Mouse Models. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2016, vol. 64, no. 6, pp. 1239-1244., Registrované v: WOS
2. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - NIU, Yuge - DAI, Bona - YU, Liangli (Lucy). A Novel Alkaline Hemicellulosic Heteroxylan Isolated from Alfalfa (*Medicago sativa* L.) Stem and Its Thermal and Anti-inflammatory Properties. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 11, pp. 2970-2978., Registrované v: WOS
3. [1.1] MUTHANA, Musleh M. - QU, Jingyao - XUE, Mengyang - KLYUCHNIK, Timofey - SIU, Alex - LI, Yanhong - ZHANG, Lei - YU, Hai - LI, Lei - WANG, Peng G. - CHEN, Xi. Improved one-pot multienzyme (OPME) systems for synthesizing UDP-uronic acids and glucuronides. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2015, vol. 51, no. 22, pp. 4595-4598., Registrované v: WOS
4. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa* Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS
5. [1.1] SHEWRY, Peter R. - HEY, Sandra J. The contribution of wheat to human diet and health. In *FOOD AND ENERGY SECURITY*. ISSN 2048-3694, 2015, vol. 4, no. 3, pp. 178-202., Registrované v: WOS
6. [1.1] SCHNEIDER, Vanessa Suzane - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. beta-L-Araf-containing arabinan and glucuronoxylan from guavira fruit pomace. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 481, no., pp. 16-22., Registrované v: WOS
7. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of

arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS

- ADCA223 CAPEK, Peter - PAULOVÍČOVÁ, Ema - MATULOVÁ, Mária - MISLOVÍČOVÁ, Danica - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Coffea arabica instant coffee- Chemical view and immunomodulating properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 103, p. 418-426. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.12.068>
- Ohlasy:
1. [1.1] AL REEF, Tatiana - GHANEM, Esther. Caffeine: Well-known as psychotropic substance, but little as immunomodulator. In IMMUNOBIOLOGY. ISSN 0171-2985, 2018, vol. 223, no. 12, pp. 818-825., Registrované v: WOS
 2. [1.1] DHAND, Vivek - SOUMYA, L. - BHARADWAJ, S. - CHAKRA, Shilpa - BHATT, Deepika - SREEDHAR, B. Green synthesis of silver nanoparticles using Coffea arabica seed extract and its antibacterial activity. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2016, vol. 58, no., pp. 36-43., Registrované v: WOS
 3. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - CEPEDA, Marcio R. - LOPES, Guido R. - TEIXEIRA-COELHO, Maria - MADUREIRA, Pedro - NUNES, Fernando M. - VILANOVA, Manuel - COIMBRA, Manuel A. Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 242, no., pp. 548-554., Registrované v: WOS
 4. [1.1] GASSCHT, Francois - DICATO, Mario - DIEDERICH, Marc. Coffee provides a natural multitarget pharmacopeia against the hallmarks of cancer. In GENES AND NUTRITION. ISSN 1555-8932, 2015, vol. 10, no. 6, pp., Registrované v: WOS
 5. [1.1] GOKCEN, Busra Basar - SANLIER, Nevin. Coffee consumption and disease correlations. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2019, vol. 59, no. 2, pp. 336-348., Registrované v: WOS
 6. [1.1] KARABUDAK, E. - AKSOYDAN, E. - AGAGUNDUZ, D. - ERGUL, M. TURKISH-COFFEE ENRICHED WITH ROSE: A PROMISING COMBINATION. In ITALIAN JOURNAL OF FOOD SCIENCE. ISSN 1120-1770, 2019, vol. 31, no. 2, pp. 311-322., Registrované v: WOS
 7. [1.1] LOPES, Guido R. - PASSOS, Claudia P. - RODRIGUES, Carla - TEIXEIRA, Jose A. - COIMBRA, Manuel A. Impact of microwave-assisted extraction on roasted coffee carbohydrates, caffeine, chlorogenic acids and coloured compounds. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 129, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108864>., Registrované v: WOS
 8. [1.1] VILLALON-LOPEZ, Nayelli - SERRANO-CONTRERAS, Jose I. - TELLEZ-MEDINA, Dario I. - GERARDO ZEPEDA, L. An H-1 NMR-based metabolomic approach to compare the chemical profiling of retail samples of

ground roasted and instant coffees. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 106, no., pp. 263-270., Registrované v: WOS

9. [1.2] SELVARAJ, R. - MAHESH KUMAR, N. - SIVARAMAN, D. Arabinogalactan protein – A potent immunostimulator. In International Journal of Pharmacognosy and Phytochemical Research, 2015-01-01, 7, 4, pp. 732-734., Registrované v: SCOPUS

10. [1.2] VITULANO, M. - GROTTAGLIE, L. L.E. - COZZOLINO, I. - GALLO, M. - NAVIGLIO, D. Use of the Naviglio extractor for instant coffee production. In Industrie Alimentari. ISSN 0019901X, 2015-01-01, 54, 558, pp. 12-16., Registrované v: SCOPUS

ADCA224 CAPEK, Peter - KUBAČKOVÁ, M. - ALFOLDI, Juraj - BILISICS, Ladislav - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela. Galactoglucomannan from the secondary cell wall of *Picea abies* L. Karst. In *Carbohydrate Research*, 2000, vol. 329, p. 635-645. (1999: 1.252 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)00210-X](https://doi.org/10.1016/S0008-6215(00)00210-X)

Ohlasy:

1. [1.1] ANDO, Daisuke - NAKATSUBO, Fumiaki - YANO, Hiroyuki. Acetylation of Ground Pulp: Monitoring Acetylation via HSQC-NMR Spectroscopy. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 2, pp. 1755-1762., Registrované v: WOS
2. [1.1] DOMINGUES, Mariane Noronha - MOREIRA SOUZA, Flavio Henrique - VIEIRA, Plinio Salmazo - BUENO DE MORAIS, Mariana Abrahao - ZANPHORLIN, Leticia Maria - DOS SANTOS, Camila Ramos - SIQUEIRA PIROLLA, Renan Augusto - HONORATO, Rodrigo Vargas - LOPES DE OLIVEIRA, Paulo Sergio - GOZZO, Fabio Cesar - MURAKAMI, Mario Tyago. Structural basis of exo--mannanase activity in the GH2 family. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 35, pp. 13636-13649., Registrované v: WOS
3. [1.1] FRANCILLON, Juliette - CHIRAT, Christine - BOISSET, Claire - BUON, Laurine. Multi-step purification method of water-soluble oligosaccharides produced from hardwood and softwood. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 6, pp. 615-623. Dostupné na: <https://doi.org/10.1515/hf-2019-0273>., Registrované v: WOS
4. [1.1] FROMMHAGEN, Matthias - SFORZA, Stefano - WESTPHAL, Adrie H. - VISSER, Jaap - HINZ, Sandra W. A. - KOETSIER, Martijn J. - VAN BERKEL, Willem J. H. - GRUPPEN, Harry - KABEL, Mirjam A. Discovery of the combined oxidative cleavage of plant xylan and cellulose by a new fungal polysaccharide monooxygenase. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
5. [1.1] HE, Chunmei - WU, Kunlin - ZHANG, Jianxia - LIU, Xuncheng - ZENG, Songjun - YU, Zhenming - ZHANG, Xinghua - DA SILVA, Jaime A. Teixeira - DENG, Rufang - TAN, Jianwen - LUO, Jianping - DUAN, Jun. Cytochemical Localization of Polysaccharides in *Dendrobium officinale* and the Involvement of DoCSLA6 in the Synthesis of Mannan Polysaccharides. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
6. [1.1] CHADNI, Morad - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - BROSSE, Nicolas - GRIMI, Nabil. Microwave-assisted extraction of

high-molecular-weight hemicelluloses from spruce wood. In *COMPTEs Rendus Chimie*. ISSN 1631-0748, 2019, vol. 22, no. 8, pp. 574-584.,
Registrované v: WOS

7. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - BROSSE, Nicolas. Steam explosion process for the selective extraction of hemicelluloses polymers from spruce sawdust. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2019, vol. 141, no., pp., Registrované v: WOS

8. [1.1] CHADNI, Morad - GRIMI, Nabil - ZIEGLER-DEVIN, Isabelle - BROSSE, Nicolas - BALS, Olivier. High voltage electric discharges treatment for high molecular weight hemicelluloses extraction from spruce. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 222, no., pp., Registrované v: WOS

9. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - DESOBRY, Stephane - BROSSE, Nicolas. Elaboration of hemicellulose-based films: Impact of the extraction process from spruce wood on the film properties. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108111>., Registrované v: WOS

10. [1.1] CHEN, Peilin - LIN, Yan - CHEN, Yueyu - CHANG, Qing - ZHENG, Baodong - ZHANG, Yi - HU, Xiaoke - ZENG, Hongliang. Structural characterization of a novel mannogalactoglucan from *Fortunella margarita* and its simulated digestion in vitro. In *FOOD AND CHEMICAL TOXICOLOGY*. ISSN 0278-6915, 2019, vol. 133, no., pp., Registrované v: WOS

11. [1.1] ISHII, Jun - OKAZAKI, Fumiyoshi - DJOHAN, Apridah Cameliawati - HARA, Kiyotaka Y. - ASAI-NAKASHIMA, Nanami - TERAMURA, Hiroshi - ANDRIANI, Ade - TOMINAGA, Masahiro - WAKAI, Satoshi - KAHAR, Prihardi - YOPI - PRASETYA, Bambang - OGINO, Chiaki - KONDO, Akihiko. From mannan to bioethanol: cell surface co-display of beta-mannanase and beta-mannosidase on yeast *Saccharomyces cerevisiae*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

12. [1.1] KROGELL, Jens - ERANEN, Kari - PRANOVICH, Andrey - WILLFOR, Stefan. In-line high-temperature pH control during hot-water extraction of wood. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 67, no., pp. 114-120., Registrované v: WOS

13. [1.1] KROGELL, Jens - ERANEN, Kari - PRANOVICH, Andrey - WILIFOR, Stefan. Utilizing active pH control for enhanced hot-water extraction of wood. In *NORDIC PULP & PAPER RESEARCH JOURNAL*. ISSN 0283-2631, 2016, vol. 31, no. 1, pp. 4-13., Registrované v: WOS

14. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS

15. [1.1] RAJANI, J. - DASTAR, B. - SAMADI, F. - TORSHIZI, M. A. Karimi - ABDULKHANI, A. - ESFANDYARPOUR, S. Effect of extracted galactoglucomannan oligosaccharides from pine wood (*Pinus brutia*) on *Salmonella typhimurium* colonisation, growth performance and intestinal morphology in broiler chicks. In *BRITISH POULTRY SCIENCE*. ISSN 0007-1668, 2016, vol. 57, no. 5, pp. 682-692., Registrované v: WOS

16. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - DI FALCO, Marcos - ZHOU, Miaomiao - AGUILAR-PONTES, Maria Victoria - SIETIO, Outi-Maaria - TSANG, Adrian - DE VRIES, Ronald P. - MAKELA, Miia R. The molecular response of the white-rot fungus *Dichomitus squalens* to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., Registrované v: WOS
17. [1.1] TENG, Po-Yun - KIM, Woo Kyun. Review: Roles of Prebiotics in Intestinal Ecosystem of Broilers. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2018, vol. 5, no., pp., Registrované v: WOS
18. [1.1] YAMABHAI, Montarop - SAK-UBOL, Suttipong - SRILA, Witsanu - HALTRICH, Dietmar. Mannan biotechnology: from biofuels to health. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 1, pp. 32-42., Registrované v: WOS
19. [1.1] YOPI - RAHMANI, Nanik - AMANAH, Siti - SANTOSO, Pugoh - LISDIYANTI, Puspita. The production of beta-mannanase from *Kitasatospora* sp. strain using submerged fermentation: Purification, characterization and its potential in mannoooligosaccharides production. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 24, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101532>., Registrované v: WOS
20. [1.1] YU, Li - XU, Shuqin - DENG, Chao - LI, Hui - YANG, Qingsheng - XU, Zhenghong - CHEN, Jinghua. Preparation and partial structural characterization of the exopolysaccharide from *Bacillus mucilaginosus* SM-01. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 217-223., Registrované v: WOS
21. [1.1] ZHANG, Yujia - LI, Jiebing - LINDSTROM, Mikael E. - MISCHNICK, Petra. Relative reactivities in the O-methylation of glucomannans: the influence of stereochemistry at C-2 and the solvent effect. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 402, no., pp. 172-179., Registrované v: WOS
22. [1.1] ZHONG, Ruiqin - CUI, Dongtao - YE, Zheng-Hua. Evolutionary origin of O-acetyltransferases responsible for glucomannan acetylation in land plants. In NEW PHYTOLOGIST. ISSN 0028-646X, 2019, vol. 224, no. 1, pp. 466-479., Registrované v: WOS
23. [1.1] ZHONG, Ruiqin - CUI, Dongtao - YE, Zheng-Hua. Secondary cell wall biosynthesis. In NEW PHYTOLOGIST. ISSN 0028-646X, 2019, vol. 221, no. 4, pp. 1703-1723., Registrované v: WOS
24. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In ENERGY TECHNOLOGY. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
25. [1.2] DA CRUZ, Andrezza Furquim. Mannan-degrading enzyme system. In Fungal Enzymes, 2016-04-19, pp. 233-257., Registrované v: SCOPUS
26. [2.1] BARBIERI, Shayla Fernanda - RUTHES, Andrea Caroline - DE OLIVEIRA PETKOWICZ, Carmen Lucia - BUENO DE GODOY, Rossana Catie - SASSAKI, Guilherme Lanzi - SANTANA FILHO, Arquimedes Paixao - MEIRA SILVEIRA, Joana Lea. Extraction, purification and structural characterization of a galactoglucomannan from the gabioba fruit (*Campomanesia xanthocarpa* Berg), Myrtaceae family. In CARBOHYDRATE

ADCA225 CAPEK, Peter - HRIBALOVA, V. - ŠVANDOVÁ, E. - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - MASÁROVÁ, Jana. Characterization of immunomodulatory polysaccharides from *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2003, vol.33, p.113-119. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(03\)00075-8](https://doi.org/10.1016/S0141-8130(03)00075-8)

Ohlasy:

1. [1.1] BESERRA, Fernando Pereira - ROZZA, Ariane Leite - VIEIRA, Ana Julia - SERGIO GUSHIKEN, Lucas Fernando - PELLIZZON, Claudia Helena. Antiulcerogenic Compounds Isolated From Medicinal Plants. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 47: BIOACTIVE NATURAL PRODUCTS*. ISSN 1572-5995, 2016, vol. 47, no., pp. 215-234., Registrované v: WOS
2. [1.1] BEZERRA, Iglesias de Lacerda - CORDEIRO CAILLOT, Adriana Rute - GUSMAO FERREIRA PALHARES, Lais Cristina - SANTANA-FILHO, Arquimedes Paixao - CHAVANTE, Suely Ferreira - SASSAKI, Guilherme Lanzi. Structural characterization of polysaccharides from Cabernet Franc, Cabernet Sauvignon and Sauvignon Blanc wines: Anti-inflammatory activity in LPS stimulated RAW 264.7 cells. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 186, no., pp. 91-99., Registrované v: WOS
3. [1.1] GERICKE, Sebastian - LUEBKEN, Tilo - WOLF, Diana - KAISER, Martin - HANNIG, Christian - SPEER, Karl. Identification of New Compounds from Sage Flowers (*Salvia officinalis* L.) as Markers for Quality Control and the Influence of the Manufacturing Technology on the Chemical Composition and Antibacterial Activity of Sage Flower Extracts. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1843-1853., Registrované v: WOS
4. [1.1] GHORBANI, Ahmad. Sage. In *LEAFY MEDICINAL HERBS: BOTANY, CHEMISTRY, POSTHARVEST TECHNOLOGY AND USES*, 2016, vol., no., pp. 224-236., Registrované v: WOS
5. [1.1] HODAJ-CELIKU, Entela - TSIFTSOGLOU, Olga - SHUKA, Lulezim - ABAZI, Sokol - HADJIPAVLOU-LITINA, Dimitra - LAZARI, Diamanto. Antioxidant Activity and Chemical Composition of Essential Oils of some Aromatic and Medicinal Plants from Albania. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2017, vol. 12, no. 5, pp. 785-790., Registrované v: WOS
6. [1.1] LOSSO, Jack N. Multiple Sclerosis. In *MAILLARD REACTION RECONSIDERED: COOKING AND EATING FOR HEALTH*, 2016, vol., no., pp. 207-221., Registrované v: WOS
7. [1.1] OLIVEIRA, Renata Nunes - MANCINI, Mauricio Cordeiro - SALLES DE OLIVEIRA, Fernando Cabral - PASSOS, Thayse Marques - QUILTY, Brid - DA SILVA MOREIRA THIRE, Rossana Mara - MCGUINNESS, Garrett Brian. FTIR analysis and quantification of phenols and flavonoids of five commercially available plants extracts used in wound healing. In *MATERIA-RIO DE JANEIRO*. ISSN 1517-7076, 2016, vol. 21, no. 3, pp. 767-779., Registrované v: WOS
8. [1.1] TANG, Wei - LIU, Dan - YIN, Jun-Yi - NIE, Shao-Ping.

Consecutive and progressive purification of food-derived natural polysaccharide: Based on material, extraction process and crude polysaccharide. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 99, no., pp. 76-87. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.02.015>., Registrované v: WOS

9. [1.1] ZHANG, Tao - SHUAI, Ming - MA, Pengcheng - HUANG, Jian - SUN, Chengxin - YAO, Xiaodong - CHEN, Zehui - MIN, Xun - YAN, Shengkai. Purification, chemical analysis and antioxidative activity of polysaccharides from pH-modified citrus pectin after dialyzation. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 128, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109513>., Registrované v: WOS

10. [1.2] HODAJ-ÇELIKU, Entela - TSIFTSOGLU, Olga - SHUKA, Lulëzim - ABAZI, Sokol - HADIPAVLOU-LITINA, Dimitra - LAZARI, Diamanto. Antioxidant activity and volatiles constituents of wild and cultivated *Salvia officinalis* essential oils from Albania. In *Journal of Hygienic Engineering and Design*, 2017-01-01, 18, pp. 54-58., Registrované v: SCOPUS

11. [1.2] HODAJ-ÇELIKU, Entela - TSIFTSOGLU, Olga - SHUKA, Lulëzim - ABAZI, Sokol - HADJIPAVLOU-LITINA, Dimitra - LAZARI, Diamanto. Antioxidant Activity and Chemical Composition of Essential Oils of some Aromatic and Medicinal Plants from Albania. In *Natural Product Communications*. ISSN 1934578X, 2017-01-01, 12, 5, pp. 785-790., Registrované v: SCOPUS

12. [1.2] VAISHALI, M. - GEETHA, R. V. - PRADEEP KUMAR, R. In vitro study-anti inflammatory activity of sage oil. In *Research Journal of Pharmacy and Technology*. ISSN 09743618, 2018-01-01, 11, 1, pp. 253-254., Registrované v: SCOPUS

13. [1.2] VENKATALAKSHMI, P. - VADIVEL, V. - BRINDHA, P. Review on immunomodulatory role of plant drugs in indian traditional systems of medicine. In *International Journal of Pharmaceutical Sciences Review and Research*. ISSN 0976044X, 2016-01-01, 36, 2, pp. 163-183., Registrované v: SCOPUS

ADCA226 CAPEK, Peter - DRÁBIK, Milan - TURJAN, Jozef. Characterization of starch and its mono and hybrid derivatives by thermal analysis and FT-IR spectroscopy. In *Journal of Thermal Analysis and Calorimetry*, 2010, vol. 99, no. 2, p. 667-673. (2009: 1.587 - IF, Q3 - JCR, 0.529 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-009-0194-1>

Ohlasy:

1. [1.1] ABBASILIASI, Sahar - SHUN, Tan Joo - IBRAHIM, Tengku Azmi Tengku - ISMAIL, Nurdiana - ARIFF, Arbakariya B. - MOKHTAR, Nurfadhilah Khairil - MUSTAFA, Shuhaimi. Use of sodium alginate in the preparation of gelatin-based hard capsule shells and their evaluation in vitro. In *RSC ADVANCES*. ISSN 2046-2069, 2019, vol. 9, no. 28, pp. 16147-16157., Registrované v: WOS

2. [1.1] ABDULLAH, Umami Habibah - AHMAD, Ishak - HAMZAH, Ainon - ROSLI, Noor Afizah. Effectiveness of Starch/Cinnamon Oil Film as Food Packaging with Antimicrobial Properties. In *SAINS MALAYSIANA*. ISSN 0126-6039, 2020, vol. 49, no. 8, pp. 1935-1945. Dostupné na: <https://doi.org/10.17576/jsm-2020-4908-15>., Registrované v: WOS

3. [1.1] ANTOBELLI BASILIO-CORTES, Ulin - GONZALEZ-CRUZ, Leopoldo - VELAZQUEZ, Gonzalo - TENIENTE-MARTINEZ, Gerardo - ALBERTO GOMEZ-ALDAPA, Carlos - CASTRO-ROSAS, Javier - BERNARDINO-NICANOR, Aurea. Effect of Dual Modification on the Spectroscopic, Calorimetric, Viscosimetric and Morphological Characteristics of Corn Starch. In POLYMERS, 2019, vol. 11, no. 2, pp., Registrované v: WOS
4. [1.1] ARAUJO, Antonio - GALVAO, Andressa - SILVA FILHO, Carlos - MENDES, Francisco - OLIVEIRA, Marilia - BARBOSA, Francisco - SOUSA FILHO, Men - BASTOS, Maria. Okra mucilage and corn starch bio-based film to be applied in food. In POLYMER TESTING. ISSN 0142-9418, 2018, vol. 71, no., pp. 352-361., Registrované v: WOS
5. [1.1] BERNARDINO-NICANOR, Aurea - ACOSTA-GARCIA, Gerardo - GUEMES-VERA, Norma - LUIS MONTANEZ-SOTO, Jose - ANGELES VIVAR-VERA, Maria de los - GONZALEZ-CRUZ, Leopoldo. Fourier transform infrared and Raman spectroscopic study of the effect of the thermal treatment and extraction methods on the characteristics of ayocote bean starches. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 4, pp. 933-943., Registrované v: WOS
6. [1.1] BUJDAKOVA, H. - BUJDAKOVA, V. - MAJEKOVA-KOSCOVA, H. - GAALOVA, B. - BIZOVSKA, V. - BOHAC, P. - BUJDAK, J. Antimicrobial activity of organoclays based on quaternary alkylammonium and alkylphosphonium surfactants and montmorillonite. In APPLIED CLAY SCIENCE. ISSN 0169-1317, 2018, vol. 158, no., pp. 21-28., Registrované v: WOS
7. [1.1] CIZOVA, Alzbeta - CSOMOROVA, Katarina - RYCHLY, Jozef - BYSTRICKY, Slavomir. Stability of cationic and amphoteric derivatives of mannan from the yeast Candida albicans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 440-446., Registrované v: WOS
8. [1.1] CORREIA BENTO, Juliana Aparecida - FERREIRA, Karen Carvalho - MATOS DE OLIVEIRA, Ana Lazara - LIAO, Luciano Morais - CALIARI, Marcio - SOARES JUNIOR, Manoel Soares. Extraction, characterization and technological properties of white garland-lily starch. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 135, no., pp. 422-428., Registrované v: WOS
9. [1.1] GILFILLAN, William Neil - MOGHADDAM, Lalehvash - BARTLEY, John - DOHERTY, William O. S. Thermal extrusion of starch film with alcohol. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2016, vol. 170, no., pp. 92-99., Registrované v: WOS
10. [1.1] GITAU, Peninah W. - KUNYANGA, Catherine N. - ABONG, George O. - OJIEM, John O. - MUTHOMI, James W. Assessing Sensory Characteristics and Consumer Preference of Legume-Cereal-Root Based Porridges in Nandi County. In JOURNAL OF FOOD QUALITY. ISSN 0146-9428, 2019, vol., no., pp., Registrované v: WOS
11. [1.1] KACZMARSKA, Karolina - GRABOWSKA, Beata - GRABOWSKI, Grzegorz - BOBROWSKI, Artur - KURLETO-KOZIOL, Zaneta. Thermal decomposition of binder based on etherified starch to use in foundry industry. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2017, vol. 130, no. 1, pp. 285-290., Registrované v: WOS
12. [1.1] KACZMARSKA, Karolina - GRABOWSKA, Beata -

- SPYCHAJ, Tadeusz - ZDANOWICZ, Magdalena - SITARZ, Maciej - BOBROWSKI, Artur - CUKROWICZ, Sylwia. Effect of microwave treatment on structure of binders based on sodium carboxymethyl starch: FT-IR, FT-Raman and XRD investigations. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2018, vol. 199, no., pp. 387-393., Registrované v: WOS
13. [1.1] KACZMARSKA, K. - ZYMANKOWSKA-KUMON, S. - GRABOWSKA, B. - BOBROWSKI, A. - CUKROWICZ, S. Study of Thermal Degradation of Starch-Based Binder by TG-DTG-DSC, Py-GC/MS and DRIFTS. In ARCHIVES OF FOUNDRY ENGINEERING. ISSN 1897-3310, 2019, vol. 19, no. 4, pp. 21-26., Registrované v: WOS
14. [1.1] KARKKAINEN, Johanna - WIK, Tiia-Riikka - NIEMELA, Matti - LAPPALAINEN, Katja - JOENSUU, Paivi - LAJUNEN, Marja. H-1 NMR-based DS determination of barley starch sulfates prepared in 1-allyl-3-methylimidazolium chloride. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 721-727., Registrované v: WOS
15. [1.1] KORVA, Hanne - KARKKAINEN, Johanna - LAPPALAINEN, Katja - LAJUNEN, Marja. Spectroscopic study of natural and synthetic polysaccharide sulfate structures. In STARCH-STARKE. ISSN 0038-9056, 2016, vol. 68, no. 9-10, pp. 854-863., Registrované v: WOS
16. [1.1] PUNIA, Rakesh - SHARMA, Madan Mohan - KALITA, Dipankar - MUKHRJEE, Jagriti - NAYAK, Tarkeshwar - SINGH, Harinder. Physicochemical, morphological, thermal and pasting characteristics of starches from moth bean (*Vigna aconitifolia*) cultivars grown in India: an underutilized crop. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 13, pp. 4484-4492., Registrované v: WOS
17. [1.1] QUEIROZ, Vanessa M. - KLING, Isabelle C. S. - ELTOM, Amal E. - ARCHANJO, Bráulio S. - PRADO, Maira - SIMAO, Renata Antoun. Corn starch films as a long-term drug delivery system for chlorhexidine gluconate. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 112, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.110852>., Registrované v: WOS
18. [1.1] REQUE, Priscilla Magro - PINILLA, Cristian Mauricio Barreto - TINELLO, Federica - CORICH, Viviana - LANTE, Anna - GIACOMINI, Alessio - BRANDELLI, Adriano. Biochemical and functional properties of wheat middlings bioprocessed by lactic acid bacteria. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 7, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13262>., Registrované v: WOS
19. [1.1] TANG HONGTAO - TANG HONGBO - LI YANPING. Synthesis, Optimization, Characterization and Property of Oxidized Hydroxypropyl Mung Bean Starch. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 1, pp., Registrované v: WOS
20. [1.1] ZENG, Kui - GROTH, Thomas - ZHANG, Kai. Recent Advances in Artificially Sulfated Polysaccharides for Applications in Cell Growth and Differentiation, Drug Delivery, and Tissue Engineering. In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 6, pp. 737-746., Registrované v: WOS

ADCA227 CAPEK, Peter - ŠUTOVSKÁ, Martina - KOČMÁLOVÁ, Michaela - FRÁNOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Chemical and pharmacological profiles of Echinacea complex. In *International Journal of Biological Macromolecules*, 2015, vol. 79, p. 388-391. (2014: 2.858 - IF, Q2 - JCR, 0.864 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2015.05.010>

Ohlasy:

1. [1.1] HOU, Ranran - XU, Tianli - LI, Qiu - YANG, Fengfang - WANG, Chunyuan - HUANG, Tingting - HAO, Zhihui. Polysaccharide from Echinacea purpurea reduce the oxidant stress in vitro and in vivo. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 149, no., pp. 41-50. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.129>, Registrované v: WOS
2. [1.1] LANS, Cheryl. Do recent research studies validate the medicinal plants used in British Columbia, Canada for pet diseases and wild animals taken into temporary care? In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2019, vol. 236, no., pp. 366-392., Registrované v: WOS
3. [1.1] YANG, Guang - LI, Keke - LIU, Cui - PENG, Peipei - BAI, Mei - SUN, Jiaqi - LI, Qingling - YANG, Zhuohong - YANG, Yuesheng - WU, Hong. A Comparison of the Immunostimulatory Effects of Polysaccharides from Tetraploid and Diploid Echinacea purpurea. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2018, vol., no., pp., Registrované v: WOS
4. [1.2] AHMAD, Khalid Masood - ZAFAR, Zafarullah - MIRZA, Javed Iqbal. Effect of plant growth regulators on shoot organogenesis and somatic embryogenesis of Echinacea purpurea L. In *Pakistan Journal of Life and Social Sciences*. ISSN 17274915, 2017-01-01, 15, 2, pp. 107-113., Registrované v: SCOPUS

ADCA228 CAPEK, Peter** - MATULOVÁ, Mária - ŠUTOVSKÁ, Martina - BARBORÍKOVÁ, Jana - MOLITORISOVÁ, Miroslava - KAZIMIEROVÁ, Ivana. Chlorella vulgaris α -L-arabino- α -L-rhamno- α,β -D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. In *International Journal of Biological Macromolecules*, 2020, vol. 162, p. 188-198. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.151>

Ohlasy:

1. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. Isolation, structures and biological activities of polysaccharides from Chlorella: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>, Registrované v: WOS

ADCA229 CAPEK, Peter - HLAVOŇOVÁ, E. - MATULOVÁ, Mária - MISLOVIČOVÁ, Danica - RUŽIČKA, J. - KOUTNÝ, M. - KEPRDOVÁ, L. Isolation and characterization of an extracellular glucan produced by *Leuconostoc garlicum* PR. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 83, p. 88-93. (2010: 3.463 - IF,

Q1 - JCR, 1.370 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] AMARETTI, Alberto - BOTTARI, Benedetta - MORREALE, Federico - SARDARO, Maria Luisa Savo - ANGELINO, Donato - RAIMONDI, Stefano - ROSSI, Maddalena - PELLEGRINI, Nicoletta. Potential prebiotic effect of a long-chain dextran produced by *Weissella cibaria*: an in vitro evaluation. In INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION. ISSN 0963-7486, 2020, vol. 71, no. 5, pp. 563-571. Dostupné na: <https://doi.org/10.1080/09637486.2019.1711026>., Registrované v: WOS
2. [1.1] BARUAH, Rwivoo - DEKA, Barsha - KASHYAP, Niharika - GOYAL, Arun. Dextran Utilization During Its Synthesis by *Weissella cibaria* RBA12 Can Be Overcome by Fed-Batch Fermentation in a Bioreactor. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 1-11., Registrované v: WOS
3. [1.1] BARUAH, Rwivoo - GOYAL, Arun. Exopolysaccharides from Genus *Weissella* and their Functional Applications. In MICROBIAL EXOPOLYSACCHARIDES: CURRENT RESEARCH AND DEVELOPMENTS, 2019, vol., no., pp. 165-182. Dostupné na: <https://doi.org/10.21775/9781912530267.07>., Registrované v: WOS
4. [1.1] BARUAH, Rwivoo - MAINA, Ndegwa H. - KATINA, Kati - JUVONEN, Riikka - GOYAL, Arun. Functional food applications of dextran from *Weissella cibaria* RBA12 from pummelo (*Citrus maxima*). In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 242, no., pp. 124-131., Registrované v: WOS
5. [1.1] HASHEM, Amal M. - GAMAL, Amira A. - MANSOUR, Nahla M. - SALAMA, Bassem M. - HASSANEIN, Naziha M. - AWAD, Ghada E. A. - ESAWY, Mona A. Optimization of *Enterococcus faecalis* Esawy KR758759 dextranase and evaluation of some dextran bioactivities. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2018, vol. 15, no., pp. 348-358., Registrované v: WOS
6. [1.1] HONG, Sang Pil - SHIN, Seung Chul - KANG, Woo-Kyung - CHIN, Young-Wools - TURNER, Timothy L. - CHOI, Hyun Wools - SONG, Kyung Mo - KIM, Hyo Jin. Complete genome sequence of *Leuconostoc garlicum* KCCM 43211 producing exopolysaccharide. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 246, no., pp. 40-44., Registrované v: WOS
7. [1.1] JAYAMANO HAR, Jabastin - DEVI, Palanisamy Bruntha - KAVITAKE, Digambar - RAJENDRAN, Suresh - PRIYADARISINI, Venkatesan Brindha - SHETTY, Prathap Kumar Halady. Characterization of alpha-D-glucan produced by a probiont *Enterococcus hirae* KX577639 from feces of south Indian Irula tribals. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 1667-1675., Registrované v: WOS
8. [1.1] KAVITAKE, Digambar - DEVI, Palanisamy Bruntha - SINGH, Sanjay Pratap - SHETTY, Prathap Kumar Halady. Characterization of a novel galactan produced by *Weissella confusa* KR780676 from an acidic fermented food. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 86, no., pp. 681-689., Registrované v: WOS

9. [1.1] LI, Yang - LIU, Yiming - CAO, Chengxu - ZHU, XinYuan - WANG, Cong - WU, Rina - WU, Junrui. Extraction and biological activity of exopolysaccharide produced by *Leuconostoc mesenteroides* SN-8. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 36-44. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.150>., Registrované v: WOS
10. [1.1] PRAKASHA, Avinash - GRICE, I. Darren - KUMAR, K. S. Vinay - SADASHIVA, M. P. - SHANKAR, H. N. - UMESHA, S. Extracellular polysaccharide from *Ralstonia solanacearum*; A strong inducer of eggplant defense against bacterial wilt. In BIOLOGICAL CONTROL. ISSN 1049-9644, 2017, vol. 110, no., pp. 107-116., Registrované v: WOS
11. [1.1] SARAVANAN, Chinnashanmugam - SHETTY, Prathap Kumar H. Isolation and characterization of exopolysaccharide from *Leuconostoc lactis* KC117496 isolated from idli batter. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 90, no., pp. 100-106., Registrované v: WOS
12. [1.1] SARAVANAN, Chinnashanmugam - KAVITAKE, Digambar - KANDASAMY, Sujatha - DEVI, Palanisamy Bruntha - SHETTY, Prathap Kumar Halady. Production, partial characterization and antioxidant properties of exopolysaccharide-glucan produced by *Leuconostoc lactis* KC117496 isolated from an idli batter. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2019, vol. 56, no. 1, pp. 159-166., Registrované v: WOS
13. [1.1] YANG, Yanping - PENG, Qian - GUO, Yanyun - HAN, Ye - XIAO, Huazhi - ZHOU, Zhijiang. Isolation and characterization of dextran produced by *Leuconostoc citreum* NM105 from manchurian sauerkraut. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 365-372., Registrované v: WOS
14. [1.1] YAN, Minghui - WANG, Bing-hua - XU, Xiaofen - CHANG, Peng - HANG, Feng - WU, Zhengjun - YOU, Chunping - LIU, Zhenmin. Molecular and Functional Study of a Branching Sucrase-Like Glucansucrase Reveals an Evolutionary Intermediate between Two Subfamilies of the GH70 Enzymes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 9, pp., Registrované v: WOS

ADCA230 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Molecular heterogeneity of arabinogalactan-protein from *Coffea arabica* instant coffee. In *International Journal of Biological Macromolecules*, 2013, vol. 59, p. 402-407. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2013.04.077>

Ohlasy:

1. [1.1] RONG, A. - ZHANG, Meili - LU, Yu - ZHANG, Huijie - BAI, Xue. The structural studies of a polysaccharide purified from Oat Lao-Chao. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2020, vol. 55, no. 12, pp. 3563-3573. Dostupné na: <https://doi.org/10.1111/ijfs.14690>., Registrované v: WOS

ADCA231 CAPEK, Peter - ROSIK, J. - KARDOŠOVÁ, Alžbeta - JANECEK, F.
Polysaccharides from the roots of *Althaea officinalis* L. In *Collection of Czechoslovak chemical communications*, 1984, vol. 49, p. 2674-2679. ISSN 0010-0765.

Ohlasy:

1. [1.1] GHAVI, Peyman Pakrokh. The extraction process optimization of antioxidant polysaccharides from Marshmallow (*Althaea officinalis* L.) roots. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 75, no., pp. 51-57., Registrované v: WOS

ADCA232 CAPEK, Peter - TOMAN, Rudolf - KARDOŠOVÁ, Alžbeta - ROSIK, J.
Polysaccharides from the roots of the marsh mallow (*Althaea officinalis* L.): Structure of an arabinan. In *Carbohydrate Research*, 1983, vol. 117, p. 133-140. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(83\)88082-3](https://doi.org/10.1016/0008-6215(83)88082-3)

Ohlasy:

1. [1.1] DING, Huihuang H. - CUI, Steve W. - GOFF, H. Douglas - CHEN, Jie - WANG, Qi - HAN, Nam Fong. Arabinan-rich rhamnogalacturonan-I from flaxseed kernel cell wall. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 47, no., pp. 158-167., Registrované v: WOS
2. [1.1] GHAVI, Peyman Pakrokh. MODELING AND OPTIMIZATION OF ULTRASOUND-ASSISTED EXTRACTION OF POLYSACCHARIDE FROM THE ROOTS OF *ALTHAEA OFFICINALIS*. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2015, vol. 39, no. 6, pp. 2107-2118., Registrované v: WOS
3. [1.1] GIANG THANH THI HO - AHMED, Abeeda - ZOU, Yuan-Feng - ASLAKSEN, Torun - WANGENSTEEN, Helle - BARSETT, Hilde. Structure-activity relationship of immunomodulating pectins from elderberries. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 125, no., pp. 314-322., Registrované v: WOS
4. [1.1] GIANG THANH THI HO - ZOU, Yuan-Feng - WANGENSTEEN, Helle - BARSETT, Hilde. RG-I regions from elderflower pectins substituted on GalA are strong immunomodulators. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 92, no., pp. 731-738., Registrované v: WOS
5. [1.1] GIANG THANH THI HO - ZOU, Yuan-Feng - ASLAKSEN, Torun Helene - WANGENSTEEN, Helle - BARSETT, Hilde. Structural characterization of bioactive pectic polysaccharides from elderflowers (*Sambuci flos*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 135, no., pp. 128-137., Registrované v: WOS
6. [1.1] HAMMAN, Hannlie - STEENEKAMP, Jan - HAMMAN, Josias. Use of Natural Gums and Mucilages as Pharmaceutical Excipients. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2015, vol. 21, no. 33, pp. 4775-4797., Registrované v: WOS
7. [1.1] IMAIZUMI, Chiemi - TOMATSU, Harumi - KITAZAWA, Kiminari - YOSHIMI, Yoshihisa - SHIBANO, Seiji - KIKUCHI, Kaoru - YAMAGUCHI, Masatoshi - KANEKO, Satoshi - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. Heterologous expression and characterization of an *Arabidopsis* beta-L-arabinopyranosidase and alpha-D-galactosidases acting on beta-L-arabinopyranosyl residues. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2017, vol. 68, no. 16, pp. 4651-4661., Registrované

v: WOS

8. [1.1] KLOSTERHOFF, Rafael Roberto - BARK, Juliana Mueller - GLAENZEL, Nicolas Manzke - LACOMINI, Marcello - MARTINEZ, Glaucia Regina - WINNISCHOFER, Sheila M. B. - CORDEIRO, Lucimara M. C. Structure and intracellular antioxidant activity of pectic polysaccharide from acerola (*Malpighia emarginata*). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 106, no., pp. 473-480., Registrované v: WOS

9. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. Polysaccharides in Human Health Care. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS

10. [1.2] BERCU, R. - BAVARU, A. - POPOVICIU, Dan Răzvan. Contribution to the anatomy of some angiosperms flower parts with therapeutic value. In *Annals of the Romanian Society for Cell Biology*. ISSN 15836258, 2017-01-01, 21, 2, pp. 51-58., Registrované v: SCOPUS

ADCA233 CAPEK, Peter - MACHOVÁ, Eva - TURJAN, Jozef. Scavenging, antioxidant activities of immunomodulating polysaccharides isolated from *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2009, vol. 44, p. 75-80. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2008.10.007>

Ohlasy:

1. [1.1] ALIABADI, Bahareh Ghorbani - GILANI, Neda - PASIKHANI, Javad Vahabzade - PIRBAZARI, Azadeh Ebrahimian. Boosting the photoconversion efficiency of TiO₂ nanotubes using UV radiation-assisted anodization as a prospective method: An efficient photocatalyst for eliminating resistant organic pollutants. In *CERAMICS INTERNATIONAL*. ISSN 0272-8842, 2020, vol. 46, no. 12, pp. 19942-19951. Dostupné na: <https://doi.org/10.1016/j.ceramint.2020.05.061>., Registrované v: WOS

2. [1.1] DANANJAYA, S. H. S. - THAO, N. T. Thu - WIJERATHNA, H. M. S. M. - LEE, Jisoo - EDUSSURIYA, M. - CHOI, Dongrakk - KUMAR, R. Saravana. In vitro and in vivo anticandidal efficacy of green synthesized gold nanoparticles using *Spirulina maxima* polysaccharide. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 92, no., pp. 138-148. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.03.003>., Registrované v: WOS

3. [1.1] GUO, Yuanheng - CAO, Lili - ZHAO, Qingsheng - ZHANG, Lijun - CHEN, Jinjin - LIU, Boyan - ZHAO, Bing. Preliminary characterizations, antioxidant and hepatoprotective activity of polysaccharide from *Cistanche deserticola*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 93, no., pp. 678-685., Registrované v: WOS

4. [1.1] HAN, Miao-Miao - YI, Yang - WANG, Hong-Xun - HUANG, Fei. Investigation of the Maillard Reaction between Polysaccharides and Proteins from Longan Pulp and the Improvement in Activities. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 6, pp., Registrované v: WOS

5. [1.1] KUMAR, C. Senthil - SIVAKUMAR, M. - RUCKMANI, K. Microwave-assisted extraction of polysaccharides from *Cyphomandra betacea* and its biological activities. In *INTERNATIONAL JOURNAL OF*

BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 92, no., pp. 682-693., Registrované v: WOS

6. [1.1] KURD, Forouzan - SAMAVATI, Vahid. Water soluble polysaccharides from *Spirulina platensis*: Extraction and in vitro anti-cancer activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 74, no., pp. 498-506., Registrované v: WOS

7. [1.1] LIU, Min - JING, Huijuan - ZHANG, Jianjun - CHE, Gen - ZHOU, Meng - GAO, Zheng - LI, Shangshang - REN, Zhenzhen - HAO, Long - LIU, Yu - JIA, Le. Optimization of Mycelia Selenium Polysaccharide Extraction from *Agrocybe cylindracea* SL-02 and Assessment of their Antioxidant and Anti-Ageing Activities. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 8, pp., Registrované v: WOS

8. [1.1] LIU, Yong - QIANG, Mingliang - SUN, Zhongguan - DU, Yiqun. Optimization of ultrasonic extraction of polysaccharides from *Hovenia dulcis* peduncles and their antioxidant potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 80, no., pp. 350-357., Registrované v: WOS

9. [1.1] MA, Y-P - HU, J. - LUO, J-M - ZHAO, L. A NATURAL ANTIOXIDANTS OF FOOD PLANT CHRYSANTHEMUM NANKINGENSE, BASED ON ITS ANTIOXIDANT ACTIVITY WITH ACID POLYSACCHARIDES. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2019, vol. 17, no. 6, pp. 15029-15040., Registrované v: WOS

10. [1.1] PATEL, Manish Kumar - TANNA, Bhakti - MISHRA, Avinash - JHA, Bhavanath. Physicochemical characterization, antioxidant and anti-proliferative activities of a polysaccharide extracted from *psyllium* (*P. ovata*) leaves. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 976-987., Registrované v: WOS

11. [1.1] POULIOS, Efthymios - VASIOS, Georgios K. Current State of the Art on the Antioxidant Activity of Sage (*Salvia* spp.) and Its Bioactive Components. In PLANTA MEDICA. ISSN 0032-0943, 2020, vol. 86, no. 4, pp. 224-238. Dostupné na: <https://doi.org/10.1055/a-1087-8276>., Registrované v: WOS

12. [1.1] TANG, Zizhong - ZHOU, Caixia - CAI, Yi - TANG, Yujia - SUN, Wenjun - YAO, Huipeng - ZHENG, Tianrun - CHEN, Hui - XIAO, Yirong - SHAN, Zhi - BU, Tongliang - WANG, Xiaoli - HUANG, Lin - GOU, Lin. Purification, characterization and antioxidant activities in vitro of polysaccharides from *Amaranthus hybridus* L. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.7717/peerj.9077>., Registrované v: WOS

13. [1.1] WANG, Bingyue - CAI, Tiange - LIU, Qian - WHITNEY, John Cameron Cole - DU, Manling - MA, Qianqian - ZHANG, Ronghua - YANG, Li - COLE, Susan P. C. - CAI, Yu. Preparation and evaluation of spirulina polysaccharide nanoemulsions. In INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE. ISSN 1107-3756, 2018, vol. 42, no. 3, pp. 1273-1282., Registrované v: WOS

14. [1.1] WANG, Mingchun - ZHU, Peilei - ZHAO, Shiwei - NIE, Chenzhipeng - WANG, Naifu - DU, Xianfeng - ZHOU, Yibin. Characterization, antioxidant activity and immunomodulatory activity of polysaccharides from the

swollen culms of *Zizania latifolia*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 809-817., Registrované v: WOS

15. [1.1] WANG, Xin - SHAO, Chung - LIU, Lian - GUO, Xing - XU, Yuanmei - LU, Xin. Optimization, partial characterization and antioxidant activity of an exopolysaccharide from *Lactobacillus plantarum* KX041. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 1173-1184., Registrované v: WOS

16. [1.1] WU, Ding-Tao - LIU, Wen - HAN, Qiao-Hong - WANG, Ping - XIANG, Xian-Rong - DING, Ye - ZHAO, Li - ZHANG, Qing - LI, Su-Qing - QIN, Wen. Extraction Optimization, Structural Characterization, and Antioxidant Activities of Polysaccharides from Cassia Seed (*Cassia obtusifolia*). In MOLECULES, 2019, vol. 24, no. 15, pp., Registrované v: WOS

17. [1.1] XU, Nuo - GAO, Zheng - ZHANG, Jianjun - JING, Huijuan - LI, Shangshang - REN, Zhenzhen - WANG, Shouxian - JIA, Le.

Hepatoprotection of enzymatic-extractable mycelia zinc polysaccharides by *Pleurotus eryngii* var. *tuoliensis*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 196-206., Registrované v: WOS

18. [1.1] YANG, Haixia - DENG, Jianjun - YUAN, Yue - FAN, Daidi - ZHANG, Yan - ZHANG, Ruijuan - HAN, Bei. Two Novel Exopolysaccharides from *Bacillus amyloliquefaciens* C-1: Antioxidation and Effect on Oxidative Stress. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2015, vol. 70, no. 2, pp. 298-306., Registrované v: WOS

19. [1.1] YANG, Ying - JI, Jing - DI, Liuqing - LI, Junsong - HU, Lihong - QIAO, Hongzhi - WANG, Lingchong - FENG, Yibin. Resource, chemical structure and activity of natural polysaccharides against alcoholic liver damages. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116355>., Registrované v: WOS

20. [1.1] ZHANG, Hua - ZHAO, Haitian - YAO, Lei - YANG, Xin - SHEN, Siyan - WANG, Jing - WANG, Zhenyu - REGENSTEIN, Joe M. - GENG, Lin. Isolation, physicochemical properties, and in vitro antioxidant activity of polysaccharides extracted from different parts of *Pinus koraiensis*. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 225-240., Registrované v: WOS

21. [1.1] ZHANG, Jianjun - XU, Nuo - WANG, Guoyi - ZHAO, Huajie - LIN, Lin - JIA, Mengshi - JIA, Le. In Vitro and In Vivo Antioxidant Effects of Polysaccharides from Nameko Medicinal Mushroom, *Pholiota nameko* SW-01 (Higher Basidiomycetes). In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2015, vol. 17, no. 7, pp. 671-680., Registrované v: WOS

22. [1.1] ZHANG, Jixian - WEN, Chaoting - DUAN, Yuqing - ZHANG, Haihui - MA, Haile. Advance in *Cordyceps militaris* (Linn) Link polysaccharides: Isolation, structure, and bioactivities: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 132, no., pp. 906-914., Registrované v: WOS

23. [1.1] ZHAO, Yuqing - HU, Weichao - ZHANG, Huifang - DING, Chunbang - HUANG, Yan - LIAO, Jinqiu - ZHANG, Zhongwei - YUAN, Shu - CHEN, Yanger - YUAN, Ming. Antioxidant and immunomodulatory activities of polysaccharides from the rhizome of *Dryopteris crassirhizoma* Nakai. In

- ADCA234 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano -
SUGGI-LIVERANI, Furio. Structural features of an arabinogalactan-protein isolated
from instant coffee powder of Coffea arabica beans. In *Carbohydrate Polymers :
scientific and technological aspects of industrially important polysaccharides*, 2010,
vol. 80, p. 180-185. (2009: 3.167 - IF, 1.426 - SJR, Q1 - SJR, Current Contents -
CCC). (2010 - Current Contents). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2009.11.016>
Ohlasy:
1. [1.1] BANERJEE, Pallabi - MUKHERJEE, Shuvam - BERA,
Kaushik - GHOSH, Kanika - ALI, Imran - KHAWAS, Sadhana - RAY,
Bimalendu - RAY, Sayani. Polysaccharides from Thymus vulgaris leaf:
Structural features, antioxidant activity and interaction with bovine serum
albumin. In INTERNATIONAL JOURNAL OF BIOLOGICAL
MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 580-587.,
Registrované v: WOS
 2. [1.1] BANERJEE, Pallabi - JANA, Subrata - MUKHERJEE, Shuvam
- BERA, Kaushik - MAJEE, Sujay Kumar - ALI, Imran - PAL, Saikat - RAY,
Bimalendu - RAY, Sayani. The heteropolysaccharide of Mangifera indica fruit:
Isolation, chemical profile, complexation with beta-lactoglobulin and antioxidant
activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL
MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 93-99.
Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.161>., Registrované v:
WOS
 3. [1.1] BERA, Kaushik - RAY, Sayani - RAJA, Washim - RAY,
Bimalendu. Structural insight of an antioxidative arabinogalactan protein of
Aegle marmelos fruit gum and it's interaction with beta-lactoglobulin. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, 2017, vol. 99, no., pp. 300-307., Registrované v: WOS
 4. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello -
CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and
characterization of pectins from primary cell walls of edible acai (Euterpe
oleraceae) berries, fruits of a monocotyledon palm. In CARBOHYDRATE
POLYMERS. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v:
WOS
 5. [1.1] CARTMELL, Alan - MUNOZ-MUNOZ, Jose - BRIGGS,
Jonathon A. - NDEH, Didier A. - LOWE, Elisabeth C. - BASLE, Arnaud -
TERRAPON, Nicolas - STOTT, Katherine - HEUNIS, Tiaan - GRAY, Joe - YU,
Li - DUPREE, Paul - FERNANDES, Pearl Z. - SHAH, Sayali - WILLIAMS,
Spencer J. - LABOUREL, Aurore - TROST, Matthias - HENRISSAT, Bernard -
GILBERT, Harryj. A surface endogalactanase in Bacteroides thetaiotaomicron
confers keystone status for arabinogalactan degradation. In NATURE
MICROBIOLOGY. ISSN 2058-5276, 2018, vol. 3, no. 11, pp. 1314-1326.,
Registrované v: WOS
 6. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI,
Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR,
Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S.
Polysaccharide composition of an anticoagulant fraction from the aqueous extract

- of *Marsypianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
7. [1.1] FUJITA, Kiyotaka - SASAKI, Yuki - KITAHARA, Kanefumi. Degradation of plant arabinogalactan proteins by intestinal bacteria: characteristics and functions of the enzymes involved. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 18, pp. 7451-7457., Registrované v: WOS
8. [1.1] GHOSH, Kanika - NOSALOVA, Gabriela - RAY, Sayani - SIVOVA, Veronika - NOSAL, Slavomir - RAY, Bimalendu. Extracted polysaccharide from *Nyctanthes arbor-tristis* leaves: Chemical and antitussive properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 75, no., pp. 128-132., Registrované v: WOS
9. [1.1] GHOSH, Kanika - RAY, Sayani - BERA, Kaushik - RAY, Bimalendu. Isolation and structural elements of a water-soluble free radical scavenger from *Nyctanthes arbor-tristis* leaves. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2015, vol. 115, no., pp. 20-26., Registrované v: WOS
10. [1.1] GOKCEN, Busra Basar - SANLIER, Nevin. Coffee consumption and disease correlations. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2019, vol. 59, no. 2, pp. 336-348., Registrované v: WOS
11. [1.1] HAN, Kun - JIN, Can - CHEN, Huanjun - WANG, Peipei - YU, Mei - DING, Kan. Structural characterization and anti-A549 lung cancer cells bioactivity of a polysaccharide from *Houttuynia cordata*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 288-296., Registrované v: WOS
12. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana - ONDREJOVIC, Miroslav - CHMELOVA, Daniela. ISOLATION, COMPOSITION AND STRUCTURE OF POLYSACCHARIDES FROM *LARIXDECIDUA*. In *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*, 2016. ISSN 2336-6796, 2016, vol., no., pp. 142-147., Registrované v: WOS
13. [1.1] HUANG, Yating - LI, Naisheng - WAN, Jian-Bo - ZHANG, Dezhi - YAN, Chunyan. Structural characterization and antioxidant activity of a novel heteropolysaccharide from the submerged fermentation mycelia of *Ganoderma capense*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 134, no., pp. 752-760., Registrované v: WOS
14. [1.1] CHAVES, Pedro Felipe P. - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Chemical characterization of fructooligosaccharides, inulin and structurally diverse polysaccharides from chamomile tea. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 214, no., pp. 269-275., Registrované v: WOS
15. [1.1] JANA, Subrata - MUKHERJEE, Shuvam - ALI, Imran - RAY, Bimalendu - RAY, Sayani. Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with beta-lactoglobulin of a polysaccharide from *Borassus flabellifer* fruit. In *HELIYON*, 2020, vol. 6, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e05499>., Registrované v: WOS

16. [1.1] MALIK, N. - GOUSETI, O. - BAKALIS, S. Effect of freezing on microstructure and reconstitution of freeze-dried high solid hydrocolloid-based systems. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 83, no., pp. 473-484., Registrované v: WOS
17. [1.1] MOREIRA, Ana S. P. - SIMOES, Joana - PASSOS, Claudia P. - NUNES, Fernando M. - DOMINGUES, M. Rosario M. - COIMBRA, Manuel A. Melanoidins. In *COFFEE: PRODUCTION, QUALITY AND CHEMISTRY*, 2019, vol., no., pp. 662-678., Registrované v: WOS
18. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
19. [1.1] RAJA, Washim - BERA, Kaushik - RAY, Bimalendu. Polysaccharides from *Moringa oleifera* gum: structural elements, interaction with beta-lactoglobulin and antioxidative activity. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 79, pp. 75699-75706., Registrované v: WOS
20. [1.1] RODRIGUES, Jenifer Mota - RABELLO DUARTE, Maria Eugenia - NOSEDA, Miguel Daniel. Modified soybean meal polysaccharide with high adhesion capacity to *Salmonella*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 139, no., pp. 1074-1084., Registrované v: WOS
21. [1.1] SINGH, Baljit - KUMAR, Ajay. Radiation-induced graft copolymerization of N-vinyl imidazole onto moringa gum polysaccharide for making hydrogels for biomedical applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 1369-1378., Registrované v: WOS
22. [1.1] SINGH, Baljit - KUMAR, Ajay. Hydrogel formation by radiation induced crosslinked copolymerization of acrylamide onto moringa gum for use in drug delivery applications. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 200, no., pp. 262-270., Registrované v: WOS
23. [1.1] SINGH, Baljit - KUMAR, Ajay. Exploration of arabinogalactan of gum polysaccharide potential in hydrogel formation and controlled drug delivery applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 147, no., pp. 482-492. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.087>., Registrované v: WOS
24. [1.1] SINGH, Baljit - KUMAR, Ajay. Graft and crosslinked polymerization of polysaccharide gum to form hydrogel wound dressings for drug delivery applications. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 489, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107949>., Registrované v: WOS
25. [1.1] TAMIELLO, Camila Silva - ADAMI, Eliana Rezende - TURIN DE OLIVEIRA, Natalia Mulinari - ACCO, Alexandra - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Structural features of polysaccharides from edible jambo (*Syzygium jumbos*) fruits and antitumor activity of extracted pectins. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 1414-1421., Registrované v: WOS
26. [1.1] TAMIELLO, Camila Silva - DO NASCIMENTO, Georgia Erdmann - IACOMINI, Marcello - CORDEIRO, Lucimara M. C.

Arabinogalactan from edible jambo fruit induces different responses on cytokine secretion by THP-1 macrophages in the absence and presence of proinflammatory stimulus. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 35-41., Registrované v: WOS

27. [1.1] TANG, Yun - ZHU, Zhen-Yuan - PAN, Li-Chao - SUN, Huiqing - SONG, Qiao-Ying - ZHANG, Yongmin. Structure analysis and anti-fatigue activity of a polysaccharide from *Lepidium meyenii* Walp. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2019, vol. 33, no. 17, pp. 2480-2489., Registrované v: WOS

28. [1.1] WANG, Peipei - ZHANG, Lei - YAO, Jian - SHI, Yikang - LI, Ping - DING, Kan. An arabinogalactan from flowers of *Panax notoginseng* inhibits angiogenesis by BMP2/Smad/Id1 signaling. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 121, no., pp. 328-335., Registrované v: WOS

29. [1.1] YAO, Yanli - YAO, Jian - DU, Zhenyun - WANG, Peipei - DING, Kan. Structural elucidation and immune-enhancing activity of an arabinogalactan from flowers of *Carthamus tinctorius* L. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 202, no., pp. 134-142., Registrované v: WOS

30. [1.1] ZHANG, Hui - REN, Wei - GUO, Qingbing - XIONG, Zhiqiang - WANG, Guangqiang - XIA, Yongjun - LAI, Phoeny - YIN, Boxing - AI, Lianzhong. Characterization of a yogurt-quality improving exopolysaccharide from *Streptococcus thermophilus* AR333. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 81, no., pp. 220-228., Registrované v: WOS

31. [1.1] ZHANG, Shaojie - AN, Lijun - LI, Zhengguo - WANG, Honglin - SHI, Lijuan - ZHANG, Jie - LI, Yuhao - JIN, Da-Qing - TIERHONG, Muhetaer - OHIZUMI, Yasushi - SHUAI, Ling - XU, Jing - GUO, Yuanqiang. An active heteropolysaccharide from the rinds of *Garcinia mangostana* Linn.: Structural characterization and immunomodulation activity evaluation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115929>., Registrované v: WOS

32. [1.1] ZHANG, Shaojie - LI, Zhengguo - WANG, Xuelian - AN, Lijun - BAO, Jiahe - ZHANG, Jie - CUI, Jianlin - LI, Yuhao - JIN, Da-Qing - TIERHONG, Muhetaer - ABUDUKEREMU, Munira - OHIZUMI, Yasushi - XU, Jing - GUO, Yuanqiang. Isolation, structural elucidation, and immunoregulation properties of an arabinofuranan from the rinds of *Garcinia mangostana*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116567>., Registrované v: WOS

33. [1.1] ZHANG, Shihai - HE, Fei - CHEN, Xia - DING, Kan. Isolation and structural characterization of a pectin from *Lycium ruthenicum* Murr and its anti-pancreatic ductal adenocarcinoma cell activity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 223, no., pp., Registrované v: WOS

ADCA235 CAPEK, Peter - MATULOVÁ, Mária - COMBOURIEU, B. The extracellular proteoglycan produced by *Rhodella grisea*. In *International Journal of Biological Macromolecules*, 2008, vol.43, p. 390-393. (2007: 1.578 - IF, Q4 - JCR, 0.643 -

SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2008.07.015>

Ohlasy:

1. [1.1] DELATTRE, Cedric - PIERRE, Guillaume - LAROCHE, Celine - MICHAUD, Philippe. Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1159-1179., Registrované v: WOS
2. [1.1] GAINARD, Clement - MACAO, Vanessa - GARDARIN, Christine - RIHOUEY, Christophe - PICTON, Luc - MICHAUD, Philippe - LAROCHE, Celine. The red microalga *Flintiella sanguinaria* as a new exopolysaccharide producer. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 5, pp. 2803-2814., Registrované v: WOS
3. [1.1] GAINARD, C. - LAROCHE, C. - PIERRE, G. - DUBESSAY, P. - DELATTRE, C. - GARDARIN, C. - GOURVIL, P. - PROBERT, I - DUBUFFET, A. - MICHAUD, P. Screening of marine microalgae: Investigation of new exopolysaccharide producers. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 44, no., pp., Registrované v: WOS
4. [1.1] GANESAN, E. K. - WEST, John A. - NECCHI JR, Orlando. A catalogue and bibliography of non-marine (freshwater and estuarine Rhodophyta (red algae) of India. In PHYTOTAXA. ISSN 1179-3155, 2018, vol. 364, no. 1, pp. 1-48., Registrované v: WOS
5. [1.1] SOANEN, Nastasia - DA SILVA, Elise - GARDARIN, Christine - MICHAUD, Philippe - LAROCHE, Celine. Improvement of exopolysaccharide production by *Porphyridium marinum*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 213, no., pp. 231-238., Registrované v: WOS
6. [1.2] DVIR, Irit - STARK, Aliza H. - ARAD, Shoshana. A Foodomics Approach Reveals Hypocholesterolemic Activity of Red Microalgae. In Genomics, Proteomics and Metabolomics in Nutraceuticals and Functional Foods: Second Edition, 2015-10-05, pp. 31-39., Registrované v: SCOPUS

ADCA236 CAPEK, Peter - HRÍBALOVÁ, W. Water-soluble polysaccharides from *Salvia officinalis* L. possessing immunomodulatory activity. In *Phytochemistry*, 2004, vol. 65, p. 1983-1992. ISSN 0031-9422. Dostupné na: <https://doi.org/10.1016/j.phytochem.2004.05.020>

Ohlasy:

1. [1.1] CASTRO, Sherlynette Perez - CLELAND, Elsa E. - WAGNER, Robert - AL SAWAD, Risha - LIPSON, David A. Soil microbial responses to drought and exotic plants shift carbon metabolism. In ISME JOURNAL. ISSN 1751-7362, 2019, vol. 13, no. 7, pp. 1776-1787., Registrované v: WOS
2. [1.1] CVETKOVÍKJ, Ivana - STEFKOV, Gjoshe - ACEVSKA, Jelena - KARAPANDZOVA, Marija - DIMITROVSKA, Aneta - KULEVANOVA, Svetlana. Headspace screening: A novel approach for fast quality assessment of the essential oil from culinary sage. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 202, no., pp. 133-140., Registrované v: WOS
3. [1.1] FARHADI, M. - HEDAYATI, M. - MANAFI, M. - KHALAJI, S. Influence of Using Sage Powder (*Salvia officinalis*) on Performance, Blood Cells, Immunity Titers, Biochemical Parameters and Small Intestine Morphology

in Broiler Chickens. In IRANIAN JOURNAL OF APPLIED ANIMAL SCIENCE. ISSN 2251-628X, 2020, vol. 10, no. 3, pp. 509-516., Registrované v: WOS

4. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS

5. [1.1] GHORBANI, Ahmad. Sage. In LEAFY MEDICINAL HERBS: BOTANY, CHEMISTRY, POSTHARVEST TECHNOLOGY AND USES, 2016, vol., no., pp. 224-236., Registrované v: WOS

6. [1.1] JASH, Shyamal K. - GORAI, Dilip - ROY, Rajiv. SALVIA GENUS AND TRITERPENOID. In INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH. ISSN 0975-8232, 2016, vol. 7, no. 12, pp. 4710-4732., Registrované v: WOS

7. [1.1] KHARE, Ruchi - UPMANYU, Neeraj - SHUKLA, Tripti - JAIN, Vishal - JHA, Megha. Compendium of Salvia officinalis: An Overview. In CURRENT TRADITIONAL MEDICINE. ISSN 2215-0838, 2020, vol. 6, no. 4, pp. 300-311. Dostupné na:

<https://doi.org/10.2174/2215083805666190723095043>., Registrované v: WOS

8. [1.1] LI, Bo - ZHANG, Chenlu - PENG, Liang - LIANG, Zongsuo - YAN, Xijun - ZHU, Yonghong - LIU, Yan. Comparison of essential oil composition and phenolic acid content of selected Salvia species measured by GC-MS and HPLC methods. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 69, no., pp. 329-334., Registrované v: WOS

9. [1.1] LI, Lingnan - WEI, Shanshan - ZHU, Tianyu - XUE, Guimin - XU, Dingqiao - WANG, Wenli - WANG, Xiaobing - LUO, Jianguang - KONG, Lingyi. Anti-inflammatory norabietane diterpenoids from the leaves of Salvia officinalis L. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 54, no., pp. 154-163., Registrované v: WOS

10. [1.1] PAVLIC, Branimir - TESLIC, Nemanja - VIDAČKOVIC, Ana - VIDOVIĆ, Senka - VELICANSKI, Aleksandra - VERSARI, Andrea - RADOSAVLJEVIĆ, Robert - ZEKOVIC, Zoran. Sage processing from by-product to high quality powder: I. Bioactive potential. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 107, no., pp. 81-89., Registrované v: WOS

11. [1.1] PAVLIC, Branimir - VIDOVIĆ, Senka - VLADIC, Jelena - RADOSAVLJEVIĆ, Robert - CINDRIC, Marina - ZEKOVIC, Zoran. Subcritical water extraction of sage (Salvia officinalis L.) by-products-Process optimization by response surface methodology. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2016, vol. 116, no., pp. 36-45., Registrované v: WOS

12. [1.1] SU, Chia-Hung - THI THANH TRUC PHAM - CHENG, Hsien-Hao. Aqueous enzymatic extraction of rosmarinic acid from Salvia officinalis: optimisation using response surface methodology. In PHYTOCHEMICAL ANALYSIS. ISSN 0958-0344, 2020, vol. 31, no. 5, pp. 575-582. Dostupné na: <https://doi.org/10.1002/pca.2922>., Registrované v: WOS

13. [1.1] VO HOAI BAC - PAULSEN, Berit Smestad - LE VAN TRUONG - KOSCHELLA, Andreas - TAT CUONG TRINH - WOLD, Christian Winther - YOGARAJAH, Suthajini - HEINZE, Thomas. Neutral Polysaccharide from the Leaves of Pseuderanthemum carruthersii: Presence of 3-O-Methyl

Galactose and Anti-Inflammatory Activity in LPS Stimulated RAW264.7 Cells. In POLYMERS, 2019, vol. 11, no. 7, pp., Registrované v: WOS

14. [1.1] ZEKOVIĆ, Zoran - PINTAČ, Diandra - MAJKIĆ, Tatjana - VIDOVIĆ, Senka - MIMICA-DUKIĆ, Neda - TESLIĆ, Nemanja - VERSARI, Andrea - PAVLIĆ, Branimir. Utilization of sage by-products as raw material for antioxidants recovery Ultrasound versus microwave-assisted extraction. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 49-59., Registrované v: WOS

15. [1.2] GHORBANI, Ahmad - ESMAEILIZADEH, Mahdi. Pharmacological properties of Salvia officinalis and its components. In Journal of Traditional and Complementary Medicine, 2017-10-01, 7, 4, pp. 433-440., Registrované v: SCOPUS

16. [1.2] KADHIM, Sura Mohammed - MOHAMMED, Mustafa Taha - AHMED, Omar Mohammed - JASSIM, Abdulkadir Mohammed Noori. Study of some Salvia Officinalis L. (SAGE) components and effect of their aqueous extract on antioxidant. In International Journal of Chemical Sciences. ISSN 0972768X, 2016-01-01, 14, 2, pp. 711-719., Registrované v: SCOPUS

17. [1.2] KHUDIAR, Khalisa Khadim - HUSSEIN, Ghasag Jawad. Effect of alcoholic extract of Salvia officinalis leaves on some physiological parameters aspects in acrylamide-treated rats. In Advances in Animal and Veterinary Sciences. ISSN 23093331, 2017-01-01, 5, 1, pp. 47-55., Registrované v: SCOPUS

ADCA237 CLAEYSSSENS, M. - VANTILBEURGH, H. - KAMERLING, J.P. - BERG, J. - VRŠANSKÁ, Mária - BIELY, Peter. Studies of the cellulolytic system of the filamentous fungus Trichoderma reesei QM 9414 - substrate specificity and transfer activity of endoglucanase-I. In *Biochemical Journal*, 1990, vol.270, p. 251-256. ISSN 0264-6021.

Ohlasy:

1. [1.1] BARBOSA, Fernando Cesar - KENDRICK, Emanuele - BRENELLI, Livia Beatriz - ARRUDA, Henrique Silvano - PASTORE, Glaucia Maria - RABELO, Sarita Candida - DAMASIO, Andre - FRANCO, Telma Teixeira - LEAK, David - GOLDBECK, Rosana. Optimization of cello-oligosaccharides production by enzymatic hydrolysis of hydrothermally pretreated sugarcane straw using cellulolytic and oxidative enzymes. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 141, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105697>., Registrované v: WOS

2. [1.1] LAKHUNDI, Sahreena - SIDDIQUI, Ruqaiyyah - KHAN, Naveed Ahmed. Cellulose degradation: a therapeutic strategy in the improved treatment of Acanthamoeba infections. In PARASITES & VECTORS. ISSN 1756-3305, 2015, vol. 8, no., pp., Registrované v: WOS

3. [1.1] RABINOVICH, Mikhail L. - MELNIK, Maria S. - HERNER, Mikhail L. - VOZNYI, Yakov V. - VASILCHENKO, Lilia G. Predominant Nonproductive Substrate Binding by Fungal Cellobiohydrolase I and Implications for Activity Improvement. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 3, pp., Registrované v: WOS

4. [1.1] SOLAIMAN, Daniel K. Y. - ASHBY, Richard D. - CROCKER, Nicole V. High-titer production and strong antimicrobial activity of sophorolipids from Rhodotorula bogoriensis. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2015, vol. 31, no. 4, pp. 867-874., Registrované v: WOS

5. [1.1] SONG, Xiangfei - ZHANG, Shujun - WANG, Yefei - LI, Jingwen - HE, Chunyan - YAO, Lishan. A kinetic study of *Trichoderma reesei* Cel7B catalyzed cellulose hydrolysis (vol 87, pg 9, 2016). In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 92, no., pp. 117-117., Registrované v: WOS
6. [1.1] WANG, Yefei - SONG, Xiangfei - ZHANG, Shujun - LI, Jingwen - SHU, Zhiyu - HE, Chunyan - HUANG, Qingshan - YAO, Lishan. Improving the activity of *Trichoderma reesei* cel7B through stabilizing the transition state. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2016, vol. 113, no. 6, pp. 1171-1177., Registrované v: WOS
7. [1.1] WANG, Yefei - ZHANG, Shujun - SONG, Xiangfei - YAO, Lishan. Cellulose Chain Binding Free Energy Drives the Processive Move of Cellulases on the Cellulose Surface. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2016, vol. 113, no. 9, pp. 1873-1880., Registrované v: WOS

ADCA238 COLE, C.L. - HANSEN, S.U. - BARÁTH, Marek - RUSHTON, G. - GARDINER, J.M. - AVIZIENYTE, E. - JAYSON, G.C. Synthetic heparan sulfate oligosaccharides inhibit endothelial cell functions essential for angiogenesis. In *PLoS ONE*, 2010, vol. 5, art.no.e11644 (15pages. Dostupné na: <https://doi.org/10.1371/journal.pone.0011644>

Ohlasy:

1. [1.1] BARATH, M. - KOOS, M. - TVAROSKA, I. - HIRSCH, J. Synthesis of potential inhibitors of glycosyltransferases representing UDP-GlcNAc. In CHEMICAL PAPERS. ISSN 0366-6352, FEB 2015, vol. 69, no. 2, p. 339-347., Registrované v: WOS
2. [1.1] BEN GARA, Amel - KOLSI, Rihab Ben Abdallah - JARDAK, Neila - CHAABEN, Rim - EL-FEKI, Abdelfattah - FKI, Lotfi - BELGHITH, Hafedh - BELGHITH, Karima. Inhibitory activities of *Cystoseira crinita* sulfated polysaccharide on key enzymes related to diabetes and hypertension: in vitro and animal study. In ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY. ISSN 1381-3455, 2017, vol. 123, no. 1, pp. 31-42., Registrované v: WOS
3. [1.1] BEN GARA, Amel - KOLSI, Rihab Ben Abdallah - CHAABEN, Rim - HAMMAMI, Nadia - KAMMOUN, Majed - PATTI, Francesco Paolo - EL FEKI, Abdelfattah - FKI, Lotfi - BELGHITH, Hafedh - BELGHITH, Karima. Inhibition of key digestive enzymes related to hyperlipidemia and protection of liver-kidney functions by *Cystoseira crinita* sulphated polysaccharide in high-fat diet-fed rats. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2017, vol. 85, no., pp. 517-526., Registrované v: WOS
4. [1.1] CASSINELLI, Giuliana - FAVINI, Enrica - DAL BO, Laura - TORTORETO, Monica - DE MAGLIE, Marcella - DAGRADA, Gianpaolo - PILOTTI, Silvana - ZUNINO, Franco - ZAFFARONI, Nadia - LANZI, Cinzia. Antitumor efficacy of the heparan sulfate mimic roneparstat (SST0001) against sarcoma models involves multi-target inhibition of receptor tyrosine kinases. In ONCOTARGET. ISSN 1949-2553, 2016, vol. 7, no. 30, pp. 47848-47863., Registrované v: WOS
5. [1.1] FARRUGIA, Brooke L. - LORD, Megan S. - MELROSE, James - WHITELOCK, John M. Can We Produce Heparin/Heparan Sulfate Biomimetics Using "Mother-Nature" as the Gold Standard? In MOLECULES.

- ISSN 1420-3049, 2015, vol. 20, no. 3, pp. 4254-4276., Registrované v: WOS
6. [1.1] FARRUGIA, Brooke L. - MI, Yaolei - KIM, Ha Na - WHITELOCK, John M. - BAKER, Shenda M. - WIESMANN, William P. - LI, Zhe - MAITZ, Peter - LORD, Megan S. Chitosan-Based Heparan Sulfate Mimetics Promote Epidermal Formation in a Human Organotypic Skin Model. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2018, vol. 28, no. 36, pp., Registrované v: WOS
7. [1.1] FU, Haitian - DENG, Chao - TENG, Liping - CAI, Zhi - CHEN, Jinghua - LU, Guozhong. Effect of heparan sulfate mimetics from Escherichia coli K5 polysaccharide on SDF-1/CXCL12-induced endothelial progenitor cells in vitro. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2492-2500., Registrované v: WOS
8. [1.1] GULBERTI, Sandrine - MAO, Xianqing - BUI, Catherine - FOURNEL-GIGLEUX, Sylvie. The role of heparan sulfate maturation in cancer: A focus on the 3O-sulfation and the enigmatic 3O-sulfotransferases (HS3STs). In SEMINARS IN CANCER BIOLOGY. ISSN 1044-579X, 2020, vol. 62, no., pp. 68-85. Dostupné na: <https://doi.org/10.1016/j.semcancer.2019.10.009>., Registrované v: WOS
9. [1.1] HAYEK, Shady - ATIYEH, Bishara - ZGHEIB, Elias. Stewart-Bluefarb syndrome: review of the literature and case report of chronic ulcer treatment with heparan sulphate (Caciqliq20 (R)). In INTERNATIONAL WOUND JOURNAL. ISSN 1742-4801, 2015, vol. 12, no. 2, pp. 169-172., Registrované v: WOS
10. [1.1] HAYEK, Shady - DIBO, Saad - BAROUD, Joe - IBRAHIM, Amir - BARRITAU, Denis. Refractory sickle cell leg ulcer: is heparan sulphate a new hope? In INTERNATIONAL WOUND JOURNAL. ISSN 1742-4801, 2016, vol. 13, no. 1, pp. 35-38., Registrované v: WOS
11. [1.1] HULL, Elizabeth E. - MONTGOMERY, McKale R. - LEYVA, Kathryn J. Epigenetic Regulation of the Biosynthesis & Enzymatic Modification of Heparan Sulfate Proteoglycans: Implications for Tumorigenesis and Cancer Biomarkers. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
12. [1.1] KUMAR, Archana Vijaya - BREZILLON, Stephane - UNTEREINER, Valerie - SOCKALINGUM, Ganesh Dhruvananda - KATAKAM, Sampath Kumar - MOHAMED, Hossam Taha - KEMPER, Bjoern - GREVE, Burkhard - MOHR, Benedikt - IBRAHIM, Sherif Abdelaziz - GOYCOOLEA, Francisco M. - KIESEL, Ludwig - PAVAO, Mauro S. G. - MOTTA, Juliana M. - GOETTE, Martin. HS2ST1-dependent signaling pathways determine breast cancer cell viability, matrix interactions, and invasive behavior. In CANCER SCIENCE. ISSN 1347-9032, 2020, vol. 111, no. 8, pp. 2907-2922. Dostupné na: <https://doi.org/10.1111/cas.14539>., Registrované v: WOS
13. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Heparan Sulfate Mimetics in Cancer Therapy: The Challenge to Define Structural Determinants and the Relevance of Targets for Optimal Activity. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
14. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Receptor tyrosine kinases and heparan sulfate proteoglycans: Interplay providing anticancer targeting strategies and new therapeutic opportunities. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 178, no., pp. Dostupné na:

<https://doi.org/10.1016/j.bcp.2020.114084>., Registrované v: WOS

15. [1.1] LIM, Dong-Kwon - WYLIE, Ryan G. - LANGER, Robert - KOHANE, Daniel S. Selective binding of C-6 OH sulfated hyaluronic acid to the angiogenic isoform of VEGF(165). In BIOMATERIALS. ISSN 0142-9612, 2016, vol. 77, no., pp. 130-138., Registrované v: WOS

16. [1.1] MIURA, Yoshiko - FUKUDA, Tomohiro - SETO, Hirokazu - HOSHINO, Yu. Development of glycosaminoglycan mimetics using glycopolymers. In POLYMER JOURNAL. ISSN 0032-3896, 2016, vol. 48, no. 3, pp. 229-237., Registrované v: WOS

17. [1.1] MIURA, Yoshiko - FUKUDA, Tomohiro - SETO, Hirokazu - HOSHINO, Yu. Development of glycosaminoglycan mimetics using glycopolymers. In POLYMER JOURNAL. ISSN 0032-3896, 2016, vol. 48, no. 3, pp. 229-237., Registrované v: WOS

18. [1.1] PARK, Jooho - JEONG, Jee-Heon - AL-HILAL, Taslim A. - KIM, Ji-young - BYUN, Youngro. Size Controlled Heparin Fragment-Deoxycholic Acid Conjugate Showed Anticancer Property by Inhibiting VEGF(165). In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2015, vol. 26, no. 5, pp. 932-940., Registrované v: WOS

19. [1.1] PHOWICHIT, Suwadee - KOBAYASHI, Miho - FUJINOYA, Yuriko - SATO, Yasufumi - SANPHANYA, Kingkarn - VAJRAGUPTA, Opa - CHULAROJMONTRI, Linda - WATTANAPITAYAKUL, Suvara K. Antiangiogenic Effects of VH02, a Novel Urea Derivative: In Vitro and in Vivo Studies. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 9, pp., Registrované v: WOS

20. [1.1] PORFIRIO WILL CASTRO, Luiza Sheyla Evenni - PINHEIRO, Thuane de Sousa - GOMES CASTRO, Allisson Jhonatan - NASCIMENTO SANTOS, Marilia da Silva - SORIANO, Eliane Marinho - LEITE, Edda Lisboa. Potential anti-angiogenic, antiproliferative, antioxidant, and anticoagulant activity of anionic polysaccharides, fucans, extracted from brown algae Lobophora variegata. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2015, vol. 27, no. 3, pp. 1315-1325., Registrované v: WOS

21. [1.1] ROBERTS, Justine J. - FARRUGIA, Brooke L. - GREEN, Rylie A. - RNJAK-KOVACINA, Jelena - MARTENS, Penny J. In situ formation of poly(vinyl alcohol)-heparin hydrogels for mild encapsulation and prolonged release of basic fibroblast growth factor and vascular endothelial growth factor. In JOURNAL OF TISSUE ENGINEERING, 2016, vol. 7, no., pp., Registrované v: WOS

22. [1.1] WILL CASTRO, Luiza Sheyla Evenni P. - GOMES CASTRO, Allisson J. - NASCIMENTO SANTOS, Marilia da S. - PINHEIRO, Thuane de Sousa - FLORENTIN, Kahena de Quevedo - ALVES, Luciana G. - SORIANO, Eliane Marinho - ARAUJO, Renata Mendonca - LEITE, Edda Lisboa. Effect of galactofucan sulfate of a brown seaweed on induced hepatotoxicity in rats, sodium pentobarbital-induced sleep, and anti-inflammatory activity. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2016, vol. 28, no. 3, pp. 2005-2017., Registrované v: WOS

23. [1.2] LIU, Jie ru - WANG, Hui fang - YU, Dan feng - CHEN, Xiao yu - HE, Shu ying. Modulation of binding to vascular endothelial growth factor and receptor by heparin derived oligosaccharide. In Carbohydrate Polymers. ISSN 01448617, 2017-10-15, 174, pp. 558-564., Registrované v: SCOPUS

24. [1.2] NADANAKA, Satomi - KITAGAWA, Hiroshi. Heparan sulfate

signaling in cancer. In Seikagaku. ISSN 00371017, 2017-01-01, 89, 5, pp. 681-688., Registrované v: SCOPUS

25. [1.2] ZULUETA, Medel Manuel L. - LIN, Shu Yi - HU, Yu Peng - HUNG, Shang Cheng. Synthesis of glycosaminoglycans. In Glycochemical Synthesis: Strategies and Applications, 2015-01-01, pp. 235-261., Registrované v: SCOPUS

ADCA239 COTE, D.L. - LEATHERS, T.D. - AHLGREN, J.A. - WYCKHOFF, H.A. - HAYMAN, G.T. - BIELY, Peter. Alternan and highly branched limit dextrans: Low-viscosity polysaccharides as potential new food ingredients. In OKAI, H. - MILLS, O. - SPANIER, A.M. - TAMURA, M. (eds.). *Chemistry of Novel Foods*. Carol Stream, IL, USA, 1997, chapter 8, p. 95-109.

Ohlasy:

1. [1.1] ZANNINI, Emanuele - WATERS, Deborah M. - COFFEY, Aidan - ARENDT, Elke K. Production, properties, and industrial food application of lactic acid bacteria-derived exopolysaccharides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 3, pp. 1121-1135., Registrované v: WOS

ADCA240 COTÉ, G.L. - BIELY, Peter. Enzymatically produced cyclic alfa-1,3-linked and alfa-1,6-linked oligosaccharides of D-glucose. In *European Journal of Biochemistry*, 1994, vol.226, p. 641-648. ISSN 0014-2956.

Ohlasy:

1. [1.1] KOHNO, Masaki - ARAKAWA, Takatoshi - OTA, Hiromi - MORI, Tetsuya - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. Structural features of a bacterial cyclic alpha-maltosyl-(1>6)-maltose (CMM) hydrolase critical for CMM recognition and hydrolysis. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 43, pp. 16874-16888., Registrované v: WOS

2. [1.1] KOHNO, Masaki - ARAKAWA, Takatoshi - SUNAGAWA, Naoki - MORI, Tetsuya - IGARASHI, Kiyohiko - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. Molecular analysis of cyclic alpha-maltosyl-(1>6)-maltose binding protein in the bacterial metabolic pathway. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 11, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0241912>., Registrované v: WOS

3. [1.1] LIGHT, Samuel H. - CAHOON, Laty A. - HALAVATY, Andrei S. - FREITAG, Nancy E. - ANDERSON, Wayne F. Structure to function of an alpha-glucan metabolic pathway that promotes *Listeria monocytogenes* pathogenesis. In NATURE MICROBIOLOGY. ISSN 2058-5276, 2017, vol. 2, no. 2, pp., Registrované v: WOS

4. [1.1] MAITI, Krishnagopal - SAMANTA, Gopal Kumar - DASKHAN, Gour Chand - JAYARAMAN, N. Chemical and enzymatic approaches to the synthesis of cyclic oligosaccharides. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 165-209., Registrované v: WOS

5. [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS

6. [1.1] TAGAMI, Takayoshi - MIYANO, Eri - SADAHIRO, Juri - OKUYAMA, Masayuki - IWASAKI, Tomohito - KIMURA, Atsuo. Two Novel Glycoside Hydrolases Responsible for the Catabolism of Cyclobis-(1→6)-alpha-nigerosyl. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 32, pp. 16438-16447., Registrované v: WOS
7. [1.1] TSUDA, Susumu - KOMATSU, Yuya - MINAMI, Yohei - UEDA, Ryoji - FUJIWARA, Shin-ichi - IWASAKI, Takanori - KUNIYASU, Hitoshi - KAMBE, Nobuaki. SYNTHESIS OF CYCLIC NIGEROSYLNIGEROSE (CNN) BIS-IMIDAZOLIUM SALTS. In HETEROCYCLES. ISSN 0385-5414, 2017, vol. 95, no. 2, pp. 1197-1203., Registrované v: WOS
8. [1.1] WEI, Xueqin - LIANG, Wenting - WU, Wanhua - YANG, Cheng - TROTTA, Francesco - CALDERA, Fabrizio - MELE, Andrea - NISHIMOTO, Tomoyuki - INOUE, Yoshihisa. Solvent- and phase-controlled photochirogenesis. Enantiodifferentiating photoisomerization of (Z)-cyclooctene sensitized by cyclic nigerosylnigerose-based nanosponges crosslinked by pyromellitate. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2015, vol. 13, no. 10, pp. 2905-2912., Registrované v: WOS
9. [1.2] LIGHT, Samuel H. - CAHOON, Laty A. - HALAVATY, Andrei S. - FREITAG, Nancy E. - ANDERSON, Wayne F. Structure to function of an α -glucan metabolic pathway that promotes *Listeria monocytogenes* pathogenesis. In Nature Microbiology, 2016-11-07, 2, pp., Registrované v: SCOPUS
10. [1.2] TANIGUCHI, Hajime. Linear and cyclic oligosaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 763-807., Registrované v: SCOPUS

ADCA241 CYBULSKA, Justyna - HALAJ, Michal - CEPÁK, Vladimír - LUKAVSKÝ, Jaroslav - CAPEK, Peter. Nanostructure features of microalgae biopolymer. In *Starch-Starke*, 2016, vol. 68, p. 629-636. (2015: 1.523 - IF, Q2 - JCR, 0.528 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0038-9056. Dostupné na: <https://doi.org/10.1002/star.201500159>

Ohlasy:

1. [1.1] XIAO, Rui - ZHENG, Yi. Overview of microalgal extracellular polymeric substances (EPS) and their applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1225-1244., Registrované v: WOS

ADCA242 ČERNÁKOVÁ, M. - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ŠUTÝ, L. - ZEMEK, Juraj - KUNIAK, Ľudovít. Biochemical similarities among strains of *Aureobasidium pullulans* (de Bary) Arnaud. In *Folia Microbiologica*, 1980, vol. 25, p. 68-73. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02876399>

Ohlasy:

1. [1.1] CAO, Weifeng - CAO, Weilei - SHEN, Fei - LUO, Jianquan - YIN, Junxiang - QIAO, Changsheng - WAN, Yinhua. Membrane-assisted beta-poly(L-malic acid) production from bagasse hydrolysates by *Aureobasidium pullulans* ipe-1. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122260>., Registrované v: WOS
2. [1.1] DAILIN, Daniel Joe - LOW, Luo Zaini Mohd Izwan - ABD

MALEK, Roslinda - AZELEE, Nur Izyan Wan - ABD MANAS, Nor Hasmaliana - KEAT, Ho Chin - SUKMAWATI, Dalia - EL ENSHASY, Hesham. Pullulan, a biopolymer with potential applications in pharmaceutical and cosmeceutical: A review. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2019, vol. 16, no. 3, pp. 2604-2616., Registrované v: WOS

3. [1.1] SHENG, Long - TONG, Qunyi - MA, Meihu. Why sucrose is the most suitable substrate for pullulan fermentation by *Aureobasidium pullulans* CGMCC1234? In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 92, no., pp. 49-55., Registrované v: WOS

ADCA243 ČERTÍK, Milan - MASRNOVÁ, S. - SITKEY, V. - MINÁRIK, M. - BREIEROVÁ, Emília. Biotechnological production of astaxanthin. In *Chemické Listy*, 2005, vol. 99, p. s237-s240. (2004: 0.348 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0009-2770.

Ohlasy:

1. [1.2] MITRA, Abhijit - ZAMAN, Sufia. Basics of marine and estuarine ecology. In *Basics of Marine and Estuarine Ecology*, 2016-01-01, pp. 1-481., Registrované v: SCOPUS

ADCA244 ČERTÍK, Milan - BREIEROVÁ, Emília - OLÁHOVÁ, Monika - ŠAJBIDOR, Ján - MÁROVÁ, Ivana. Effect of selenium on lipid alternations in pigment-forming yeasts. In *Food Science and Biotechnology*, S, vol. 22, (2013. (2012: 0.695 - IF, Q3 - JCR, 0.359 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1226-7708. Dostupné na: <https://doi.org/10.1007/s10068-013-0047-3>

Ohlasy:

1. [1.1] KIELISZEK, Marek - BLAZEJAK, Stanislaw - GIENKA, Iwona - BZDUCHA-WROBEL, Anna. Accumulation and metabolism of selenium by yeast cells. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 13, pp. 5373-5382., Registrované v: WOS

2. [1.1] KIELISZEK, Marek - BLAZEJAK, Stanislaw - BZDUCHA-WROBEL, Anna - KOT, Anna M. Effect of Selenium on Lipid and Amino Acid Metabolism in Yeast Cells. In *BIOLOGICAL TRACE ELEMENT RESEARCH*. ISSN 0163-4984, 2019, vol. 187, no. 1, pp. 316-327., Registrované v: WOS

ADCA245 ČERTÍK, M. - ADAMECHOVÁ, Z. - HANUSOVÁ, V. - BREIEROVÁ, Emília. Biotechnology as a useful tool for nutritional improvement of cereal-based materials enriched polyunsaturated fatty acids and pigments. In *Acta Agronomica Hungarica*, 2008, vol. 56, p. 377-384. (2007: 0.210 - SJR, Q3 - SJR). ISSN 0238-0161. Dostupné na: <https://doi.org/10.1556/AAgr.56.2008.4.1>

Ohlasy:

1. [1.1] ANTIMANON, Sompot - CHAMKHUY, Warinthon - SUTTHIWATTANAKUL, Sarinya - LAOTENG, Kobkul. Efficient production of arachidonic acid of *Mortierella* sp by solid-state fermentation using combinatorial medium with spent mushroom substrate. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2018, vol. 72, no. 11, pp. 2899-2908., Registrované v: WOS

ADCA246 ČERTÍK, M. - BREIEROVÁ, Emília - JURŠÍKOVÁ, P. Effect of Cadmium on lipid composition of *Aureobasidium pullulans* grown with added extracellular

polysaccharides. In *International Biodeterioration & Biodegradation*, 2005, vol. 55, p. 195-202. ISSN 0964-8305. Dostupné na: <https://doi.org/10.1016/j.ibiod.2004.11.005>

Ohlasy:

1. [1.1] JHA, Anal K. - PRASAD, Kamal. Understanding Mechanism of Fungus Mediated Nanosynthesis: A Molecular Approach. In *ADVANCES AND APPLICATIONS THROUGH FUNGAL NANOBIO TECHNOLOGY*. ISSN 2198-7777, 2016, vol., no., pp. 1-23., Registrované v: WOS
2. [1.1] KIM, Jong-Shik - LEE, In-Kyoung - KIM, Dae-Won - YUNG, Bong-Sik. Aureosurfactin and 3-deoxyaureosurfactin, novel biosurfactants produced by *Aureobasidium pullulans* L3-GPY. In *JOURNAL OF ANTIBIOTICS*. ISSN 0021-8820, 2016, vol. 69, no. 10, pp. 759-761., Registrované v: WOS
3. [1.1] KIM, Jong-Shik - LEE, In-Kyoung - YUN, Bong-Sik. Pullusurfactans A-E, new biosurfactants produced by *Aureobasidium pullulans* A11211-4-57 from a fleabane, *Erigeron annuus* (L.) pers. In *JOURNAL OF ANTIBIOTICS*. ISSN 0021-8820, 2018, vol. 71, no. 11, pp. 920-926., Registrované v: WOS
4. [1.1] OMOTO, Eiji - IWASAKI, Yugo - MIYAKE, Hiroshi - TANIGUCHI, Mitsutaka. Salinity induces membrane structure and lipid changes in maize mesophyll and bundle sheath chloroplasts. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2016, vol. 157, no. 1, pp. 13-23., Registrované v: WOS
5. [1.1] SEENA, Sahadevan - SOBRAL, Olimpia - CANO, Ainara. Metabolomic, functional, and ecologic responses of the common freshwater fungus *Neonectria lugdunensis* to mine drainage stress. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2020, vol. 718, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2020.137359>., Registrované v: WOS
6. [1.1] SLABA, Mirosława - HRYNKIEWICZ, Katarzyna - GADD, Geoffrey M. Heavy Metal Removal by Microbial Cells. In *MICROBIAL BIODEGRADATION: FROM OMICS TO FUNCTION AND APPLICATION*, 2016, vol., no., pp. 197-218., Registrované v: WOS
7. [1.1] SONG, Wenjuan - YANG, Yuyi - LIANG, Xinjin - LIU, Feixue - GADD, Geoffrey Michael. Influence of metals and metalloids on the composition and fluorescence quenching of the extracellular polymeric substances produced by the polymorphic fungus *Aureobasidium pullulans*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 16, pp. 7155-7164. Dostupné na: <https://doi.org/10.1007/s00253-020-10732-7>., Registrované v: WOS

ADCA247 ČIPÁK, Ľuboš - MIADOKOVÁ, Eva - RAUKO, Peter - NOVOTNÝ, Ladislav - KOGAN, Grigorij - DINGOVÁ, Hana. Comparative DNA protectivity and antimutagenicity studies using DNA-topology and Ames assays. In *Toxicology in vitro*, 2001, vol. 15, p. 677-681. (2001 - Current Contents). ISSN 0887-2333. Dostupné na: [https://doi.org/10.1016/S0887-2333\(01\)00080-7](https://doi.org/10.1016/S0887-2333(01)00080-7)

Ohlasy:

1. [1.1] DUROVCOVA, Ivana - SPACKOVA, Jana - PUSKAR, Marek - GALOVA, Eliska - SEVCOVICOVA, Andrea. Bisphenol A as an environmental pollutant with dual genotoxic and DNA-protective effects. In

NEUROENDOCRINOLOGY LETTERS. ISSN 0172-780X, 2018, vol. 39, no. 4, pp. 294-298., Registrované v: WOS

2. [1.1] HORVATHOV, Eva - MASTIHUBOVA, Maria - POTOCKA, Elena Karnisova - KIS, Peter - GALOVA, Eliska - SEVCOVICOVA, Andrea - KLAPAKOVA, Martina - HUNAKOVA, Luba - MASTIHUBA, Vladimir. Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells cultured in vitro. In TOXICOLOGY IN VITRO. ISSN 0887-2333, 2019, vol. 61, no., pp., Registrované v: WOS

3. [1.1] HRICOVINIOVA, J. - SEVCOVICOVA, A. - HRICOVINIOVA, Z. Evaluation of the genotoxic, DNA-protective and antioxidant profile of synthetic alkyl gallates and gallotannins using in vitro assays. In TOXICOLOGY IN VITRO. ISSN 0887-2333, JUN 2020, vol. 65., Registrované v: WOS

4. [1.1] TODOROVA, Teodora - BARDAROV, Krum - MITEVA, Daniela - BARDAROV, Ventzislav - ATANASSOV, Atanas - CHANKOVA, Stephka. DNA-PROTECTIVE ACTIVITIES OF CLINOPODIUM VULGARE L. EXTRACTS. In COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES. ISSN 1310-1331, 2016, vol. 69, no. 8, pp. 1019., Registrované v: WOS

5. [1.1] ZDURIENCIKOVA, Martina - CHOLUJOVA, Dana - DURAJ, Jozef - MASTIHUBOVA, Maria - MASTIHUBA, Vladimir - POTOCKA, Elena Karnisova - GALOVA, Eliska - SEVCOVICOVA, Andrea - KLAPAKOVA, Martina - HORVATHOVA, Eva. Salidroside, a Chemopreventive Glycoside, Diminishes Cytotoxic Effect of Cisplatin in Vitro. In BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY. ISSN 1742-7835, 2018, vol. 122, no. 3, pp. 346-354., Registrované v: WOS

6. [1.2] CHIU, Hui Fang - HUANG, Shin Ru - LU, Yan Ying - HAN, Yi Chun - SHEN, You Cheng - VENKATAKRISHNAN, Kamesh - WANG, Chin Kun. Antimutagenicity, antibacteria, and water holding capacity of chitosan from Luffa aegyptiaca Mill and Cucumis sativus L. In Journal of Food Biochemistry. ISSN 01458884, 2017-06-01, 41, 3, pp., Registrované v: SCOPUS

7. [2.2] HORVATHOVA, E. - KOZICS, K. - MELUSOVA, M. - GALOVA, E. - SEVCOVICOVA, A. - KUSZNIEREWICZ, B. - CHMIEL, T. - SLAMENOVA, D. Chromatographic analyses of Lavandula angustifolia and Rosmarinus officinalis extracts and their biological effects in mammalian cells and cell-free systems. In Neoplasma. ISSN 00282685, 2017-01-01, 64, 6, pp. 856-868., Registrované v: SCOPUS

ADCA248 ČÍŽOVÁ, Alžbeta - KORCOVÁ, Jana, Vráblová - FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Efficient separation of mannan-protein by ionic liquid aqueous two-phase system, comparison with lectin affinity purification. In *International Journal of Biological Macromolecules*, 2017, vol. 98, p. 314-318. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.02.001>

Ohlasy:

1. [1.1] CAO, Changliang - HUANG, Qiang - ZHANG, Bin - LI, Chao - FU, Xiong. Physicochemical characterization and in vitro hypoglycemic activities of polysaccharides from *Sargassum pallidum* by microwave-assisted

- aqueous two-phase extraction. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 357-368., Registrované v: WOS
2. [1.1] IKEDA, Kazuma - FUJITA, Kyoko - OHNO, Hiroyuki - NAKAMURA, Nobuhumi. Effects of charge balance and hydrophobicity of the surface of cytochrome c on the distribution behaviour in an ionic liquid/buffer biphasic system. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2019, vol. 17, no. 31, pp. 7337-7341., Registrované v: WOS
 3. [1.1] LI SHUANG - LI SHUNI - ZHAI QUANGUO - JIANG YUCHENG - HU MANCHENG. Phase Behavior of Ionic Liquids-Cesium Carbonate-Water Aqueous Two-phase Systems and Their Extraction of L-Tryptophan. In *CHEMICAL RESEARCH IN CHINESE UNIVERSITIES*. ISSN 1005-9040, 2018, vol. 34, no. 1, pp. 127-131., Registrované v: WOS
 4. [1.1] LIU, Yang - GUO, Haipeng - GU, Jiali - QIN, Wensheng. Optimize purification of a cellulase from *Bacillus velezensis* A4 by aqueous two-phase system (ATPS) using response surface methodology. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2019, vol. 87, no., pp. 196-203., Registrované v: WOS
 5. [1.1] LI, Peng - ZHAO, Pengyun - LIU, Weijie - JIANG, Yifu - WANG, Wenjiao - BAO, Longyue - JIN, Yongri - LI, Xuwen. Determination of common ginsenosides in Kang'ai injection by aqueous two-phase extraction with deep eutectic solvents and HPLC-UV/DAD. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2018, vol. 137, no., pp. 302-308., Registrované v: WOS
 6. [1.1] MCQUEEN, Lisa - LAI, David. Ionic Liquid Aqueous Two-Phase Systems From a Pharmaceutical Perspective. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2019, vol. 7, no., pp., Registrované v: WOS
 7. [1.1] ZHAO, Xiaoyong - CAI, Pengfei - SUN, Cuirong - PAN, Yuanjiang. Application of ionic liquids in separation and analysis of carbohydrates: State of the art and future trends. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2019, vol. 111, no., pp. 148-162., Registrované v: WOS
 8. [1.1] ZHAO, Xiaoyong - MA, Ge - WU, Datong - CAI, Pengfei - PAN, Yuanjiang. A novel strategy to utilize ethylene glycol-ionic liquids for the selective precipitation of polysaccharides. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2019, vol. 42, no. 9, pp. 1757-1767., Registrované v: WOS

ADCA249 ČÍŽOVÁ, Alžbeta - NEŠČÁKOVÁ, Zuzana - MALOVÍKOVÁ, Anna - BYSTRICKÝ, Slavomír. Preparation and characterization of cationic and amphoteric mannans from *Candida albicans*. In *Carbohydrate Polymers*, 2016, vol. 149, p. 1-7. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.04.083>

Ohlasy:

1. [1.1] CHANG, Ranran - JI, Na - LI, Man - QIU, Lizhong - SUN, Chunrui - BIAN, Xiliang - QIU, Hongwei - XIONG, Liu - SUN, Qingjie. Green preparation and characterization of starch nanoparticles using a vacuum cold plasma process combined with ultrasonication treatment. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2019, vol. 58, no., pp., Registrované v: WOS

2. [1.1] CHANG, Ranran - TIAN, Yaoqi - YU, Zhiwei - SUN, Chunrui - JIN, Zhengyu. Preparation and characterization of zwitterionic functionalized starch nanoparticles. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 142, no., pp. 395-403. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.110>., Registrované v: WOS

3. [1.1] CHENG, Junwen - SONG, Jiling - LIU, Yu - LU, Na - WANG, Yanbin - HU, Chuanjiu - HE, Liang - WEI, Hailong - LV, Guoying - YANG, Saozong - ZHANG, Zuofa. Conformational properties and biological activities of alpha-D-mannan from *Sanghuangporus sanghuang* in liquid culture. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 3568-3579. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.112>., Registrované v: WOS

ADCA250 ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - BYSTRICKÝ, Slavomír. Ultrasonic and free-radical degradation of mannan from *Candida albicans*. In *International Journal of Biological Macromolecules*, 2015, vol. 75, p. 32-36. (2014: 2.858 - IF, Q2 - JCR, 0.864 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2014.12.046>

Ohlasy:

1. [1.1] CHEUNG, Yi-Ching - YIN, Junyi - WU, Jian-Yong. Effect of polysaccharide chain conformation on ultrasonic degradation of curdlan in alkaline solution. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 298-302., Registrované v: WOS

2. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

3. [1.1] WU, Tiantian - WU, Chunhua - XIANG, Yingchun - HUANG, Jiaqi - LUAN, Lanlan - CHEN, Shiguo - HU, Yaqin. Kinetics and mechanism of degradation of chitosan by combining sonolysis with H₂O₂/ascorbic acid. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 80, pp., Registrované v: WOS

ADCA251 ČÍŽOVÁ, A. - SROKOVÁ, I. - SASINKOVÁ, Vlasta - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna. Carboxymethyl starch octenylsuccinate: Microwave- and ultrasound-assisted synthesis and properties. In *Starch-Starke*, 2008, vol. 60, p. 389-397. (2007: 1.064 - IF, Q2 - JCR, 0.672 - SJR, Q1 - SJR). ISSN 0038-9056. Dostupné na: <https://doi.org/10.1002/star.200800221>

Ohlasy:

1. [1.1] ABEDI, Elahe - POURMOHAMMADI, Kiana - ABBASI, Sahar. Dual-frequency ultrasound for ultrasonic-assisted esterification. In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, 2019, vol. 7, no. 8, pp. 2613-2624., Registrované v: WOS

2. [1.1] ENGLERT, Christoph - SCHWENKE, Almut M. - HOEPPENER, Stephanie - WEBER, Christine - SCHUBERT, Ulrich S. Microwave-Assisted Polymer Modifications. In *MICROWAVE-ASSISTED POLYMER SYNTHESIS*. ISSN 0065-3195, 2016, vol. 274, no., pp. 209-240., Registrované v: WOS

3. [1.1] FU, Xizhe - BELWAL, Tarun - CRAVOTTO, Giancarlo - LUO, Zisheng. Sono-physical and sono-chemical effects of ultrasound: Primary applications in extraction and freezing operations and influence on food components. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2020, vol. 60, no., pp. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2019.104726>., Registrované v: WOS
4. [1.1] GARCIA-GURROLA, Adriana - RINCON, Susana - ESCOBAR-PUENTES, Alberto A. - ZEPEDA, Alejandro - FRANCISCO PEREZ-ROBLES, Juan - MARTINEZ-BUSTOS, Fernando. Synthesis and succinylation of starch nanoparticles by means of a single step using sonochemical energy. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2019, vol. 56, no., pp. 458-465., Registrované v: WOS
5. [1.1] HU, Zhongshan - FENG, Tao - ZENG, Xiaolan - JANASWAMY, Srinivas - WANG, Hui - CAMPANELLA, Osvaldo. Structural Characterization and Digestibility of Curcumin Loaded Octenyl Succinic Nanoparticles. In *NANOMATERIALS*, 2019, vol. 9, no. 8, pp., Registrované v: WOS
6. [1.1] JINDAL, Manish - RANA, Vikas - KUMAR, Vineet - SAPRA, Bharti - TIWARY, Ashok K. Synthesis, physico-chemical and biomedical applications of sulfated Aegle marmelos gum: Green chemistry approach. In *ARABIAN JOURNAL OF CHEMISTRY*. ISSN 1878-5352, 2017, vol. 10, no., pp. S2151-S2159., Registrované v: WOS
7. [1.1] KROLIKOWSKA, Karolina - FORTUNA, Teresa - PIETRZYK, Slawomir - KHACHATRYAN, Karen - PAJAK, Paulina. Effect of metal ions on physicochemical and rheological properties of octenyl succinate starches. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 86, no., pp. 447-455., Registrované v: WOS
8. [1.1] LU, Kai - ZHU, Jian - BAO, Xianyang - LIU, Hongsheng - YU, Long - CHEN, Ling. Effect of starch microstructure on microwave-assisted esterification. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 2550-2557. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.099>., Registrované v: WOS
9. [1.1] LU, Keyu - MIAO, Ming - YE, Fan - CUI, Steve W. - LI, Xingfeng - JIANG, Bo. Impact of dual-enzyme treatment on the octenylsuccinic anhydride esterification of soluble starch nanoparticle. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 147, no., pp. 392-400., Registrované v: WOS
10. [1.1] MAGALLANES LOPEZ, Ana M. - MANTHEY, Frank A. - SIMSEK, Senay. Wet milling of deoxynivalenol-contaminated wheat: Effect on physicochemical properties of starch. In *CEREAL CHEMISTRY*. ISSN 0009-0352, 2020, vol. 97, no. 2, pp. 293-303. Dostupné na: <https://doi.org/10.1002/cche.10245>., Registrované v: WOS
11. [1.1] SACCO, M. - CHARNAY, C. - DE ANGELIS, F. - RADOIU, M. - LAMATY, F. - MARTINEZ, J. - COLACINO, E. Microwave-ultrasound simultaneous irradiation: a hybrid technology applied to ring closing metathesis. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 22, pp. 16878-16885., Registrované v: WOS
12. [1.1] SHAH, Umar - NAQASH, Farah - GANI, Adil - MASOODI, F. A. Art and Science behind Modified Starch Edible Films and Coatings: A

Review. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2016, vol. 15, no. 3, pp. 568-580., Registrované v: WOS

13. [1.1] SRIKAE0, Khongsak. Starch: Introduction and Structure-Property Relationships. In STARCH-BASED BLENDS, COMPOSITES AND NANOCOMPOSITES. ISSN 1757-7039, 2016, vol. 37, no., pp. 17-59., Registrované v: WOS

14. [1.1] SUJKA, Monika. Ultrasonic modification of starch Impact on granules porosity. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2017, vol. 37, no., pp. 424-429., Registrované v: WOS

15. [1.1] XIE, MengXi - DUAN, YuMin - LI, FanShu - WANG, Xia - CUI, XiaoTong - BACHA, Umar - ZHU, MinPeng - XIAO, Zhigang - ZHAO, Zhuo. Preparation and characterization of modified and functional starch (hexadecyl corboxymethyl starch) ether using reactive extrusion. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 5-6, pp., Registrované v: WOS

16. [1.1] XU, Yafeng - HUANG, Qiang - FU, Xiong - JANE, Jay-lin. Modification of starch octenylsuccinate by beta-amylase hydrolysis in order to increase its emulsification properties. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 48, no., pp. 55-61., Registrované v: WOS

17. [1.1] ZHU, Fan. Impact of ultrasound on structure, physicochemical properties, modifications, and applications of starch. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2015, vol. 43, no. 1, pp. 1-17., Registrované v: WOS

18. [1.2] BHATIA, Saurabh. Natural polymer drug delivery systems: Nanoparticles, plants, and algae. In Natural Polymer Drug Delivery Systems: Nanoparticles, Plants, and Algae, 2016-01-01, pp. 1-225., Registrované v: SCOPUS

19. [1.2] LI, Yang - ZHANG, Yuanming - JIANG, Wei - ZHANG, Jianming - WANG, Sishe - SU, Jianjun - HAN, Guangting. Ultrasonic treatment of Modal fiber dyed with madder. In Fangzhi Xuebao/Journal of Textile Research. ISSN 02539721, 2019-04-15, 40, 4, pp. 83-89., Registrované v: SCOPUS

20. [1.2] WANG, Jun - LI, Chao - TANG, Wei - HE, Tao - WANG, Xinghua. Optimization of working parameters for double-dielectric non-thermal plasma reactor and spectrography analysis of air discharge. In Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering. ISSN 10026819, 2015-01-01, 31, 14, pp. 72-76., Registrované v: SCOPUS

21. [3.1] Bordoloi, BJ (Bordoloi, Bishal Jyoti); Kalita, B (Kalita, Bhupen); Shil, D (Shil, Dibyendu). Properties, Pharmaceutical Application and Various Technique of Chemical Modification in Native Starch: A Descriptive Review. In: INTERNATIONAL JOURNAL OF CURRENT PHARMACEUTICAL RESEARCH. ISSN: 0975-7066, 2019, Volume: 11 Issue: 4 Pages: 54-59

22. [3.1] Krithika, PL (Krithika, Prabakaran Lakshmi); Ratnamala, KV (Ratnamala, K. V.) Modification of Starch: A Review of Various Techniques. In: INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS. ISSN: 2348-1269, 2019, Volume: 6 Issue: 1 Pages: 32-45

ADCA252 ČÍŽOVÁ, A. - KOSCHELLA, A. - HEINZE, T. - EBRINGEROVÁ, Anna - SROKOVÁ, I. Octenylsuccinate derivatives of carboxymethyl starch - synthesis and properties. In *Starch-Starke*, 2007, vol. 59, p. 482-492. (2006: 1.136 - IF, Q2 - JCR, 0.583 - SJR, Q2 - SJR). ISSN 0038-9056. Dostupné na: <https://doi.org/10.1002/star.200700651>

Ohlasy:

1. [1.1] RASHID, Umma S. - SIMSEK, Senay - KANEL, Sushil R. - BEZBARUAH, Achintya N. Modified tapioca starch for iron nanoparticle dispersion in aqueous media: potential uses for environmental remediation. In *SN APPLIED SCIENCES*. ISSN 2523-3963, 2019, vol. 1, no. 11, pp., Registrované v: WOS

2. [1.1] SIMSEK, Senay - OVANDO-MARTINEZ, Maribel - MAREFATI, Ali - SJOO, Malin - RAYNER, Marilyn. Chemical composition, digestibility and emulsification properties of octenyl succinic esters of various starches. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2015, vol. 75, no., pp. 41-49., Registrované v: WOS

3. [1.1] WANG, Jinwei - REN, Fei - YU, Jinglin - WANG, Shuo - COPELAND, Les - WANG, Shujun. Novel Green Synthesis of Octenyl Succinic Anhydride Esters of Granular Starch. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 44, pp. 16503-16514. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05472>., Registrované v: WOS

4. [1.1] WANG, Yingjie - XIE, Zhengfei - WU, Qian - SONG, Wanying - LIU, Liang - WU, Yongning - GONG, Zhiyong. Preparation and characterization of carboxymethyl starch from cadmium-contaminated rice. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 308, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.125674>., Registrované v: WOS

5. [1.1] ZHANG, Hongkui - XU, Cheng - LU, Yuting - WANG, Yuanhao - TAN, Fengzhi - LI, Yuan. The Thermal Stability and Rheological Properties of Alkylated Carboxymethyl Starch. In *JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS*. ISSN 0022-2348, 2017, vol. 56, no. 8, pp. 595-607., Registrované v: WOS

6. [1.1] ZHAO, Shaojie - TIAN, Guifang - ZHAO, Chengying - LU, Chang - BAO, Yuming - LIU, Xingxun - ZHENG, Jinkai. Emulsifying stability properties of octenyl succinic anhydride (OSA) modified waxy starches with different molecular structures. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 85, no., pp. 248-256., Registrované v: WOS

7. [1.2] XIE, Mengxi - ZHU, Minpeng - XIAO, Zhigang - REN, Haibin - ZHUO, Zhao - LIU, Chunjing. Properties of Hexadecyl Carboxymethyl Starch derivates by Extrusion. In *Journal of the Chinese Cereals and Oils Association*. ISSN 10030174, 2017-05-25, 32, 5, pp. 75-81., Registrované v: SCOPUS

ADCA253 ČURILLOVÁ, Z. - KUTSCHY, P. - SOLČÁNIOVÁ, E. - PILÁTOVÁ, M. - MOJŽIŠ, J. - KOVÁČIK, Vladimír. Synthesis and antiproliferative activity of 1-methoxy-, 1-(alfa-D-ribofuranosyl)-and 1-(beta-D-ribofuranosyl)brassenin B. In *ARKIVOC*, 2008, vol. 2008, part viii, p. 85-104. ISSN 1424-6376.

Ohlasy:

1. [1.1] ALVAREZ, Raquel - GAJATE, Consuelo - PUEBLA, Pilar - MOLLINEDO, Faustino - MEDARDE, Manuel - PELAEZ, Rafael. Substitution at the indole 3 position yields highly potent indolecombretastatins against human

tumor cells. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2018, vol. 158, no., pp. 167-183., Registrované v: WOS

ADCA254 DAMBORSKÁ, Dominika - KASÁK, Peter - KUBÁNIKOVÁ, Petra - SOKOL, Roman - TKÁČ, Ján. Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. In *Analytica Chimica Acta*, 2016, vol. 934, p. 72-79. (2015: 4.712 - IF, Q1 - JCR, 1.469 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2016.06.043>

Ohlasy:

1. [1.1] BHARTI, Anu - RANA, Shilpa - PRABHAKAR, Nirmal. Electrochemical Nanobiosensors for Cancer Diagnosis. In BIOSENSORS: MATERIALS AND APPLICATIONS. ISSN 2471-8890, 2019, vol. 47, no., pp. 157-210., Registrované v: WOS
2. [1.1] CLARK, David J. - SCHNAUBELT, Michael - HOTI, Naseruddin - HU, Yingwei - ZHOU, Yangying - GOOYA, Mahta - ZHANG, Hui. Impact of Increased FUT8 Expression on the Extracellular Vesicle Proteome in Prostate Cancer Cells. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2020, vol. 19, no. 6, pp. 2195-2205. Dostupné na: <https://doi.org/10.1021/acs.jproteome.9b00578>., Registrované v: WOS
3. [1.1] HAGA, Yoshimi - UEMURA, Motohide - BABA, Satoko - INAMURA, Kentaro - TAKEUCHI, Kengo - NONOMURA, Norio - UEDA, Koji. Identification of Multisialylated LacdiNAc Structures as Highly Prostate Cancer Specific Glycan Signatures on PSA. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 3, pp. 2247-2254., Registrované v: WOS
4. [1.1] HOLST, Stephanie - ABU BAKAR, Nurulamin - VAN SCHERPENZEEL, Monique - WUHRER, Manfred - LEFEBER, Dirk J. Glycomics as an Innovative Approach for Personalized Medicine. In HANDBOOK OF BIOMARKERS AND PRECISION MEDICINE, 2019, vol., no., pp. 394-404., Registrované v: WOS
5. [1.1] CHEN, Na - RONG, Ming - SHAO, Xiaoguang - ZHANG, Heng - LIU, Shupeng - DONG, Baijun - XUE, Wei - WANG, Tingyun - LI, Taihao - PAN, Jiahua. Surface-enhanced Raman spectroscopy of serum accurately detects prostate cancer in patients with prostate-specific antigen levels of 4-10 ng/mL. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2017, vol. 12, no., pp. 5399-5407., Registrované v: WOS
6. [1.1] CHEN, Shaoyun - LIANG, Hairong - YANG, Hui - ZHOU, Kairu - XU, Longmei - LIU, Jiaxian - LAI, Bei - SONG, Li - LUO, Hao - PENG, Jianming - LIU, Zhidong - XIAO, Yongmei - CHEN, Wen - TANG, Huanwen. LincRNA-p21: function and mechanism in cancer. In MEDICAL ONCOLOGY. ISSN 1357-0560, 2017, vol. 34, no. 5, pp., Registrované v: WOS
7. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis. In CHEMPLUSCHEM. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>., Registrované v: WOS
8. [1.1] LENYK, Bohdan - FIGUEROA-MIRANDA, Gabriela - PAVLUSHKO, Ivan - LO, Young - TANNER, Julian A. - OFFENHAEUSSER, Andreas - MAYER, Dirk. Dual-Transducer Malaria Aptasensor Combining

- Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays. In CHEMELECTROCHEM. ISSN 2196-0216, 2020, vol. 7, no. 22, pp. 4594-4600. Dostupné na: <https://doi.org/10.1002/celc.202001212>., Registrované v: WOS
9. [1.1] LIANG JUN-YU - TONG PEI-HONG - LI JIAN-PING. Research and Application of Glycoprotein Sensors Based on Glycosyl Recognition. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2019, vol. 47, no. 9, pp. 1283-1292., Registrované v: WOS
10. [1.1] LI, Fenjie - DING, Junjun. Sialylation is involved in cell fate decision during development, reprogramming and cancer progression. In PROTEIN & CELL. ISSN 1674-800X, 2019, vol. 10, no. 8, pp. 550-565., Registrované v: WOS
11. [1.1] LI, R. J. Eveline - VAN VLIET, Sandra J. - VAN KOOYK, Y. Using the glycan toolbox for pathogenic interventions and glycan immunotherapy. In CURRENT OPINION IN BIOTECHNOLOGY. ISSN 0958-1669, 2018, vol. 51, no., pp. 24-31., Registrované v: WOS
12. [1.1] LUBBERS, Joyce - RODRIGUEZ, Ernesto - VAN KOOYK, Yvette. Modulation of Immune Tolerance via Siglec-Sialic Acid Interactions. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
13. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS
14. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS
15. [1.1] POTHIPOR, Chammari - WIRIYAKUN, Natta - PUTNIN, Thitirat - NGAMAROONCHOTE, Aroonsri - JAKMUNEE, Jaroon - OUNNUNKAD, Kontad - LAOCHAROENSUK, Rawiwan - AROONYADET, Noppadol. Highly sensitive biosensor based on graphene-poly (3-aminobenzoic acid) modified electrodes and porous-hollowed-silver-gold nanoparticle labelling for prostate cancer detection. In SENSORS AND ACTUATORS B-CHEMICAL, 2019, vol. 296, no., pp., Registrované v: WOS
16. [1.1] RAMACHANDRAN, Bini - YANG, Charles T. - DOWNS, Melanie L. Parallel Reaction Monitoring Mass Spectrometry Method for Detection of Both Casein and Whey Milk Allergens from a Baked Food Matrix. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2020, vol. 19, no. 8, pp. 2964-2976. Dostupné na: <https://doi.org/10.1021/acs.jproteome.9b00844>., Registrované v: WOS
17. [1.1] SHIPMAN, Joshua T. - NGUYEN, Hanna T. - DESAIRE, Heather. So You Discovered a Potential Glycan-Based Biomarker; Now What? We Developed a High-Throughput Method for Quantitative Clinical Glycan Biomarker Validation. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 12, pp. 6270-6276. Dostupné na: <https://doi.org/10.1021/acsomega.9b03334>., Registrované v: WOS
18. [1.1] SHI, Huan - ZHANG, Bibo - LIU, Shuwen - TAN, Chunyan -

- TAN, Ying - JIANG, Yuyang. A New Strategy Involving the Use of Peptides and Graphene Oxide for Fluorescence Turn-on Detection of Proteins. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 2, pp., Registrované v: WOS
19. [1.1] SILSIRIVANIT, Atit. Glycosylation markers in cancer. In *ADVANCES IN CLINICAL CHEMISTRY*, VOL 89. ISSN 0065-2423, 2019, vol. 89, no., pp. 189-213., Registrované v: WOS
20. [1.1] TRAYNOR, Sarah M. - WANG, Guan A. - PANDEY, Richa - LI, Feng - SOLEYMANI, Leyla. Dynamic Bio-Barcode Assay Enables Electrochemical Detection of a Cancer Biomarker in Undiluted Human Plasma: A Sample-In-Answer-Out Approach. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2020, vol. 59, no. 50, pp. 22617-22622. Dostupné na: <https://doi.org/10.1002/anie.202009664>., Registrované v: WOS
21. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS
22. [1.1] TREFULKA, Mojmir - CERNOCKA, Hana - FOJT, Lukas - PALECEK, Emil - OSTATNA, Veronika. Distinguishing the glycan isomers 2,3-sialyllactose and 2,6-sialyllactose by voltammetry after modification with osmium(VI) complexes. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1067, no., pp. 56-62., Registrované v: WOS
23. [1.1] WATTANAVISES, Sasiprapa - SILSIRIVANIT, Atit - SAWANYAWISUTH, Kanlayanee - CHA'ON, Ubon - WARAASAWAPATI, Sakda - SAENTAWESUK, Waraporn - LUANG, Sukanya - CHALERMWAT, Chalongchai - WONGKHAM, Chaisiri - WONGKHAM, Sopit. Increase of MAL-II Binding Alpha2,3-Sialylated Glycan Is Associated with 5-FU Resistance and Short Survival of Cholangiocarcinoma Patients. In *MEDICINA-LITHUANIA*. ISSN 1010-660X, 2019, vol. 55, no. 12, pp., Registrované v: WOS
24. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
25. [1.1] XIONG YINGYING - CHEN YUNLONG - JU HUANGXIAN. Glycan Analysis in Cellular Secretion. In *ACTA CHIMICA SINICA*. ISSN 0567-7351, 2019, vol. 77, no. 12, pp. 1221-1229., Registrované v: WOS
26. [1.1] ZHANG, Zejian - WUHRER, Manfred - HOLST, Stephanie. Serum sialylation changes in cancer. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2018, vol. 35, no. 2, pp. 139-160., Registrované v: WOS

ADCA255 DAMBORSKÁ, Dominika - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - HOLAZOVÁ, Alena - LORENCOVÁ, Lenka - KASÁK, Peter - TKÁČ, Ján. Nanomaterial-based biosensors for detection of prostate specific antigen. In *Microchimica Acta*, 2017, vol. 184, p. 3049-3067. (2016: 4.580 - IF, Q1 - JCR, 1.111 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-017-2410-1>

Ohlasy:

1. [1.1] ASSARI, Parnaz - RAFATI, Amir Abbas - FEIZOLLAHI, Azizallah - JOGHANI, Roghayeh Asadpour. An electrochemical immunosensor for the prostate specific antigen based on the use of reduced graphene oxide decorated with gold nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 7, pp., Registrované v: WOS
2. [1.1] DAI, Yuxue - WANG, Xueying - ZHU, Xiaodong - LIU, Hao - WANG, Pengfei - WANG, Ximei - ZHANG, Shaohua - SUN, Yuanling - GAO, Dandan - HAN, Rui - LUO, Chuannan. Electrochemical assays for determination of H₂O₂ and prostate-specific antigen based on a nanocomposite consisting of CeO₂ nanoparticle-decorated MnO₂ nanospheres. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04403-7>, Registrované v: WOS
3. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noerni - FERNANDEZ RODRIGUEZ, Eloy - JESUS LOBO-CASTANON, Maria. Focusing aptamer selection on the glycan structure of prostate-specific antigen: Toward more specific detection of prostate cancer. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 128, no., pp. 83-90., Registrované v: WOS
4. [1.1] DORCAK, Vlastimil - TREFULKA, Mojmir - PALECEK, Emil. A Preliminary Study of Os(VI)-Binding Specificity to Glycopeptide and Peptide. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXVIII, 2018, vol., no., pp. 35-38., Registrované v: WOS
5. [1.1] FATTAHI, Zahra - KHOSROUSHAHI, Ahmad Yari - HASANZADEH, Mohammad. Recent progress on developing of plasmon biosensing of tumor biomarkers: Efficient method towards early stage recognition of cancer. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110850>, Registrované v: WOS
6. [1.1] FENG, Zhu - ZHI, Shaotao - GUO, Lei - ZHOU, Yong - LEI, Chong. An integrated magnetic microfluidic chip for rapid immunodetection of the prostate specific antigen using immunomagnetic beads. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 4, pp., Registrované v: WOS
7. [1.1] GHOSH, Shyamasree. Nanomaterials safety and health hazard. In NANOMATERIALS SAFETY: TOXICITY AND HEALTH HAZARDS, 2019, vol., no., pp. 1-41., Registrované v: WOS
8. [1.1] GU, Deqiang - ZHANG, Quansuo - GUO, Jingyang - MA, Tao - LI, Hongmei - JI, Juan - GOPINATH, Subash C. B. - LAKSHMIPRIYA, Thangavel - LI, Song - SHEN, Dan. Gold Nanomaterial Hybrid on PEGylated Metal Oxide Interdigitated Mini-electrode Surface to Diagnose Prostate Cancer. In NANO. ISSN 1793-2920, 2020, vol. 15, no. 12, pp. Dostupné na: <https://doi.org/10.1142/S1793292020501544>, Registrované v: WOS
9. [1.1] CHEN, Mingjian - MA, Changbei - YAN, Ying - ZHAO, Han. A label-free fluorescence method based on terminal deoxynucleotidyl transferase and thioflavin T for detecting prostate-specific antigen. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 22, pp. 5779-5784., Registrované v: WOS
10. [1.1] CHEN, Mingjian - TANG, Zhenwei - MA, Changbei - YAN, Ying. A fluorometric aptamer based assay for prostate specific antigen based on

- enzyme-assisted target recycling. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 302, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2019.127178>., Registrované v: WOS
11. [1.1] CHEN, Ying - GUO, Xiaoyan - LIU, Wei - ZHANG, Liu. Paper-based fluorometric immunodevice with quantum-dot labeled antibodies for simultaneous detection of carcinoembryonic antigen and prostate specific antigen. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2019, vol. 186, no. 2, pp., Registrované v: WOS
12. [1.1] CHUAH, Kyloon - WU, Yanfang - VIVEKCHAND, S. R. C. - GAUS, Katharina - REECE, Peter J. - MICOLICH, Adam P. - GOODING, J. Justin. Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2019, vol. 10, no., pp., Registrované v: WOS
13. [1.1] KARIMIPOUR, Masoud - HEYDARI-BAFROOEI, Esmaeil - SANJARI, Mahjubah - JOHANSSON, Malin B. - MOLAEI, Mehdi. A glassy carbon electrode modified with TiO₂(200)-rGO hybrid nanosheets for aptamer based impedimetric determination of the prostate specific antigen. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2019, vol. 186, no. 1, pp., Registrované v: WOS
14. [1.1] KAVOSI, Begard - NAVAEE, Aso - SALIMI, Abdollah. Amplified fluorescence resonance energy transfer sensing of prostate specific antigen based on aggregation of CdTe QDs/antibody and aptamer decorated of AuNPs-PAMAM dendrimer. In *JOURNAL OF LUMINESCENCE*. ISSN 0022-2313, 2018, vol. 204, no., pp. 368-374., Registrované v: WOS
15. [1.1] KWAK, Jiwon - LEE, Soo Suk. Sensitivity and reproducibility improvements in a human plasma immunoassay with removal of clotting factors. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2019, vol. 585, no., pp., Registrované v: WOS
16. [1.1] LAI, Huasheng - XU, Fugang - WANG, Li. A review of the preparation and application of magnetic nanoparticles for surface-enhanced Raman scattering. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, 2018, vol. 53, no. 12, pp. 8677-8698., Registrované v: WOS
17. [1.1] LIU, Guangxing - ZHANG, Tian - TANG, Yuguang - MIAO, Peng. An ultrasensitive aptasensor for prostate specific antigen assay based on Exonuclease T-aided cyclic cleavage. In *SCIENCE CHINA-CHEMISTRY*. ISSN 1674-7291, 2018, vol. 61, no. 4, pp. 393-396., Registrované v: WOS
18. [1.1] LIU, Juanjuan - JALALI, Mahsa - MAHSHID, Sara - WACHSMANN-HOGIU, Sebastian. Are plasmonic optical biosensors ready for use in point-of-need applications? In *ANALYST*. ISSN 0003-2654, 2020, vol. 145, no. 2, pp. 364-384. Dostupné na: <https://doi.org/10.1039/c9an02149c>., Registrované v: WOS
19. [1.1] LI, Jingyuan - YAO, Min - SHAO, Yixiang - YAO, Dengfu. The application of bio-nanotechnology in tumor diagnosis and treatment: a view. In *NANOTECHNOLOGY REVIEWS*. ISSN 2191-9089, 2018, vol. 7, no. 3, pp. 257-266., Registrované v: WOS
20. [1.1] LI, Xiaomeng - KONG, Weisu - QIN, Xia - QU, Fengli - LU, Limin. Self-powered cathodic photoelectrochemical aptasensor based on in situ-synthesized CuO-Cu₂O nanowire array for detecting prostate-specific antigen. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 6, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04277-9>., Registrované v:

WOS

21. [1.1] MENG, Wenwen - ZHANG, Wenjuan - ZHANG, JunJun - CHEN, Xi - ZHANG, Yuzhong. An electrochemical immunosensor for prostate specific antigen using nitrogen-doped graphene as a sensing platform. In ANALYTICAL METHODS. ISSN 1759-9660, 2019, vol. 11, no. 16, pp. 2183-2189., Registrované v: WOS
22. [1.1] ORTIZ-RIANO, Edwin J. - AVILA-HUERTA, Mariana D. - MANCERA-ZAPATA, Diana L. - MORALES-NARVAEZ, Eden. Microwell plates coated with graphene oxide enable advantageous real-time immunosensing platform. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112319>., Registrované v: WOS
23. [1.1] PARRA, Joao P. R. L. L. - CRULHAS, Bruno P. - BASSO, Caroline R. - DELELLA, Flavia K. - CASTRO, Gustavo R. - PEDROSA, Valber A. Using an Electrochemical Aptasensor to Early Detect Prostate Specific and Free Prostate Specific Antigens Released by Cancer Cells. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2869-2877., Registrované v: WOS
24. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. In FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>., Registrované v: WOS
25. [1.1] POTHIPOR, Chammari - WIRIYAKUN, Natta - PUTNIN, Thitirat - NGAMAROONCHOTE, Aroonsri - JAKMUNEE, Jaroon - OUNNUNKAD, Kontad - LAOCHAROENSUK, Rawiwan - AROONYADET, Noppadol. Highly sensitive biosensor based on graphene-poly (3-aminobenzoic acid) modified electrodes and porous-hollowed-silver-gold nanoparticle labelling for prostate cancer detection. In SENSORS AND ACTUATORS B-CHEMICAL, 2019, vol. 296, no., pp., Registrované v: WOS
26. [1.1] REDDY, K. Koteswara - BANDAL, Harshad - SATYANARAYANA, Moru - GOUD, Kotagiri Yugender - GOBI, Kauveri Vengatajalabathy - JAYARAMUDU, Tippabattini - AMALRAJ, John - KIM, Hern. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In ADVANCED SCIENCE, 2020, vol. 7, no. 13, pp. Dostupné na: <https://doi.org/10.1002/advs.201902980>., Registrované v: WOS
27. [1.1] SHIN, Joonchul - CHAKRAVARTY, Sudesna - CHOI, Wooseok - LEE, Kyungyeon - HAN, Dongsik - HWANG, Hyundoo - CHOI, Jaekyu - JUNG, Hyo-Il. Mobile diagnostics: next-generation technologies for in vitro diagnostics. In ANALYST. ISSN 0003-2654, 2018, vol. 143, no. 7, pp. 1515-1525., Registrované v: WOS
28. [1.1] SHOAIE, Nahid - DANESHPOUR, Maryam - AZIMZADEH, Mostafa - MAHSHID, Sara - KHOSHFETRAT, Seyyed Mehdi - JAHANPEYMA, Fatemeh - GHOLAMINEJAD, Alieh - OMIDFAR, Kobra - FORUZANDEH, Mehdi. Electrochemical sensors and biosensors based on the use of polyaniline and its nanocomposites: a review on recent advances. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 7, pp., Registrované v: WOS
29. [1.1] SINGH, Sima - GILL, Atal A. S. - NLOOTO, Manimbulu -

KARPOORMATH, Rajshekhar. Prostate cancer biomarkers detection using nanoparticles based electrochemical biosensors. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 137, no., pp. 213-221., Registrované v: WOS

30. [1.1] SUN, Ting - XIA, Ning - YUAN, Fang - LIU, Xiaoman - CHANG, Yong - LIU, Shudi - LIU, Lin. A colorimetric method for determination of the prostate specific antigen based on enzyme-free cascaded signal amplification via peptide-copper(II) nanoparticles. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4074-5>., Registrované v: WOS

31. [1.1] SUN, Ting - ZHANG, Yintang - ZHAO, Feng - XIA, Ning - LIU, Lin. Self-assembled biotin-phenylalanine nanoparticles for the signal amplification of surface plasmon resonance biosensors. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04461-x>., Registrované v: WOS

32. [1.1] XIA, Ning - HUANG, Yaliang - ZHAO, Yize - WANG, Fanglin - LIU, Lin - SUN, Zhifang. Electrochemical biosensors by in situ dissolution of self-assembled nanolabels into small monomers on electrode surface. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 325, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128777>., Registrované v: WOS

33. [1.1] ZHANG, Guojuan - LIU, Zhiguang - FAN, Lifang - GUO, Yujing. Electrochemical prostate specific antigen aptasensor based on hemin functionalized graphene-conjugated palladium nanocomposites. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2018, vol. 185, no. 3, pp., Registrované v: WOS

34. [1.2] GHOSH, Shyamasree. Nanomaterials safety: Toxicity and health hazards. In *Nanomaterials Safety: Toxicity and Health Hazards*, 2018-01-01, pp. 1-274., Registrované v: SCOPUS

ADCA256 DAMBORSKÁ, Dominika - BELICKÝ, Štefan - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. In *Analyst*, 2016, vol. 141, p. 1044-1051. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c5an02322j>

Ohlasy:

1. [1.1] ARYA, Sunil K. - ESTRELA, Pedro. Electrochemical immunosensor for tumor necrosis factor-alpha detection in undiluted serum. In *METHODS*. ISSN 1046-2023, 2017, vol. 116, no., pp. 125-131., Registrované v: WOS

2. [1.1] AYDIN, Elif Burcu - AYDIN, Muhammet - SEZGINTURK, Mustafa Kemal. Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 beta in human serum and saliva. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 270, no., pp. 18-27., Registrované v: WOS

3. [1.1] BHARTI, Anu - RANA, Shilpa - PRABHAKAR, Nirmal. Electrochemical Nanobiosensors for Cancer Diagnosis. In *BIOSENSORS: MATERIALS AND APPLICATIONS*. ISSN 2471-8890, 2019, vol. 47, no., pp. 157-210., Registrované v: WOS

4. [1.1] DAMBORSKY, Pavel - KOCZULA, Katarzyna M. - GALLOTTA, Andrea - KATRLIK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In ANALYST. ISSN 0003-2654, 2016, vol. 141, no. 23, pp. 6444-6448., Registrované v: WOS
5. [1.1] DAMBORSKY, Pavel - ZAMOROVA, Martina - KATRLIK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In PROTEOMICS. ISSN 1615-9853, 2016, vol. 16, no. 24, pp. 3096-3104., Registrované v: WOS
6. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noerni - FERNANDEZ RODRIGUEZ, Eloy - JESUS LOBO-CASTANON, Maria. Focusing aptamer selection on the glycan structure of prostate-specific antigen: Toward more specific detection of prostate cancer. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 128, no., pp. 83-90., Registrované v: WOS
7. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS
8. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS
9. [1.1] SHARIFI, Majid - AVADI, Mohammad Reza - ATTAR, Farnoosh - DASHTESTANI, Fariba - GHORCHIAN, Hedayatollah - REZAYAT, Seyed Mahdi - SABOURY, Ali Akbar - FALAHATI, Mojtaba. Cancer diagnosis using nanomaterials based electrochemical nanobiosensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 773-784., Registrované v: WOS
10. [1.1] SHARMA, Shikha - ZAPATERO-RODRIGUEZ, Julia - O'KENNEDY, Richard. Prostate cancer diagnostics: Clinical challenges and the ongoing need for disruptive and effective diagnostic tools. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 2, pp. 135-149., Registrované v: WOS
11. [1.1] SINGH, Sima - GILL, Atal A. S. - NLOOTO, Manimbulu - KARPOORMATH, Rajshekhar. Prostate cancer biomarkers detection using nanoparticles based electrochemical biosensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 137, no., pp. 213-221., Registrované v: WOS
12. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrode. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS
13. [1.2] CHAKRABORTY, Avishek - TIBAREWALA, Dewaki Nandan - BARUI, Ananya. Impedance-based biosensors. In Bioelectronics and Medical Devices: From Materials to Devices Fabrication, Applications and Reliability, 2019-01-01, pp. 97-122., Registrované v: SCOPUS

ADCA257 DAMBORSKÁ, Dominika - PAKANOVA, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In *Proteomics*, 2016, vol. 16, p. 3085-3095. (2015: 4.079 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1615-9853. Dostupné na: <https://doi.org/10.1002/pmic.201500463>

Ohlasy:

1. [1.1] BELICKA, Ludmila. Introduction to Glycomics and Glycan Analysis. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 33-64., Registrované v: WOS
2. [1.1] BHARTI, Anu - RANA, Shilpa - PRABHAKAR, Nirmal. Electrochemical Nanobiosensors for Cancer Diagnosis. In *BIOSENSORS: MATERIALS AND APPLICATIONS*. ISSN 2471-8890, 2019, vol. 47, no., pp. 157-210., Registrované v: WOS
3. [1.1] COULIBALY, Fohona S. - YOUAN, Bi-Botti C. Current status of lectin-based cancer diagnosis and therapy. In *AIMS MOLECULAR SCIENCE*. ISSN 2372-0301, 2017, vol. 4, no. 1, pp. 1-27., Registrované v: WOS
4. [1.1] DAMBORSKY, Pavel - KOCZULA, Katarzyna M. - GALLOTTA, Andrea - KATRLIK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In *ANALYST*. ISSN 0003-2654, 2016, vol. 141, no. 23, pp. 6444-6448., Registrované v: WOS
5. [1.1] DOS SANTOS SILVA, Priscila Marcelino - SALES ALBUQUERQUE, Priscilla Barbosa - DE OLIVEIRA, Wesley Felix - BREITENBACH BARROSO COELHO, Luana Cassandra - DOS SANTOS CORREIA, Maria Tereza. Glycosylation products in prostate diseases. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2019, vol. 498, no., pp. 52-61., Registrované v: WOS
6. [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
7. [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
8. [1.1] HOSNEDLOVA, Bozena - KEPINSKA, Marta - RUTTKAY-NEDECKY, Branislav - FERNANDEZ, Carlos - PARAK, Tomas - MILNEROWICZ, Halina - SOCHOR, Jiri - BJORKLUND, Geir - KIZEK, Rene. Matrix Assisted Laser Desorption/Ionization as a New Cancer Diagnostic Tool.

- In *ENCYCLOPEDIA OF BIOMEDICAL ENGINEERING*, VOL 3, 2019, vol., no., pp. 400-414., Registrované v: WOS
9. [1.1] LI, Faying - LI, Yueyun - FENG, Jinhui - DONG, Yunhui - WANG, Ping - CHEN, Lei - CHEN, Zhiwei - LIU, Hui - WEI, Qin. Ultrasensitive amperometric immunosensor for PSA detection based on Cu₂O@CeO₂-Au nanocomposites as integrated triple signal amplification strategy. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 87, no., pp. 630-637., Registrované v: WOS
 10. [1.1] MISHRA, Abtar - BEHURA, Assirbad - MAWATWAL, Shradha - KUMAR, Ashish - NAIK, Lincoln - MOHANTY, Subhashree Subhasmita - MANNA, Debraj - DOKANIA, Puja - MISHRA, Amit - PATRA, Samir K. - DHIMAN, Rohan. Structure-function and application of plant lectins in disease biology and immunity. In *FOOD AND CHEMICAL TOXICOLOGY*. ISSN 0278-6915, 2019, vol. 134, no., pp., Registrované v: WOS
 11. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
 12. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In *ADVANCES IN CLINICAL CHEMISTRY*, VOL 93. ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS
 13. [1.1] UHLIROVA, Dagmar - STANKOVA, Martina - DOCEKALOVA, Michaela - HOSNEDLOVA, Bozena - KEPINSKA, Marta - RUTTKAY-NEDECKY, Branislav - RUZICKA, Josef - FERNANDEZ, Carlos - MILNEROWICZ, Halina - KIZEK, Rene. A Rapid Method for the Detection of Sarcosine Using SPIONs/Au/CS/SOX/NPs for Prostate Cancer Sensing. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS

ADCA258 DAMBORSKÝ, Pavel - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In *Proteomics*, 2016, vol. 16, p. 3096-3104. (2015: 4.079 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1615-9853. Dostupné na: <https://doi.org/10.1002/pmic.201500466>

Ohlasy:

1. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noerni - FERNANDEZ RODRIGUEZ, Eloy - JESUS LOBO-CASTANON, Maria. Focusing aptamer selection on the glycan structure of prostate-specific antigen: Toward more specific detection of prostate cancer. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 128, no., pp. 83-90., Registrované v: WOS
2. [1.1] GORODKIEWICZ, Ewa - LUKASZEWSKI, Zenon. Recent Progress in Surface Plasmon Resonance Biosensors (2016 to Mid-2018). In *BIOSENSORS-BASEL*. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
3. [1.1] HAGA, Yoshimi - UEMURA, Motohide - BABA, Satoko - INAMURA, Kentaro - TAKEUCHI, Kengo - NONOMURA, Norio - UEDA, Koji. Identification of Multisialylated LacdiNAc Structures as Highly Prostate Cancer Specific Glycan Signatures on PSA. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2019, vol. 91, no. 3, pp. 2247-2254., Registrované v: WOS

4. [1.1] LIU, Li - ZHAO, Guanhui - DONG, Xue - LI, Xuan - WEI, Qin - CAO, Wei. An electrochemical immunosensor based on a multiple signal amplification strategy for highly sensitive detection of prostate specific antigen. In ANALYTICAL METHODS. ISSN 1759-9660, 2018, vol. 10, no. 40, pp. 4917-4925., Registrované v: WOS
5. [1.1] WANG, Wei - SORIANO, Brian - CHEN, Qing. Glycan profiling of proteins using lectin binding by Surface Plasmon Resonance. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2017, vol. 538, no., pp. 53-63., Registrované v: WOS

ADCA259 DAMBORSKÝ, Pavel - KOCZULA, Katarzyna M. - GALLOTA, Andrea - KATRLÍK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In *Analyst*, 2016, vol. 141, p. 6444-6448. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c6an01746k>

Ohlasy:

1. [1.1] BAKER, Alexander N. - RICHARDS, Sarah-Jane - GUY, Collette S. - CONGDON, Thomas R. - HASAN, Muhammad - ZWETSLOOT, Alexander J. - GALLO, Angelo - LEWANDOWSKI, Jozef R. - STANSFELD, Phillip J. - STRAUBE, Anne - WALKER, Marc - CHESSA, Simona - PERGOLIZZI, Giulia - DEDOLA, Simone - FIELD, Robert A. - GIBSON, Matthew. The SARS-COV-2 Spike Protein Binds Sialic Acids and Enables Rapid Detection in a Lateral Flow Point of Care Diagnostic Device. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2020, vol. 6, no. 11, pp. 2046-2052. Dostupné na: <https://doi.org/10.1021/acscentsci.0c00855>., Registrované v: WOS
2. [1.1] BAKER, Alexander - RICHARDS, Sarah-Jane - CONGDON, Thomas - HASAN, Muhammad - GUY, Collette - ZWETSLOOT, Alexander - GALLO, Angelo - LEWANDOWSKI, Jozef - STANSFELD, Phillip - STRAUBE, Anne - WALKER, Marc - CHESSA, Simona - PERGOLIZZI, Giulia - DEDOLA, Simone - FIELD, Robert - GIBSON, Matthew. The SARS-COV-2 Spike Protein Binds Sialic Acids, and Enables Rapid Detection in a Lateral Flow Point of Care Diagnostic Device (vol 6, pg 2046, 2020). In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2021, vol. 7, no. 2, pp. 379-380. Dostupné na: <https://doi.org/10.1021/acscentsci.1c00027>., Registrované v: WOS
3. [1.1] CALABRETTA, Maria Maddalena - ZANGHERI, Martina - LOPRESIDE, Antonia - MARCHEGANI, Elisa - MONTALI, Laura - SIMONI, Patrizia - RODA, Aldo. Precision medicine, bioanalytics and nanomaterials: toward a new generation of personalized portable diagnostics. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 8, pp. 2841-2853. Dostupné na: <https://doi.org/10.1039/c9an02041a>., Registrované v: WOS
4. [1.1] HENDERSON, Wendy A. - XIANG, Lichen - FOURIE, Nicolaas H. - ABEY, Sarah K. - FERGUSON, Eric G. - DIALLO, Ana F. - KENEA, Natnael D. - KIM, Chang Hee. Simple lateral flow assays for microbial detection in stool. In ANALYTICAL METHODS. ISSN 1759-9660, 2018, vol. 10, no. 45, pp. 5358-5363., Registrované v: WOS
5. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
6. [1.1] KUSWANDI, Bambang - ENSAFI, Ali A. Paper-Based

Biosensors: Trending Topic in Clinical Diagnostics Developments and Commercialization. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 1, pp., Registrované v: WOS

7. [1.1] MAHATO, Kuldeep - SRIVASTAVA, Ananya - CHANDRA, Pranjali. Paper based diagnostics for personalized health care: Emerging technologies and commercial aspects. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 96, no., pp. 246-259., Registrované v: WOS

8. [1.1] XIONG, Yingying - CHEN, Yunlong - DING, Lin - LIU, Xiaoqiang - JU, Huangxian. Fluorescent visual quantitation of cell-secreted sialoglycoconjugates by chemoselective recognition and hybridization chain reaction. In ANALYST. ISSN 0003-2654, 2019, vol. 144, no. 15, pp. 4545-4551., Registrované v: WOS

9. [1.1] ZHANG, Zhiming - SHIKHA, Swati - LIU, Jinliang - ZHANG, Jing - MEI, Qingsong - ZHANG, Yong. Upconversion Nanoprobes: Recent Advances in Sensing Applications. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 1, pp. 548-568., Registrované v: WOS

10. [1.2] MAHATO, Kuldeep - PUROHIT, Buddhadev - KUMAR, Ashutosh - CHANDRA, Pranjali. Paper-based biosensors for clinical and biomedical applications: Emerging engineering concepts and challenges. In Comprehensive Analytical Chemistry. ISSN 0166526X, 2020-01-01, 89, pp. 163-188. Dostupné na: <https://doi.org/10.1016/bs.coac.2020.02.001>., Registrované v: SCOPUS

ADCA260 DANKO, Martin - KRONEKOVÁ, Zuzana - MRLÍK, Miroslav - OSICKA, Josef - YOUSAF, Ammar bin - MIHÁLOVÁ, Andrea - TKÁČ, Ján - KASÁK, Peter*. Sulfobetaines meet carboxybetaines: Modulation of thermo- and ion-responsivity, water structure, mechanical properties, and cell adhesion. In *Langmuir*, 2019, vol. 35, no. 5, p. 1391-1403. (2018: 3.683 - IF, Q2 - JCR, 1.209 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.8b01592>

Ohlasy:

1. [1.1] BANSAL, K.K. - UPADHYAY, P.K. - SARAOGI, G.K. - ROSLING, A. - ROSENHOLM, J.M. Advances in thermo-responsive polymers exhibiting upper critical solution temperature (UCST). In EXPRESS POLYMER LETTERS. ISSN 1788-618X, NOV 2019, vol. 13, no. 11, p. 974-992., Registrované v: WOS
2. [1.1] ERFANI, A. - SEABERG, J. - AICHELE, C.P. - RAMSEY, J.D. Interactions between Biomolecules and Zwitterionic Moieties: A Review. In BIOMACROMOLECULES. ISSN 1525-7797, JUL 2020, vol. 21, no. 7, p. 2557-2573., Registrované v: WOS
3. [1.1] ISHIHARA, K. - ITO, M. - FUKAZAWA, K. - INOUE, Y. Interface of Phospholipid Polymer Grafting Layers to Analyze Functions of Immobilized Oligopeptides Involved in Cell Adhesion. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JUL 2020, vol. 6, no. 7, p. 3984-3993., Registrované v: WOS
4. [1.1] ISHIHARA, K. - ODA, H. - KONNO, T. Spontaneously and reversibly forming phospholipid polymer hydrogels as a matrix for cell engineering. In BIOMATERIALS. ISSN 0142-9612, FEB 2020, vol. 230., Registrované v: WOS
5. [1.1] TAIPALEENMAKI, E. - BRODSZKIJ, E. - STADLER, B.

Mucopenetrating Zwitterionic Micelles. In CHEMNANOMAT. ISSN 2199-692X, MAY 2020, vol. 6, no. 5, p. 744-750., Registrované v: WOS
 6. [1.1] YANG, B.W. - YUAN, W.Z. Highly Stretchable, Adhesive, and Mechanical Zwitterionic Nanocomposite Hydrogel Biomimetic Skin. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, OCT 30 2019, vol. 11, no. 43, p. 40620-40628., Registrované v: WOS

ADCA261 DAVIS, Jason J. - TKÁČ, Ján - HUMPHREYS, Rachel - BUXTON, Anthony T. - FERRINGO, Paul Ko - LEE, Tracy A. Peptide aptamers in label-free protein detection: 2. chemical optimization and detection of distinct protein isoforms. Rachel Humphreys, Anthony T. Buxton, Tracy A. Lee, Paul Ko Ferringo. In *Analytical Chemistry*, 2009, vol.81, p.3314-3320. (2008: 5.712 - IF, Q1 - JCR, 2.608 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac802513n>

Ohlasy:

1. [1.1] BADDOUR, Carole Emilie - DAS, Kaushik - VENGALLATORE, Srikar - MEUNIER, Jean-Luc. Production and characterization of a novel carbon nanotube/titanium nitride nanocomposite. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2016, vol. 3, no. 12, pp., Registrované v: WOS
2. [1.1] BERTO, Marcello - DIACCI, Chiara - D'AGATA, Roberta - PINTI, Marcello - BIANCHINI, Elena - DI LAURO, Michele - CASALINI, Stefano - COSSARIZZA, Andrea - BERGGREN, Magnus - SIMON, Daniel - SPOTO, Giuseppe - BISCARINI, Fabio - BORTOLOTTI, Carlo A. EGOFET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. In ADVANCED BIOSYSTEMS. ISSN 2366-7478, 2018, vol. 2, no. 2, pp., Registrované v: WOS
3. [1.1] DIACCI, Chiara - BERTO, Marcello - DI LAURO, Michele - BIANCHINI, Elena - PINTI, Marcello - SIMON, Daniel T. - BISCARINI, Fabio - BORTOLOTTI, Carlo A. Label-free detection of interleukin-6 using electrolyte gated organic field effect transistors. In BIOINTERPHASES. ISSN 1934-8630, 2017, vol. 12, no. 5, pp., Registrované v: WOS
4. [1.1] HU, Ping Ping - LIU, Hui - ZHAN, Lei - ZHENG, Lin Ling - HUANG, Cheng Zhi. Coomassie brilliant blue R-250 as a new surface-enhanced Raman scattering probe for prion protein through a dual-aptamer mechanism. In TALANTA. ISSN 0039-9140, 2015, vol. 139, no., pp. 35-39., Registrované v: WOS
5. [1.1] IBANEZ-REDIN, Gisela - FURUTA, Roberto H. M. - WILSON, Deivy - SHIMIZU, Flavio M. - MATERON, Elsa M. - REBOLHO BATISTA ARANTES, Lidia Maria - MELENDEZ, Matias E. - CARVALHO, Andre L. - REIS, Rui Manuel - CHAUR, Manuel N. - GONCALVES, Debora - OLIVEIRA, Osvaldo N. Screen-printed interdigitated electrodes modified with nanostructured carbon nano-onion films for detecting the cancer biomarker CA19-9. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2019, vol. 99, no., pp. 1502-1508., Registrované v: WOS
6. [1.1] PARKULA, Vitaliy - BERTO, Marcello - DIACCI, Chiara - PATRAHAU, Bianca - DI LAURO, Michele - KOVTUN, Alessandro - LISCIO, Andrea - SENSI, Matteo - SAMORI, Paolo - GRECO, Pierpaolo - BORTOLOTTI, Carlo A. - BISCARINI, Fabio. Harnessing Selectivity and

Sensitivity in Electronic Biosensing: A Novel Lab-on-Chip Multigate Organic Transistor. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 13, pp. 9330-9337. Dostupné na:

<https://doi.org/10.1021/acs.analchem.0c01655>., Registrované v: WOS

7. [1.1] SUN, Kai - CHANG, Yong - ZHOU, Binbin - WANG, Xiaojin - LIU, Lin. Gold nanoparticles-based electrochemical method for the detection of protein kinase with a peptide-like inhibitor as the bioreceptor. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2017, vol. 12, no., pp. 1905-1915., Registrované v: WOS

8. [1.1] TANS, Roel - VAN RIJSWIJCK, Danique M. H. - DAVIDSON, Alex - HANNAM, Ryan - RICKETTS, Bryon - TACK, Cees J. - WESSELS, Hans J. C. T. - GLOERICH, Jolein - VAN GOOL, Alain J. Affimers as an alternative to antibodies for protein biomarker enrichment. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2020, vol. 174, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105677>., Registrované v: WOS

9. [1.1] WU, Wei - ZHAO, Shiming - MAO, Yiping - FANG, Zhiyuan - LU, Xuewen - ZENG, Lingwen. A sensitive lateral flow biosensor for Escherichia coli O157:H7 detection based on aptamer mediated strand displacement amplification. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2015, vol. 861, no., pp. 62-68., Registrované v: WOS

10. [1.1] YU, Xiaowen - YANG, Yu-Ping - DIKICI, Emre - DEO, Sapna K. - DAUNERT, Sylvia. Beyond Antibodies as Binding Partners: The Role of Antibody Mimetics in Bioanalysis. In ANNUAL REVIEW OF ANALYTICAL CHEMISTRY, VOL 10. ISSN 1936-1327, 2017, vol. 10, no., pp. 293-320., Registrované v: WOS

11. [1.1] ZALAR, Matja - INDRAKUMAR, Sowmya - LEVY, Colin W. - TONNICLIFFE, Richard B. - PETERS, Gunther H. J. - GOLOVANOV, Alexander P. Studies of the oligomerisation mechanism of a cystatin-based engineered protein scaffold. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

ADCA262 DAVIS, J.J. - TKÁČ, Ján - LAURENSEN, S. - FERRIGNO, P.K. Peptide aptamers in label-free protein detection: 1. Characterization of the immobilized scaffold. In *Analytical Chemistry*, 2007, vol. 79, p. 1089-1096. (2006: 5.646 - IF, Q1 - JCR, 2.589 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0003-2700.

Ohlasy:

1. [1.1] DIACCI, Chiara - BERTO, Marcello - DI LAURO, Michele - BIANCHINI, Elena - PINTI, Marcello - SIMON, Daniel T. - BISCARINI, Fabio - BORTOLOTTI, Carlo A. Label-free detection of interleukin-6 using electrolyte gated organic field effect transistors. In BIOINTERPHASES. ISSN 1934-8630, 2017, vol. 12, no. 5, pp., Registrované v: WOS

2. [1.1] GUO, Xuan - YE, Tingting - LIU, Luying - HU, Xiaogang. Preparation and characterization of an aptamer-functionalized solid-phase microextraction fiber and its application in the selective monitoring of adenosine phosphates with liquid chromatography and tandem mass spectrometry. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2016, vol. 39, no. 8, pp. 1533-1541., Registrované v: WOS

3. [1.1] LI, Zhoumin - LI, Zhonghui - NIU, Qiqi - LI, Hui - VUKI, Maika - XU, Danke. Visual microarray detection for human IgE based on silver

nanoparticles. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 239, no., pp. 45-51., Registrované v: WOS

4. [1.1] XIA, Ning - CHEN, Zhihua - LIU, Yadong - REN, Huizhu - LIU, Lin. Peptide aptamer-based biosensor for the detection of human chorionic gonadotropin by converting silver nanoparticles-based colorimetric assay into sensitive electrochemical analysis. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 243, no., pp. 784-791., Registrované v: WOS

5. [1.1] XIA, Ning - WANG, Xin - LIU, Lin. A Graphene Oxide-Based Fluorescent Method for the Detection of Human Chorionic Gonadotropin. In *SENSORS*. ISSN 1424-8220, 2016, vol. 16, no. 10, pp., Registrované v: WOS

6. [1.1] XIA, Ning - WANG, Xin - YU, Jie - WU, Yangyang - CHENG, Shuchao - XING, Yun - LIU, Lin. Design of electrochemical biosensors with peptide probes as the receptors of targets and the inducers of gold nanoparticles assembly on electrode surface. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 239, no., pp. 834-840., Registrované v: WOS

ADCA263 DAVIS, J.J. - TKÁČ, Ján - LAURENSEN, S. - FERRIGNO, P.K. Peptide aptamers in label-free protein detection: 1. Characterization of the immobilized scaffold. In *Analytical Chemistry*, 2007, vol. 79, p. 1089-1096. (2006: 5.646 - IF, Q1 - JCR, 2.589 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac061863z>

Ohlasy:

1. [1.1] BERTO, Marcello - DIACCI, Chiara - D'AGATA, Roberta - PINTI, Marcello - BIANCHINI, Elena - DI LAURO, Michele - CASALINI, Stefano - COSSARIZZA, Andrea - BERGGREN, Magnus - SIMON, Daniel - SPOTO, Giuseppe - BISCARINI, Fabio - BORTOLOTTI, Carlo A. EGO FET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. In *ADVANCED BIOSYSTEMS*. ISSN 2366-7478, 2018, vol. 2, no. 2, pp., Registrované v: WOS

2. [1.1] PARKULA, Vitaliy - BERTO, Marcello - DIACCI, Chiara - PATRAHAU, Bianca - DI LAURO, Michele - KOVTUN, Alessandro - LISCIO, Andrea - SENSI, Matteo - SAMORI, Paolo - GRECO, Pierpaolo - BORTOLOTTI, Carlo A. - BISCARINI, Fabio. Harnessing Selectivity and Sensitivity in Electronic Biosensing: A Novel Lab-on-Chip Multigate Organic Transistor. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 13, pp. 9330-9337. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c01655>., Registrované v: WOS

3. [1.1] TANS, Roel - VAN RIJSWIJCK, Danique M. H. - DAVIDSON, Alex - HANNAM, Ryan - RICKETTS, Bryon - TACK, Cees J. - WESSELS, Hans J. C. T. - GLOERICH, Jolein - VAN GOOL, Alain J. Affimers as an alternative to antibodies for protein biomarker enrichment. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2020, vol. 174, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105677>., Registrované v: WOS

ADCA264 DEFAYE, J. - GUILLOT, J.M. - BIELY, Peter - VRŠANSKÁ, Mária. Stereoselective thioglycoses synthesis. 14. Positional isomers of thioxylbiose, their synthesis and inducing ability for D-xylan-degrading enzymes in the yeast

Cryptococcus albidus. In *Carbohydrate Research*, 1992, vol.228, p. 47-64. (1991: 1.299 - IF). ISSN 0008-6215.

Ohlasy:

1. [1.1] AGRAWAL, Siddarth - WOZNIAK, Marta - LUC, Mateusz - WALASZEK, Kinga - PIELKA, Ewa - SZEJA, Wieslaw - PASTUCH-GAWOLEK, Gabriela - GAMIAN, Andrzej - ZIOLKOWSKI, Piotr. Insulin and novel thioglycosides exert suppressive effect on human breast and colon carcinoma cells. In *ONCOTARGET*. ISSN 1949-2553, 2017, vol. 8, no. 69, pp. 114173-114182., Registrované v: WOS
2. [1.1] AZAB, Mohammed E. - KHALIFA, Nagy M. - SEDIEK, Ashraf A. - SABRY, Nermein M. - AL-OMAR, Mohamed M. - AMR, Abd El-Galil E. Synthesis and Characterization of Some New N-Glycosides of Pyridine-2,6-bis-Carboxamides Derivatives. In *NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS*. ISSN 1525-7770, 2016, vol. 35, no. 9, pp. 435-444., Registrované v: WOS
3. [1.1] DILMAGHANI, Karim Akbari - PUR, Fazel Nasuhi - POUR, Majid Mahammad - NEJAD, Jafar Mahammad. Novel Oxadiazole Thioglycosides as Potential Anti-Acinetobacter Agents. In *IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 1735-0328, 2016, vol. 15, no. 4, pp. 777-782., Registrované v: WOS
4. [1.1] EL-SHAMY, Ibrahim E. - ABDEL-MOHSEN, A. M. - ALSHEIKH, Amer A. - FOUDA, Moustafa M. G. - AI-DEYAB, Salem S. - EL-HASHASH, Maher A. Synthesis and antimicrobial activities of S-nucleosides of 4-mesitylphthalazine-1-thiol and some new selenium-containing nucleoside analogues. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2015, vol. 56, no. 10, pp. 1183-1188., Registrované v: WOS

ADCA265 DEMOVIČOVÁ, Lucia - ŘEZÁČ, Jan - HOBZA, Pavel. Convergence of the interaction energies in noncovalent complexes in the coupled-cluster methods up to full configuration interaction. In *Journal of Chemical Theory and Computation*, 2013, vol. 9, p. 3420-3428. (2012: 5.389 - IF, Q1 - JCR, 2.784 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct4002762>

Ohlasy:

1. [1.1] ARTIUKHIN, Denis G. - BIESKE, Evan J. - BUCHACHENKO, Alexei A. Ab Initio Characterization of the Electrostatic Complexes Formed by H₂ Molecule and Cr⁺, Mn⁺, Cu⁺, and Zn⁺ Cations. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2016, vol. 120, no. 27, pp. 5006-5015., Registrované v: WOS
2. [1.1] BOESE, A. Daniel. Basis set limit coupled-cluster studies of hydrogen-bonded systems. In *MOLECULAR PHYSICS*. ISSN 0026-8976, 2015, vol. 113, no. 13-14, pp. 1618-1629., Registrované v: WOS
3. [1.1] BUDZAK, Simon - MACH, Pavel - MEDVED, Miroslav - KYSEL, Ondrej. Critical analysis of spectral solvent shifts calculated by the contemporary PCM approaches of a representative series of charge-transfer complexes between tetracyanoethylene and methylated benzenes. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2015, vol. 17, no. 27, pp. 17618-17627., Registrované v: WOS
4. [1.1] DUBECKY, Matus - MITAS, Lubos - JURECKA, Petr. Noncovalent Interactions by Quantum Monte Carlo. In *CHEMICAL REVIEWS*.

- ISSN 0009-2665, 2016, vol. 116, no. 9, pp. 5188-5215., Registrované v: WOS
5. [1.1] DUTTA, Narendra Nath - PATKOWSKI, Konrad. Improving "Silver-Standard" Benchmark Interaction Energies with Bond Functions. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3053-3070., Registrované v: WOS
6. [1.1] GONTHIER, Jerome F. - HEAD-GORDON, Martin. Assessing Electronic Structure Methods for Long-Range Three-Body Dispersion Interactions: Analysis and Calculations on Well-Separated Metal Atom Trimers. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2019, vol. 15, no. 8, pp. 4351-4361., Registrované v: WOS
7. [1.1] HU, Lianrui - CHEN, Kejuan - CHEN, Hui. Modeling sigma-Bond Activations by Nickel(0) Beyond Common Approximations: How Accurately Can We Describe Closed-Shell Oxidative Addition Reactions Mediated by Low-Valent Late 3d Transition Metal? In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 10, pp. 4841-4853., Registrované v: WOS
8. [1.1] CHATTORAJ, Joyjit - RISTHAUS, Tobias - RUBNER, Oliver - HEUER, Andreas - GRIMME, Stefan. A multi-scale approach to characterize pure CH₄, CF₄, and CH₄/CF₄ mixtures. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2015, vol. 142, no. 16, pp., Registrované v: WOS
9. [1.1] KODRYCKA, Monika - PATKOWSKI, Konrad. Platinum, gold, and silver standards of intermolecular interaction energy calculations. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2019, vol. 151, no. 7, pp., Registrované v: WOS
10. [1.1] LAO, Ka Un - HERBERT, John M. Accurate and Efficient Quantum Chemistry Calculations for Noncovalent Interactions in Many-Body Systems: The XSAPT Family of Methods. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2015, vol. 119, no. 2, pp. 235-252., Registrované v: WOS
11. [1.1] LAO, Ka Un - HERBERT, John M. Atomic Orbital Implementation of Extended Symmetry-Adapted Perturbation Theory (XSAPT) and Benchmark Calculations for Large Supramolecular Complexes. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 2955-2978., Registrované v: WOS
12. [1.1] LAO, Ka Un - SCHAEFFER, Rainer - JANSEN, Georg - HERBERT, John M. Accurate Description of Intermolecular Interactions Involving Ions Using Symmetry-Adapted Perturbation Theory. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 6, pp. 2473-2486., Registrované v: WOS
13. [1.1] PATKOWSKI, Konrad. Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In ANNUAL REPORTS IN COMPUTATIONAL CHEMISTRY, VOL 13. ISSN 1574-1400, 2017, vol. 13, no., pp. 3-91., Registrované v: WOS
14. [1.1] TEMELSO, Berhane - RENNER, Carla R. - SHIELDS, George C. Importance and Reliability of Small Basis Set CCSD(T) Corrections to MP2 Binding and Relative Energies of Water Clusters. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 4, pp. 1439-1448., Registrované v: WOS
15. [1.1] TROUILLAS, Patrick - SANCHO-GARCIA, Juan C. - DE FREITAS, Victor - GIERSCNER, Johannes - OTYEPKA, Michal -

DANGLES, Olivier. Stabilizing and Modulating Color by Copigmentation: Insights from Review Theory and Experiment. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 9, pp. 4937-4982., Registrované v: WOS

16. [1.1] VAN DORNSHULD, Eric - TSCHUMPER, Gregory S. Big Changes for Small Noncovalent Dimers: Revisiting the Potential Energy Surfaces of (P-2)(2) and (PCCP)(2) with CCSD(T) Optimizations and Vibrational Frequencies. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2016, vol. 12, no. 4, pp. 1534-1541., Registrované v: WOS

17. [1.1] YILMAZER, Nusret Duygu - KORTH, Martin. Recent Progress in Treating Protein-Ligand Interactions with Quantum-Mechanical Methods. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2016, vol. 17, no. 5, pp., Registrované v: WOS

18. [1.2] PATKOWSKI, Konrad. Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In Annual Reports in Computational Chemistry. ISSN 15741400, 2017-01-01, 13, pp. 3-91., Registrované v: SCOPUS

ADCA266 DEMOVIČOVÁ, Lucia - HOBZA, Pavel - ŘEZÁČ, Jan. Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. In *Physical Chemistry Chemical Physics*, 2014, vol. 16, p. 19115-19121. (2013: 4.198 - IF, Q1 - JCR, 1.715 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c4cp02617a>

Ohlasy:

1. [1.1] DUBECKY, Matus - MITAS, Lubos - JURECKA, Petr. Noncovalent Interactions by Quantum Monte Carlo. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 9, pp. 5188-5215., Registrované v: WOS
2. [1.1] HOU, Dan - ZHANG, Xiao-Long - ZHAI, Yu - LI, Hui. The Role of High Excitations in Constructing Sub-spectroscopic Accuracy Intermolecular Potential of He-HCN: Critically Examined by the High-Resolution Spectra with Resonance States. In CHINESE JOURNAL OF CHEMICAL PHYSICS. ISSN 1674-0068, 2017, vol. 30, no. 6, pp. 776-788., Registrované v: WOS
3. [1.1] IZGORODINA, Ekaterina I. - SEEGER, Zoe L. - SCARBOROUGH, David L. A. - TAN, Samuel Y. S. Quantum Chemical Methods for the Prediction of Energetic, Physical, and Spectroscopic Properties of Ionic Liquids. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 10, pp. 6696-6754., Registrované v: WOS
4. [1.1] LI, Sicheng - SMITH, Daniel G. A. - PATKOWSKI, Konrad. An accurate benchmark description of the interactions between carbon dioxide and polyheterocyclic aromatic compounds containing nitrogen. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2015, vol. 17, no. 25, pp. 16560-16574., Registrované v: WOS
5. [1.1] PARKER, Trent M. - SHERRILL, C. David. Assessment of Empirical Models versus High-Accuracy Ab Initio Methods for Nucleobase Stacking: Evaluating the Importance of Charge Penetration. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 9, pp. 4197-4204., Registrované v: WOS
6. [1.1] PATKOWSKI, Konrad. Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In

ANNUAL REPORTS IN COMPUTATIONAL CHEMISTRY, VOL 13. ISSN 1574-1400, 2017, vol. 13, no., pp. 3-91., Registrované v: WOS

7. [1.1] RICHARD, Ryan M. - MARSHALL, Michael S. - DOLGOUNITCHEVA, O. - ORTIZ, J. V. - BREDAS, Jean-Luc - MAROM, Noa - SHERRILL, C. David. Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules I. Reference Data at the CCSD(T) Complete Basis Set Limit. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2016, vol. 12, no. 2, pp. 595-604., Registrované v: WOS
8. [1.1] SIRIANNI, Dominic A. - ALENAIZAN, Asem - CHENEY, Daniel L. - SHERRILL, C. David. Assessment of Density Functional Methods for Geometry Optimization of Bimolecular van der Waals Complexes. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3004-3013., Registrované v: WOS

ADCA267 DERGUNOVA, M.A. - ALEXEENKO, T.V. - ZHANAEVA, S.Y. - FILYUSHINA, E.E. - BUZUEVA, I.I. - KOLESNIKOVA, O.P. - KOGAN, Grigorij - KOROLENKO, T.A. Characterization of the novel chemically modified fungal polysaccharides as the macrophage stimulators. In *International Immunopharmacology*, 2009, vol. 9, p. 729-733. Dostupné na: <https://doi.org/10.1016/j.intimp.2009.02.009>

Ohlasy:

1. [1.1] ABDEL-MOHSEN, A. M. - JANCAR, J. - MASSOUD, D. - FOHLEROVA, Z. - ELHADIDY, H. - SPOTZ, Z. - HEBEISH, A. Novel chitin/chitosan-glucan wound dressing: Isolation, characterization, antibacterial activity and wound healing properties. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2016, vol. 510, no. 1, pp. 86-99., Registrované v: WOS
2. [1.1] DUTTA, Anu Singh P. K. Extraction of Chitin-Glucan Complex from Agaricus bisporus: Characterization and Antibacterial Activity. In JOURNAL OF POLYMER MATERIALS. ISSN 0973-8622, 2017, vol. 34, no. 1, pp. 1-9., Registrované v: WOS
3. [1.1] CHEN, Fang - HUANG, Gangliang. Preparation and immunological activity of polysaccharides and their derivatives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 112, no., pp. 211-216., Registrované v: WOS
4. [1.1] LIU, Qingye - XU, Hui - CAO, Yan - LI, Mengxia - XU, Xiaojuan - ZHANG, Lina. Transfection efficiency and internalization of the gene carrier prepared from a triple-helical beta-glucan and polydeoxyadenylic acid in macrophage RAW264.7 cells. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 18, pp. 3789-3798., Registrované v: WOS
5. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257., Registrované v: WOS
6. [1.1] YU, Qingtong - WANG, Yan - CAO, Xia - DENG, Wenwen - FRIMPONG, Michael Adu - YU, Jiangnan - XU, Ximing. One-Step Formation of Chondrocytes through Direct Reprogramming via Polysaccharide-Based Gene Delivery. In ADVANCES IN POLYMER TECHNOLOGY. ISSN 0730-6679, 2019, vol., no., pp., Registrované v: WOS
7. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu

De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS

- ADCA268 DESBOUIS, D. - STRUTHERS, H. - SPIWOK, Wojtech - KUSTER, T. - SCHIBLI, R. Synthesis, in vitro, and in silico evaluation of organometallic technetium and rhenium thymidine complexes with retained substrate activity toward human thymidine kinase type 1. In *Journal of medicinal chemistry*, 2008, vol. 51, p.6689-6698. (2007: 4.895 - IF, Q1 - JCR, 2.119 - SJR, Q1 - SJR). ISSN 0022-2623. Dostupné na: <https://doi.org/10.1021/jm800530p>
- Ohlasy:
1. [1.1] COLLERY, Philippe - DESMAELE, Didier - VIJAYKUMAR, Veena. Design of Rhenium Compounds in Targeted Anticancer Therapeutics. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2019, vol. 25, no. 31, pp. 3306-3322., Registrované v: WOS
 2. [1.1] DABROWSKA, Aneta - MATUSZEWSKI, Michal - ZWOLINSKI, Krzysztof - IGNACZAK, Anna - OLEJNICZAK, Agnieszka B. Insight into lipophilicity of deoxyribonucleoside-boron cluster conjugates. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2018, vol. 111, no., pp. 226-237., Registrované v: WOS
 3. [1.1] DUAN, Xiaojang - GAN, Qianqian - SONG, Xiaoqing - FANG, Si'an - ZHANG, Xuran - RUAN, Qing - ZHANG, Junbo. Synthesis and biological evaluation of novel Tc-99m-oxo and Tc-99m-tricarbonyl complexes with C3-functionalized thymidine dithiocarbamate for tumor imaging. In APPLIED ORGANOMETALLIC CHEMISTRY. ISSN 0268-2605, 2018, vol. 32, no. 8, pp., Registrované v: WOS
 4. [1.1] DUAN, Xiaojang - LIU, Teli - ZHANG, Yichun - ZHANG, Junbo. Synthesis and Biological Evaluation of Novel Tc-99m(CO)(3)-Labeled Thymidine Analogs as Potential Probes for Tumor Proliferation Imaging. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 4, pp., Registrované v: WOS
 5. [1.1] DUAN, Xiaojang - RUAN, Qing - GAN, Qianqian - SONG, Xiaoqing - FANG, Si'an - ZHANG, Xuran - ZHANG, Junbo. Radiosynthesis and evaluation of novel Tc-99m(CO)(3)-labelled thymidine dithiocarbamate derivatives for tumor imaging with SPECT. In JOURNAL OF ORGANOMETALLIC CHEMISTRY. ISSN 0022-328X, 2018, vol. 868, no., pp. 154-163., Registrované v: WOS
 6. [1.1] DUAN, Xiaojang - ZHANG, Xuran - GAN, Qianqian - FANG, Si'an - RUAN, Qing - SONG, Xiaoqing - ZHANG, Junbo. Novel Tc-99m-labelled complexes with thymidine isocyanide: radiosynthesis and evaluation as potential tumor imaging tracers. In MEDCHEMCOMM. ISSN 2040-2503, 2018, vol. 9, no. 4, pp. 705-712., Registrované v: WOS
 7. [1.1] MATUSZEWSKI, Michal - KILISZEK, Agnieszka - RYPNIEWSKI, Wojciech - LESNIKOWSKI, Zbigniew J. - OLEJNICZAK, Agnieszka B. Nucleoside bearing boron clusters and their phosphoramidites building blocks for modified oligonucleotide synthesis. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2015, vol. 39, no. 2, pp. 1202-1221., Registrované v: WOS
 8. [1.1] OLIVEIRA, Bruno L. - MORAIS, Mauricio - MENDES, Filipa - MOREIRA, Irina S. - CORDEIRO, Carlos - FERNANDES, Pedro A. -

RAMOS, Maria J. - ALBERTO, Roger - SANTOS, Isabel - CORREIA, Joao D. G. Re(I) and Tc(I) Complexes for Targeting Nitric Oxide Synthase: Influence of the Chelator in the Affinity for the Enzyme. In CHEMICAL BIOLOGY & DRUG DESIGN. ISSN 1747-0277, 2015, vol. 86, no. 5, pp. 1072-1086., Registrované v: WOS

9. [1.1] PAPAGIANNOPOULOU, Dionysia. Technetium-99m radiochemistry for pharmaceutical applications. In JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS. ISSN 0362-4803, 2017, vol. 60, no. 11, pp. 502-520., Registrované v: WOS

10. [1.1] TALAAT, H. M. - IBRAHIM, I. T. - BAYOMY, N. A. - FAROUK, N. Synthesis of Tc-99m-Radiolabeled Uridine as a Potential Tumor Imaging Agent. In RADIOCHEMISTRY. ISSN 1066-3622, 2018, vol. 60, no. 1, pp. 51-57., Registrované v: WOS

11. [1.2] KARTHIKEYAN, Muthuraman - GOVINDARAJAN, Ramadoss - DURAISAMY, Ezhumalai - VEENA, Vijayakumar - SAKTHIVEL, Natarajan - MANIMARAN, Bala. Self-Assembly of Chalcogenolato-Bridged Ester and Amide Functionalized Dinuclear Re(I) Metallacycles: Synthesis, Structural Characterization and Preliminary Cytotoxicity Studies. In ChemistrySelect, 2017-01-01, 2, 11, pp. 3362-3368., Registrované v: SCOPUS

ADCA269 DHAMI, R. - HARDING, S.E. - ELIZABETH, N.J. - EBRINGEROVÁ, Anna. Hydrodynamic characterization of the molar mass and gross conformation of corn cob heteroxylan AGX. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1995, vol. 28, p.113-119. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(95\)00099-2](https://doi.org/10.1016/0144-8617(95)00099-2)

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

2. [1.1] Littunen, K (Littunen, Kuisma); Kilpelainen, P (Kilpelainen, Petri); Junka, K (Junka, Karoliina); Sipponen, M (Sipponen, Mika); Master, ER (Master, Emma R.); Seppala, J (Seppala, Jukka): Effect of Xylan Structure on Reactivity in Graft Copolymerization and Subsequent Binding to Cellulose. In: BIOMACROMOLECULES Volume: 16 Issue: 4 Pages: 1102-1111, Registrované v: WOS

3. [1.1] Maina, N. H., Pitkänen, L., Heikkinen, S., Tuomainen, P., Virkki, L., & Tenkanen, M. (2014). Challenges in analysis of high-molar mass dextrans: Comparison of HPSEC, AsFIFFF and DOSY NMR spectroscopy. *Carbohydrate Polymers*, 99, 199-207, Registrované v: SCOPUS

4. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS

ADCA270 DLAPA, Pavel - SIMKOVIC, Ivan jr. - DOERR, Stefan H. - ŠIMKOVIC, Ivan - KANKA, Róbert - MATAIX-SOLERA, Jorge. Application of thermal analysis to elucidate water-repellency changes in heated soils. In *Soil Science Society American Journal*, 2008, vol. 72, no. 1, p. 1-10. (2007: 2.104 - IF, Q1 - JCR, 1.646 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0361-5995.
Dostupné na: <https://doi.org/10.2136/sssaj2006.0280>

Ohlasy:

1. [1.1] DYMOV, Alexey A. - GABOV, Dmitry N. - MILANOVSKII, Evgeniy Yu. C-13-NMR, PAHs, WSOC and water repellence of fire-affected soils (Albic Podzols) in lichen pine forests, Russia. In *ENVIRONMENTAL EARTH SCIENCES*. ISSN 1866-6280, 2017, vol. 76, no. 7, article number: 275., Registrované v: WOS
2. [1.1] DYMOV, A. A. - GABOV, D. N. Pyrogenic alterations of Podzols at the North-east European part of Russia: Morphology, carbon pools, PAH content. In *GEODERMA*, 2015, vol. 241, p. 230-237, ISSN 0016-7061., Registrované v: WOS
3. [1.1] KRISTL, Matjaz - MURSEC, Mateja - SUSTAR, Vilma - KRISTL, Janja. Application of thermogravimetric analysis for the evaluation of organic and inorganic carbon contents in agricultural soils. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, 2016, vol. 123, no. 3, p. 2 139-2 147, ISSN 1388-6150., Registrované v: WOS
4. [1.1] NADAV, Itamar - TARCHITZKY, Jorge - CHEN, Yona. Water repellency reduction using soil heating in infiltration ponds of a wastewater soil aquifer treatment (SAT). In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2017, vol. 180, no. 2, p. 142-152., Registrované v: WOS
5. [1.1] ROPER, M. M. - DAVIES, S. L. - BLACKWELL, P. S. - HALL, D. J. M. - BAKKER, D. M. - JONGEPIER, R. - WARD, P. R. Management options for water-repellent soils in Australian dryland agriculture. In *SOIL RESEARCH*, 2015, vol. 53, no. 7, p. 786-806, ISSN 1838-675X., Registrované v: WOS
6. [1.1] SONG, Wen - VIDONISH, Julia E. - KAMATH, Roopa - YU, Pingfeng - CHU, Chun - MOORTHY, Bhagavatula - GAO, Baoyu - ZYGOURAKIS, Kyriacos - ALVAREZ, Pedro J. J. Pilot-Scale Pyrolytic Remediation of Crude-Oil-Contaminated Soil in a Continuously-Fed Reactor: Treatment Intensity Trade-Offs. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2019, vol. 53, no. 4, p. 2 045-2 053., Registrované v: WOS
7. [1.1] UDDIN, S. M. Mijan - DANIEL, Nicholas R. R. - HARPER, Richard J. - HENRY, David J. Why do biogenic volatile organic compounds (BVOCs) derived from vegetation fire not induce soil water repellency? In *BIOGEOCHEMISTRY*. ISSN 0168-2563, 2017, vol. 134, no. 1-2, p. 147-161., Registrované v: WOS
8. [1.1] UDDIN, S. M. Mijan - HARPER, Richard J. - HENRY, David J. Contribution of Binary Organic Layers to Soil Water Repellency: A Molecular Level Perspective. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2019, vol. 123, no. 34, p. 7 518-7 527., Registrované v: WOS
9. [1.1] VOGELMANN, Eduardo Saldanha - PREVEDELLO, Juliana - REICHERT, Jose Miguel. ORIGIN OF HYDROPHOBIC COMPOUNDS AND THEIR EFFECTS IN Pinus AND Eucalyptus FORESTS. In *CIENCIA*

FLORESTAL, 2015, vol. 25, no. 4, p. 1 067-1 079, ISSN 0103-9954.,
Registrované v: WOS

ADCA271 DOMANSKÝ, R. - RENDOS, F.. Study of pyrolysis of wood and its components. In *Holz*, 1962, vol. 20, p. 473-476.

Ohlasy:

1. [1.1] AKINLABI, Esther Titilayo - ANANE-FENIN, Kwame - AKWADA, Damenortey Richard. Bamboo as Fuel. In *BAMBOO: THE MULTIPURPOSE PLANT*, 2017, vol., no., pp. 149-178., Registrované v: WOS
2. [1.1] FIERASCU, Radu Claudiu - AVRAMESCU, Sorin Marius - VASILIEVICI, Gabriel - FIERASCU, Irina - PAUNESCU, Alina. Thermal and spectroscopic investigation of Romanian historical documents from the nineteenth and twentieth century. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2016, vol. 123, no. 2, pp. 1309-1318., Registrované v: WOS
3. [1.1] GUDE, Veera Ganeswar. Microwave Enhanced Biogas Production. In *MICROWAVE-MEDIATED BIOFUEL PRODUCTION*, 2017, vol., no., pp. 206-239., Registrované v: WOS

ADCA272 DOMÉNY, Z. - ŠMOGROVIČOVÁ, D. - GEMEINER, Peter - ŠTURDÍK, E. - PÁTKOVÁ, J. - MALOVÍKOVÁ, Anna. Continuous secondary fermentation using immobilized yeast. In *Biotechnology Letters*, 1998, vol. 20, p. 1041-1045. ISSN 0141-5492. Dostupné na: <https://doi.org/10.1023/A:1005417913123>

Ohlasy:

1. [1.1] BAIANO, Antonietta - PETRUZZI, Leonardo. The role of starter cultures and spontaneous fermentation in traditional and innovative beer production. In *STARTER CULTURES IN FOOD PRODUCTION*, 2017, vol., no., pp. 231-254., Registrované v: WOS
2. [1.1] BEKATOROU, Argyro - PLESSAS, Stavros - MALLOUCHOS, Athanasios. Cell Immobilization Technologies for Applications in Alcoholic Beverages. In *HANDBOOK OF ENCAPSULATION AND CONTROLLED RELEASE*, 2016, vol., no., pp. 933-955., Registrované v: WOS
3. [1.1] DJORDJEVIC, Verica - WILLAERT, Ronnie - GIBSON, Brian - NEDOVIC, Viktor. Immobilized Yeast Cells and Secondary Metabolites. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
4. [1.1] PIRES, Eduardo J. - TEIXEIRA, Jose A. - BRANYIK, Tomas - BRANDAO, Tiago - VICENTE, Antonio A. Continuous beer fermentation diacetyl as a villain. In *JOURNAL OF THE INSTITUTE OF BREWING*. ISSN 0046-9750, 2015, vol. 121, no. 1, pp. 55-61., Registrované v: WOS
5. [1.2] SHOPSKA, Vesela - DENKOVA, Rositsa - KOSTOV, Georgi. Beer production with encapsulated yeast cells. In *Beer: Production, Consumption and Health Effects*, 2016-01-01, pp. 27-100., Registrované v: SCOPUS

ADCA273 DOVINOVÁ, Ima** - HRABÁROVÁ, Eva - JANSSEN, Eugene - KVANDOVÁ, Miroslava - MAJZUNOVÁ, Miroslava - BERÉNYIOVÁ, Andrea - BARANČÍK, Miroslav**. ADMA, homocysteine and redox status improvement by 7-nitroindazole in spontaneously hypertensive rats. In *Biomedicine & Pharmacotherapy*, 2018, vol. 106, p. 1478-1483. (2017: 3.457 - IF, Q2 - JCR, 0.951

- SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0753-3322. Dostupné na: <https://doi.org/10.1016/j.biopha.2018.07.096>

Ohlasy:

1. [1.1] HU, W.Q. - WANG, W.Y. - MA, Q. - LIU, T. - ZHANG, J.F. - ZHANG, J.C. Blueberry anthocyanin-enriched extract ameliorates transverse aortic constriction-induced myocardial dysfunction via the DDAH1/ADMA/NO signaling pathway in mice. In *MOLECULAR MEDICINE REPORTS*. ISSN 1791-2997, JAN 2020, vol. 21, no. 1, p. 454-462., Registrované v: WOS

ADCA274 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KOGAN, Grigorij - JANČINOVÁ, Viera. Glucomannan reduces neutrophil free radical production in vitro and in rats with adjuvant arthritis. In *Pharmacological research*, 2009, vol. 59, p. 399-403. (2008: 3.287 - IF, Q2 - JCR, 1.191 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1043-6618. Dostupné na: <https://doi.org/10.1016/j.phrs.2009.02.003>

Ohlasy:

1. [1.1] KIELISZEK, M. - KOT, A.M. - BZDUCHA-WRÓBEL, A. - BŁAŻEJAK, S. - GIENKA, I. - KURCZ, A. Biotechnological use of Candida yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, p. 185-198., Registrované v: WOS
2. [1.1] LE THANH, B.V. - LESSARD, M. - CHORFI, Y. - GUAY, F. SHORT COMMUNICATION: Antioxidant capacity in the intestinal mucosa of weanling piglets fed diets containing Fusarium mycotoxins and the efficacy of commercial supplements sold as detoxifiers. In *CANADIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0008-3984, 2015, vol. 95, no. 4, p. 569-575., Registrované v: WOS
3. [1.1] SINGH, S. - SINGH, G. - ARYA, S. K. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
4. [1.1] YANG, X. - KU, T.-H. - BISWAS, S. K. - YANO, H. - ABE, K. UV grafting: surface modification of cellulose nanofibers without the use of organic solvents. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2019, vol. 21, no. 17, p. 4619-4624., Registrované v: WOS
5. [1.2] UTAMA, G. L. - MELIANA, S. - DJALI, M. - YULIANA, T. - BALIA, R. L. Probiotic candidates yeast isolated from dangke-Indonesian traditional fermented buffalo milk. In *ACTA UNIVERSITATIS AGRICULTURAE ET SILVICULTURAE MENDELIANAE BRUNENSIS*. ISSN 1211-8516, 2019, vol. 67, no. 1, pp. 179-187., Registrované v: SCOPUS

ADCA275 DRÁFI, František - BAUEROVÁ, Katarína - VALACHOVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JURÁNEK, Ivo - BOLDYREV, A. - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Carnosine inhibits degradation of hyaluronan induced by free radical processes in vitro and improves the redox imbalance in adjuvant arthritis in vivo. In *Neuroendocrinology Letters*, 2010, vol. 31, suppl. 2, p. 96-100. (2009: 1.047 - IF, Q4 - JCR, 0.440 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] IMPELLIZZERI, D. - SIRACUSA, R. - CORDARO, M. -

PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. Protective effect of a new hyaluronic acid -carnosine conjugate on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 125, art. no. 110023., Registrované v: WOS

ADCA276 DROBNICA, Ľudovít - GEMEINER, Peter. Kinetics of decomposition and dissociation constants of the S-esters of N-monosubstituted dithiocarbamic acids. In *Collection of Czechoslovak Chemical Communications*, 1975, vol. 40, p. 3346-3356. ISSN 0010-0765.

Ohlasy:

1. [1.1] JESCHKE, Verena - GERSHENZON, Jonathan - VASSAO, Daniel Giddings. A mode of action of glucosinolate-derived isothiocyanates: Detoxification depletes glutathione and cysteine levels with ramifications on protein metabolism in *Spodoptera littoralis*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 71, no., pp. 37-48., Registrované v: WOS

ADCA277 DRUZHININA, T.N. - KUSOV, Y.Y. - SHIBAEV, V.N. - KOCHETKOV, N.K. - BIELY, Peter - KUČÁR, Štefan - BAUER, Štefan. Uridine diphosphate of 2-deoxyglucose. Chemical synthesis, enzymatic oxidation and epimerization. In *Biochimica et Biophysica Acta*, 1975, vol. 381, p. 301-307.

Ohlasy:

1. [1.1] GOYETTE-DESJARDINS, Guillaume - VINOGRADOV, Evgeny - OKURA, Masatoshi - TAKAMATSU, Daisuke - GOTTSCHALK, Marcelo - SEGURA, Mariela. Streptococcus suis serotype 3 and serotype 18 capsular polysaccharides contain di-N-acetyl-bacillosamine. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 466, no., pp. 18-29., Registrované v: WOS

2. [1.1] GOYETTE-DESJARDINS, Guillaume - VINOGRADOV, Evgeny - OKURA, Masatoshi - TAKAMATSU, Daisuke - GOTTSCHALK, Marcelo - SEGURA, Mariela. Structure determination of Streptococcus suis serotypes 7 and 8 capsular polysaccharides and assignment of functions of the cps locus genes involved in their biosynthesis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 473, no., pp. 36-45., Registrované v: WOS

3. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

4. [1.1] RUGGIERI, Valentino - BOSTAN, Hamed - BARONE, Amalia - FRUSCIANTE, Luigi - CHIUSANO, Maria Luisa. Integrated bioinformatics to decipher the ascorbic acid metabolic network in tomato. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2016, vol. 91, no. 4-5, pp. 397-412., Registrované v: WOS

ADCA278 DŘÍMALOVÁ, E. - VELEBNÝ, V. - SASINKOVÁ, Vlasta - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Degradation of hyaluronan by

ultrasonication in comparison to microwave and conventional heating. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2005, vol. 61, s. 420-426. (2004: 1.710 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2005.05.035>

Ohlasy:

1. [1.1] AIDA, Taku Michael - OSHIMA, Minori - SHARMIN, Tanjina - MISHIMA, Kenji - SMITH, Richard L. Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104638>., Registrované v: WOS
2. [1.1] BHATNAGAR, Priyanka - PANT, Aditya Bhushan - SHUKLA, Yogeshwer - PANDA, Amulya - GUPTA, Kailash Chand. Hyaluronic acid grafted PLGA copolymer nanoparticles enhance the targeted delivery of Bromelain in Ehrlich's Ascites Carcinoma. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2016, vol. 105, no., pp. 176-192., Registrované v: WOS
3. [1.1] BORKE, Tina - NAJBERG, Mathie - ILINA, Polina - BHATTACHARYA, Madhushree - URTTI, Arto - TENHU, Heikki - HIETALA, Sami. Hyaluronic Acid Graft Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2018, vol. 18, no. 1, pp., Registrované v: WOS
4. [1.1] BORKE, Tina - WINNIK, Francoise M. - TENHU, Heikki - HIETALA, Sami. Optimized triazine-mediated amidation for efficient and controlled functionalization of hyaluronic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 42-50., Registrované v: WOS
5. [1.1] GOMES DE MELO, Bruna Alice - ANDRADE SANTANA, Maria Helena. Structural Modifications and Solution Behavior of Hyaluronic Acid Degraded with High pH and Temperature. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 2, pp. 424-436., Registrované v: WOS
6. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS
7. [1.1] HUANG, Hao - LIANG, Qixing - WANG, Yang - CHEN, Jian - KANG, Zhen. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant *Pichia pastoris*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, pp. 1621-1632. Dostupné na: <https://doi.org/10.1007/s00253-019-10282-7>., Registrované v: WOS
8. [1.1] CHEN, Shengjun - CHEN, Hui - GAO, Ruichang - LI, Laihao - YANG, Xianqing - WU, Yanyan - HU, Xiao. Degradation of hyaluronic acid derived from tilapia eyeballs by a combinatorial method of microwave, hydrogen peroxide, and ascorbic acid. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 112, no., pp. 117-121., Registrované

v: WOS

9. [1.1] LV, Mengxian - WANG, Miao - CAI, Weiwei - HAO, Wenxing - YUAN, Panhong - KANG, Zhen. Characterisation of separated end hyaluronan oligosaccharides from leech hyaluronidase and evaluation of angiogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 309-316., Registrované v: WOS
10. [1.1] MLADENOVA, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalena. PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
11. [1.1] NESTOR, Gustav - SANDSTROM, Corine. NMR study of hydroxy and amide protons in hyaluronan polymers. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 920-928., Registrované v: WOS
12. [1.1] PARSONS, B. J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, pp. 618-632., Registrované v: WOS
13. [1.1] PETIT, C. - REYNAUD, S. - DESBRIERES, J. Amphiphilic derivatives of chitosan using microwave irradiation. Toward an eco-friendly process to chitosan derivatives. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 26-33., Registrované v: WOS
14. [1.1] RIAZ, Ufana - ASHRAF, S. M. - FAROOQ, Munazah. Effect of pH on the microwave-assisted degradation of methyl orange using poly(1-naphthylamine) nanotubes in the absence of UV-visible radiation. In COLLOID AND POLYMER SCIENCE. ISSN 0303-402X, 2015, vol. 293, no. 4, pp. 1035-1042., Registrované v: WOS
15. [1.1] SIMULESCU, Vasile - MONDEK, Jakub - KALINA, Michal - PEKAR, Miloslav. Kinetics of long-term degradation of different molar mass hyaluronan solutions studied by SEC-MALLS. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 111, no., pp. 257-262., Registrované v: WOS
16. [1.1] SIMULESCU, Vasile - KALINA, Michal - MONDEK, Jakub - PEKAR, Miloslav. Long-term degradation study of hyaluronic acid in aqueous solutions without protection against microorganisms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, no., pp. 664-668., Registrované v: WOS
17. [1.1] SLADEK, Svenja - KEARNEY, Clodagh - CREAN, Daniel - BRAMA, Pieter A. J. - TAJBER, Lidia - FAWCETT, Karolina - LABBERTE, Margot C. - LEGGETT, Bernadette - BRAYDEN, David J. Intra-articular delivery of a nanocomplex comprising salmon calcitonin, hyaluronic acid, and chitosan using an equine model of joint inflammation. In DRUG DELIVERY AND TRANSLATIONAL RESEARCH. ISSN 2190-393X, 2018, vol. 8, no. 5, pp. 1421-1435., Registrované v: WOS
18. [1.1] WANG, Zhaojie - QIU, Yuanhao - HOU, Chunyan - WANG, Dongdong - SUN, Feifei - LI, Xiaojun - WANG, Feng - YI, Hong - MU, Haibo - DUAN, Jinyou. Synthesis of hyaluronan-amikacin conjugate and its bactericidal activity against intracellular bacteria in vitro and in vivo. In CARBOHYDRATE

POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 132-140., Registrované v: WOS

19. [1.1] YUAN, Panhong - LV, Mengxian - JIN, Peng - WANG, Miao - DU, Guocheng - CHEN, Jian - KANG, Zhen. Enzymatic production of specifically distributed hyaluronan oligosaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 129, no., pp. 194-200., Registrované v: WOS

20. [1.1] ZHENG, Ting - ABADI, Parisa Pour Shahid Saeed - SEO, Jungmok - CHA, Byung-Hyun - MICCOLI, Beatrice - LI, Yi-Chen - PARK, Kijun - PARK, Sunghyun - CHOI, Seon-Jin - BAYANIAHANGAR, Rasoul - ZHANG, Dongxing - LEE, Soo-Hong - LEE, Chang-Kee - KHADEMHOSEINI, Ali - SHIN, Su Ryon. Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 23, pp. 20615-20627., Registrované v: WOS

21. [1.2] DESBRIÈRES, Jacques - GRASSL, Bruno - PETIT, Charlotte - REYNAUD, Stéphanie. Using microwaves to extract and functionalize natural or bio-based molecules. In Actualité Chimique. ISSN 01519093, 2018-03-01, 427-428, pp. 87-90., Registrované v: SCOPUS

22. [1.2] ZHANG, He Nan - MA, Hai Le - ZHOU, Cun Shan - YAN, Yang - YIN, Xiu Lian - YAN, Jing Kun. Enhanced production and antioxidant activity of endo-polysaccharides from *Phellinus igniarius* mutants screened by low power He-Ne laser and ultraviolet induction. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2018-07-01, 15, pp. 30-36., Registrované v: SCOPUS

ADCA279 DUDÍKOVÁ, Jana - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - KOLAROVA, Nadežda. Exploration of transfructosylation activity in cell walls from *Cryptococcus laurentii* for production of functionalised beta-D-fructofuranosides. In *Journal of Molecular Catalysis B - Enzymatic*, 2007, vol. 45, p. 27-33. (2006: 2.149 - IF, Q2 - JCR, 0.734 - SJR, Q1 - SJR). ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2006.11.003>

Ohlasy:

1. [1.1] HERRERA-GONZALEZ, Azucena - NUNEZ-LOPEZ, Gema - MOREL, Sandrine - AMAYA-DELGADO, Lorena - SANDOVAL, Georgina - GSCHAEGLER, Anne - REMAUD-SIMEON, Magali - ARRIZON, Javier. Functionalization of natural compounds by enzymatic fructosylation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5223-5234., Registrované v: WOS

2. [1.1] NUNEZ-LOPEZ, Gema - HERRERA-GONZALEZ, Azucena - HERNANDEZ, Lazaro - AMAYA-DELGADO, Lorena - SANDOVAL, Georgina - GSCHAEGLER, Anne - ARRIZON, Javier - REMAUD-SIMEON, Magali - MOREL, Sandrine. Fructosylation of phenolic compounds by levansucrase from *Gluconacetobacter diazotrophicus*. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 122, no., pp. 19-25., Registrované v: WOS

3. [1.1] SHENG, Long - TONG, Qunyi - MA, Meihu. Why sucrose is the most suitable substrate for pullulan fermentation by *Aureobasidium pullulans* CGMCC1234? In ENZYME AND MICROBIAL TECHNOLOGY. ISSN

0141-0229, 2016, vol. 92, no., pp. 49-55., Registrované v: WOS

4. [1.2] CHENG, Zi Yang - KE, Zhong Cheng - WU, Yong Xiang. Study on secondary metabolites of endophytic fungus *Aspergillus ochraceus* from *Polygonatum cyrtonema*. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2019-11-28, 50, 22, pp. 5424-5428., Registrované v: SCOPUS

ADCA280 DUJNIČ, Viera - FARGAŠOVÁ, Agáta. Charakterizácia nanočastíc a ich vplyv na eukaryotické bunky a vyššie rastliny (Characterization of nanoparticles and their effects on eukaryotic cells and higher plants). In *Chemické Listy*, 2016, vol. 110, p. 440-446. (2015: 0.279 - IF, Q4 - JCR, 0.176 - SJR, Q4 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0009-2770.

Ohlasy:

1. [1.1] REVENCO, Diomid - LOULA, Martin - MESTEK, Oto - KOPLIK, Richard. Determination of Inorganic Nanoparticles in Biological Samples and Foodstuffs Using Single Particle Inductively Coupled Plasma Mass Spectrometry. In CHEMICKE LISTY. ISSN 0009-2770, 2019, vol. 113, no. 8, pp. 478-484., Registrované v: WOS

2. [1.1] REVENCO, Diomid - LOULA, Martin - MESTEK, Oto - KOPLIK, Richard. Determination of Inorganic Nanoparticles in Biological Samples and Foodstuffs Using Single Particle Inductively Coupled Plasma Mass Spectrometry. In CHEMICKE LISTY. ISSN 0009-2770, 2019, vol. 113, no. 8, pp. 478-484., Registrované v: WOS

3. [1.1] SEBESTA, Martin - MATUS, Peter. Separation, Determination, and Characterization of Inorganic Engineered Nanoparticles in Complex Environmental Samples. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 583-589., Registrované v: WOS

4. [1.1] SEBESTA, Martin - MATUS, Peter. Separation, Determination, and Characterization of Inorganic Engineered Nanoparticles in Complex Environmental Samples. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 583-589., Registrované v: WOS

5. [1.1] UHLIROVA, Dagmar - DOCEKALOVA, Michaela - STANKOVA, Martina - ANJUM, Naser A. - SOCHOR, Jiri - PERIERA, Eduarda - BABULA, Petr - NGUYEN XUAN HAI - DUONG NGOC BACH - NGUYEN VIET HOAI - BEKLOVA, Miroslava - MUSILOVA, Michaela - SUCHY, Pavel - KIZEK, Rene. UPTAKE OF CdTe QUANTUM DOTS BY MAIZE SEEDLINGS: EFFECTS ON SEED GERMINATION AND ASSOCIATED PARAMETERS. In 8TH INTERNATIONAL CONFERENCE ON NANOMATERIALS RESEARCH & APPLICATION (NANOCON 2016), 2017, vol., no., pp. 455-461., Registrované v: WOS

ADCA281 DUPUY, Joan - LEGLIZE, Pierre - VINCENT, Quentin - ZELKO, Ivan - MUSTIN, Christian - OUVARD, Stephanie - STERCKEMAN, Thibault. Effect and localization of phenanthrene in maize roots. In *Chemosphere*, 2016, vol. 149, p. 130-136. (2015: 3.698 - IF, Q1 - JCR, 1.497 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0045-6535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2016.01.102>

Ohlasy:

1. [1.1] BARONE, Roberto - DE BIASI, Margherita-Gabriella - PICCIALLI, Vincenzo - DE NAPOLI, Lorenzo - OLIVIERO, Giorgia - BORBONE, Nicola - PICCIALLI, Gennaro. Degradation of some representative

polycyclic aromatic hydrocarbons by the water-soluble protein extracts from *Zea mays* L. cv PR32-B10. In CHEMOSPHERE. ISSN 0045-6535, 2016, vol. 160, no., pp. 258-265., Registrované v: WOS

2. [1.1] CENNERAZZO, Johanne - DE JUNET, Alexis - AUDINOT, Jean-Nicolas - LEYVAL, Corinne. Dynamics of PAHs and derived organic compounds in a soil-plant mesocosm spiked with C-13-phenanthrene. In CHEMOSPHERE. ISSN 0045-6535, 2017, vol. 168, no., pp. 1619-1627., Registrované v: WOS

3. [1.1] GAO, Yanzheng - HU, Xiaojie - ZHOU, Ziyuan - ZHANG, Wei - WANG, Yize - SUN, Bingqing. Phytoavailability and mechanism of bound PAH residues in filed contaminated soils. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 222, no., pp. 465-476., Registrované v: WOS

4. [1.1] LI, Ruilong - SUN, Haifeng - WANG, Shaopeng - WANG, Yinghui - YU, Kefu. Retention of CdS/ZnS Quantum Dots (QDs) on the Root Epidermis of Woody Plant and Its Implications by Benzo[a]pyrene: Evidence from the in Situ Synchronous Nanosecond Time-Resolved Fluorescence Spectra Method. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 4, pp. 814-821., Registrované v: WOS

5. [1.1] LI, Ruilong - TAN, Huadong - ZHU, Yaxian - ZHANG, Yong. The retention and distribution of parent, alkylated, and N/O/S-containing polycyclic aromatic hydrocarbons on the epidermal tissue of mangrove seedlings. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 226, no., pp. 135-142., Registrované v: WOS

6. [1.1] TAN, Huadong - LI, Ruilong - ZHU, Yaxian - ZHANG, Yong. In situ quantitative and visual investigation of the retention of polycyclic aromatic hydrocarbons on the root surface of *Kandelia obovata* using a microscopic fluorescence spectral analysis method. In TALANTA. ISSN 0039-9140, 2017, vol. 167, no., pp. 86-93., Registrované v: WOS

7. [1.1] ZHAN, Xinhua - ZHU, Mandang - SHEN, Yu - YUE, Le - LI, Jinfeng - GARDEA-TORRESDEY, Jorge L. - XU, Guohua. Apoplastic and symplastic uptake of phenanthrene in wheat roots. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2018, vol. 233, no., pp. 331-339., Registrované v: WOS

8. [1.2] HOUSHANI, Mahdiah - SALEHI-LISAR, Seyed Yahya - MOVAFEGHI, Ali - MOTAFAKKERAZAD, Ruhollah. Growth and antioxidant system responses of maize (*Zea mays* L.) seedling to different concentration of pyrene in a controlled environment. In Acta Agriculturae Slovenica. ISSN 15819175, 2019-01-01, 113, 1, pp. 29-39., Registrované v: SCOPUS

ADCA282 ĐURANA, Richard - LACÍK, Igor - PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír. Functionalization of mannans from pathogenic yeasts by different means of oxidations-preparation of precursors for conjugation reactions with respect to preservation of immunological properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2006, vol. 63, no. 1, p. 72 - 81. (2005: 1.583 - IF, Q2 - JCR, 0.819 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] BORJESSON, M. - LARSSON, A. - WESTMAN, G. - STROM, A. Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617,

DEC 15 2018, vol. 202, p. 280-287., Registrované v: WOS

2. [1.1] BORJESSON, M. - WESTMAN, G. - LARSSON, A. - STROM, A. Thermoplastic and Flexible Films from Arabinoxylan. In ACS APPLIED POLYMER MATERIALS. JUN 2019, vol. 1, no. 6, p. 1443-1450., Registrované v: WOS

3. [1.1] GHAFAR, A. - GURIKOV, P. - SUBRAHMANYAM, R. - PARIKKA, K. - TENKANEN, M. - SMIRNOVA, I. - MIKKONEN, K.S. Mesoporous guar galactomannan based biocomposite aerogels through enzymatic crosslinking. In COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, MAR 2017, vol. 94, p. 93-103., Registrované v: WOS

4. [1.1] MANZANO, A.I. - CANADA, F.J. - CASES, B. - SIRVENT, S. - SORIA, I. - PALOMARES, O. - FERNANDEZ-CALDAS, E. - CASANOVAS, M. - JIMENEZ-BARBERO, J. - SUBIZA, J.L. Structural studies of novel glycoconjugates from polymerized allergens (allergoids) and mannans as allergy vaccines. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, FEB 2016, vol. 33, no. 1, p. 93-101., Registrované v: WOS

5. [1.1] PIERRE, G. - PUNTA, C. - DELATTRE, C. - MELONE, L. - DUBESSAY, P. - FIORATI, A. - PASTORI, N. - GALANTE, Y.M. - MICHAUD, P. TEMPO-mediated oxidation of polysaccharides: An ongoing story. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, JUN 1 2017, vol. 165, p. 71-85., Registrované v: WOS

ADCA283 ĐURANA, Richard - BYSTRICKÝ, Slavomír. Preparation and characterization of adipic acid dihydrazide derivatives of yeas mannans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2002, vol. 50, p. 177-181. (2001: 1.203 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(02\)00020-6](https://doi.org/10.1016/S0144-8617(02)00020-6)

Ohlasy:

1. [1.1] GABER, Mohamed - KHEDR, Abdalla M. - ELSHARKAWY, Mohsen. Characterization and thermal studies of nano-synthesized Mn(II), Co(II), Ni(II) and Cu(II) complexes with adipohydrazone ligand as new promising antimicrobial and antitumor agents. In APPLIED ORGANOMETALLIC CHEMISTRY. ISSN 0268-2605, 2017, vol. 31, no. 12, pp., Registrované v: WOS

2. [1.1] ZHANG, Hui - CUI, Sisi - LV, Huaxin - PEI, Xuejing - GAO, Meijiao - CHEN, Sainan - HU, Junli - ZHOU, Yifa - LIU, Yichun. A crosslinking strategy to make neutral polysaccharide nanofibers robust and biocompatible: With konjac glucomannan as an example. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 130-136., Registrované v: WOS

3. [1.2] HU, Haifeng - WANG, Yaoxian. Application of computer simulation technology in chemical synthesis of resin material ADH. In Chemical Engineering Transactions, 2017-01-01, 59, pp. 595-600., Registrované v: SCOPUS

4. [1.2] LI, Yanan - LIU, Hongzhi - LIU, Li - SHI, Aimin - LIN, Weijing - WANG, Qiang. Rheological Properties of Yeast Mannans of Three Kinds of Purity. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-02-28, 17, 2, pp. 36-43., Registrované v: SCOPUS

ADCA284 ĐURANOVÁ, Miroslava, Křupalová - HIRSCH, Ján - KOLENOVÁ, Katarína
- BIELY, Peter. Fungal Glucuronoyl Esterases and Substrate Uronic Acid
Recognition. Katarína Kolenová, Peter Biely. In *Bioscience Biotechnology and*
Biochemistry, 2009, vol.73, no.11, pp.2483-2487. Dostupné na:
<https://doi.org/10.1271/bbb.90486>

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola -
KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl
esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester
bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp.
2611-2618., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott -
KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON,
Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural
features of diverse bacterial glucuronoyl esterases facilitating recalcitrant
biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11,
no., pp., Registrované v: WOS
3. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott -
POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila -
LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl
esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic
compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258,
2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
4. [1.1] BELENOK, M. G. - ANDREEVA, O. V. - GARIFULLIN, B. F.
- STROBYKINA, A. S. - KRAVCHENKO, M. A. - VOLOSHINA, A. D. -
KATAEV, V. E. Synthesis and Antitubercular, Antimicrobial, and Hemolytic
Activity of Methyl D-Glucopyranuronate and Its Simplest Derivatives. In
RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017,
vol. 87, no. 12, pp. 2816-2825., Registrované v: WOS
5. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder -
WILLIAMSON, Adele. Biochemical Characterization of a Family 15
Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS*
ONE. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
6. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO,
Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath -
BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT,
Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P.
Fungal glucuronoyl esterases: Genome mining based enzyme discovery and
biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784,
2018, vol. 40, no., pp. 282-287., Registrované v: WOS
7. [1.1] D'ERRICO, Clotilde - JORGENSEN, Jonas O. - KROGH,
Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD,
Rune Nygaard. Enzymatic Degradation of Lignin-Carbohydrate Complexes
(LCCs): Model Studies Using a Fungal Glucuronoyl Esterase from *Cerrena*
Unicolor. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592,
2015, vol. 112, no. 5, pp. 914-922., Registrované v: WOS
8. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional
expression and characterization of a glucuronoyl esterase from the fungus
Neurospora crassa: identification of novel consensus sequences containing the

- catalytic triad. In JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS
9. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
10. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
11. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS
12. [1.1] KARNAOURI, Anthi - ANTONOPOULOU, Io - ZERVA, Anastasia - DIMAROGONA, Maria - TOPAKAS, Evangelos - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 279, no., pp. 362-372., Registrované v: WOS
13. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
14. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS
15. [1.1] MENG, Qing-Shan - ZHANG, Fei - WANG, Wei - LIU, Chen-Guang - ZHAO, Xin-Qing - BAI, Feng-Wu. Engineering the Effector Domain of the Artificial Transcription Factor to Improve Cellulase Production by *Trichoderma reesei*. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00675>., Registrované v: WOS
16. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS
17. [1.1] ZANNINI, Emanuele - WATERS, Deborah M. - COFFEY, Aidan - ARENDT, Elke K. Production, properties, and industrial food application of lactic acid bacteria-derived exopolysaccharides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100,

no. 3, pp. 1121-1135., Registrované v: WOS

18. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS

19. [3.2] Group Author(s). Uniprot Consortium. P0CT88. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P0CT88>, Registrované v: Data Citation Index

ADCA285 ĐURANOVÁ, Miroslava, Křupalová - ŠPÁNIKOVÁ, Silvia - WOSTEN, Han A.B. - BIELY, Peter - DE VRIES, Ronald P. Two glucuronoyl esterases of *Phanerochaete chrysosporium*. Han A.B. Wosten, Peter Biely, Ronald P de Vries. In *Archives of Microbiology*, 2009, vol.191, pp.133-140. (2008: 1.975 - IF, Q3 - JCR, 1.039 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s00203-008-0434-y>

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola - KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp. 2611-2618., Registrované v: WOS

2. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS

3. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

4. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In *JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY*. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS

5. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS

6. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS

7. [1.1] LOPEZ, Sara Casado - SIETIO, Outi-Maaria - HILDEN, Kristiina - DE VRIES, Ronald P. - MAKELA, Miia R. Homologous and Heterologous Expression of Basidiomycete Genes Related to Plant Biomass Degradation. In *GENE EXPRESSION SYSTEMS IN FUNGI*:

- ADVANCEMENTS AND APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 119-160., Registrované v: WOS
8. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS
 9. [1.1] SAKURAGI, Kiyoshi - HORI, Chiaki - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro. Secretome analysis of the basidiomycete *Phanerochaete chrysosporium* grown on ammonia-treated lignocellulosic biomass from birch wood. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2018, vol. 64, no. 6, pp. 845-853., Registrované v: WOS
 10. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS
 11. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
 12. [1.1] ZHU, Ning - LIU, Jiawen - YANG, Jinshui - LIN, Yujian - YANG, Yi - JI, Lei - LI, Meng - YUAN, Hongli. Comparative analysis of the secretomes of *Schizophyllum commune* and other wood-decay basidiomycetes during solid-state fermentation reveals its unique lignocellulose-degrading enzyme system. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
 13. [1.2] ADAM, S. - TLATLIK, S. - GOTTSCHALK, A. Technical production process for innovative antioxidants using novel enzymes as biocatalyst. In European Biomass Conference and Exhibition Proceedings, 2017-06-01, 2017, 25thEUBCE, pp. 2026-2029., Registrované v: SCOPUS
 14. [1.2] CONACHER, C. G. - GARCÍA-APARICIO, M. P. - COETZEE, G. - VAN ZYL, W. H. - GOSRGENS, J. F. Scalable methanol-free production of recombinant glucuronoyl esterase in *Pichia pastoris*. In BMC Research Notes, 2019-09-18, 12, 1, pp., Registrované v: SCOPUS
 15. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In New and Future Developments in Microbial Biotechnology and Bioengineering: *Aspergillus* System Properties and Applications, 2016-08-05, pp. 171-190., Registrované v: SCOPUS
 16. [1.2] MICHELIN, Michele - ROMANI, Aloia - SALGADO, Jose Manuel - DOMINGUES, Lucilia - TEIXEIRA, Jose A. Production of hemicellulases, xylitol, and furan from hemicellulosic hydrolysates using hydrothermal pretreatment. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 285-315., Registrované v: SCOPUS
 17. [3.2] Group Author(s). Uniprot Consortium. P0CT88. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P0CT88>, Registrované v: Data Citation Index

ADCA286 ĐURKOVIČ, J. - LUX, Alexander. Micropropagation with a novel pattern of adventitious rooting in American sweetgum (*Liquidambar styraciflua* L.). In *Trees-Structure and Function*, 2010, vol. 24, p. 491-497. (2009: 1.603 - IF, Q1 - JCR, 0.805 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0931-1890.

Ohlasy:

1. [1.1] BAYRAKTAR, Meltem - HAYTA, Sadiye - PARLAK, Salih - GUREL, Aynur. Micropropagation of centennial tertiary relict trees of *Liquidambar orientalis* Miller through meristematic nodules produced by cultures of primordial shoots. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2015, vol. 29, no. 4, pp. 999-1009., Registrované v: WOS
2. [1.1] ILIEV, I. A. Factors affecting the axillary and adventitious shoot formation in woody plants in vitro. In *VI INTERNATIONAL SYMPOSIUM ON PRODUCTION AND ESTABLISHMENT OF MICROPROPAGATED PLANTS*. ISSN 0567-7572, 2017, vol. 1155, no., pp. 15-27., Registrované v: WOS
3. [1.2] RAKRAWEE, R. - KITTIBANPACHA, K. - CHAREONSAP, P. P. - POEAIM, A. Efficiency of cytokinin for propagation of *Gluta usitata* (Na-pong3) in vitro. In *International Journal of Agricultural Technology*, 2018-12-01, 14, 7, pp. 1731-1742., Registrované v: SCOPUS

ADCA287 DURUKSU, Gokhan - OZTURK, Bengu - BIELY, Peter - BAKIR, Ufuk - OGEL, Zumrut B. Cloning, Expression and Characterization of Endo-beta-1,4-Mannanase from *Aspergillus fumigatus* in *Aspergillus sojae* and *Pichia pastoris*. Peter Biely, Ufuk Bakir, Zumrut B Ogel. In *Biotechnol. Prog.*, 2009, vol.25, no. 1, pp.271-276. Dostupné na: <https://doi.org/10.1021/bp.104>

Ohlasy:

1. [1.1] ERGUN, Burcu Gunduz - CALIK, Pinar. Lignocellulose degrading extremozymes produced by *Pichia pastoris*: current status and future prospects. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2016, vol. 39, no. 1, pp. 1-36., Registrované v: WOS
2. [1.1] KATSIMPOURAS, Constantinos - DIMAROGONA, Maria - PETROPOULOS, Pericles - CHRISTAKOPOULOS, Paul - TOPAKAS, Evangelos. A thermostable GH26 endo-beta-mannanase from *Myceliophthora thermophila* capable of enhancing lignocellulose degradation. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 19, pp. 8385-8397., Registrované v: WOS
3. [1.1] LI, Huiling - LIU, Zuyan - WANG, Chunlei - HUANG, Shichen - ZHAO, Min. Secretory expression and characterization of a novel thermo-stable, salt-tolerant endo-1,4-beta-mannanase of *Bacillus subtilis* WD23 by *Pichia pastoris*. In *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. ISSN 1438-2377, 2015, vol. 240, no. 4, pp. 671-677., Registrované v: WOS
4. [1.1] WANG, Caihong - ZHANG, Jiankang - WANG, Yuan - NIU, Canfang - MA, Rui - WANG, Yaru - BAI, Yingguo - LUO, Huiying - YAO, Bin. Biochemical characterization of an acidophilic beta-mannanase from *Gloeophyllum trabeum* CBS900.73 with significant transglycosylation activity and feed digesting ability. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 197, no., pp. 474-481., Registrované v: WOS
5. [1.1] YANG, Hong - SHI, Pengjun - LU, Haiqiang - WANG, Huimin

- LUO, Huiying - HUANG, Huoging - YANG, Peilong - YAO, Bin. A thermophilic beta-mannanase from *Neosartorya fischeri* P1 with broad pH stability and significant hydrolysis ability of various mannan polymers. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2015, vol. 173, no., pp. 283-289., Registrované v: WOS

6. [1.1] YATMAZ, Ercan - KARAHALIL, Ercan - GERMEC, Mustafa - ILGIN, Merve - TURHAN, Irfan. Controlling filamentous fungi morphology with microparticles to enhanced beta-mannanase production. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2016, vol. 39, no. 9, pp. 1391-1399., Registrované v: WOS

7. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In *New and Future Developments in Microbial Biotechnology and Bioengineering: Aspergillus System Properties and Applications*, 2016-08-05, pp. 171-190., Registrované v: SCOPUS

ADCA288 DURUKSU, G. - OZTURK, B. - BIELY, Peter - BAKIR, U. - OGEL, Z.B. Cloning, expression and characterization of endo- β -1,4-mannanase from *Aspergillus fumigatus* in *Aspergillus sojae* and *Pichia pastoris*. In *Biotechnology Progress*, 2009, vol. 25, p. 271-276. (2008: 2.108 - IF, Q1 - JCR, 0.895 - SJR, Q2 - SJR). ISSN 8756-7938. Dostupné na: <https://doi.org/10.1002/btpr.104>

Ohlasy:

1. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of different fermentation strategies on beta-mannanase production in fed-batch bioreactor system. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS

2. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - TURHAN, Irfan. beta-Mannanase production and kinetic modeling from carob extract by using recombinant *Aspergillus sojae*. In *BIOTECHNOLOGY PROGRESS*. ISSN 8756-7938, 2019, vol. 35, no. 6, pp., Registrované v: WOS

3. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN, Irfan. Partial purification and characterization of a recombinant beta-mannanase from *Aspergillus fumigatus* expressed in *Aspergillus sojae* grown on carob extract. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na:

<https://doi.org/10.1007/s13399-019-00487-1>, Registrované v: WOS

4. [1.1] LADEVEZE, Simon - LAVILLE, Elisabeth - DESPRES, Jordane - MOSONI, Pascale - POTOCKI-VERONESE, Gabrielle. Mannoside recognition and degradation by bacteria. In *BIOLOGICAL REVIEWS*. ISSN 1464-7931, 2017, vol. 92, no. 4, pp. 1969-1990., Registrované v: WOS

5. [1.1] LIU, Junquan - BASIT, Abdul - MIAO, Ting - ZHENG, Fengzhen - YU, Hang - WANG, Yan - JIANG, Wei - CAO, Yunhe. Secretory expression ofmannanase in *Saccharomyces cerevisiae* and its high efficiency for hydrolysis of mannans to mannooligosaccharides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 23, pp. 10027-10041., Registrované v: WOS

6. [1.1] LIU, Zhemin - NING, Chen - YUAN, Mingxue - YANG, Suxiao - WEI, Xinyi - XIAO, Mengshi - FU, Xiaodan - ZHU, Changliang - MOU, Haijin. High-level expression of a thermophilic and acidophilic

beta-mannanase from *Aspergillus kawachii* IFO 4308 with significant potential in mannooligosaccharide preparation. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na:

<https://doi.org/10.1016/j.biortech.2019.122257>., Registrované v: WOS

7. [1.1] SAKAI, Kiyota - MOCHIZUKI, Mai - YAMADA, Miyuki - SHINZAWA, Yuta - MINEZAWA, Miho - KIMOTO, Saran - MURATA, Shunsuke - KANEKO, Yuhei - ISHIHARA, Saaya - JINDOU, Sadanari - KOBAYASHI, Tetsuo - KATO, Masashi - SHIMIZU, Motoyuki. Biochemical characterization of thermostable beta-1,4-mannanase belonging to the glycoside hydrolase family 134 from *Aspergillus oryzae*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3237-3245., Registrované v: WOS

8. [1.1] YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>., Registrované v: WOS

9. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Characterization and high-efficiency secreted expression in *Bacillus subtilis* of a thermo-alkaline beta-mannanase from an alkaliphilic *Bacillus clausii* strain S10. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS

10. [1.2] DA CRUZ, Andreza Furquim. Mannan-degrading enzyme system. In *Fungal Enzymes*, 2016-04-19, pp. 233-257., Registrované v: SCOPUS

11. [3.2] Group Author(s). Uniprot Consortium. Q4WBS1. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: Data Citation Index

12. [3.2] Group Author(s): Uniprot Consortium. Q4WBS1 IN UniProt Knowledgebase database. Dostupné na internete

<http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: Data Citation Index

ADCA289 DZURILLA, M. - RUŽINSKÝ, M. - KUTSCHY, P. - TEWARI, J.P. - KOVÁČIK, Vladimír. Application of 2-substituted ethyl isothiocyanates and 2-aminothiols in the synthesis of the analogs of indole phytoalexin camalexin. In *Collection of Czechoslovak Chemical Communications*, 1999, vol. 64, p. 1448-1456. (1998: 0.550 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] FADDA, Ahmed - KANDEEL, Ezz Eldeen - EL-GENDY, Eman. Synthesis and antimicrobial evaluation of some new hydrazo, dihydropyridazinyl and triazolyl derivatives containing indole nucleus. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 2, pp. 122-130., Registrované v: WOS

2. [1.1] STREMSKI, Yordan - STATKOVA-ABEGHE, Stela - ANGELOV, Plamen - IVANOV, Iliyan. Synthesis of Camalexin and Related Analogues. In *JOURNAL OF HETEROCYCLIC CHEMISTRY*. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1589-1595., Registrované v: WOS

3. [1.1] VADDULA, Buchi Reddy - TANTAK, Mukund P. - SADANA, Rachana - GONZALEZ, Michael A. - KUMAR, Dalip. One-pot synthesis and

in-vitro anticancer evaluation of 5-(2'-indolyl)thiazoles. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

ADCA290 DZURILLA, M. - KUTSCHY, P. - ZÁLETOVÁ, J. - RUŽINSKÝ, M. - KOVÁČIK, Vladimír. Synthesis of camalexin. In *Molecules*, 2001, vol. 6, p. 716-720. ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/60900716>

Ohlasy:

1. [1.1] EL-SAWY, Eslam R. - ABO-SALEM, Heba M. - MANDOUR, Adel H. 1H-Indole-3-carboxaldehyde: Synthesis and Reactions. In EGYPTIAN JOURNAL OF CHEMISTRY. ISSN 0449-2285, 2017, vol. 60, no. 5, pp. 723-751., Registrované v: WOS
2. [1.1] EL-SAWY, Eslam R. - ABDELWAHAB, Ahmed B. - KIRSCH, Gilbert. Utilization of 1 HIndole-3-carboxaldehyde as a Precursor for the Synthesis of Bioactive Indole Alkaloids. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2018, vol. 50, no. 23, pp. 4525-4538., Registrované v: WOS
3. [1.1] STREMSKI, Yordan - STATKOVA-ABEGHE, Stela - ANGELOV, Plamen - IVANOV, Iliyan. Synthesis of Camalexin and Related Analogues. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1589-1595., Registrované v: WOS

ADCA291 DZURILLA, M. - KUTSCHY, P. - TEWARI, J.P. - RUŽINSKÝ, M. - ŠENVICKÝ, S. - KOVÁČIK, Vladimír. Synthesis and antifungal activity of new indolylthiazinone derivatives. In *Collection of Czechoslovak Chemical Communications*, 1998, vol. 63, p. 94-102. (1998 - Current Contents). ISSN 0010-0765. Dostupné na: <https://doi.org/10.1135/cccc19980094>

Ohlasy:

1. [1.1] FATIMA, Urooj - BHORALI, Priyadarshini - BORAH, Sudarshana - SENTHIL-KUMAR, Muthappa. Perspectives on the utilization of resistance mechanisms from host and nonhost plants for durable protection of Brassica crops against Alternaria blight. In PEERJ. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS
2. [1.1] SILVERBERG, Lee J. - MOYER, Quentin J. Chemistry of 1,3-thiazin-4-ones and their derivatives, 1995-mid-2018. In ARKIVOC. ISSN 1551-7004, 2019, vol., no., pp. 139-227., Registrované v: WOS
3. [1.2] Chattopadhyay, C., & Kolte, S. J. (2015). Diseases. In Brassica oilseeds: Breeding and management (CABI International, pp. 115-147), Registrované v: SCOPUS
4. [1.2] MEENA, P. D. - TAJ, Gohar - CHATTOPADHYAY, C. Pathogenesis of Alternaria species: Physiological, biochemical and molecular characterization. In Brassica Oilseeds: Breeding and Management, 2015-01-01, pp. 171-183., Registrované v: SCOPUS

ADCA292 DZYGIEL, P. - REEVE, T.B. - PIARULLI, U. - KRUPÍČKA, Martin - TVAROŠKA, Igor - GENNARI, C. Resolution of racemic N-benzyl alfa-amino acids by liquid-liquid extraction: a practical method using a lipophilic chiral cobalt (III) salen complex and mechanistic studies. In *European Journal of Organic Chemistry*, 2008, p. 1253-1264. Dostupné na: <https://doi.org/10.1002/ejoc.200701101>

Ohlasy:

1. [1.1] DE LOS SANTOS, Zeus A. - LYNCH, Ciaran C. - WOLF,

- Christian. Optical Chirality Sensing with an Auxiliary-Free Earth-Abundant Cobalt Probe. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2019, vol. 58, no. 4, pp. 1198-1202., Registrované v: WOS
2. [1.1] CHEN, Qian - JIN, Yingji - HUANG, Haoifei - SU, Zhishan - KIM, Seong Kyu - KIM, Kwan Mook. Enantioselective Liquid-Liquid Extraction of Underivatized Amino Acids with Simple Chiral Aminophenyl-Aldehyde. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY. ISSN 1229-5949, 2018, vol. 39, no. 8, pp. 960-964., Registrované v: WOS
3. [1.1] SHAW, Subrata - WHITE, James D. Asymmetric Catalysis Using Chiral Salen-Metal Complexes: Recent Advances. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 16, pp. 9381-9426., Registrované v: WOS
4. [1.1] WU, Datong - PAN, Fei - TAN, Wensheng - GAO, Li - TAO, Yongxin - KONG, Yong. Recent progress of enantioseparation under scale production (2014-2019). In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2020, vol. 43, no. 1, pp. 337-347. Dostupné na: <https://doi.org/10.1002/jssc.201900682>., Registrované v: WOS
5. [1.2] CHAPTER 11: Synthesis of Chiral Acyclic Compounds Through Miscellaneous Enantioselective Cobalt-catalysed Reactions. In RSC Catalysis Series. ISSN 17576725, 2018-01-01, 2018-January, 35, pp. 204-217., Registrované v: SCOPUS

ADCA293 DŽUBÁK, Petr - GURSKÁ, Soňa - BOGDANOVÁ, Kateřina - UHRÍKOVÁ, Daniela - KANJAKOVÁ, Nina - COMBET, Sophie - KLUNDA, Tomáš - KOLÁŘ, Milan - HAJDÚCH, Marian** - POLÁKOVÁ, Monika**. Antimicrobial and cytotoxic activity of (thio)alkyl hexopyranosides, nonionic glycolipid mimetics. In *Carbohydrate Research*, 2020, vol. 488, art. no. 107905 [11] p. (2019: 1.841 - IF, Q2 - JCR, 0.501 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2019.107905>

Ohlasy:

1. [1.1] ISILAR, Ozer - BULUT, Adnan - YAGLIOGLU, Ayse Sahin - DEMIRTAS, Ibrahim - ARAT, Esra - TURK, Mustafa. Synthesis and biological evaluation of novel urea, thiourea and squaramide diastereomers possessing sugar backbone. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107991>., Registrované v: WOS

ADCA294 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - EREMEEVA, T.E. Alternative Verfahren zur Gewinnung von Hemicellulosen des D-Xylantyps aus Laubholzer. In *Holz als Roh- und Werkstoff*, 1989, vol. 47, p. 355-358. ISSN 0018-3768. Dostupné na: <https://doi.org/10.1007/BF02606031>

Ohlasy:

1. [1.1] NGUYEN HOANG CHUNG - PHAN HUY HOANG. PREPARATION OF OAT SPELT XYLAN AND ITS APPLICATION AS ADDITIVE FOR ENHANCEMENT OF PAPER PROPERTIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2019, vol. 53, no. 5-6, pp. 499-507., Registrované v: WOS
2. [1.1] PUJOL, C. A. - DAMONTE, E. B. - TURJAN, J. - YANBO, K. Z. - CAPEK, P. The antiviral potency of *Fagus sylvatica* 4OMe-glucuronoxylan

sulfates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 87, no., pp. 195-200., Registrované v: WOS

3. [1.1] SIVOVA, Veronika - NOSAL'OVA, Gabriela - JURECEK, L'udovit - TURJAN, Jozef - VLCKOVA, Silvia - BYSTRICKY, Peter - KANTAROVA, Dana - CAPEK, Peter. Fagus sylvatica glucuronoxylan sulfate-chemical profile and pharmacological view. In STARCH-STARKE. ISSN 0038-9056, 2016, vol. 68, no. 7-8, pp. 621-628., Registrované v: WOS

4. [1.1] VIELL, Joern - SZEKELY, Noemi K. - MANGIAPIA, Gaetano - HOEVELMANN, Claas - MARKS, Caroline - FRIELINGHAUS, Henrich. In operando monitoring of wood transformation during pretreatment with ionic liquids. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 4889-4907. Dostupné na: <https://doi.org/10.1007/s10570-020-03119-4>., Registrované v: WOS

ADCA295 EBRINGEROVÁ, Anna - SROKOVÁ, Iva - TALÁBA, P. - KAČURÁKOVÁ, Marta - HROMÁDKOVÁ, Zdenka. Amphiphilic beechwood glucuronoxylan derivatives. In *Journal of Applied Polymer Science*, 1998, vol. 67, p. 1523-1530. (1997: 0.841 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0021-8995.

Ohlasy:

1. [1.1] GABRIEL, Lars - GERICKE, Martin - HEINZE, Thomas. Modular synthesis of non-charged and ionic xylan carbamate derivatives from xylan carbonates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 782-790., Registrované v: WOS

2. [1.1] GABRIEL, Lars - KOSCHELLA, Andreas - TIED, Antje - PFEIFER, Annett - HEINZE, Thomas. Sulfoethylation of polysaccharides-A comparative study. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116533>., Registrované v: WOS

3. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

4. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS

5. [1.1] NAZ, Muhammad Yasin - SULAIMAN, Shaharin Anwar. Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. In REVIEWS IN CHEMICAL ENGINEERING. ISSN 0167-8299, 2017, vol. 33, no. 3, pp. 293-308., Registrované v: WOS

6. [1.1] NYPELOE, Tlina - LAINE, Christiane - AOKI, Masaaki - TAMMELIN, Tekla - HENNIGES, Ute. Etherification of Wood-Based Hemicelluloses for Interfacial Activity. In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 5, pp. 1894-1901., Registrované v: WOS

7. [1.1] PANSRIPONG, Saran - ARJHARN, Weerachai - LIPLAP, Pansa - HINSUI, Thipsuphin. Effect of Ultrasonic Pretreatment on Biogas Production from Rice Straw. In ORIENTAL JOURNAL OF CHEMISTRY.

ISSN 0970-020X, 2019, vol. 35, no. 4, pp. 1265-1273., Registrované v: WOS
 8. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
 9. [1.1] ZENG, Yining - YARBROUGH, John M. - MITTAL, Ashutosh - TUCKER, Melvin P. - VINZANT, Todd B. - DECKER, Stephen R. - HIMMEL, Michael E. In situ label-free imaging of hemicellulose in plant cell walls using stimulated Raman scattering microscopy. In Biotechnology for Biofuels. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
 10. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA296 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. An overview on the application of ultrasound in extraction, separation and purification of plant polysaccharides. In *Central European Journal of Chemistry*, 2010, vol. 8, no. 2, p. 243-257. (2009: 1.065 - IF, Q3 - JCR, 0.317 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1895-1066. Dostupné na: <https://doi.org/10.2478/s11532-010-0006-2>

Ohlasy:

1. [1.1] AGCAM, E. - AKYILDIZ, A. - BALASUBRAMANIAM, V. M. Optimization of anthocyanins extraction from black carrot pomace with thermosonication. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 237, no., pp. 461-470., Registrované v: WOS
2. [1.1] ALEXANDRE, Elisabete M. C. - PINTO, Carlos A. - MOREIRA, Silvia A. - PINTADO, Manuela - SARAIVA, Jorge A. Nonthermal food processing/preservation technologies. In SAVING FOOD: PRODUCTION, SUPPLY CHAIN, FOOD WASTE, AND FOOD CONSUMPTION, 2019, vol., no., pp. 141-169., Registrované v: WOS
3. [1.1] ALZORQI, Ibrahim - MANICKAM, Sivakumar. Effects of axial circulation and dispersion geometry on the scale-up of ultrasonic extraction of polysaccharides. In AICHE JOURNAL. ISSN 0001-1541, 2015, vol. 61, no. 5, pp. 1483-1491., Registrované v: WOS
4. [1.1] AMINI, Asad Mohammad - RAZAVI, Seyed Mohammad Ali - MORTAZAVI, Seyed Ali. Morphological, physicochemical, and viscoelastic properties of sonicated corn starch. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 122, no., pp. 282-292., Registrované v: WOS
5. [1.1] AMIRKHANI, Hadi - YUNUS, Robiah - RASHID, Umer - SALLEH, Shanti Faridah - RADHIAH, A. B. Dayang - SYAM, Syafie. Low-Temperature Dilute Acid Hydrolysis of Oil Palm Frond. In CHEMICAL ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2015, vol. 202, no. 9, pp. 1235-1244., Registrované v: WOS
6. [1.1] ANGEL SANCHEZ-MADRIGAL, Miguel - ABEL AMAYA-GUERRA, Carlos - QUINTERO-RAMOS, Armando - GABRIEL BAEZ-GONZALEZ, Juan - ADRIANA NUNEZ-GONZALEZ, Maria - GRACIELA RUIZ-GUTIERREZ, Martha - ANTONIO GARZON-TIZNADO, Jose. Ultrasound-assisted extraction of fructans from agave (*Agave tequilana* Weber var. azul) at different ultrasound powers and solid-liquid ratios. In FOOD

SCIENCE AND TECHNOLOGY. ISSN 0101-2061, 2017, vol. 37, no. 2, pp. 261-268., Registrované v: WOS

7. [1.1] CELLI, Giovana Bonat - GHANEM, Amyl - BROOKS, Marianne Su-Ling. Optimization of ultrasound-assisted extraction of anthocyanins from haskap berries (*Lonicera caerulea* L.) using Response Surface Methodology. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2015, vol. 27, no., pp. 449-455., Registrované v: WOS

8. [1.1] DEETAE, Pawinee - TSENG, Kwanrudee - PASUPHAN, Chanathinart - PANYA, Atikorn - METHACANON, Pawadee - TEMTHAWEE, Waranya - SUPHANTHARIKA, Manop. Ultrasonic Extraction, Antioxidant and Anti-glycation Activities of Polysaccharides from *Gynura Divaricata* Leaves. In CHIANG MAI JOURNAL OF SCIENCE. ISSN 0125-2526, 2017, vol. 44, no. 1, pp. 144-156., Registrované v: WOS

9. [1.1] FENG, Yuqin - ZHANG, Jixian - WEN, Chaoting - DZAH, Courage Sedem - JULIET, Igbokwe Chidimma - DUAN, Yuqing - ZHANG, Haihui. Recent advances in *Agaricus bisporus* polysaccharides: Extraction, purification, physicochemical characterization and bioactivities. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 94, no., pp. 39-50. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.010>., Registrované v: WOS

10. [1.1] FLOREZ-FERNANDEZ, Noelia - GONZALEZ MUNOZ, Maria Jesus. Ultrasound-Assisted Extraction of Bioactive Carbohydrates. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 317-331., Registrované v: WOS

11. [1.1] GEORGIEV, Yordan N. - OGNYANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS

12. [1.1] GU, Hanqi - ZHU, Yuyong - LI, Jie - PENG, Yanfang - HUANG, Jinglu - BI, Chunpu. Ultrasound-assisted fractionation of dried distillers' grains with solubles (DDGS) at mild temperature for co-production of xylan and protein feed. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2019, vol. 94, no. 3, pp. 829-836., Registrované v: WOS

13. [1.1] HMELKOV, Andrey B. - ZVYAGINTSEVA, Tatiana N. - SHEVCHENKO, Natalia M. - RASIN, Anton B. - ERMAKOVA, Svetlana P. Ultrasound-assisted extraction of polysaccharides from brown alga *Fucus evanescens*. Structure and biological activity of the new fucoidan fractions. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 3, pp. 2039-2046., Registrované v: WOS

14. [1.1] HOLKAR, Chandrakant R. - JADHAV, Ananda J. - BHAVSAR, Parag S. - KANNAN, Shweta - PINJARI, Dipak V. - PANDIT, Aniruddha B. Acoustic Cavitation Assisted Alkaline Hydrolysis of Wool Based Keratins To Produce Organic Amendment Fertilizers. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 5, pp. 2789-2796., Registrované v: WOS

15. [1.1] JIANG, Ping - ZHANG, Qian - ZHAO, Yajie - XIONG, Jia - WANG, Fei - ZHANG, Ting - ZHANG, Chenmeng. Extraction, Purification, and Biological Activities of Polysaccharides from Branches and Leaves of *Taxus*

cuspidata S. et Z. In *MOLECULES*, 2019, vol. 24, no. 16, pp., Registrované v: WOS

16. [1.1] KARADAG, A. - PELVAN, E. - DOGAN, K. - CELIK, N. - OZTURK, D. - AKALIN, K. - ALASALVAR, C. Optimisation of green tea polysaccharides by ultrasound-assisted extraction and their in vitro antidiabetic activities. In *QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS*. ISSN 1757-8361, 2019, vol. 11, no. 5, pp. 479-490., Registrované v: WOS

17. [1.1] LIN, Tingting - LIU, Yan - LAI, Changjiangsheng - YANG, Tingting - XIE, Junbo - ZHANG, Yanqing. The effect of ultrasound assisted extraction on structural composition, antioxidant activity and immunoregulation of polysaccharides from *Ziziphus jujuba* Mill var. *spinosa* seeds. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 150-159., Registrované v: WOS

18. [1.1] LIN, Yuan - QI, Xingsi - LIU, Hengjian - XUE, Kuijin - XU, Shan - TIAN, Zibin. The anti-cancer effects of fucoidan: a review of both in vivo and in vitro investigations. In *CANCER CELL INTERNATIONAL*, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12935-020-01233-8>., Registrované v: WOS

19. [1.1] MARAN, J. Prakash - PRIYA, B. OPTIMIZATION OF ULTRASOUND-ASSISTED EXTRACTION OF NATURAL PIGMENTS FROM *AMARANTHUS TRICOLOR* L LEAVES (Retracted article. See vol. 40, pg. 349, 2016). In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2015, vol. 39, no. 6, pp. 2314-2321., Registrované v: WOS

20. [1.1] MARAN, J. Prakash - PRIYA, B. Natural Pigments Extraction from *Basella rubra* L. Fruits by Ultrasound-Assisted Extraction Combined with Box-Behnken Response Surface Design. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2015, vol. 50, no. 10, pp. 1532-1540., Registrované v: WOS

21. [1.1] MARAN, J. Prakash - PRIYA, B. Ultrasound-assisted extraction of pectin from sisal waste. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 115, no., pp. 732-738., Registrované v: WOS

22. [1.1] MARAN, J. Prakash - PRIYA, B. - NIVETHA, C. Vigna. Optimization of ultrasound-assisted extraction of natural pigments from *Bougainvillea glabra* flowers. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 63, no., pp. 182-189., Registrované v: WOS

23. [1.1] MARQUES, Ana Isabel - SERRANO, Maria de Lurdes - BRITES ALVES, Ana Maria - MENDES DE SOUSA, Antonio P. Isolation of xylans from bleached *Eucalyptus* kraft pulp by antisolvents precipitation. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 3, pp. 1977-1992., Registrované v: WOS

24. [1.1] MASON, T. J. - VINATORU, M. Ultrasonically Assisted Extraction in Food Processing and the Challenges of Integrating Ultrasound into the Food Industry. In *ULTRASOUND IN FOOD PROCESSING: RECENT ADVANCES*, 2017, vol., no., pp. 329-353., Registrované v: WOS

25. [1.1] MEDLEJ, Mohammad Kazem - CHERRI, Batoul - NASSER, Ghassan - ZAVISKA, Francois - HIJAZI, Akram - LI, Suming - POCHAT-BOHATIER, Celine. Optimization of polysaccharides extraction from a wild species of *Ornithogalum* combining ultrasound and maceration and their anti-oxidant properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL*

MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 958-968.
Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.021>., Registrované v: WOS

26. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS

27. [1.1] MOREIRA, Silvia A. - ALEXANDRE, Elisabete M. C. - PINTADO, Manuela - SARAIVA, Jorge A. Effect of emergent non-thermal extraction technologies on bioactive individual compounds profile from different plant materials. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 115, no., pp. 177-190., Registrované v: WOS

28. [1.1] MORENO-CASTRO, L. E. - QUINTERO-RAMOS, A. - RUIZ-GUTIERREZ, M. G. - SANCHEZ-MADRIGAL, M. A. - MELENDEZ-PIZARRO, C. O. - PEREZ-REYES, I. - LARDIZABAL-GUTIERREZ, D. NIXTAMALIZATION ASSISTED WITH ULTRASOUND: EFFECT ON MASS TRANSFER AND PHYSICOCHEMICAL PROPERTIES OF NIXTAMAL, MASA AND TORTILLA. In REVISTA MEXICANA DE INGENIERIA QUIMICA. ISSN 1665-2738, 2015, vol. 14, no. 2, pp. 265-279., Registrované v: WOS

29. [1.1] MORE, Snehal B. - GOGATE, Parag R. - WAGHMARE, Jyotsna S. Intensification of acid catalyzed synthesis of tricaprolylin using ultrasound pretreatment. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2017, vol. 120, no., pp. 317-329., Registrované v: WOS

30. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS

31. [1.1] NARVAEZ-FLORES, Martin - SANCHEZ-MADRIGAL, Miguel A. - QUINTERO-RAMOS, Armando - PAREDES-LIZARRAGA, Marco A. - GONZALEZ-LAREDO, Ruben F. - RUIZ-GUTIERREZ, Martha G. - PINON-CASTILLO, Hilda A. - MELENDEZ-PIZARRO, Carmen O. Ultrasound assisted extraction modeling of fructans from agave (Agave tequilana Weber var. Azul) at different temperatures and ultrasound powers. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 96, no., pp. 232-239., Registrované v: WOS

32. [1.1] NGO DINH VU - HANG THI TRAN - NHI DINH BUI - CUONG DUC VU - HUNG VIET NGUYEN. Lignin and Cellulose Extraction from Vietnam's Rice Straw Using Ultrasound-Assisted Alkaline Treatment Method. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2017, vol., no., pp., Registrované v: WOS

33. [1.1] NGO THI HOAI DUONG - NGO DANG NGHIA. Effects of low-frequency ultrasound on heterogenous deacetylation of chitin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 1604-1610., Registrované v: WOS

34. [1.1] PARDO-RUEDA, Abril J. - QUINTERO-RAMOS, Armando - GENOVESE, Diego B. - CAMACHO-DAVILA, Alejandro - ZEPEDA-RODRIGUEZ, Armando - CONTRERAS-ESQUIVEL, Juan C. -

- PATRICIA BIZARRO, A. Efficient extraction of fructans from sotol plant (*Dasyliroion leiophyllum*) enhanced by a combination of enzymatic and sonothermal treatments. In **FOOD AND BIOPRODUCTS PROCESSING**. ISSN 0960-3085, 2015, vol. 94, no., pp. 398-404., Registrované v: WOS
35. [1.1] POON, Jia Jun - TAN, Mei Ching - KIEW, Peck Loo. ULTRASOUND-ASSISTED EXTRACTION IN DELIGNIFICATION PROCESS TO OBTAIN HIGH PURITY CELLULOSE. In **CELLULOSE CHEMISTRY AND TECHNOLOGY**. ISSN 0576-9787, 2020, vol. 54, no. 7-8, pp. 725-734., Registrované v: WOS
36. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In **ULTRASONICS SONOCHEMISTRY**. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS
37. [1.1] SABATER, Carlos - SABATER, Victor - OLANO, Agustin - MONTILLA, Antonia - CORZO, Nieves. Ultrasound-assisted extraction of pectin from artichoke by-products. An artificial neural network approach to pectin characterisation. In **FOOD HYDROCOLLOIDS**. ISSN 0268-005X, 2020, vol. 98, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105238>., Registrované v: WOS
38. [1.1] SANCHEZ-MADRIGAL, M. A. - BELTRAN-VERDUGO, V. R. - QUINTERO-RAMOS, A. - AMAYA-GUERRA, C. A. - MELENDEZ-PIZARRO, C. O. - RUIZ-GUTIERREZ, M. G. - LARDIZABAL-GUTIERREZ, D. - NEDER-SUAREZ, D. - ORTIZ-BASURTO, R. I. EFFECT OF ULTRASOUND ON THE CARBOHYDRATE EXTRACTION FROM SOTOL PLANTS (*Dasyliroion wheeleri*) AT DIFFERENT POWERS AND TEMPERATURES. In **REVISTA MEXICANA DE INGENIERIA QUIMICA**. ISSN 1665-2738, 2017, vol. 16, no. 3, pp. 845-859., Registrované v: WOS
39. [1.1] SUN, Haiyao - LI, Chunying - NI, Yujiao - YAO, Liping - JIANG, Hongwei - REN, Xueting - FU, Yujie - ZHAO, Chunjian. Ultrasonic/microwave-assisted extraction of polysaccharides from *Camptotheca acuminata* fruits and its antitumor activity. In **CARBOHYDRATE POLYMERS**. ISSN 0144-8617, 2019, vol. 206, no., pp. 557-564., Registrované v: WOS
40. [1.1] TRISANT, Prida Novarita - GUNARDI, Ignatius - SUMARNO. The Influence of Hydrolysis Time in Hydrothermal Process of Cellulose from Sengon Wood Sawdust. In **MACROMOLECULAR SYMPOSIA**. ISSN 1022-1360, 2020, vol. 391, no. 1, pp. Dostupné na: <https://doi.org/10.1002/masy.202000016>., Registrované v: WOS
41. [1.1] TSALAGKAS, Dimitrios - LAGANA, Rastislav - POLJANSEK, Ida - OVEN, Primož - CSOKA, Levente. Fabrication of bacterial cellulose thin films self-assembled from sonochemically prepared nanofibrils and its characterization. In **ULTRASONICS SONOCHEMISTRY**. ISSN 1350-4177, 2016, vol. 28, no., pp. 136-143., Registrované v: WOS
42. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In **CARBOHYDRATE POLYMERS**. ISSN

0144-8617, 2020, vol. 250, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS

43. [1.1] WANG, Wenjun - MA, Xiaobin - XU, Yuting - CAO, Yongqiang - JIANG, Zhumao - DING, Tian - YE, Xingqian - LIU, Donghong. Ultrasound-assisted heating extraction of pectin from grapefruit peel: Optimization and comparison with the conventional method. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2015, vol. 178, no., pp. 106-114., Registrované v: WOS
44. [1.1] YAN, Jing-Kun - WANG, Yao-Yao - QIU, Wen-Yi - WANG, Zhen-Bin - MA, Haile. Ultrasound synergized with three-phase partitioning for extraction and separation of *Corbicula fluminea* polysaccharides and possible relevant mechanisms. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 40, no., pp. 128-134., Registrované v: WOS
45. [1.1] ZHAO, Chunjian - LI, Zhao - LI, Chunying - YANG, Lei - YAO, Liping - FU, Yujie - HE, Xin - SHI, Kunming - LU, Zhicheng. Optimized extraction of polysaccharides from *Taxus chinensis* var. *mairei* fruits and its antitumor activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 75, no., pp. 192-198., Registrované v: WOS
46. [1.2] ALZORQI, Ibrahim - MANICKAM, Sivakumar. Ultrasonic process intensification for the efficient extraction of nutritionally active ingredients of polysaccharides from bioresources #42. In *Handbook of Ultrasonics and Sonochemistry*, 2016-01-01, pp. 1271-1286., Registrované v: SCOPUS
47. [1.2] DAI, Lin - ZHANG, Yong - HU, Chi - QIAN, Hongliang - WANG, Zhixiang. Mathematical modeling for ultrasonic-assisted extraction of arctigenin from acid hydrolyzed *Fructus Arctii*. In *Journal of Southeast University (English Edition)*. ISSN 10037985, 2017-09-01, 33, 3, pp. 362-369., Registrované v: SCOPUS
48. [1.2] LIU, Sheng - ZHENG, Tian Yan - GAO, Han - HUI, Ai Ling - ZHANG, Wen Cheng - ZHANG, Hua Wei - DU, Biao. Effects of Different Extraction Methods on the Content and Structural Properties of Pectin from Okra. In *Modern Food Science and Technology*. ISSN 16739078, 2019-03-20, 35, 3, pp. 161-168., Registrované v: SCOPUS
49. [1.2] MARAN, J. Prakash - PRIYA, B. Multivariate statistical analysis and optimization of ultrasound-assisted extraction of natural pigments from waste red beet stalks. In *Journal of Food Science and Technology*. ISSN 00221155, 2016-01-01, 53, 1, pp. 792-799., Registrované v: SCOPUS
50. [1.2] MARTINS, Rodrigo M. - FREITAS, Luis Victor D. - MONTES, Ana Carolina R. - FREITAS, Luis Alexandre P. The extraction of bioactives from plants. In *Recent Developments in Phytomedicine Technology*, 2017-01-01, pp. 93-123., Registrované v: SCOPUS
51. [1.2] MICHALAK, Izabela - DMYTRYK, Agnieszka - GODLEWSKA, Katarzyna - WILK, Radosław - CHOJNACKA, Katarzyna. Marine polysaccharides as biostimulants of plant growth. In *Marine Glycobiology: Principles and Applications*, 2016-10-14, pp. 293-309., Registrované v: SCOPUS
52. [1.2] PRAKASH MARAN, J. - PRIYA, B. Optimization of Ultrasound-Assisted Extraction of Natural Pigments from *Amaranthus tricolor* Leaves. In *Journal of Food Processing and Preservation*. ISSN 01458892,

2015-12-01, 39, 6, pp. 2314-2321., Registrované v: SCOPUS

53. [1.2] WANG, Dihua - WANG, Zhihe - SHI, Wenzheng - QI, Ziyuan - ZHANG, Hua - CHEN, Jingwen. Techniques of salted jellyfish dealumination by optimized ultrasonic-assisted methodology. In *Journal of Fisheries of China*. ISSN 10000615, 2018-12-01, 42, 12, pp. 1977-1987., Registrované v: SCOPUS

ADCA297 EBRINGEROVÁ, Anna - BELICOVA, A. - EBRINGER, L. Antimicrobial activity of quaternized heteroxylans. In *World journal of microbiology and biotechnology*, 1994, vol. 10, p. 640-644. (1993: 0.226 - IF). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1007/BF00327950>

Ohlasy:

1. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS

2. [1.1] MELO-SILVEIRA, Raniere Fagundes - SILVA VIANA, Rony Lucas - SABRY, Diego Araujo - DA SILVA, Rodrigo Augusto - MACHADO, Daisy - LIMA NASCIMENTO, Ana Karina - SCORTECCI, Katia Castanho - FERREIRA-HALDER, Carmen Verissima - SASSAKI, Guilherme Lanzi - OLIVEIRA ROCHA, Hugo Alexandre. Antiproliferative xylan from corn cobs induces apoptosis in tumor cells. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 210, no., pp. 245-253., Registrované v: WOS

3. [1.1] VELKOVA, Nena - ZEMLJIC, Lidija Fras - SAAKE, Bodo - STRNAD, Simona. Adsorption of cationized xylans onto polyethylene terephthalate fabrics for antimicrobial medical textiles. In *TEXTILE RESEARCH JOURNAL*. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 473-486., Registrované v: WOS

4. [1.1] ZEMLJIC, Lidija Fras - DIMITRISEV, Nena - SAAKE, Bodo - STRNAD, Simona. Functionalisation of poly(ethylene terephthalate) (PET) surfaces with two cationised xylans by means of two anchoring polymers. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2019, vol. 73, no. 7, pp. 695-704., Registrované v: WOS

5. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

6. [1.2] ZHOU, Shuai - MIAO, Qingxian - HUANG, Liulian - CHEN, Lihui. Research Progress in Hemicellulose-based Functional Materials. In *Chemistry and Industry of Forest Products*. ISSN 02532417, 2017-12-28, 37, 6, pp. 10-18., Registrované v: SCOPUS

ADCA298 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. - MASON, T.J. Effect of ultrasound on the immunogenic corn cob xylan. In *Ultrasonics Sonochemistry*, 1997, vol. 4, p.311-315. (1996: 1.373 - IF, Current Contents - CCC). (1997 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(97\)00041-2](https://doi.org/10.1016/S1350-4177(97)00041-2)

Ohlasy:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA

MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS

2. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS

3. [1.1] MELO-SILVEIRA, Raniere Fagundes - SILVA VIANA, Rony Lucas - SABRY, Diego Araujo - DA SILVA, Rodrigo Augusto - MACHADO, Daisy - LIMA NASCIMENTO, Ana Karina - SCORTECCI, Katia Castanho - FERREIRA-HALDER, Carmen Verissima - SASSAKI, Guilherme Lanzi - OLIVEIRA ROCHA, Hugo Alexandre. Antiproliferative xylan from corn cobs induces apoptosis in tumor cells. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 210, no., pp. 245-253., Registrované v: WOS

ADCA299 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Effect of ultrasound on the extractibility of corn bran hemicelluloses. In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 225-229. ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(01\)00124-9](https://doi.org/10.1016/S1350-4177(01)00124-9)

Ohlasy:

1. [1.1] BONTO, Aldrin P. - CAMACHO, Ken Sammuel I. - CAMACHO, Drexel H. Increased vitamin B-5 uptake capacity of ultrasonic treated milled rice: A new method for rice fortification. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 95, no., pp. 32-39., Registrované v: WOS

2. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS

3. [1.1] DE OLIVEIRA, Cibele Freitas - GIORDANI, Diego - LUTCKEMIER, Rafael - GURAK, Poliana Deyse - CLADERA-OLIVERA, Florencia - FERREIRA MARCZAK, Ligia Damasceno. Extraction of pectin from passion fruit peel assisted by ultrasound. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2016, vol. 71, no., pp. 110-115., Registrované v: WOS

4. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Wheat chaff utilization: Evaluation of antioxidant capacity of waste streams generated by different pretreatments. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 94, no., pp. 649-657., Registrované v: WOS

5. [1.1] DU, Chao - LI, Hailong - LI, Bingyun - LIU, Mengru - ZHAN, Huaiyu. Characteristics and Properties of Cellulose Nanofibers Prepared by TEMPO Oxidation of Corn Husk. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5276-5284., Registrované v: WOS

6. [1.1] IZYDORCZYK, Marta S. Dietary Arabinoxylans in Grains and Grain Products. In CEREAL GRAIN-BASED FUNCTIONAL FOODS:

- CARBOHYDRATE AND PHYTOCHEMICAL COMPONENTS. ISSN 2398-0656, 2019, vol. 6, no., pp. 167-203., Registrované v: WOS
7. [1.1] JACQUEMIN, Leslie - MOGNI, Assad - ZEITOUN, Rawan - GUINOT, Cecile - SABLAYROLLES, Caroline - SAULNIER, Luc - PONTALIER, Pierre-Yves. Performance evaluation of a semi-industrial production process of arabinoxylans from wheat bran. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 4, pp. 605-613., Registrované v: WOS
8. [1.1] JACQUEMIN, Leslie - MOGNI, Assad - ZEITOUN, Rawan - GUINOT, Cecile - SABLAYROLLES, Caroline - SAULNIER, Luc - PONTALIER, Pierre-Yves. Comparison of different twin-screw extraction conditions for the production of arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 86-94., Registrované v: WOS
9. [1.1] JUNADI, Norhafzan - BEG, M. D. H. - YUNUS, Rosli M. - RAMLI, Ridzuan - AZRINA, Z. A. Zianor - ALAM, A. K. M. Moshil. Characterization of microcrystalline cellulose isolated through mechanochemical method. In INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH. ISSN 0971-0426, 2019, vol. 44, no. 4, pp. 442-449., Registrované v: WOS
10. [1.1] KARETKIN, Boris A. - PANFILOV, Victor I. - BAURIN, Dmitry V. - SHAKIR, Irina V. ULTRASONIC EXTRACTION OF FRUCTANS FROM THE TUBERS OF JERUSALEM ARTICHOKE: OPTIMIZATION OF CONDITIONS, PURIFICATION METHODS, C-13NMR SPECTROSCOPY OF THE PRODUCT. In NANO, BIO AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE, VOL I (SGEM 2015). ISSN 1314-2704, 2015, vol., no., pp. 641-648., Registrované v: WOS
11. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using response surface methodology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
12. [1.1] MTETWA, Michelle Dorcas - QIAN, LiSun - ZHU, HongAn - CUI, FengJie - ZAN, XinYi - SUN, WenJing - WU, Di - YANG, Yan. Ultrasound-assisted extraction and antioxidant activity of polysaccharides from *Acanthus ilicifolius*. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2020, vol. 14, no. 3, pp. 1223-1235. Dostupné na: <https://doi.org/10.1007/s11694-019-00371-6>., Registrované v: WOS
13. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
14. [1.1] PATEL, Seema. Cereal bran fortified-functional foods for obesity and diabetes management: Triumphs, hurdles and possibilities. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2015, vol. 14, no., pp. 255-269., Registrované v: WOS
15. [1.1] PIELECH-PRZYBYLSKA, Katarzyna - BALCEREK, Maria - PATELSKI, Piotr - DZIEKONSKA-KUBCZAK, Urszula. Solutions for improvement of saccharification and fermentation of high gravity rye mashes. In INTERNATIONAL AGROPHYSICS. ISSN 0236-8722, 2019, vol. 33, no. 1, pp.

1-10., Registrované v: WOS

16. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164.,

Registrované v: WOS

17. [1.1] ROYE, Chiara - BULCKAEN, Karen - DE BONDT, Yamina - LIBERLOO, Inge - VAN DE WALLE, Davy - DEWETTINCK, Koen - COURTIN, Christophe M. Side-by-side comparison of composition and structural properties of wheat, rye, oat, and maize bran and their impact on in vitro fermentability. In *CEREAL CHEMISTRY*. ISSN 0009-0352, 2020, vol. 97, no. 1, pp. 20-33. Dostupné na: <https://doi.org/10.1002/cche.10213>., Registrované v: WOS

18. [1.1] SAMANTA, A. K. - CHIKKERUR, J. - ROY, Sohini - KOLTE, A. P. - SRIDHAR, Manpal - DHALI, A. - GIRIDHAR, K. - SENANI, S. Xylooligosaccharides production from tobacco stalk xylan using edible acid. In *CURRENT SCIENCE*. ISSN 0011-3891, 2019, vol. 117, no. 9, pp. 1521-1525., Registrované v: WOS

19. [1.1] WANG, Zhenyu. The Study on Physicochemical Characteristics of Wood Treated by Ultrasound-assisted Extraction. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 9033-9052., Registrované v: WOS

20. [1.1] XU, Ji-Kun - LI, Ming-Fei - SUN, Run-Cang. Identifying the impact of ultrasound-assisted extraction on polysaccharides and natural antioxidants from *Eucommia ulmoides* Oliver. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2015, vol. 50, no. 3, pp. 473-481., Registrované v: WOS

21. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In *FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL*. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS

22. [1.1] YU, Xiaoxi - GOUYO, Telco - GRIMI, Nabil - BALS, Olivier - VOROBIEV, Eugene. Ultrasound enhanced aqueous extraction from rapeseed green biomass for polyphenol and protein valorization. In *COMPTES RENDUS CHIMIE*. ISSN 1631-0748, 2016, vol. 19, no. 6, pp. 766-777., Registrované v: WOS

23. [1.1] ZHUANG, Xuhui - YIN, Tie - HAN, Wei - ZHANG, Xiaolin. Nutritional Ingredients and Active Compositions of Defatted Rice Bran. In *RICE BRAN AND RICE BRAN OIL: CHEMISTRY, PROCESSING AND UTILIZATION*, 2019, vol., no., pp. 247-270., Registrované v: WOS

24. [1.2] BHATIA, Latika - CHANDEL, Anuj K. - SINGH, Akhilesh K. - SINGH, Om V. Biotechnological advances in lignocellulosic ethanol production. In *Sustainable Biotechnology- Enzymatic Resources of Renewable Energy*, 2018-01-01, pp. 57-82., Registrované v: SCOPUS

25. [1.2] CHEMAT, Farid - TOMAO, Valérie - VIROT, Matthieu. Ultrasound-assisted extraction in food analysis. In *Handbook of Food Analysis Instruments*, 2016-04-19, pp. 85-103., Registrované v: SCOPUS

26. [1.2] PENG, Jianmin - QI, Letian - YANG, Guihua - HE, Ming - XUE, Yu - CHEN, Jiuachuan. Effect of ultrasonic-assisted ionic liquid pretreatment on the bleachability and properties of eucalyptus kraft pulp. In *Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry*. ISSN 02533200, 2019-03-01, 51, 2, pp. 16-25., Registrované v:

SCOPUS

27. [1.2] RUTKOWSKA, Małgorzata - NAMIEŚNIK, Jacek - KONIECZKA, Piotr. Ultrasound-Assisted Extraction. In The Application of Green Solvents in Separation Processes, 2017-03-22, pp. 301-324., Registrované v: SCOPUS
28. [1.2] SUDHAKAR, K. - REDDY, N. Naryana - RAO, K. Madhusudhana - MOLOI, S. J. - REDDY, A. Babul - SADIKU, E. Rotimi. Polyethylene/Hemicellulose-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 167-200., Registrované v: SCOPUS
29. [1.2] SUN, Qianyu - YANG, Guihua - CHEN, Jiachuan - HE, Ming - NIU, Sipeng. Effect of ultrasonic-assisted cold caustic extraction on the properties of CTMP poplar fibers. In Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry. ISSN 02533200, 2017-07-01, 49, 4, pp. 5-15., Registrované v: SCOPUS
30. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2017-10-16, pp. 173-191., Registrované v: SCOPUS
31. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2018-01-01, pp. 173-191., Registrované v: SCOPUS

ADCA300 EBRINGEROVÁ, Anna. Hemicelluloses as biopolymeric raw materials. In *Papier*, 1992, vol. 46, p. 726-733. ISSN 0031-1340.

Ohlasy:

1. [1.1] BRUSA, Charlotte - MUZARD, Murielle - REMOND, Caroline - PLANTIER-ROYON, Richard. beta-Xylopyranosides: synthesis and applications. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 91026-91055., Registrované v: WOS
2. [1.1] IRMAK, Sibel. Biomass as Raw Material for Production of High-Value Products. In BIOMASS VOLUME ESTIMATION AND VALORIZATION FOR ENERGY, 2017, vol., no., pp. 201-225., Registrované v: WOS

ADCA301 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HEINZE, T. Hemicellulose. In *Advances in polymer science*, 2005, vol.186, p. 1-67. (2004: 7.320 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0065-3195.

Ohlasy:

1. [1.1] ADJALLE, K. u - LAROSE, L-V. - BLEY, J. - BARNABE, S. The effect of organic nitrogenous compound content and different pretreatments on agricultural lignocellulosic biomass characterization methods. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 3, pp. 1395-1406., Registrované v: WOS
2. [1.1] ACHINAS, Spyridon - EUVERINK, Gerrit Jan Willem. Consolidated briefing of biochemical ethanol production from lignocellulosic biomass. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN

- 0717-3458, 2016, vol. 23, no., pp. 44-53., Registrované v: WOS
3. [1.1] ACHINAS, Spyridon - ACHINAS, Vasileios - EUVERINK, Gerrit Jan Willem. A Technological Overview of Biogas Production from Biowaste. In *ENGINEERING*. ISSN 2095-8099, 2017, vol. 3, no. 3, pp. 299-307., Registrované v: WOS
4. [1.1] AKHTAR, Masood - HAMAYUN, Muteen - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. Evaluation of biological response modification and immunotherapeutic activities of barley-derived arabinoxylans against coccidiosis in commercial broilers. In *TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES*. ISSN 1300-0128, 2018, vol. 42, no. 1, pp. 55-64., Registrované v: WOS
5. [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS
6. [1.1] ALI, Usman - BIJALWAN, Vandana - BASU, Santanu - KESARWANI, Atul Kumar - MAZUMDER, Koushik. Effect of beta-glucan-fatty acid esters on microstructure and physical properties of wheat straw arabinoxylan films. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 161, no., pp. 90-98., Registrované v: WOS
7. [1.1] ALI, Usman - KANWAR, Swati - YADAV, Kamalendra - BASU, Santanu - MAZUMDER, Koushik. Effect of arabinoxylan and beta-glucan stearic acid ester coatings on post-harvest quality of apple (Royal Delicious). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 209, no., pp. 338-349., Registrované v: WOS
8. [1.1] ALVAREZ, Consolacion - MANUEL REYES-SOSA, Francisco - DIEZ, Bruno. Enzymatic hydrolysis of biomass from wood. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7907, 2016, vol. 9, no. 2, pp. 149-156., Registrované v: WOS
9. [1.1] AMOS, Robert A. - MOHNEN, Debra. Critical Review of Plant Cell Wall Matrix Polysaccharide Glycosyltransferase Activities Verified by Heterologous Protein Expression. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
10. [1.1] ANTHONY, Renil - XIANG, Zhouyang - RUNGE, Troy. Paper coating performance of hemicellulose-rich natural polymer from distiller's grains. In *PROGRESS IN ORGANIC COATINGS*. ISSN 0300-9440, 2015, vol. 89, no., pp. 240-245., Registrované v: WOS
11. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
12. [1.1] ARELLANO-SANDOVAL, L. - DELGADO, E. - CAMACHO-VILLEGAS, T. A. - BRAVO-MADRIGAL, J. - MANRIQUEZ-GONZALEZ, R. - LUGO-FABRES, P. H. - TORIZ, G. - GARCIA-URIOSTEGUI, L. Development of thermosensitive hybrid hydrogels based on xylan-type hemicellulose from agave bagasse: characterization and antibacterial activity. In *MRS COMMUNICATIONS*. ISSN 2159-6859, 2020, vol. 10, no. 1, pp. 147-154. Dostupné na: <https://doi.org/10.1557/mrc.2019.165.>, Registrované v: WOS

13. [1.1] AVANTHI, Althuri - KUMAR, Sanjeev - SHERPA, Knawang Chhunji - BANERJEE, Rintu. Bioconversion of hemicelluloses of lignocellulosic biomass to ethanol: an attempt to utilize pentose sugars. In BIOFUELS-UK. ISSN 1759-7269, 2017, vol. 8, no. 4, pp. 431-444., Registrované v: WOS
14. [1.1] AZIZ, Mohamed S. Abdel - SALAMA, Hend E. Effect of vinyl montmorillonite on the physical, responsive and antimicrobial properties of the optimized polyacrylic acid/chitosan superabsorbent via Box-Behnken model. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 840-848., Registrované v: WOS
15. [1.1] BANKS, Scott W. - NOWAKOWSKI, Daniel J. - BRIDGWATER, Anthony V. Impact of Potassium and Phosphorus in Biomass on the Properties of Fast Pyrolysis Bio-oil. In ENERGY & FUELS. ISSN 0887-0624, 2016, vol. 30, no. 10, pp. 8009-8018., Registrované v: WOS
16. [1.1] BERGLUND, Jennie - D'ORTOLI, Thibault Angles - VILAPLANA, Francisco - WIDMALM, Goran - BERGENSTRAHLE-WOHLERT, Malin - LAWOKO, Martin - HENRIKSSON, Gunnar - LINDSTROM, Mikael - WOHLERT, Jakob. A molecular dynamics study of the effect of glycosidic linkage type in the hemicellulose backbone on the molecular chain flexibility. In PLANT JOURNAL. ISSN 0960-7412, 2016, vol. 88, no. 1, pp. 56-70., Registrované v: WOS
17. [1.1] BERGLUND, Jennie - KISHANI, Saina - DE CARVALHO, Danila Morais - LAWOKO, Martin - WOHLERT, Jakob - HENRIKSSON, Gunnar - LINDSTROM, Mikael E. - WAGBERG, Lars - VILAPLANA, Francisco. Acetylation and Sugar Composition Influence the (In)Solubility of Plant beta-Mannans and Their Interaction with Cellulose Surfaces. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 27, pp. 10027-10040. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01716>., Registrované v: WOS
18. [1.1] BERGLUND, Jennie - MIKKELSEN, Deirdre - FLANAGAN, Bernadine M. - DHITAL, Sushil - GAUNITZ, Stefan - HENRIKSSON, Gunnar - LINDSTROM, Mikael E. - YAKUBOV, Gleb E. - GIDLEY, Michael J. - VILAPLANA, Francisco. Wood hemicelluloses exert distinct biomechanical contributions to cellulose fibrillar networks. In NATURE COMMUNICATIONS, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18390-z>., Registrované v: WOS
19. [1.1] BERNHARDT, Dana C. - PONCE, Nora M. A. - BASANTA, Maria F. - STORTZ, Carlos A. - ROJAS, Ana M. Husks of Zea mays as a potential source of biopolymers for food additives and materials' development. In HELIYON. ISSN 2405-8440, 2019, vol. 5, no. 3, pp., Registrované v: WOS
20. [1.1] BHAGIA, Samarthya - LI, Hongjia - GAO, Xiadi - KUMAR, Rajeev - WYMAN, Charles E. Flowthrough pretreatment with very dilute acid provides insights into high lignin contribution to biomass recalcitrance. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
21. [1.1] BHARATHIRAJA, B. - SUDHARSANA, T. - JAYAMUTHUNAGAI, J. - PRAVEENKUMAR, R. - CHOZHAVENDHAN, S. - IYYAPPAN, J. Biogas production A review on composition, fuel properties, feed stock and principles of anaerobic digestion (Retraction of Vol 90, Pg 570, 2018). In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2018, vol. 94, no., pp. 1229-1229., Registrované v: WOS

22. [1.1] BHATIA, Rakesh - GALLAGHER, Joe A. - GOMEZ, Leonardo D. - BOSCH, Maurice. Genetic engineering of grass cell wall polysaccharides for biorefining. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2017, vol. 15, no. 9, pp. 1071-1092., Registrované v: WOS
23. [1.1] BHATTARAI, Mamata - SULAEVA, Irina - PITKANEN, Leena - KONTRO, Inkeri - TENKANEN, Maija - POTTHAST, Antje - MIKKONEN, Kirsi S. Colloidal features of softwood galactoglucomannans-rich extract. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116368>., Registrované v: WOS
24. [1.1] BHATTARAI, Mamata - VALOPPI, Fabio - HIRVONEN, Sami-Pekka - HIETALA, Sami - KILPELAINEN, Petri - ASEYEV, Vladimir - MIKKONEN, Kirsi S. Time-dependent self-association of spruce galactoglucomannans depends on pH and mechanical shearing. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 102, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105607>., Registrované v: WOS
25. [1.1] BHAUMIK, Prasenjit - DHEPE, Paresh Laxmikant. Conversion of Biomass into Sugars. In BIOMASS SUGARS FOR NON-FUEL APPLICATIONS. ISSN 1757-7039, 2016, vol., no. 44, pp. 1-53., Registrované v: WOS
26. [1.1] BIELY, Peter - SINGH, Suren - PUCHART, Vladimir. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1260-1274., Registrované v: WOS
27. [1.1] BI, Ran - BERGLUND, Jennie - VILAPLANA, Francisco - MCKEE, Lauren S. - HENRIKSSON, Gunnar. The degree of acetylation affects the microbial degradability of mannans. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2016, vol. 133, no., pp. 36-46., Registrované v: WOS
28. [1.1] BLAZEKOVA, Lenka - BIELECKOVA, Silvia - HORVATHOVA, Viera. Isolation and Chemical Characterisation of Wheat Arabinoxylans. In CHEMICKE LISTY. ISSN 0009-2770, 2015, vol. 109, no. 9, pp. 666-672., Registrované v: WOS
29. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of hemicelluloses through an azetidinium salt ring-opening reaction. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 428, no., pp. 23-30., Registrované v: WOS
30. [1.1] BORJESSON, Mikaela - LARSSON, Anette - WESTMAN, Gunnar - STROM, Anna. Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 280-287., Registrované v: WOS
31. [1.1] BOURAMTANE, Soukaina - BRETIN, Ludovic - PINON, Aline - LEGER, David - LIAGRE, Bertrand - RICHARD, Laurence - BREGIER, Frederique - SOL, Vincent - CHALEIX, Vincent. Porphyrin- xylan-coated silica nanoparticles for anticancer photodynamic therapy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 213, no., pp. 168-175., Registrované v: WOS
32. [1.1] BOWMAN, Michael J. - DIEN, Bruce S. - VERMILLION, Karl E. - MERTENS, Jeffrey A. Isolation and characterization of unhydrolyzed oligosaccharides from switchgrass (*Panicum virgatum*, L.) xylan after exhaustive

- enzymatic treatment with commercial enzyme preparations. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 407, no., pp. 42-50., Registrované v: WOS
33. [1.1] BROEKER, Jannis - MECHELKE, Matthias - BAUDREXL, Melanie - MENNERICH, Denise - HORNBURG, Daniel - MANN, Matthias - SCHWARZ, Wolfgang H. - LIEBL, Wolfgang - ZVERLOV, Vladimir V. The hemicellulose-degrading enzyme system of the thermophilic bacterium *Clostridium stercorarium*: comparative characterisation and addition of new hemicellulolytic glycoside hydrolases. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
34. [1.1] BURKHARDT, Christin - SCHAEFERS, Christian - CLAREN, Joerg - SCHIRRMACHER, Georg - ANTRANIKIAN, Garabed. Comparative Analysis and Biochemical Characterization of Two Endo-beta-1,3-Glucanases from the Thermophilic Bacterium *Fervidobacterium* sp. In CATALYSTS, 2019, vol. 9, no. 10, pp., Registrované v: WOS
35. [1.1] BURNIOL-FIGOLS, Anna - CENIAN, Katarzyna - SKIADAS, Ioannis V. - GAVALA, Hariklia N. Integration of chlorogenic acid recovery and bioethanol production from spent coffee grounds. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2016, vol. 116, no., pp. 54-64., Registrované v: WOS
36. [1.1] BUSH, Joshua R. - LIANG, Haixiang - DICKINSON, Molly - BOTCHWEY, Edward A. Xylan hemicellulose improves chitosan hydrogel for bone tissue regeneration. In POLYMERS FOR ADVANCED TECHNOLOGIES. ISSN 1042-7147, 2016, vol. 27, no. 8, pp. 1050-1055., Registrované v: WOS
37. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of tucuma (*Astrocaryum aculeatum*), a commelinid monocotyledon from the family Arecaceae. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS
38. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS
39. [1.1] CASILLO, Angela - LANZETTA, Rosa - PARRILLI, Michelangelo - CORSARO, Maria Michela. Exopolysaccharides from Marine and Marine Extremophilic Bacteria: Structures, Properties, Ecological Roles and Applications. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 2, pp., Registrované v: WOS
40. [1.1] COLODEL, Cristiane - DAS GRACAS BAGATIN, Rosane Maria - TAVARES, Talita Maria - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from pulp and peel of cubiu: A pectin-rich fruit. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 226-234., Registrované v: WOS
41. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI,

- Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
42. [1.1] COURET, Laetitia - IRLE, Mark - BELLONCLE, Christophe - CATHALA, Bernard. Extraction and characterization of cellulose nanocrystals from post-consumer wood fiberboard waste. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 5, pp. 2125-2137., Registrované v: WOS
43. [1.1] CROITORU, Catalin - ROATA, Ionut Claudiu. Ionic Liquids as Antifungal Agents for Wood Preservation. In MOLECULES, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184289>., Registrované v: WOS
44. [1.1] DAAS, Martinus J. A. - MURCIANO MARTINEZ, Patricia - VAN DE WEIJER, Antonius H. P. - VAN DER OOST, John - DE VOS, Willem M. - KABEL, Mirjam A. - VAN KRANENBURG, Richard. Biochemical characterization of the xylan hydrolysis profile of the extracellular endo-xylanase from *Geobacillus thermodenitrificans* T12. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2017, vol. 17, no., pp., Registrované v: WOS
45. [1.1] DALLABERNARDINA, Pietro - SCHUHMACHER, Frank - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated glycan assembly of xyloglucan oligosaccharides. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 1, pp. 309-313., Registrované v: WOS
46. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS
47. [1.1] DE CARVALHO, Danila Morais - SEVASTYANOVA, Olena - DE QUEIROZ, Jose Humberto - COLODETTE, Jorge Luiz. Cold alkaline extraction as a pretreatment for bioethanol production from eucalyptus, sugarcane bagasse and sugarcane straw. In ENERGY CONVERSION AND MANAGEMENT. ISSN 0196-8904, 2016, vol. 124, no., pp. 315-324., Registrované v: WOS
48. [1.1] DE CARVALHO, Danila Morais - MARTINEZ-ABAD, Antonio - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronoarabinoxylan from sugarcane bagasse and straw. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 223-234., Registrované v: WOS
49. [1.1] DE CARVALHO, Danila Morais - BERGLUND, Jennie - MARCHANDA, Celia - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Improving the thermal stability of different types of xylan by acetylation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 220, no., pp. 132-140., Registrované v: WOS
50. [1.1] DE CARVALHO, Danila Morais - MARCHAND, Celia - BERGLUND, Jennie - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Impact of birch xylan composition and structure on

film formation and properties. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 184-196. Dostupné na: <https://doi.org/10.1515/hf-2018-0224>., Registrované v: WOS

51. [1.1] DE SA, Acelino Cardoso - CIPRI, Andrea - GONZALEZ-CALABUIG, Andreu - STRADIOTTO, Nelson Ramos - DEL VALLE, Manel. Resolution of galactose, glucose, xylose and mannose in sugarcane bagasse employing a voltammetric electronic tongue formed by metals oxy-hydroxide/MWCNT modified electrodes. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 222, no., pp. 645-653., Registrované v: WOS

52. [1.1] DIEZ, David - URUENA, Ana - PINERO, Raul - BARRIO, Aitor - TAMMINEN, Tarja. Determination of Hemicellulose, Cellulose, and Lignin Content in Different Types of Biomasses by Thermogravimetric Analysis and Pseudocomponent Kinetic Model (TGA-PKM Method). In PROCESSES, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091048>., Registrované v: WOS

53. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS

54. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS

55. [1.1] DUPOIRON, Stephanie - LAMELOISE, Marie-Laure - POMMET, Marion - BENNACEUR, Ons - LEWANDOWSKI, Richard - ALLAIS, Florent - TEIXEIRA, Andreia R. S. - REMOND, Caroline - RAKOTOARIVONINA, Harivony. A novel and integrative process: From enzymatic fractionation of wheat bran with a hemicellulasic cocktail to the recovery of ferulic acid by weak anion exchange resin. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 105, no., pp. 148-155., Registrované v: WOS

56. [1.1] DUPONT, Anne-Laurence - REAU, Denis - BEGIN, Paul - PARIS-LACOMBE, Sabrina - TETREAULT, Jean - MORTHA, Gerard. Accurate molar masses of cellulose for the determination of degradation rates in complex paper samples. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 172-185., Registrované v: WOS

57. [1.1] DUTTA, Sajal Kanti - CHAKRABORTY, Saikat. Pore-scale dynamics of enzyme adsorption, swelling and reactive dissolution determine sugar yield in hemicellulose hydrolysis for biofuel production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

58. [1.1] DYSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b05459>., Registrované v: WOS

59. [1.1] DZIEDZIC, Jowita A. - MCDONALD, Armando G. In vitro protein profiles in the early and late stages of Douglas-fir xylogenesis. In

ELECTROPHORESIS. ISSN 0173-0835, 2015, vol. 36, no. 17, pp. 2035-2045.,
Registrované v: WOS

60. [1.1] ELGHARBAWY, Amal A. - ALAM, Md Zahangir -
MONIRUZZAMAN, Muhammad - GOTO, Masahiro. Ionic liquid pretreatment
as emerging approaches for enhanced enzymatic hydrolysis of lignocellulosic
biomass. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X,
2016, vol. 109, no., pp. 252-267., Registrované v: WOS

61. [1.1] ELGUETA, Elizabeth - SANCHEZ, Julio - DAX, Daniel - XU,
Chunlin - WILLFOR, Stefan - RIVAS, Bernabe L. - GONZALEZ, Marianela.
Functionalized galactoglucomannan-based hydrogels for the removal of metal
cations from aqueous solutions. In JOURNAL OF APPLIED POLYMER
SCIENCE. ISSN 0021-8995, 2016, vol. 133, no. 41, pp., Registrované v: WOS

62. [1.1] FIGUEIREDO, Raquel - ARAUJO, Pedro - LLERENA, Juan
Pablo P. - MAZZAFERA, Paulo. Suberin and hemicellulose in sugarcane cell
wall architecture and crop digestibility: A biotechnological perspective. In FOOD
AND ENERGY SECURITY. ISSN 2048-3694, 2019, vol. 8, no. 3, pp.,
Registrované v: WOS

63. [1.1] FRODESON, Stefan - HENRIKSSON, Gunnar - BERGHEL,
Jonas. Pelletizing Pure Biomass Substances to Investigate the Mechanical
Properties and Bonding Mechanisms. In BIORESOURCES. ISSN 1930-2126,
2018, vol. 13, no. 1, pp. 1202-1222., Registrované v: WOS

64. [1.1] FROMMHAGEN, Matthias - SFORZA, Stefano - WESTPHAL,
Adrie H. - VISSER, Jaap - HINZ, Sandra W. A. - KOETSIER, Martijn J. - VAN
BERKEL, Willem J. H. - GRUPPEN, Harry - KABEL, Mirjam A. Discovery of
the combined oxidative cleavage of plant xylan and cellulose by a new fungal
polysaccharide monooxygenase. In BIOTECHNOLOGY FOR BIOFUELS. ISSN
1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

65. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN
BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and
Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In
FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp.,
Registrované v: WOS

66. [1.1] FU, Li-Hao - JIANG, Nan - LI, Cheng-Xi - LUO, Xue-Mei -
ZHAO, Shuai - FENG, Jia-Xun. Purification and characterization of an
endo-xylanase from *Trichoderma* sp., with xylobiose as the main product from
xylan hydrolysis. In WORLD JOURNAL OF MICROBIOLOGY &
BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované
v: WOS

67. [1.1] GAO, Cundian - REN, Junli - KONG, Weiqing - SUN, Runcang
- CHEN, Qifeng. Comparative study on temperature/pH sensitive xylan-based
hydrogels: their properties and drug controlled release. In RSC Advances. ISSN
2046-2069, 2015, vol. 5, no. 110, pp. 90671-90681., Registrované v: WOS

68. [1.1] GARCIA-URIOSTEGUI, L. - DELGADO, E. - IVAN
MELENDEZ-ORTIZ, H. - CAMACHO-VILLEGAS, T. A. -
ESQUIVEL-SOLIS, H. - GATENHOLM, P. - TORIZ, G. Spruce
xylan/HEMA-SBA15 hybrid hydrogels as a potential scaffold for fibroblast
growth and attachment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617,
2018, vol. 201, no., pp. 490-499., Registrované v: WOS

69. [1.1] GARG, Sarika. Xylanase: Applications in Biofuel Production. In
CURRENT METABOLOMICS. ISSN 2213-235X, 2016, vol. 4, no. 1, pp.

23-37., Registrované v: WOS

70. [1.1] GAUTAM, Roshan Lal - SINGH, Shweta - KUMARI, Simpal - GUPTA, Archana - NARAIAN, R. Basic Mechanism of Lignocellulose Mycodegradation. In MYCODEGRADATION OF LIGNOCELLULOSES. ISSN 2198-7777, 2019, vol., no., pp. 1-22., Registrované v: WOS

71. [1.1] GENT, Stephen - TWEDT, Michael - GEROMETTA, Christina - ALMBERG, Evan. Introduction to Feedstocks. In THEORETICAL AND APPLIED ASPECTS OF BIOMASS TORREFACTION: FOR BIOFUELS AND VALUE-ADDED PRODUCTS, 2017, vol., no., pp. 17-39., Registrované v: WOS

72. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS

73. [1.1] GHAREHKHANI, Samira - SADEGHINEZHAD, Emad - KAZI, Salim Newaz - YARMAND, Hooman - BADARUDIN, Ahmad - SAFAEI, Mohammad Reza - ZUBIR, Mohd Nashrul Mohd. Basic effects of pulp refining on fiber properties-A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 785-803., Registrované v: WOS

74. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian Argania spinosa. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

75. [1.1] HAO, Huali - TAM, Lik-ho - LU, Yang - LAU, Denvi. An atomistic study on the mechanical behavior of bamboo cell wall constituents. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, 2018, vol. 151, no., pp. 222-231., Registrované v: WOS

76. [1.1] HARDELIN, Linda - BERNIN, Diana - BORJESSON, Mikaela - STROM, Anna - LARSSON, Anette. Altered Thermal and Mechanical Properties of Spruce Galactoglucomannan Films Modified with an Etherification Reaction. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 5, pp. 1832-1840. Dostupné na: <https://doi.org/10.1021/acs.biomac.9b01730>., Registrované v: WOS

77. [1.1] HERO, Johan S. - MORALES, Andres H. - PEROTTI, Nora - ROMERO, Cintia M. - ALEJANDRA MARTINEZ, M. Improved development in magnetic Xyl-CLEAs technology for biotransformation of agro-industrial by-products through the use of a novel macromolecular cross-linker. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2020, vol. 154, no., pp. Dostupné na: <https://doi.org/10.1016/j.reactfunctpolym.2020.104676>., Registrované v: WOS

78. [1.1] HILPMANN, G. - BECHER, N. - PAHNER, F-A. - KUSEMA, B. - MAKI-ARVELA, P. - LANGE, R. - MURZIN, D. Yu. - SALMI, T. Acid hydrolysis of xylan. In CATALYSIS TODAY. ISSN 0920-5861, 2016, vol. 259, no., pp. 376-380., Registrované v: WOS

79. [1.1] HOLMES, Ashleigh - ROSSEZ, Yannick - WRIGHT, Kathryn Mary - HEDLEY, Pete Edward - MORRIS, Jenny - WILLATS, William George Tycho - HOLDEN, Nicola Jean. Escherichia coli O157:H7 F9 Fimbriae Recognize Plant Xyloglucan and Elicit a Response in Arabidopsis thaliana. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21,

no. 24, pp. Dostupné na: <https://doi.org/10.3390/ijms21249720>., Registrované v: WOS

80. [1.1] HO, Ai Ling - KOSIK, Ondrej - LOVEGROVE, Alison - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. In vitro fermentability of xylo-oligosaccharide and xylo-polysaccharide fractions with different molecular weights by human faecal bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 50-58., Registrované v: WOS

81. [1.1] HUANG, Ju-qing - PANG, Mei-rong - LI, Guang-yu - WANG, Nan - JIN, Lu - ZHANG, Ying. Alleviation of cyclophosphamide-induced immunosuppression in mice by naturally acetylated hemicellulose from bamboo shavings. In FOOD AND AGRICULTURAL IMMUNOLOGY. ISSN 0954-0105, 2017, vol. 28, no. 2, pp. 328-342., Registrované v: WOS

82. [1.1] HUANG, Ju-qing - QI, Rui-ting - PANG, Mei-rong - LIU, Cong - LI, Guang-yu - ZHANG, Ying. Isolation, chemical characterization, and immunomodulatory activity of naturally acetylated hemicelluloses from bamboo shavings. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2017, vol. 18, no. 2, pp. 138-151., Registrované v: WOS

83. [1.1] HUBBE, Martin A. - CHANDRA, Richard P. - DOGU, Dilek - VAN VELZEN, S. T. J. Analytical Staining of Cellulosic Materials: A Review. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 7387-7464., Registrované v: WOS

84. [1.1] HUTTERER, Christian - KLIBA, Gerhard - PUNZ, Manuel - FACKLER, Karin - POTTHAST, Antje. Enzymatic pulp upgrade for producing high-value cellulose out of a Kraft paper pulp. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 102, no., pp. 67-73., Registrované v: WOS

85. [1.1] HUY, Nguyen Duc - SARAVANAKUMAR, Thiagarajan - HA, Sang Hoon - PARK, Seung-Moon. Enhanced Enzymatic Saccharification of Wheat Flour Arabinoxylan and Barley Straw Using Recombinant Hemicellulases. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2020, vol. 25, no. 3, pp. 431-441. Dostupné na: <https://doi.org/10.1007/s12257-019-0231-2>., Registrované v: WOS

86. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - BROSSE, Nicolas. Steam explosion process for the selective extraction of hemicelluloses polymers from spruce sawdust. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 141, no., pp., Registrované v: WOS

87. [1.1] CHAN, Chi Hoong - CHIA, Chin Hua - ZAKARIA, Sarani - SAJAB, Mohd Shaiful - CHIN, Siew Xian. Cellulose nanofibrils: a rapid adsorbent for the removal of methylene blue. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 24, pp. 18204-18212., Registrované v: WOS

88. [1.1] CHAPPELL, Todd C. - NAIR, Nikhil U. Co-utilization of hexoses by a microconsortium of sugar-specific E-coli strains. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 10, pp. 2309-2318., Registrované v: WOS

89. [1.1] CHATEIGNER-BOUTIN, Anne-Laure - ORDAZ-ORTIZ, Jose J. - ALVARADO, Camille - BOUCHET, Brigitte - DURAND, Sylvie - VERHERTBRUGGEN, Yves - BARRIERE, Yves - SAULNIER, Luc. Developing Pericarp of Maize: A Model to Study Arabinoxylan Synthesis and

- Feruloylation. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
90. [1.1] CHAVES, Julie E. - PRESLEY, Gerald N. - MICHENER, Joshua K. Modular Engineering of Biomass Degradation Pathways. In *PROCESSES*, 2019, vol. 7, no. 4, pp., Registrované v: WOS
91. [1.1] CHEMIN, Maud - WIROTIUS, Anne-Laure - HAM-PICHAVENT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELLIER, Stephane. Well-defined oligosaccharides by mild acidic hydrolysis of hemicelluloses. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2015, vol. 66, no., pp. 190-197., Registrované v: WOS
92. [1.1] CHEN, Da - HARRIS, Philip J. - SIMS, Ian M. - ZUJOVIC, Zoran - MELTON, Laurence D. Polysaccharide compositions of collenchyma cell walls from celery (*Apium graveolens* L.) petioles. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2017, vol. 17, no., pp., Registrované v: WOS
93. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - NIU, Yuge - DAI, Bona - YU, Liangli (Lucy). A Novel Alkaline Hemicellulosic Heteroxylan Isolated from Alfalfa (*Medicago sativa* L.) Stem and Its Thermal and Anti-inflammatory Properties. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 11, pp. 2970-2978., Registrované v: WOS
94. [1.1] CHEN, Yanjun - SUN, Xiangxiang - SHAN, Junqiang - TANG, Chenglun - HU, Ruijia - SHEN, Tao - QIAO, Hongqun - LI, Ming - ZHUANG, Wei - ZHU, Chenjie - YING, Hanjie. Flow synthesis, characterization, anticoagulant activity of xylan sulfate from sugarcane bagasse. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1460-1467. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.124>., Registrované v: WOS
95. [1.1] CHIMPHANGO, Annie F. A. - MATAVIRE, Thokozani O. Performance and structural comparison of hydrogels made from wheat bran arabinoxylan using enzymatic and coacervation methods as micro-and nano-encapsulation and delivery devices. In *BIOMEDICAL MICRODEVICES*. ISSN 1387-2176, 2019, vol. 21, no. 4, pp., Registrované v: WOS
96. [1.1] CHONG, Sun-Li - KOUTANIEMI, Sanna - JUVONEN, Minna - DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. - TENKANEN, Maija. Glucuronic acid in *Arabidopsis thaliana* xylans carries a novel pentose substituent. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 79, no., pp. 807-812., Registrované v: WOS
97. [1.1] CHOWDHURY, Jamil - LUECK, Stefanie - RAJARAMAN, Jeyaraman - DOUCHKOV, Dimitar - SHIRLEY, Neil J. - SCHWERDT, Julian G. - SCHWEIZER, Patrick - FINCHER, Geoffrey B. - BURTON, Rachel A. - LITTLE, Alan. Altered Expression of Genes Implicated in Xylan Biosynthesis Affects Penetration Resistance against Powdery Mildew. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
98. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Barriers from wood hydrolysate/quaternized cellulose polyelectrolyte complexes. In *CELLULOSE*. ISSN 0969-0239, 2015, vol. 22, no. 3, pp. 1977-1991., Registrované v: WOS

99. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
100. [1.1] JIANG, Jungang - LI, Zongquan - FU, Yingjuan - WANG, Zhaojiang - QIN, Menghua. Enhancement of colloidal particle and lignin removal from pre-hydrolysis liquor of aspen by a combination of pectinase and cationic polymer treatment. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 199, no., pp. 78-83., Registrované v: WOS
101. [1.1] JIN, Xuchen - HU, Zhenhua - WU, Shufang - SONG, Tao - YUE, Fengxia - XIANG, Zhouyan. Promoting the material properties of xylan-type hemicelluloses from the extraction step. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 235-245., Registrované v: WOS
102. [1.1] JORDAN, Douglas B. - BRAKER, Jay D. - WAGSCHAL, Kurt - STOLLER, J. Rose - LEE, Charles C. Isolation and divalent-metal activation of a beta-xylosidase, RUM630-BX. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 82, no., pp. 158-163., Registrované v: WOS
103. [1.1] KAMAL-ELDIN, Afaf - GEORGE, Navomy - SOBTI, Bhawna - ALRASHIDI, Nouf - GHNIMI, Sami - ALI, Abdul Aziz - ANDERSSON, Annica A. M. - ANDERSSON, Roger - ANTONY, Asha - HAMED, Fathalla. Dietary fiber components, microstructure, and texture of date fruits (*Phoenix dactylifera*, L.). In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-78713-4>., Registrované v: WOS
104. [1.1] KAMBO, Harpreet Singh - DUTTA, Animesh. A comparative review of biochar and hydrochar in terms of production, physico-chemical properties and applications. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2015, vol. 45, no., pp. 359-378., Registrované v: WOS
105. [1.1] KERI, Monika - PALCSU, Laszlo - TURI, Marianna - HEIM, Eniko - CZEBELY, Andrea - NOVAK, Levente - BANYAI, Istvan. C-13 NMR analysis of cellulose samples from different preparation methods. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 4, pp. 2211-2220., Registrované v: WOS
106. [1.1] KILIC PEKGOZLU, Ayben - TAS, Muhsin - CEYLAN, Esra - HEMMING, Jarl. Effect of the height of the stem on the polysaccharide composition of *Pinus brutia* (Ten) wood and kraft-pulp. In TURKISH JOURNAL OF AGRICULTURE AND FORESTRY. ISSN 1300-011X, 2020, vol. 44, no. 3, pp. 243-249. Dostupné na: <https://doi.org/10.3906/tar-1905-16>., Registrované v: WOS
107. [1.1] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 17, pp. 11337-11405., Registrované v: WOS
108. [1.1] KOBAYASHI, Manami - KUMAGAI, Yuya - YAMAMOTO, Yohei - YASUI, Hajime - KISHIMURA, Hideki. Identification of a Key Enzyme for the Hydrolysis of beta-(1>3)-Xylosyl Linkage in Red Alga *Dulse*

- Xylooligosaccharide from *Bifidobacterium Adolescentis*. In *MARINE DRUGS*, 2020, vol. 18, no. 3, pp. Dostupné na: <https://doi.org/10.3390/md18030174>, Registrované v: WOS
109. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In *POLYMER GELS: SCIENCE AND FUNDAMENTALS*. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
110. [1.1] KUMLA, Jaturong - SUWANNARACH, Nakarin - SUJARIT, Kanaporn - PENKHRUE, Watsana - KAKUMYAN, Pattana - JATUWONG, Kritsana - VADTHANARAT, Santhiti - LUMYONG, Saisamorn. Cultivation of Mushrooms and Their Lignocellulolytic Enzyme Production Through the Utilization of Agro-Industrial Waste. In *MOLECULES*, 2020, vol. 25, no. 12, pp. Dostupné na: <https://doi.org/10.3390/molecules25122811>, Registrované v: WOS
111. [1.1] LABOUREL, Aurore - CROUCH, Lucy I. - BRAS, Joana L. A. - JACKSON, Adam - ROGOWSKI, Artur - GRAY, Joseph - YADAV, Madhav P. - HENRISSAT, Bernard - FONTES, Carlos M. G. A. - GILBERT, Harry J. - NAJMUDIN, Shabir - BASLE, Arnaud - CUSKIN, Fiona. The Mechanism by Which Arabinoxylanases Can Recognize Highly Decorated Xylans. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 42, pp. 22149-22159., Registrované v: WOS
112. [1.1] LEE, Sue Jung - LEE, Ho Sung - KIM, Sun Young - SHIN, Kwang-Soon. Immunostimulatory and anti-metastatic activity of polysaccharides isolated from byproducts of the corn starch industry. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 911-917., Registrované v: WOS
113. [1.1] LITTUNEN, Kuisma - KILPELAINEN, Petri - JUNKKA, Karoliina - SIPPONEN, Mika - MASTER, Emma R. - SEPPALA, Jukka. Effect of Xylan Structure on Reactivity in Graft Copolymerization and Subsequent Binding to Cellulose. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2015, vol. 16, no. 4, pp. 1102-1111., Registrované v: WOS
114. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS
115. [1.1] LIU, Jun - KISONEN, Victor - WILLFOR, Stefan - XU, Chunlin - VILAPLANA, Francisco. Profiling the substitution pattern of xyloglucan derivatives by integrated enzymatic hydrolysis, hydrophilic-interaction liquid chromatography and mass spectrometry. In *JOURNAL OF CHROMATOGRAPHY A*. ISSN 0021-9673, 2016, vol. 1463, no., pp. 110-120., Registrované v: WOS
116. [1.1] LIU, Liu - LI, Bei - XIANG, Yeping - ZHANG, Ruiyun - YU, Jianyong - FANG, Bin. Effect of Growth Period and Sampling Section on the Chemical Composition and Microstructure of Raw Hemp Fibers. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 1961-1976., Registrované v: WOS
117. [1.1] LIU, Liu - XIANG, Yeping - ZHANG, Ruiyun - LI, Bei - YU, Jianyong - FANG, Bin. TEMPO-media Oxidation Combined with Laccase for Effective Degumming Pretreatment of Hemp Fibers. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 8848-8861., Registrované v: WOS

118. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS
119. [1.1] LI, Fangbing - WANG, Hui - XIN, Huaxia - CAI, Jianfeng - FU, Qing - JIN, Yu. Development, validation and application of a hydrophilic interaction liquid chromatography-evaporative light scattering detection based method for process control of hydrolysis of xylans obtained from different agricultural wastes. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 212, no., pp. 155-161., Registrované v: WOS
120. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS
121. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS
122. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
123. [1.1] LOPEZ, Mar - SANTOS, Valentin - PARAJO, Juan Carlos. Autocatalytic Fractionation of Wood Hemicelluloses: Modeling of Multistage Operation. In CATALYSTS, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/catal10030337>., Registrované v: WOS
124. [1.1] LOPEZ, Mar - VILA, Carlos - SANTOS, Valentin - CARLOS PARAJO, Juan. Manufacture of Platform Chemicals from Pine Wood Polysaccharides in Media Containing Acidic Ionic Liquids. In POLYMERS, 2020, vol. 12, no. 6, pp. Dostupné na: <https://doi.org/10.3390/polym12061215>., Registrované v: WOS
125. [1.1] LOPEZ-SANCHEZ, Patricia - CERSOSIMO, Julie - WANG, Dongjie - FLANAGAN, Bernadine - STOKES, Jason R. - GIDLEY, Michael J. Poroelastic Mechanical Effects of Hemicelluloses on Cellulosic Hydrogels under Compression. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 3, pp., Registrované v: WOS
126. [1.1] LOPEZ-SANCHEZ, Patricia - SCHUSTER, Erich - WANG, Dongjie - GIDLEY, Michael J. - STROM, Anna. Diffusion of macromolecules in self-assembled cellulose/hemicellulose hydrogels. In SOFT MATTER. ISSN 1744-683X, 2015, vol. 11, no. 20, pp. 4002-4010., Registrované v: WOS
127. [1.1] LOPEZ-SANCHEZ, Patricia - WANG, Dongjie - ZHANG, Zhiyan - FLANAGAN, Bernadine - GIDLEY, Michael J. Microstructure and mechanical properties of arabinoxylan and (1,3;1,4)-beta-glucan gels produced by cryo-gelation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 862-870., Registrované v: WOS
128. [1.1] LORENZ, Dominic - ERASMY, Nicole - AKIL, Youssef -

- SAAKE, Bodo. A new method for the quantification of monosaccharides, uronic acids and oligosaccharides in partially hydrolyzed xylans by HPAEC-UV/VIS. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 181-187., Registrované v: WOS
129. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
130. [1.1] MAGALHAES, Antonio Irineudo - DE CARVALHO, Julio Cesar - DE MELO PEREIRA, Gilberto Vinicius - KARP, Susan Grace - CAMARA, Marcela Candido - CORAL MEDINA, Jesus David - SOCCOL, Carlos Ricardo. Lignocellulosic biomass from agro-industrial residues in South America: current developments and perspectives. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2019, vol. 13, no. 6, pp. 1505-1519., Registrované v: WOS
131. [1.1] MACHMUDAH, Siti - WAHYUDIONO - KANDA, Hideki - GOTO, Motonobu. Hydrolysis of Biopolymers in Near-Critical and Subcritical Water. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 69-107., Registrované v: WOS
132. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
133. [1.1] MARCOLONGO, Loredana - LA CARA, Francesco - DEL MONACO, Giovanni - PAIXAO, Susana M. - ALVES, Luis - MARQUES, Isabel Paula - IONATA, Elena. A novel beta-xylosidase from Anoxybacillus sp. 3M towards an improved agro-industrial residues saccharification. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 122, no., pp. 1224-1234., Registrované v: WOS
134. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - PEREZ, Denilson da Silva - MIGUEZ-RODRIGUEZ, Luis - GRATEAU, Maguelone - THIERY, Sebastien - TAMMINEN, Tarja - MEYER, Xuan-Mi - GOURDON, Christophe. Assessing the suitability of recovering shrub biowaste involved in wildland fires in the South of Europe through torrefaction mobile units. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2019, vol. 236, no., pp. 551-560., Registrované v: WOS
135. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - ANCA-COUCÉ, Andres - PEREZ, Denilson da Silva - BOISSONNET, Guillaume - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 2: Torrefaction model. In ENERGY. ISSN 0360-5442, 2020, vol. 210, no., pp. Dostupné na: <https://doi.org/10.1016/j.energy.2020.118451>., Registrované v: WOS
136. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - PEREZ, Denilson da Silva - MORTHA, Gerard - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part

- 1: Experimental thermogravimetric solid mass loss. In ENERGY. ISSN 0360-5442, 2020, vol. 205, no., pp. Dostupné na: <https://doi.org/10.1016/j.energy.2020.118067>., Registrované v: WOS
137. [1.1] MARTINEZ, Maria Gonzalez - FLOQUET, Pascal - DUPONT, Capucine - PEREZ, Denilson da Silva - MEYER, Xuan-mi. Assessing the impact of woody and agricultural biomass variability on its behaviour in torrefaction through Principal Component Analysis. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105474>., Registrované v: WOS
138. [1.1] MARTINEZ, Patricia Murciano - BAKKER, Rob - HARMSSEN, Paulien - GRUPPEN, Harry - KABEL, Mirjam. Importance of acid or alkali concentration on the removal of xylan and lignin for enzymatic cellulose hydrolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 64, no., pp. 88-96., Registrované v: WOS
139. [1.1] MARTINEZ, Patricia Murciano - KABEL, Mirjam A. - GRUPPEN, Harry. Delignification outperforms alkaline extraction for xylan fingerprinting of oil palm empty fruit bunch. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 356-363., Registrované v: WOS
140. [1.1] MARTINEZ-ABAD, Antonio - GIUMMARELLA, Nicola - LAWOKO, Martin - VILAPLANA, Francisco. Differences in extractability under subcritical water reveal interconnected hemicellulose and lignin recalcitrance in birch hardwoods. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 11, pp. 2534-2546., Registrované v: WOS
141. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109647>., Registrované v: WOS
142. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. Synthesis and characterization of biofunctional quaternized xylan-Fe₂O₃ core/shell nanocomposites and modification with polylysine and folic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS
143. [1.1] MA, Ruoxi - PEKAROVICOVA, Alexandra - FLEMING, Paul D. - HUSOVSKA, Veronika. PREPARATION AND CHARACTERIZATION OF HEMICELLULOSE-BASED PRINTABLE FILMS. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2017, vol. 51, no. 9-10, pp. 939-948., Registrované v: WOS
144. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium *Herbinix hemicellulosilytica*-Six new xylanases, three arabinofuranosidases and one xylosidase. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS
145. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné

na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS

146. [1.1] MILETZKY, Albrecht - PUNZ, Manuel - ZANKEL, Armin - SCHLADER, Sandra - CZIBULA, Caterina - GANSER, Christian - TEICHERT, Christian - SPIRK, Stefan - ZOEHRER, Siegfried - BAUER, Wolfgang - SCHENNACH, Robert. Modifying cellulose fibers by adsorption/precipitation of xylan. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 189-201.,

Registrované v: WOS

147. [1.1] MOLAEI, Hamideh - JAHANBIN, Kambiz. Structural features of a new water-soluble polysaccharide from the gum exudates of *Amygdalus scoparia* Spach (Zedo gum). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 182, no., pp. 98-105., Registrované v: WOS

148. [1.1] MUDDASSAR, Hassan R. - SIPPONEN, Mika H. - MELIN, Kristian - DE KOKKONEN, Daniela - PASTINEN, Ossi - GOLAM, Sarwar. Effects of Catalysts and pH on Lignin in Partial Wet Oxidation of Wood and Straw Black Liquors. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 32, pp. 7833-7840.,

Registrované v: WOS

149. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHAP, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS

150. [1.1] NEGANDAR, Leila - DELIDOVICH, Irina - PALKOVITS, Regina. Aqueous-phase hydrolysis of cellulose and hemicelluloses over molecular acidic catalysts: Insights into the kinetics and reaction mechanism. In APPLIED CATALYSIS B-ENVIRONMENTAL. ISSN 0926-3373, 2016, vol. 184, no., pp. 285-298., Registrované v: WOS

151. [1.1] PADAYACHEE, A. - DAY, L. - HOWELL, K. - GIDLEY, M. J. Complexity and health functionality of plant cell wall fibers from fruits and vegetables. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 1, pp. 59-81., Registrované v: WOS

152. [1.1] PELETEIRO, Susana - SANTOS, Valentin - GARROTE, Gil - CARLOS PARAJO, Juan. Furfural production from Eucalyptus wood using an Acidic Ionic Liquid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 20-25., Registrované v: WOS

153. [1.1] PENA, Maria J. - KULKARNI, Ameya R. - BACKE, Jason - BOYD, Michael - O'NEILL, Malcolm A. - YORK, William S. Structural diversity of xylans in the cell walls of monocots. In PLANTA. ISSN 0032-0935, 2016, vol. 244, no. 3, pp. 589-606., Registrované v: WOS

154. [1.1] PRASAD, Rajesh Kumar - CHATTERJEE, Soumya - MAZUMDER, Pranab Behari - GUPTA, Santosh Kumar - SHARMA, Sonika - VAIRALE, Mohan Gunvant - DATTA, Sibnarayan - DWIVEDI, Sanjai Kumar - GUPTA, Dharmendra Kumar. Bioethanol production from waste lignocelluloses: A review on microbial degradation potential. In CHEMOSPHERE. ISSN 0045-6535, 2019, vol. 231, no., pp. 588-606., Registrované v: WOS

155. [1.1] PUCHART, Vladimir - BIELY, Peter. Redistribution of acetyl groups on the non-reducing end xylopyranosyl residues and their removal by xylan deacetylases. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 9, pp. 3865-3873., Registrované v: WOS

156. [1.1] PUJOL, C. A. - DAMONTE, E. B. - TURJAN, J. - YANBO, K. Z. - CAPEK, P. The antiviral potency of *Fagus sylvatica* 4OMe-glucuronoxylan

sulfates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 87, no., pp. 195-200., Registrované v: WOS

157. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS

158. [1.1] RAJINIPRIYA, Malladi - NAGALAKSHMAIAH, Malladi - ROBERT, Mathieu - ELKOUN, Said. Importance of Agricultural and Industrial Waste in the Field of Nanocellulose and Recent Industrial Developments of Wood Based Nanocellulose: A Review. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 2807-2828., Registrované v: WOS

159. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

160. [1.1] REYNOLDS, Wienke - SMIRNOVA, Irina. Hydrothermal flow-through treatment of wheat straw: Coupled heat and mass transfer modeling with changing bed properties. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2018, vol. 133, no., pp. 625-639., Registrované v: WOS

161. [1.1] RISSI, Silvana - FONTANA, Roselei Claudete - RECK, Mateus Arduvino - BORGES DA SILVEIRA, Rosa Mara - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Production of ethanol and xylitol by *Trametes membranacea*. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2018, vol. 41, no. 7, pp. 1017-1028., Registrované v: WOS

162. [1.1] RIVAS, Sandra - SANTOS, Valentin - PARAJO, Juan Carlos. Aqueous fractionation of hardwood: selective glucuronoxylan solubilisation and purification of the reaction products. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 2, pp. 367-374., Registrované v: WOS

163. [1.1] RIVAS, Sandra - VILA, Carlos - SANTOS, Valentin - CARLOS PARAJO, Juan. Furfural production from birch hemicelluloses by two-step processing: a potential technology for biorefineries. In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 10, pp. 901-910., Registrované v: WOS

164. [1.1] RIZWAN, Hafiz Muhammad - AKHTAR, Masood - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. Evaluation of *Avena sativa* Derived Arabinoxylans as Native Biological Response Modifiers in Broilers. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2017, vol. 19, no. 4, pp. 834-840., Registrované v: WOS

165. [1.1] ROSA-SIBAKOV, Natalia - HAKALA, Terhi K. - SOZER, Nesli - NORDLUND, Emilia - POUTANEN, Kaisa - AURA, Anna-Marja. Birch pulp xylan works as a food hydrocolloid in acid milk gels and is fermented slowly in vitro. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 154, no., pp. 305-312., Registrované v: WOS

166. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN,

- Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS 167. [1.1] RUTHES, Andrea C. - RUDJITO, Reskandi C. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Joseprime C. - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco. Comparative Recalcitrance and Extractability of Cell Wall Polysaccharides from Cereal (Wheat, Rye, and Barley) Brans Using Subcritical Water. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 18, pp. 7192-7204. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01764>., Registrované v: WOS
168. [1.1] SAHAY, Sanjay. Impact of Pretreatment Technologies for Biomass to Biofuel Production. In SUBSTRATE ANALYSIS FOR EFFECTIVE BIOFUELS PRODUCTION. ISSN 2662-6861, 2020, vol., no., pp. 173-216. Dostupné na: https://doi.org/10.1007/978-981-32-9607-7_7., Registrované v: WOS
169. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa* Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS
170. [1.1] SAMANTA, Ashis Kumar - KOLTE, A. P. - ELANGOVAN, A. V. - DHALI, A. - SENANI, S. - SRIDHAR, M. - SURESH, K. P. - JAYAPAL, N. - JAYARAM, C. - ROY, Sohini. Value addition of corn husks through enzymatic production of xylooligosaccharides. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2016, vol. 59, no., pp., Registrované v: WOS
171. [1.1] SAMANTA, A. K. - JAYAPAL, N. - KOLTE, A. P. - SENANI, S. - SRIDHAR, M. - DHALI, A. - SURESH, K. P. - JAYARAM, C. - PRASAD, C. S. PROCESS FOR ENZYMATIC PRODUCTION OF XYLOOLIGOSACCHARIDES FROM THE XYLAN OF CORN COBS. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2015, vol. 39, no. 6, pp. 729-736., Registrované v: WOS
172. [1.1] SAUPERL, Olivera - DOLISKA, Ales - HADELA, Ajra - STRNAD, Simona. Functionalization of polyethyleneterephthalate fibers using galactoglucomannan from spruce wood. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2016, vol. 86, no. 2, pp. 202-209., Registrované v: WOS
173. [1.1] SEBAYANG, A. H. - MASJUKI, H. H. - ONG, Hwai Chyuan - DHARMA, S. - SILITONGA, A. S. - MAHLIA, T. M. I. - ADITIYA, H. B. A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 18, pp. 14964-14992., Registrované v: WOS
174. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851,

- 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS
175. [1.1] SHATALOV, Anatoly A. Highly efficient hydrolysis of plant hemicelluloses by mixed-addenda Keggin-type (Mo-V-P)-heteropolyacids in diluted aqueous solution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 80-85., Registrované v: WOS
176. [1.1] SHEIKHI, Parizad - PETROUDY, Seyed Rahman Djafari. Comparative Study of Xylan Extracted by Sodium and Potassium Hydroxides (NaOH and KOH) from Bagasse Pulp: Characterization and Morphological Properties. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 9, pp. 3710-3717., Registrované v: WOS
177. [1.1] SHIMOTORI, Yasutaka - WATANABE, Takumi - KOHARI, Yoshihito - CHIOU, Tai-Ying - OHTSU, Naofumi - NAGATA, Yuichi - MURATA, Miki. Enzyme-assisted Extraction of Bioactive Phytochemicals from Japanese Peppermint (*Mentha arvensis* L. cv. 'Hokuto'). In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2020, vol. 69, no. 6, pp. 635-642. Dostupné na: <https://doi.org/10.5650/jos.ess19181>., Registrované v: WOS
178. [1.1] SCHULTE, Marten F. - TOZAKIDIS, Iasson E. P. - JOSE, Joachim. Autotransporter-Based Surface Display of Hemicellulases on *Pseudomonas putida*: Whole-Cell Biocatalysts for the Degradation of Biomass. In CHEMCATCHER. ISSN 1867-3880, 2017, vol. 9, no. 20, pp. 3955-3964., Registrované v: WOS
179. [1.1] SCHWARZER, Lars - SAROSSY, Zsuzsa - JENSEN, Peter Arendt - GLARBORG, Peter - KARLSTROM, Oskar - HOLM, Jens Kai - JOHANSEN, Kim M. Kinetic Parameters for Biomass under Self-Ignition Conditions: Low-Temperature Oxidation and Pyrolysis. In ENERGY & FUELS. ISSN 0887-0624, 2019, vol. 33, no. 9, pp. 8606-8619., Registrované v: WOS
180. [1.1] SIVOVA, Veronika - NOSAL'OVA, Gabriela - JURECEK, L'udovit - TURJAN, Jozef - VLCKOVA, Silvia - BYSTRICKY, Peter - KANTAROVA, Dana - CAPEK, Peter. *Fagus sylvatica* glucuronoxylan sulfate-chemical profile and pharmacological view. In STARCH-STARKE. ISSN 0038-9056, 2016, vol. 68, no. 7-8, pp. 621-628., Registrované v: WOS
181. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
182. [1.1] SOLEIMANI, Majid - TABIL, Lope G. - NIU, Catherine. Delignification of intact biomass and cellulosic coproduct of acid-catalyzed hydrolysis. In AIChE JOURNAL. ISSN 0001-1541, 2015, vol. 61, no. 6, pp. 1783-1791., Registrované v: WOS
183. [1.1] SRIVASTAVA, Avinash C. - CHEN, Fang - RAY, Tui - PATTATHIL, Sivakumar - PENA, Maria J. - AVCI, Utku - LI, Hongjia - HUHMANN, David V. - BACKE, Jason - URBANOWICZ, Breeanna - MILLER, Jeffrey S. - BEDAIR, Mohamed - WYMAN, Charles E. - SUMNER, Lloyd W. - YORK, William S. - HAHN, Michael G. - DIXON, Richard A. - BLANCAFLOR, Elison B. - TANG, Yuhong. Loss of function of folylpolyglutamate synthetase 1 reduces lignin content and improves cell wall digestibility in *Arabidopsis*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
184. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - BONNAILLIE,

- Laetitia M. - YADAV, Madhav P. Evaluation of arabinoxylan isolated from sorghum bran, biomass, and bagasse for film formation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 213, no., pp. 382-392., Registrované v: WOS
185. [1.1] SUGANO, Yasuhito - SALORANTA, Tiina - BOBACKA, Johan - IVASKA, Ari. Electro-catalytic oxidation of hemicelluloses at the Au electrode. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2015, vol. 17, no. 17, pp. 11609-11614., Registrované v: WOS
186. [1.1] SUN, Xiao-Feng - FENG, Yang - SHI, Xiaodi - WANG, Yaxiong. Preparation and Property of Xylan/Poly(Methacrylic Acid) Semi-Interpenetrating Network Hydrogel. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2016, vol., no., pp., Registrované v: WOS
187. [1.1] SUN, Xiao-Feng - JING, Zhanxin - WANG, Haihong - LIU, Yuyang. Physical-Chemical Properties of Xylan/PAAc Magnetic Semi-Interpenetrating Network Hydrogel. In POLYMER COMPOSITES. ISSN 0272-8397, 2015, vol. 36, no. 12, pp. 2317-2325., Registrované v: WOS
188. [1.1] SUN, Xiao-Feng - LIU, Baichen - JING, Zhanxin - WANG, Haihong. Preparation and adsorption property of xylan/poly(acrylic acid) magnetic nanocomposite hydrogel adsorbent. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 118, no., pp. 16-23., Registrované v: WOS
189. [1.1] SUN, Xiao-Feng - ZENG, Qihang - WANG, Haihong - HAO, Yiwei. Preparation and swelling behavior of pH/temperature responsive semi-IPN hydrogel based on carboxymethyl xylan and poly(N-isopropyl acrylamide). In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 3, pp. 1909-1922., Registrované v: WOS
190. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Rapeseed straw as a renewable source of hemicelluloses: Extraction, characterization and film formation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 179-186., Registrované v: WOS
191. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Rapeseed straw polymeric hemicelluloses obtained by extraction methods based on severity factor. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 95, no., pp. 305-315., Registrované v: WOS
192. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Modified and thermoplastic rapeseed straw xylan: A renewable additive in PCL biocomposites. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 119, no., pp. 73-82., Registrované v: WOS
193. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS
194. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHNSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS

195. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHNSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS
196. [1.1] TUNCIL, Yunus E. Dietary fibre profiles of Turkish Tombul hazelnut (*Corylus avellana* L.) and hazelnut skin. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 316, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126338>., Registrované v: WOS
197. [1.1] TURUMTAY, Halbay. Cell Wall Engineering by Heterologous Expression of Cell Wall-Degrading Enzymes for Better Conversion of Lignocellulosic Biomass into Biofuels. In BIOENERGY RESEARCH. ISSN 1939-1234, 2015, vol. 8, no. 4, pp. 1574-1588., Registrované v: WOS
198. [1.1] UBEYITOGULLARI, Ali - CEKMECELIOGLU, Deniz. OPTIMIZATION OF HEMICELLULOSE COATING AS APPLIED TO APRICOT DRYING AND COMPARISON WITH CHITOSAN COATING AND SULFITE TREATMENT. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2016, vol. 39, no. 6, pp. 542-552., Registrované v: WOS
199. [1.1] UNLU, Cuneyt H. - KUTLU, Meltem - ATICI, Oya Galioglu. Mannich reaction of polysaccharides: Xylan functionalization in aqueous basic medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 19-27., Registrované v: WOS
200. [1.1] VEGA, Beatriz - GRIGORAY, Olga - GUSTAFSSON, Jan - FARDIM, Pedro. Advances in Sugar-based Polymers: Xylan and its Derivatives for Surface Modification of Pulp Fibres. In BIOMASS SUGARS FOR NON-FUEL APPLICATIONS. ISSN 1757-7039, 2016, vol., no. 44, pp. 134-158., Registrované v: WOS
201. [1.1] VELKOVA, Nena - DOLISKA, Ales - ZEMLJIC, Lidija Fras - VESEL, Alenka - SAAKE, Bodo - STRNAD, Simona. Influence of Carboxymethylation on the Surface Physical-Chemical Properties of Glucuronoxylan and Arabinoxylan Films. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2015, vol. 55, no. 12, pp. 2706-2713., Registrované v: WOS
202. [1.1] VELKOVA, Nena - ZEMLJIC, Lidija Fras - SAAKE, Bodo - STRNAD, Simona. Adsorption of cationized xylans onto polyethylene terephthalate fabrics for antimicrobial medical textiles. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 473-486., Registrované v: WOS
203. [1.1] VILASECA, Fabiola - SERRA, Albert - KOCHUMALAYIL, Joby J. Xyloglucan coating for enhanced strength and toughness in wood fibre networks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115540>., Registrované v: WOS
204. [1.1] VILCOCQ, Lea - REBMANN, Edouard - CHEAH, You Wayne - FONGARLAND, Pascal. Hydrolysis of Cellobiose and Xylan over TiO₂-Based Catalysts. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 4, pp. 5555-5565., Registrované v: WOS
205. [1.1] WALKER, Johnnie A. - PATTATHIL, Sivakumar - BERGEMAN, Lai F. - BEEBE, Emily T. - DENG, Kai - MIRZAI, Maryam -

- NORTHERN, Trent R. - HAHN, Michael G. - FOX, Brian G. Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
206. [1.1] WANG, Huan - LIN, Wensheng - QIU, Xueqing - FU, Fangbao - ZHONG, Ruisheng - LIU, Weifeng - YANG, Dongjie. In Situ Synthesis of Flowerlike Lignin/ZnO Composite with Excellent UV-Absorption Properties and Its Application in Polyurethane. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 3696-3705., Registrované v: WOS
207. [1.1] WANG, Xiaqing - ZHANG, Ruyang - SHI, Zi - ZHANG, Ying - SUN, Xuan - JI, Yulong - ZHAO, Yanxin - WANG, Jidong - ZHANG, Yunxia - XING, Jinfeng - WANG, Yuandong - WANG, Ronghuan - SONG, Wei - ZHAO, Jiuran. Multi-omics analysis of the development and fracture resistance for maize internode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
208. [1.1] WEI, Jianqiang. Degradation behavior and kinetics of sisal fiber in pore solutions of sustainable cementitious composite containing metakaolin. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2018, vol. 150, no., pp. 1-12., Registrované v: WOS
209. [1.1] WHITEHILL, Justin G. A. - HENDERSON, Hannah - SCHUETZ, Mathias - SKYBA, Oleksandr - SAINT YUEN, Macaire Man - KING, John - SAMUELS, A. Lacey - MANSFIELD, Shawn D. - BOHLMANN, Jorg. Histology and cell wall biochemistry of stone cells in the physical defence of conifers against insects. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2016, vol. 39, no. 8, pp. 1646-1661., Registrované v: WOS
210. [1.1] XIANG, Zhouyang - ANTHONY, Renil - LAN, Wu - RUNGE, Troy. Glutaraldehyde crosslinking of arabinoxylan produced from corn ethanol residuals. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 1, pp. 307-321., Registrované v: WOS
211. [1.1] XIANG, Zhouyang - RUNGE, Troy. Emulsifying properties of succinylated arabinoxylan-protein gum produced from corn ethanol residuals. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 52, no., pp. 423-430., Registrované v: WOS
212. [1.1] XIONG, Wenlong - QIU, Xueqing - YANG, Dongjie - ZHONG, Ruisheng - QIAN, Yong - LI, Yuanyuan - WANG, Huan. A simple one-pot method to prepare UV-absorbent lignin/silica hybrids based on alkali lignin from pulping black liquor and sodium metasilicate. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2017, vol. 326, no., pp. 803-810., Registrované v: WOS
213. [1.1] XUE, Dongsheng - ZENG, Xuhao - LIN, Dongqiang - YAO, Shanqing. Thermostable ethanol tolerant xylanase from a cold-adapted marine species *Acinetobacter johnsonii*. In CHINESE JOURNAL OF CHEMICAL ENGINEERING. ISSN 1004-9541, 2019, vol. 27, no. 5, pp. 1166-1170., Registrované v: WOS
214. [1.1] YAN, Yu-Huan - LI, Hui-Ling - REN, Jun-Li - LIN, Qi-Xuan - PENG, Feng - SUN, Run-Cang - CHEN, Ke-Fu. Xylo-sugars production by microwave-induced hydrothermal treatment of corncob: Trace sodium hydroxide addition for suppression of side effects. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 101, no., pp. 36-45., Registrované v:

WOS

215. [1.1] YOSHIDA, Tomoki - HONDA, Yoichi - TUJIMOTO, Takashi - UYAMA, Hiroshi - AZUMA, Jun-ichi. Freeze-Thaw Treatment in 2% w/w NaOH-6 M Urea Enhanced Extraction of beta-(1,3;1,4)-Glucan from Corn Pericarp. In MACROMOLECULAR SYMPOSIA. ISSN 1022-1360, 2015, vol. 353, no. 1, pp. 205-211., Registrované v: WOS
216. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI, Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (*Neosinocalamus affinis*) Culms. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS
217. [1.1] ZANG, Haoyu - XIE, Shanshan - WU, Huijun - WANG, Weiduo - SHAO, Xiankun - WU, Liming - RAJER, Faheem Uddin - GAO, Xuewen. A novel thermostable GH5_7 beta-mannanase from *Bacillus pumilus* GBSW19 and its application in manno-oligosaccharides (MOS) production. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 78, no., pp. 1-9., Registrované v: WOS
218. [1.1] ZEINALY, Farhad - SARAEIAN, Ahmadsreza - GABOV, Konstantin - FARDIM, Pedro. DETERMINATION OF CARBOHYDRATES IN SUGARCANE BAGASSE PULP IN DIFFERENT TCF BLEACHING SEQUENCES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2017, vol. 51, no. 1-2, pp. 45-53., Registrované v: WOS
219. [1.1] ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS
220. [1.1] ZHANG, Bing - FU, Gen-Que - NIU, Ya-Shuai - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. Variations of lignin-lignin and lignin-carbohydrate linkages from young *Neosinocalamus affinis* bamboo culms. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 19, pp. 15478-15484., Registrované v: WOS
221. [1.1] ZHANG, Dongdong - PAN, Renming - CHEN, Ruiyu - XU, Xiaokang. Pyrolysis Characteristics and Reaction Mechanisms of Pine Needles. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 4, pp. 1056-1083., Registrované v: WOS
222. [1.1] ZHANG, Jingzhi - CAI, Di - QIN, Yanlin - LIU, Dehua - ZHAO, Xuebing. High value-added monomer chemicals and functional bio-based materials derived from polymeric components of lignocellulose by organosolv fractionation. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 371-401. Dostupné na: <https://doi.org/10.1002/bbb.2057>., Registrované v: WOS
223. [1.1] ZHANG, Wei - BARONE, Justin R. - RENNECKAR, Scott. Biomass Fractionation after Denaturing Cell Walls by Glycerol Thermal Processing. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 3, pp. 413-420., Registrované v: WOS
224. [1.1] ZHANG, Yaqin - HE, Hongyan - LIU, Yanrong - WANG, Yanlei - HUO, Feng - FAN, Maohong - ADIDHARMA, Hertanto - LI, Xuehui - ZHANG, Suojiang. Recent progress in theoretical and computational studies on the utilization of lignocellulosic materials. In GREEN CHEMISTRY. ISSN

- 1463-9262, 2019, vol. 21, no. 1, pp. 9-35., Registrované v: WOS
225. [1.1] ZHANG, Yuedong - YU, Guang - LI, Bin - MU, Xindong - PENG, Hui - WANG, Haisong. Hemicellulose isolation, characterization, and the production of xylo-oligosaccharides from the wastewater of a viscose fiber mill. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 141, no., pp. 238-243., Registrované v: WOS
226. [1.1] ZHANG, Zhanying - HARRISON, Mark D. - RACKEMANN, Darryn W. - DOHERTY, William O. S. - O'HARA, Ian M. Organosolv pretreatment of plant biomass for enhanced enzymatic saccharification. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 2, pp. 360-381., Registrované v: WOS
227. [1.1] ZHAO, Xuebing - QI, Feng - LIU, Dehua. Hierarchy Nano- and Ultrastructure of Lignocellulose and Its Impact on the Bioconversion of Cellulose. In NANOTECHNOLOGY FOR BIOENERGY AND BIOFUEL PRODUCTION. ISSN 2196-6982, 2017, vol., no., pp. 117-151., Registrované v: WOS
228. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
229. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In ENERGY TECHNOLOGY. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
230. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A mechanistic model of fast pyrolysis of hemicellulose. In ENERGY & ENVIRONMENTAL SCIENCE. ISSN 1754-5692, 2018, vol. 11, no. 5, pp. 1240-1260., Registrované v: WOS
231. [1.1] ZHOU, Xin - ZHANG, Hongyu - XU, Yong. BIODEGRADATION AND UTILIZATION OF HEMICELLULOSE. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE, 2018, vol., no., pp. 183-218., Registrované v: WOS
232. [1.1] ZHOU, X. - BROADBELT, L. J. - VINU, R. Mechanistic Understanding of Thermochemical Conversion of Polymers and Lignocellulosic Biomass. In THERMOCHEMICAL PROCESS ENGINEERING. ISSN 0065-2377, 2016, vol. 49, no., pp. 95-198., Registrované v: WOS
233. [1.2] BRIENZO, Michel - GARCÍA-APARICIO, María - GÖRGENS, Johann. Spent coffee ground properties and application in bioenergy and bioproducts. In Coffee: Production, Consumption and Health Benefits, 2016-01-01, pp. 67-96., Registrované v: SCOPUS
234. [1.2] BRUM DA SILVA, Alan Miguel - DA LUZ, Sandra Maria - SIVA, Irulappasamy - WINOWLIN JAPPES, Jebas Thangiah - AMICO, Sandro Campos. An overview on plant fiber technology: An interdisciplinary approach. In Sustainable Polymer Composites and Nanocomposites, 2019-01-01, pp. 977-999., Registrované v: SCOPUS
235. [1.2] DALLABERNARDINA, Pietro - SCHUHMACHER, Frank - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated glycan assembly of xyloglucan oligosaccharides. In Organic and Biomolecular Chemistry. ISSN

14770520, 2015-01-01, 14, 1, pp. 309-313., Registrované v: SCOPUS

236. [1.2] DE FREITAS, Caroline - CARMONA, Eleonora - BRIENZO, Michel. Xylooligosaccharides production process from lignocellulosic biomass and bioactive effects. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2019-04-01, 18, pp., Registrované v: SCOPUS

237. [1.2] DE SOUZA, Marcella Fernandes - TEIXEIRA, Ricardo Sposina Sobral - DA SILVA, Ayla Sant'Ana - FERREIRA-LEITÃO, Viridiana Santana - DA SILVA BON, Elba Pinto. Chlorine-free biomass processing: Enzymatic alternatives for bleaching and hydrolysis of lignocellulosic materials. In *Chemistry Beyond Chlorine*, 2016-01-01, pp. 241-268., Registrované v: SCOPUS

238. [1.2] DESHAVATH, Narendra Naik - VEERANKI, Venkata Dasu - GOUD, Vaibhav V. Lignocellulosic feedstocks for the production of bioethanol: Availability, structure, and composition. In *Sustainable Bioenergy: Advances and Impacts*, 2019-01-01, pp. 1-19., Registrované v: SCOPUS

239. [1.2] DONATO, Paola Di - POLI, Annarita - TAURISANO, Valentina - NICOLAUS, Barbara. Polysaccharides from bioagro-waste for new biomolecules. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 603-637., Registrované v: SCOPUS

240. [1.2] FLÓREZ-PARDO, Luz Marina - GONZÁLEZ-CÓRDOBA, Andrea - LÓPEZ-GALÁN, Jorge Enrique. Evaluation of different methods for efficient extraction of hemicelluloses leaves and tops of sugarcane. In *DYNA (Colombia)*. ISSN 00127353, 2018-01-01, 85, 204, pp. 18-27., Registrované v: SCOPUS

241. [1.2] HELD, Michael A. - JIANG, Nan - BASU, Debarati - SHOWALTER, Allan M. - FAIK, Ahmed. Plant cell wall polysaccharides: Structure and biosynthesis. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 3-54., Registrované v: SCOPUS

242. [1.2] KLEEN, Marjatta - PRANOVICH, Andrey - WILLFÖR, Stefan. Statistical modeling of pressurized hot-water batch extraction (PHWE) to produce hemicelluloses with desired properties. In *Holzforschung*. ISSN 00183830, 2016-07-01, 70, 7, pp. 633-640., Registrované v: SCOPUS

243. [1.2] KUMAR, Vishal - SHUKLA, Pratyosh. Functional aspects of xylanases toward industrial applications. In *Frontier Discoveries and Innovations in Interdisciplinary Microbiology*, 2015-01-01, pp. 157-165., Registrované v: SCOPUS

244. [1.2] MAHAPATRA, Samhita - MANIAN, Ramesh Pathy. Bioethanol from lignocellulosic feedstock: A review. In *Research Journal of Pharmacy and Technology*. ISSN 09743618, 2017-08-01, 10, 8, pp. 2750-2758., Registrované v: SCOPUS

245. [1.2] MARULANDA, Valentina Aristizábal - GUTIÉRREZ, Christian David Botero - GONZÁLEZ, Ángela Andrea - GIRALDO, Oscar Hernán - ALZATE, Carlos Ariel Cardona. Using the lignocellulosic biomass to obtain polyhydroxybutyrate as a biopolymer under the biorefinery concept. In *Biopolymers: Structure, Performance and Applications*, 2017-01-01, pp. 115-138., Registrované v: SCOPUS

246. [1.2] MONIZ, P. - DUARTE, L. C. - PEREIRA, H. - CARVALHEIRO, F. Rice straw hemicelluloses: Fractionation processes and potential added-value products. In *Rice and Rice Straw: Production, Cultivation and Uses*, 2017-01-01, pp. 55-88., Registrované v: SCOPUS

247. [1.2] PANDEY, S. - REKHA - CHAUDHARY, H. S. Xylanase: Recent update on commercial production and optimization of factors affecting its yield (A review). In *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. ISSN 09723005, 2015-01-01, 17, 1, pp. 241-247., Registrované v: SCOPUS
248. [1.2] PENG, Xinwen - DU, Fan - ZHONG, Linxin. Synthesis, characterization, and applications of hemicelluloses based eco-friendly polymer composites. In *Sustainable Polymer Composites and Nanocomposites*, 2019-01-01, pp. 1267-1322., Registrované v: SCOPUS
249. [1.2] PLETSCHKE, B. I. - MALGAS, S. - BHATTACHARYA, A. - BHATTACHARYA-SHRIVASTAVA, A. - CLARKE, M. D. - MAFA, M. S. - MORAKE, S. - THORESEN, M. Enzyme synergism: A powerful tool for decreasing enzyme loading for efficient biomass conversion. In *European Biomass Conference and Exhibition Proceedings*, 2016-01-01, 2016, 24thEUBCE, pp. 68-82., Registrované v: SCOPUS
250. [1.2] PRIECEL, Peter - PEREZ MEJIA, Javier Eduardo - CARÀ, Piera Demma - LOPEZ-SANCHEZ, Jose A. CHAPTER 8: Microwaves in the Catalytic Valorisation of Biomass Derivatives. In *RSC Green Chemistry*. ISSN 17577039, 2018-01-01, 2018-January, 56, pp. 243-299., Registrované v: SCOPUS
251. [1.2] RAMÍREZ, Vicente - XIONG, Guangyan - MASHIGUCHI, Kiyoshi - YAMAGUCHI, Shinjiro - PAULY, Markus. Growth- and stress-related defects associated with wall hypoacetylation are strigolactone-dependent. In *Plant Direct*, 2018-06-01, 2, 6, pp., Registrované v: SCOPUS
252. [1.2] SMITH, Micholas Dean. An Abbreviated Historical and Structural Introduction to Lignocellulose. In *ACS Symposium Series*. ISSN 00976156, 2019-01-01, 1338, pp. 1-15., Registrované v: SCOPUS
253. [1.2] SUDHAKAR, K. - REDDY, N. Naryana - RAO, K. Madhusudhana - MOLOI, S. J. - REDDY, A. Babul - SADIKU, E. Rotimi. Polyethylene/Hemicellulose-Based Biocomposites and Bionanocomposites. In *Polyethylene-Based Biocomposites and Bionanocomposites*, 2016-12-12, pp. 167-200., Registrované v: SCOPUS
254. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
255. [1.2] TAVAST, Daniel - JANSSON, Zheng Li - BRÄNNVALL, Elisabet. Influence of spruce xylan characteristics on tensile strength of spruce kraft pulp. In *Holzforschung*. ISSN 00183830, 2015-01-01, 69, 1, pp. 1-7., Registrované v: SCOPUS
256. [1.2] Wang, S., & Luo, Z. Pyrolysis of biomass. IN *Pyrolysis of biomass*, 2017 (Walter de Gruyter, pp. 1-255), Registrované v: SCOPUS
257. [1.2] XU, Mengjie - LI, Weibing - ZHOU, Xuesong. Preparation of Hemicelluloses-based pH Sensitive Hydrogel and Its Application in Controlled Drug Release. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2019-04-01, 38, 4, pp. 23-29., Registrované v: SCOPUS
258. [1.2] XU, Wenjuan - LU, Junjie - CAI, Qinjie - ZHANG, Suping. The synergistic effect of catalyst and inhibitor on furfural production. In *Taiyangneng*

ADCA302 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - SASINKOVÁ, Vlasta. Chemical valorization of agricultural by-products: isolation and characterization of xylan-based antioxidants from almond shell biomass. In *BioResources*, 2008, vol. 3, p. 60-70. ISSN 1930-2126.

Ohlasy:

1. [1.1] DE HOYOS-MARTINEZ, Pedro L. - ERDOCIA, Xabier - CHARRIER-EL BOUHTOURY, Fatima - PRADO, Raquel - LABIDI, Jalel. Multistage treatment of almonds waste biomass: Characterization and assessment of the potential applications of raw material and products. In WASTE MANAGEMENT. ISSN 0956-053X, 2018, vol. 80, no., pp. 40-50., Registrované v: WOS
2. [1.1] DYSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b05459>., Registrované v: WOS
3. [1.1] FARINA, M. - MAURI, M. - PATRIARCA, G. - SIMONUTTI, R. - KLASSON, K. T. - CHENG, H. N. Xe-129 NMR studies of morphology and accessibility in porous biochar from almond shells. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 105, pp. 103803-103810., Registrované v: WOS
4. [1.1] GOWDHAMAN, D. - PONNUSAMI, V. Production and optimization of xylooligosaccharides from corncob by *Bacillus aerophilus* KGJ2 xylanase and its antioxidant potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 79, no., pp. 595-600., Registrované v: WOS
5. [1.1] CHAUDHARY, Arun Kumar - GOPE, Prakash Chandra - SINGH, Vinay K. Water absorption and thickness swelling behavior of almond (*Prunus amygdalus* L.) shell particles and coconut (*Cocos nucifera*) fiber hybrid epoxy-based biocomposite. In SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS. ISSN 0792-1233, 2015, vol. 22, no. 4, pp. 375-382., Registrované v: WOS
6. [1.1] KACEM, Imen - MARTINEZ-SAEZ, Nuria - KALLEL, Fatma - BEN JEDDOU, Khawla - HELBERT, Claire Boisset - CHAABOUNI, Semia Ellouze - DOLORES DEL CASTILLO, Maria. Use of almond shell as food ingredient. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2017, vol. 243, no. 12, pp. 2115-2126., Registrované v: WOS
7. [1.1] KAMMOUN, Maroua - AYEB, Haitham - BETTAIEB, Taoufik - RICHEL, Aurore. Chemical characterisation and technical assessment of agri-food residues, marine matrices, and wild grasses in the South Mediterranean area: A considerable inflow for biorefineries. In WASTE MANAGEMENT. ISSN 0956-053X, 2020, vol. 118, no., pp. 247-257. Dostupné na: <https://doi.org/10.1016/j.wasman.2020.08.032>., Registrované v: WOS
8. [1.1] KAUR, Manpreet - KUMAR, Manoj - SACHDEVA, Sarita - PURI, S. K. An efficient multiphase bioprocess for enhancing the renewable energy production from almond shells. In ENERGY CONVERSION AND

- MANAGEMENT. ISSN 0196-8904, 2020, vol. 203, no., pp. Dostupné na: <https://doi.org/10.1016/j.enconman.2019.112235>., Registrované v: WOS
9. [1.1] LI, Xuemin - LIU, Yinan - HAO, Jianxiu - WANG, Weihong. Study of Almond Shell Characteristics. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 9, pp., Registrované v: WOS
10. [1.1] MATEUS, Maria Margarida - MATOS, Sandro - GUERREIRO, Dinis - DEBIAGI, Paulo - GASPAR, Daniela - FERREIRA, Olga - BORDADO, Joao Carlos - DOS SANTOS, Rui Galhano. Liquefaction of almond husk for assessment as feedstock to obtain valuable bio-oils. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2019, vol. 91, no. 7, pp. 1177-1190., Registrované v: WOS
11. [1.1] MATIN, Narges Hemati - JALALI, Mohsen - ANTONIADIS, Vasileios - SHAHEEN, Sabry M. - WANG, Jianxu - ZHANG, Tao - WANG, Hailong - RINKLEBE, Joerg. Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.124888>., Registrované v: WOS
12. [1.1] QUILES-CARRILLO, L. - MONTANES, N. - SAMMON, C. - BALART, R. - TORRES-GINER, S. Compatibilization of highly sustainable polylactide/almond shell flour composites by reactive extrusion with maleinized linseed oil. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 878-888., Registrované v: WOS
13. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS
14. [1.1] RIVAS, Sandra - RIGUAL, Victoria - CARLOS DOMINGUEZ, Juan - VIRGINIA ALONSO, M. - OLIET, Mercedes - CARLOS PARAJO, Juan - RODRIGUEZ, Francisco. A biorefinery strategy for the manufacture and characterization of oligosaccharides and antioxidants from poplar hemicelluloses. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 123, no., pp. 398-408. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.07.018>., Registrované v: WOS
15. [1.1] SINGH, Ramkrishna D. - SO, Daniel - YAO, C. K. - GILL, Paul - PILLAI, Naresh - MUIR, Jane - ARORA, Amit. Production and faecal fermentation of pentose oligomers of hemicellulose: Study of variables influencing bioprocess efficiency. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 297, no., pp., Registrované v: WOS
16. [1.1] SINGH, V. K. - BANSAL, G. - NEGI, P. - BISHT, A. Characterization of Flexural and Impact Strength of Jute/Almond Hybrid Biocomposite. In JOURNAL OF TESTING AND EVALUATION. ISSN 0090-3973, 2017, vol. 45, no. 3, pp. 763-772., Registrované v: WOS
17. [1.1] UNLU, Cuneyt H. - KUTLU, Meltem - ATICI, Oya Galioglu. Mannich reaction of polysaccharides: Xylan functionalization in aqueous basic medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 19-27., Registrované v: WOS
18. [1.2] SINGH, V. K. - BANSAL, G. - NEGI, P. - BISHT, A. Characterization of flexural and impact strength of jute/almond hybrid biocomposite. In Journal of Testing and Evaluation. ISSN 00903973,

2016-01-01, 45, 3, pp. 763-772., Registrované v: SCOPUS

19. [3.1] Abejón, R. A Bibliometric Study of Scientific Publications regarding Hemicellulose Valorization during the 2000–2016 Period: Identification of Alternatives and Hot Topics. In: CHEMENGINEERING, 2018, vol. 2, issue 1, article number 7, Pages: 1-31, ISSN 1385-8947.

ADCA303 EBRINGEROVÁ, Anna - KARDOŠOVÁ, Alžbeta - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - HŘÍBALOVÁ, V. Immunomodulatory activity of acidic xylans in relation to their structural and molecular properties. In *International Journal of Biological Macromolecules*, 2002, vol. 30, p. 1-6. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(01\)00186-6](https://doi.org/10.1016/S0141-8130(01)00186-6)

Ohlasy:

1. [1.1] BARIK, Arundhati - PATNAIK, Tanushree - PARHI, P. - SWAIN, S. K. - DEY, R. K. Synthesis and characterization of new shellac-hydroxypropylmethylcellulose composite for pharmaceutical applications. In *POLYMER BULLETIN*. ISSN 0170-0839, 2017, vol. 74, no. 9, pp. 3467-3485., Registrované v: WOS
2. [1.1] BLAZEKOVA, Lenka - BIELECKOVA, Silvia - HORVATHOVA, Viera. Isolation and Chemical Characterisation of Wheat Arabinoxylans. In *CHEMICKE LISTY*. ISSN 0009-2770, 2015, vol. 109, no. 9, pp. 666-672., Registrované v: WOS
3. [1.1] CAI, Deqin - GUAN, Dongliang - DING, Kan - HUANG, Wei. Regioselective protection of xylose for efficient synthesis of arabino-alpha-1,3-xylosides. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2017, vol. 58, no. 45, pp. 4293-4295., Registrované v: WOS
4. [1.1] CECCHINI, Davide A. - FAURE, Regis - LAVILLE, Elisabeth - POTOCKI-VERONESE, Gabrielle. Biochemical identification of the catalytic residues of a glycoside hydrolase family 120 beta-xylosidase, involved in xylooligosaccharide metabolism by gut bacteria. In *FEBS LETTERS*. ISSN 0014-5793, 2015, vol. 589, no. 20, pp. 3098-3106., Registrované v: WOS
5. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS
6. [1.1] GAO, Cundian - REN, Junli - KONG, Weiqing - SUN, Runcang - CHEN, Qifeng. Comparative study on temperature/pH sensitive xylan-based hydrogels: their properties and drug controlled release. In *RSC Advances*. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 90671-90681., Registrované v: WOS
7. [1.1] GAO, Cundian - REN, Junli - ZHAO, Cui - KONG, Weiqing - DAI, Qingqing - CHEN, Qifeng - LIU, Chuanfu - SUN, Runcang. Xylan-based temperature/pH sensitive hydrogels for drug controlled release. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 151, no., pp. 189-197., Registrované v: WOS
8. [1.1] HE, Ping - DONG, Zhou - WANG, Qian - ZHAN, Qi-Ping - ZHANG, Meng-Meng - WU, Hui. Structural Characterization and Immunomodulatory Activity of a Polysaccharide from *Eurycoma longifolia*. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2019, vol. 82, no. 2, pp. 169-176., Registrované v: WOS
9. [1.1] HUANG, Ju-qing - QI, Rui-ting - PANG, Mei-rong - LIU, Cong

- LI, Guang-yu - ZHANG, Ying. Isolation, chemical characterization, and immunomodulatory activity of naturally acetylated hemicelluloses from bamboo shavings. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2017, vol. 18, no. 2, pp. 138-151., Registrované v: WOS
10. [1.1] JI, Min Gun - LEE, Yeong Ro - NAM, Youn Hee - CASTANEDA, Rodrigo - HONG, Bin Na - KANG, Tong Ho. Immunostimulatory Action of High-Content Active Arabinoxylan in Rice Bran. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 41, pp. 26374-26381. Dostupné na: <https://doi.org/10.1021/acsomega.0c02472>., Registrované v: WOS
11. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
12. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS
13. [1.1] LI, Huixian - DONG, Zhou - LIU, Xiaojia - CHEN, Huamin - LAI, Furao - ZHANG, Mengmeng. Structure characterization of two novel polysaccharides from Colocasia esculenta (taro) and a comparative study of their immunomodulatory activities. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 42, no., pp. 47-57., Registrované v: WOS
14. [1.1] LI, Nan - HU, Ya-jie - BIAN, Jing - LI, Ming-fei - HAO, Xiang - PENG, Feng - SUN, Run-Cang. Enhanced mechanical performance of xylan-based composite hydrogel via chain extension and semi-interpenetrating networks. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 8, pp. 4407-4416. Dostupné na: <https://doi.org/10.1007/s10570-020-03080-2>., Registrované v: WOS
15. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
16. [1.1] MAHINROOSTA, Mostafa - FARSANGI, Zohreh Jomeh - ALLAHVERDI, Ali - SHAKOORI, Zahra. Hydrogels as intelligent materials: A brief review of synthesis, properties and applications. In MATERIALS TODAY CHEMISTRY. ISSN 2468-5194, 2018, vol. 8, no., pp. 42-55., Registrované v: WOS
17. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - FOUQUET, Thierry - MATSUSHIKA, Akinori - INOUE, Hiroyuki. GH30-7 Endoxylanase C from the Filamentous Fungus Talaromyces cellulolyticus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 22, pp., Registrované v: WOS
18. [1.1] QIAN, Shi-Quan - ZHOU, Lan-Feng - SHI, Ya-Zhong - WU, Ya-Hua - XU, Hui - LU, Zhao-Xin. SODIUM HYDROXIDE-INDUCED PROCESS FOR EFFICIENT XYLAN EXTRACION FROM CORN STRAWS. In CURRENT TOPICS IN NUTRACEUTICAL RESEARCH. ISSN 1540-7535, 2016, vol. 14, no. 1, pp. 73-80., Registrované v: WOS

19. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS
20. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. Extraction, characterization of xylan from *Azadirachta indica* (neem) sawdust and production of antiproliferative xylooligosaccharides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>., Registrované v: WOS
21. [1.1] SCHMIDT, Deborah - SCHUHMACHER, Frank - GEISSNER, Andreas - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated Synthesis of Arabinoxylan-Oligosaccharides Enables Characterization of Antibodies that Recognize Plant Cell Wall Glycans. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 15, pp. 5709-5713., Registrované v: WOS
22. [1.1] SILVA VIANA, Rony Lucas - PEREIRA FIDELIS, Gabriel - JANE CAMPOS MEDEIROS, Mayara - ANTONIO MORGANO, Marcelo - GABRIELA CHAGAS FAUSTINO ALVES, Monique - DOMINGUES PASSERO, Luiz Felipe - LIMA PONTES, Daniel - CORDEIRO THEODORO, Raquel - DOMINGOS ARANTES, Thales - ARAUJO SABRY, Diego - LANZI SASSAKI, Guilherme - FAGUNDES MELO-SILVEIRA, Raniere - ROCHA, Hugo Alexandre Oliveira. Green Synthesis of Antileishmanial and Antifungal Silver Nanoparticles Using Corn Cob Xylan as a Reducing and Stabilizing Agent. In BIOMOLECULES, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/biom10091235>., Registrované v: WOS
23. [1.1] SILVA, Amanda K. A. - JUNET, Maya - MEDDAHI-PELLE, Anne - LETOURNEUR, Didier. Polysaccharide-based strategies for heart tissue engineering. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 267-277., Registrované v: WOS
24. [1.1] WEI, Lusha - RHEE, Mun Su - PRESTON, James F. - CHEN, Hui. Production of acidic xylooligosaccharides from methylglucuronarabinoxylans by *Bacillus subtilis* strain MR44. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2016, vol. 91, no. 7, pp. 2056-2062., Registrované v: WOS
25. [1.1] ZHANG, Huijuan - WANG, Hongna - CAO, Xinran - WANG, Jing. Preparation and modification of high dietary fiber flour: A review. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 113, no., pp. 24-35., Registrované v: WOS
26. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
27. [1.2] SUN, Xiaofeng - ZHOU, Rui - WANG, Lu - WANG, Yaxiong - FENG, Yang. Preparation and properties of xylan/multi-walled carbon nanotubes

composite hydrogels. In Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering. ISSN 10007555, 2016-08-01, 32, 8, pp., Registrované v: SCOPUS

- ADCA304 EBRINGEROVÁ, Anna - KARDOŠOVÁ, Alžbeta - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. Mitogenic and comitogenic activities of polysaccharides from some European herbaceous plants. In *Fitoterapia*, 2003, vol. 74, p. 52-61. ISSN 0367-326X. Dostupné na: [https://doi.org/10.1016/S0367-326X\(02\)00295-2](https://doi.org/10.1016/S0367-326X(02)00295-2)

Ohlasy:

1. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS
2. [1.1] RAJ, Sreena - GOTHANDAM, K. M. Immunomodulatory activity of methanolic extract of *Amorphophallus commutatus* var. *wayanadensis* under normal and cyclophosphamide induced immunosuppressive conditions in mice models. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2015, vol. 81, no., pp. 151-159., Registrované v: WOS
3. [1.2] BOUAL, Z. - CHOUANA, T. - KEMASSI, A. - HAMID OUDJANA, A. - DADDI BOUHOUN, M. - MICHAUD, P. - OULD EL HADJ, M. D. Chemical composition and bioactivity of water-soluble polysaccharides from leaves of *Plantago notata* Lagasca (Plantaginaceae). In *Phytotherapie*. ISSN 16248597, 2015-12-01, 13, 6, pp. 396-402., Registrované v: SCOPUS
4. [1.2] SUDHAKAR, K. - REDDY, N. Naryana - RAO, K. Madhusudhana - MOLOI, S. J. - REDDY, A. Babul - SADIKU, E. Rotimi. Polyethylene/Hemicellulose-Based Biocomposites and Bionanocomposites. In *Polyethylene-Based Biocomposites and Bionanocomposites*, 2016-12-12, pp. 167-200., Registrované v: SCOPUS

- ADCA305 EBRINGEROVÁ, Anna - ANTAL, M. - ŠIMKOVIC, Ivan - MICKO, M.M. New aspects in cationization on lignocellulose materials. III. Influence of delignification on reactivity and extractability of TMAHP-hemicelluloses. In *Journal of Applied Polymer Science*, 1986, vol. 31, p. 303-308. ISSN 0021-8995.

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

- ADCA306 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. - XU, C. - HOLMBOM, B. - SUNDBERG, A. - WILLFOR, S. Norway spruce galactoglucomannans exhibiting immunomodulating and radical-scavenging activities. In *International Journal of Biological Macromolecules*, 2008, vol. 42, p. 1-5. (2007: 1.578 - IF, Q4 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC).

(2008 - Current Contents). ISSN 0141-8130. Dostupné na:
<https://doi.org/10.1016/j.ijbiomic.2007.08.001>

Ohlasy:

1. [1.1] BARBIERI, Shayla Fernanda - RUTHES, Andrea Caroline - DE OLIVEIRA PETKOWICZ, Carmen Lucia - BUENO DE GODOY, Rossana Catie - SASSAKI, Guilherme Lanzi - SANTANA FILHO, Arquimedes Paixao - MEIRA SILVEIRA, Joana Lea. Extraction, purification and structural characterization of a galactoglucomannan from the gabioba fruit (*Campomanesia xanthocarpa* Berg), Myrtaceae family. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 887-895., Registrované v: WOS
2. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS
3. [1.1] HALAJ, Michal - PAULOVICOVA, Ema - PAULOVICOVA, Lucia - JANTOVA, Sona - CEPÁK, Vladislav - LUKAVSKÝ, Jaromir - CAPEK, Peter. Biopolymer of *Dictyosphaerium chlorelloides* chemical characterization and biological effects. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 113, no., pp. 1248-1257., Registrované v: WOS
4. [1.1] KAMARUDIN, Fazlina - GAN, Chee-Yuen. Molecular structure, chemical properties and biological activities of Pinto bean pod polysaccharide. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 88, no., pp. 280-287., Registrované v: WOS
5. [1.1] KONKOL, Yvonne - KESKITALO, Anniina - VUORIKOSKI, Heikki - PIETILA, Sami - ELO, Laura L. - MUNUKKA, Eveliina - BERNOULLI, Jenni - TUOMELA, Johanna. Chronic nonbacterial prostate inflammation in a rat model is associated with changes of gut microbiota that can be modified with a galactoglucomannan-rich hemicellulose extract in the diet. In BJU INTERNATIONAL. ISSN 1464-4096, 2019, vol. 123, no. 5, pp. 899-908., Registrované v: WOS
6. [1.1] KULASINSKI, Karol - GUYER, Robert - KETEN, Sinan - DEROME, Dominique - CARMELIET, Jan. Impact of Moisture Adsorption on Structure and Physical Properties of Amorphous Biopolymers. In MACROMOLECULES. ISSN 0024-9297, 2015, vol. 48, no. 8, pp. 2793-2800., Registrované v: WOS
7. [1.1] LASSFOLK, Robert - RAHKILA, Jani - JOHANSSON, Mikael P. - EKHOLM, Filip S. - WARNA, Johan - LEINO, Reko. Acetyl Group Migration across the Saccharide Units in Oligomannoside Model Compound. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 4, pp. 1646-1654., Registrované v: WOS
8. [1.1] LLOYD, John A. - MURTON, Karl D. Preparation of prehydrolysis-TMPs with different severity factors and analysis of the pulps and byproducts. In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 11, pp. 1003-1013., Registrované v: WOS
9. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN

- CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS
10. [1.1] NAIDJONOKA, Polina - HERNANDEZ, Monica Arcos - PALSSON, Gunnar K. - HEINRICH, Frank - STALBRAND, Henrik - NYLANDER, Tommy. On the interaction of softwood hemicellulose with cellulose surfaces in relation to molecular structure and physicochemical properties of hemicellulose. In *SOFT MATTER*. ISSN 1744-683X, 2020, vol. 16, no. 30, pp. 7063-7076. Dostupné na: <https://doi.org/10.1039/d0sm00264j>., Registrované v: WOS
11. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
12. [1.1] PITKANEN, Leena - HEINONEN, Marina - MIKKONEN, Kirsi S. Safety considerations of plant polysaccharides for food use: a case study on phenolic-rich softwood galactoglucomannan extract. In *FOOD & FUNCTION*. ISSN 2042-6496, 2018, vol. 9, no. 4, pp. 1931-1943., Registrované v: WOS
13. [1.1] SAUPERL, Olivera - DOLISKA, Ales - HADELA, Ajra - STRNAD, Simona. Functionalization of polyethyleneterephthalate fibers using galactoglucomannan from spruce wood. In *TEXTILE RESEARCH JOURNAL*. ISSN 0040-5175, 2016, vol. 86, no. 2, pp. 202-209., Registrované v: WOS
14. [1.1] SOBRI, Nur Syahirah Ahmad - HARUN, Shuhaida - ISHAK, Nor Shahirah - JAHIM, Jamaliah Md - MOHAMMAD, Abdul Wahab. Enhancement of High Xylan Recovery from Black Liquor of Alkaline Pretreated Oil Palm Frond and its Physicochemical Properties. In *BIORESOURCES*. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 5400-5421., Registrované v: WOS
15. [1.1] ULLAH, Samee - KHALIL, Anees Ahmed - SHAUKAT, Faryal - SONG, Yuanda. Sources, Extraction and Biomedical Properties of Polysaccharides. In *FOODS*, 2019, vol. 8, no. 8, pp., Registrované v: WOS
16. [1.1] VALOPPI, Fabio - LAHTINEN, Maarit H. - BHATTARAI, Mamata - KIRJORANTA, Satu J. - JUNTTI, Venla K. - PELTONEN, Leena J. - KILPELAINEN, Petri O. - MIKKONEN, Kirsi S. Centrifugal fractionation of softwood extracts improves the biorefinery workflow and yields functional emulsifiers. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2019, vol. 21, no. 17, pp. 4691-4705., Registrované v: WOS
17. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. Polysaccharides in Human Health Care. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS
18. [1.1] ZHAO, Hongbo - MIKKONEN, Kirsi S. - KILPELAINEN, Petri O. - LEHTONEN, Mari I. Spruce Galactoglucomannan-Stabilized Emulsions Enhance Bioaccessibility of Bioactive Compounds. In *FOODS*, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/foods9050672>., Registrované v: WOS
19. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In *ENERGY TECHNOLOGY*. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
20. [1.2] CHHIKARA, Navnidhi - DEVI, Hidam Roshree - JAGLAN,

- Sundeeep - SHARMA, Paras - GUPTA, Prerna - PANGHAL, Anil. Bioactive compounds, food applications and health benefits of *Parkia speciosa* (stinky beans): A review. In *Agriculture and Food Security*, 2018-07-09, 7, 1, pp., Registrované v: SCOPUS
21. [1.2] JÖNSSON, A. S. Membranes for lignin and hemicellulose recovery in pulp mills. In *Membrane Technologies for Biorefining*, 2016-03-01, pp. 105-133., Registrované v: SCOPUS
22. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive carbohydrates. In *Secondary Metabolite and Functional Food Components: Role in Health and Disease*, 2018-01-01, pp. 197-222., Registrované v: SCOPUS
23. [1.2] LEHTONEN, Mari - TERÄSLAHTI, Suvi - XU, Chunlin - YADAV, Madhav P. - LAMPI, Anna Maija - MIKKONEN, Kirsi S. Spruce galactoglucomannans inhibit lipid oxidation in rapeseed oil-in-water emulsions. In *Food Hydrocolloids*. ISSN 0268005X, 2016-07-01, 58, pp. 255-266., Registrované v: SCOPUS
24. [1.2] YVONNE, Konkol - HEIKKI, Vuorikoski - JOHANNA, Tuomela - BJARNE, Holmbom - JENNI, Bernoulli. Galactoglucomannan-rich hemicellulose extract from Norway spruce (*Picea abies*) exerts benefeffects on chronic prostatic inflammation and lower urinary tract symptoms in vivo. In *International Journal of Biological Macromolecules*. ISSN 01418130, 2017-08-01, 101, pp. 222-229., Registrované v: SCOPUS
25. [1.2] ZULYADI, Nur Hazlilla - SALEH, Sabiha Hanim - SARIJO, Siti Halimah. Fractionation of hemicellulose from rice straw by alkaline extraction and ethanol precipitation. In *Malaysian Journal of Analytical Sciences*. ISSN 13942506, 2016-01-01, 20, 2, pp. 329-334., Registrované v: SCOPUS

ADCA307 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KAČURÁKOVÁ, Marta - ANTAL, Miroslav. Quaternized xylans - synthesis and structural characterization. In *Carbohydrate Polymers*, 1994, vol. 24, no. 4, p. 301-308. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90075-2](https://doi.org/10.1016/0144-8617(94)90075-2)

Ohlasy:

1. [1.1] BAHRPAIMA, Khatereh - FATEHI, Pedram. Synthesis and Characterization of Carboxyethylated Lignosulfonate. In *CHEMSUSCHEM*. ISSN 1864-5631, 2018, vol. 11, no. 17, pp. 2967-2980., Registrované v: WOS
2. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of hemicelluloses through an azetidinium salt ring-opening reaction. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 428, no., pp. 23-30., Registrované v: WOS
3. [1.1] CIZOVA, Alzbeta - NESCAKOVA, Zuzana - MALOVIKOVA, Anna - BYSTRICKY, Slavomir. Preparation and characterization of cationic and amphoteric mannans from *Candida albicans*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 149, no., pp. 1-7., Registrované v: WOS
4. [1.1] CONSTANTIN, Marieta - BUCATARIU, Sanda - URSU, Laura - BUTNARU, Maria - DARABA, Oana Maria - BURLUI, Alexandra Maria - FUNDUEANU, Gheorghe. NOVEL CATIONIC AND HYDROPHOBIC PULLULAN DERIVATIVES AS DNA NANOPARTICULATE CARRIERS. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2019, vol. 53, no. 7-8, pp. 695-707., Registrované v: WOS

5. [1.1] FISEROVA, Maria - GIGAC, Juraj. BLEACHED KRAFT PULP FROM PRE-EXTRACTED BEECH WOOD. In WOOD RESEARCH. ISSN 1336-4561, 2015, vol. 60, no. 3, pp. 451-462., Registrované v: WOS
6. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
7. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - BROSSE, Nicolas. Steam explosion process for the selective extraction of hemicelluloses polymers from spruce sawdust. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 141, no., pp., Registrované v: WOS
8. [1.1] CHANDIKA, Pathum - HEO, Seong-Yeong - KIM, Tae-Hee - OH, Gun-Woo - KIM, Geun-Hyeong - KIM, Min-Sung - JUNG, Won-Kyo. Recent advances in biological macromolecule based tissue-engineered composite scaffolds for cardiac tissue regeneration applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 2329-2357. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.054.>, Registrované v: WOS
9. [1.1] CHINTAKUNTA, Ramesh - BUARON, Nitsa - KAHN, Nicole - MORIAH, Amana - LIFSHIZ, Rinat - GOLDBART, Riki - TRAITTEL, Tamar - TYLER, Betty - BREM, Henry - KOST, Joseph. Synthesis, characterization, and self-assembly with plasmid DNA of a quaternary ammonium derivative of pectic galactan and its fluorescent labeling for bioimaging applications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 150, no., pp. 308-318., Registrované v: WOS
10. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
11. [1.1] KHOSRAVI, M. - DASTAR, B. - AALAMI, M. - SHAWRANG, P. - ASHAYERIZADEH, O. Comparison of gamma-Irradiation and enzyme supplementation to eliminate antinutritional factors in rice bran in broiler chicken diets. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2016, vol. 191, no., pp. 51-56., Registrované v: WOS
12. [1.1] KONG, Fangong - PARHIALA, Kristy - WANG, Shoujuan - FATEHI, Pedram. Preparation of cationic softwood kraft lignin and its application in dye removal. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 67, no., pp. 335-345., Registrované v: WOS
13. [1.1] LAINE, Christiane - KEMPPAINEN, Katariina - KUUTTI, Lauri - VARHIMO, Antero - ASIKAINEN, Sari - GRONROOS, Antti - MAATTANEN, Marjo - BUCHERT, Johanna - HARLIN, Ali. Extraction of xylan from wood pulp and brewer's spent grain. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 70, no., pp. 231-237., Registrované v: WOS
14. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL

- CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455.,
Registrované v: WOS
15. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHA, Urip.
Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF
SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016,
vol., no., pp. 305-339., Registrované v: WOS
16. [1.1] NGUYEN HOANG CHUNG - PHAN HUY HOANG.
PREPARATION OF OAT SPELT XYLAN AND ITS APPLICATION AS
ADDITIVE FOR ENHANCEMENT OF PAPER PROPERTIES. In
CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2019,
vol. 53, no. 5-6, pp. 499-507., Registrované v: WOS
17. [1.1] PAHIMANOLIS, Nikolaos - KILPELAINEN, Petri - MASTER,
Emma - ILVESNIEMI, Hannu - SEPPALA, Jukka. Novel thiol- amine- and
amino acid functional xylan derivatives synthesized by thiol-ene reaction. In
CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp.
392-398., Registrované v: WOS
18. [1.1] PEIL, S. - BECKERS, S. J. - FISCHER, J. - WURM, F. R.
Biodegradable, lignin-based encapsulation enables delivery of *Trichoderma*
reesei with programmed enzymatic release against grapevine trunk diseases. In
MATERIALS TODAY BIO. ISSN 2590-0064, 2020, vol. 7, no., pp. Dostupné
na: <https://doi.org/10.1016/j.mtbio.2020.100061>., Registrované v: WOS
19. [1.1] PRANOVICH, Andrey - HOLMBOM, Bjarne - WILLFOR,
Stefan. TWO-STAGE HOT-WATER EXTRACTION OF
GALACTOGLUCOMANNANS FROM SPRUCE WOOD. In JOURNAL OF
WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2016, vol. 36,
no. 2, pp. 140-156., Registrované v: WOS
20. [1.1] SARKER, Niloy C. - RAY, Priyanka - PFAU, Creighton -
KALAVACHARLA, Venu - HOSSAIN, Khwaja - QUADIR, Mohiuddin.
Development of Functional Nanomaterials from Wheat Bran Derived
Arabinoxylan for Nucleic Acid Delivery. In JOURNAL OF AGRICULTURAL
AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 15, pp.
4367-4373. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c00029>., Registrované
v: WOS
21. [1.1] SHI, Haiqiang - CAO, Nan - ZHANG, Jian - LI, Na - NIU,
Meihong - PING, Qingwei. Optimizing Auto-Hydrolysis Process of Acacia
Wood for Hemicelluloses Recovery by Organosolv Ethanol Process. In
JOURNAL OF BIOBASED MATERIALS AND BIOENERGY. ISSN
1556-6560, 2015, vol. 9, no. 6, pp. 609-615., Registrované v: WOS
22. [1.1] SILVA, Amanda K. A. - JUNET, Maya - MEDDAHI-PELLE,
Anne - LETOURNEUR, Didier. Polysaccharide-based strategies for heart tissue
engineering. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol.
116, no., pp. 267-277., Registrované v: WOS
23. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide
Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL
CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257.,
Registrované v: WOS
24. [1.1] VUOTI, Sauli - NARASIMHA, Kumar - REINIKAINEN, Kai.
Green wastewater treatment flocculants and fixatives prepared from cellulose
using high-consistency processing and deep eutectic solvents. In JOURNAL OF
WATER PROCESS ENGINEERING. ISSN 2214-7144, 2018, vol. 26, no., pp.

83-91., Registrované v: WOS

25. [1.1] WANG, Xiaohui - LIU, Zhongming - WANG, Shoujuan - KONG, Fangong - YANG, Guihua - FATEHI, Pedram - LUCIA, Lucian A. Enhancing the Alkaline Peroxide Mechanical Pulp Strength by Cationization with 3-chloro-2-hydroxypropyl trimethyl ammonium chloride. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 6956-6970., Registrované v: WOS
26. [1.1] WIKBERG, Hanne - GRONBERG, Vidar - JERMAKKA, Johannes - KEMPPAINEN, Katariina - KLEEN, Marjatta - LAINE, Christiane - PAASIKALLIO, Ville - OASMAA, Anja. Hydrothermal refining of biomass an overview and future perspectives. In TAPPI JOURNAL. ISSN 0734-1415, 2015, vol. 14, no. 3, pp. 195-207., Registrované v: WOS
27. [1.1] ZHANG, Ruichi - LEIVISKA, Tiina. Surface modification of pine bark with quaternary ammonium groups and its use for vanadium removal. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2020, vol. 385, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2019.123967>., Registrované v: WOS
28. [1.2] BAJPAI, Pratima. Biotechnology for pulp and paper processing. In Biotechnology for Pulp and Paper Processing, 2018-02-14, pp. 1-588., Registrované v: SCOPUS
29. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
30. [1.2] KURRATAA'YUN - YOPI - MERYANDINI, A. N.J.A. Characterization of Xylanase activity produced by *Paenibacillus* sp. XJ18 from TNBD Jambi, Indonesia. In HAYATI Journal of Biosciences. ISSN 19783019, 2015-01-01, 22, 1, pp. 20-26., Registrované v: SCOPUS

ADCA308 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - BUCHARD, W. - DOLEGA, R. - VORWEG, W. Solution properties of water-insoluble rye-bran arabinoxylan. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1994, vol. 24, s. 161-169. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90126-0](https://doi.org/10.1016/0144-8617(94)90126-0)

Ohlasy:

1. [1.1] BHATTARAI, Mamata - VALOPPI, Fabio - HIRVONEN, Sami-Pekka - HIETALA, Sami - KILPELAINEN, Petri - ASEYEV, Vladimir - MIKKONEN, Kirsi S. Time-dependent self-association of spruce galactoglucomannans depends on pH and mechanical shearing. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 102, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105607>., Registrované v: WOS
2. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
3. [1.1] SAULNIER, L. Types and Functionality of Polysaccharides in Cereal Grains. In CEREAL GRAIN-BASED FUNCTIONAL FOODS: CARBOHYDRATE AND PHYTOCHEMICAL COMPONENTS. ISSN 2398-0656, 2019, vol. 6, no., pp. 54-84., Registrované v: WOS
4. [1.2] HÄNER, Lilia Levy - STAMP, Peter - KREUZER, Michael -

HERRERA, Juan Manuel - PELLET, Didier. Environmental effects on the expression of genotypic differences in wheat grain viscosity. In *Crop Science*. ISSN 0011183X, 2015-01-01, 55, 3, pp. 1311-1319., Registrované v: SCOPUS

5. [1.2] CHEMIN, Maud - WIROTIUS, Anne Laure - HAM-PICHAVANT, Frédérique - CHOLLET, Guillaume - DA SILVA PEREZ, Denilson - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stéphane. Well-defined oligosaccharides by mild acidic hydrolysis of hemicelluloses. In *European Polymer Journal*. ISSN 00143057, 2015-01-01, 66, pp. 190-197., Registrované v: SCOPUS

6. [1.2] MARTINEZ, Patricia Murciano - KABEL, Mirjam A. - GRUPPEN, Harry. Delignification outperforms alkaline extraction for xylan fingerprinting of oil palm empty fruit bunch. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 153, no., pp. 356-363., Registrované v: WOS

- ADCA309 EBRINGEROVÁ, Anna - KRAMÁR, A. - RENDOS, F. - DOMANSKÝ, R.. Stepwise extraction of hemicellulose from wood of white beech (*Carpinus betulus*). In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1967, vol. 21, pp. 74-77. ISSN 0018-3830.
- Ohlasy:
1. [1.1] ARUMUGAM, Nanthakumar - BIELY, Peter - PUCHART, Vladimir - SINGH, Suren - PILLAI, Santhosh. Structure of peanut shell xylan and its conversion to oligosaccharides. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 72, no., pp. 124-129., Registrované v: WOS
 2. [1.1] BIELY, Peter - SINGH, Suren - PUCHART, Vladimir. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1260-1274., Registrované v: WOS
 3. [1.1] PUCHART, Vladimir - KROGH, Kristian B. R. Morkeberg - BIELY, Peter. Glucuronoxylan 3-O-acetylated on uronic acid-substituted xylopyranosyl residues and its hydrolysis by GH10, GH11 and GH30 endoxylanases. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 205, no., pp. 217-224., Registrované v: WOS
 4. [1.1] SUCHOVA, Katarina - KOZMON, Stanislav - PUCHART, Vladimir - MALOVIKOVA, Anna - HOFF, Tine - KROGH, Kristian B. R. Morkeberg - BIELY, Peter. Glucuronoxylan recognition by GH 30 xylanases: A study with enzyme and substrate variants. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*. ISSN 0003-9861, 2018, vol. 643, no., pp. 42-49., Registrované v: WOS
 5. [1.1] SUCHOVA, Katarina - PUCHART, Vladimir - SPODSBERG, Nikolaj - KROGH, Kristian B. R. Morkeberg - BIELY, Peter. A novel GH30 xylobiohydrolase from *Acremonium alcalophilum* releasing xylobiose from the non-reducing end. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109484>., Registrované v: WOS
 6. [1.2] BIELY, Peter - MALOVIKOVÁ, Anna - UHLIARIKOVÁ, Iveta - LI, Xin Liang - WONG, Dominic W.S. Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan. In *FEBS Letters*. ISSN 00145793, 2015-08-12, 589, 18, pp. 2334-2339., Registrované v: SCOPUS

ADCA310 EBRINGEROVÁ, Anna. Structural diversity and application potential of hemicelluloses. In *Macromolecular Symposia*, 2006, vol. 232, p. 1-12. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551401>

Ohlasy:

1. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS
2. [1.1] ANDEREZ FERNANDEZ, Maria - RISSANEN, Jussi - NEBREDÁ, Andrea Perez - XU, Chunlin - WILLFOR, Stefan - GARCIA SERNA, Juan - SALMI, Tapio - GRENMAN, Henrik. Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction comparative study with characterization and kinetics. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2018, vol. 133, no., pp. 647-657., Registrované v: WOS
3. [1.1] BAYATI, Fatemeh - BOLUK, Yaman - CHOI, Phillip. A SHORT REVIEW OF USING WOOD FIBRES IN FOOD PACKAGING. In *J-FOR-JOURNAL OF SCIENCE & TECHNOLOGY FOR FOREST PRODUCTS AND PROCESSES*. ISSN 1927-6311, 2015, vol. 5, no. 4, pp. 45-53., Registrované v: WOS
4. [1.1] BERI, Dhananjay - YORK, William S. - LYND, Lee R. - PENA, Maria J. - HERRING, Christopher D. Development of a thermophilic coculture for corn fiber conversion to ethanol. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-15704-z>., Registrované v: WOS
5. [1.1] BUDTOVA, Tatiana - AGUILERA, Daniel Antonio - BELUNS, Sergejs - BERGLUND, Linn - CHARTIER, Coraline - ESPINOSA, Eduardo - GAIDUKOVS, Sergejs - KLIMEK-KOPYRA, Agnieszka - KMITA, Angelika - LACHOWICZ, Dorota - LIEBNER, Falk - PLATNIEKS, Oskars - RODRIGUEZ, Alejandro - TINOCO NAVARRO, Lizeth Katherine - ZOU, Fangxin - BUWALDA, Sytze J. Biorefinery Approach for Aerogels. In *POLYMERS*, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12122779>., Registrované v: WOS
6. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of tucuma (*Astrocaryum aculeatum*), a commelinid monocotyledon from the family Arecaceae. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS
7. [1.1] CASAS, Gloria A. - LAERKE, Helle N. - KNUDSEN, Knud E. Bach - STEIN, Hans H. Arabinoxylan is the main polysaccharide in fiber from rice coproducts, and increased concentration of fiber decreases in vitro digestibility of dry matter. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2019, vol. 247, no., pp. 255-261., Registrované v: WOS
8. [1.1] CURI-BORDA, Cecilia K. - LINARES-PASTEN, Javier A. - TAT, Tuba - TARQUI-DUENAS, Rosmery - CHINO-FLORES, Ninoska - ALVARADO, Juan-Antonio - BERGENSTAHL, Bjorn. Multilayer Bixin Microcapsules: The Impact of Native Carbohydrates on the Microencapsulation

- Efficiency and Dispersion Stability. In *FOODS*. ISSN 2304-8158, 2019, vol. 8, no. 3, pp., Registrované v: WOS
9. [1.1] DANIELEWICZ, Dariusz - SURMA-SLUSARSKA, Barbara. Miscanthus x giganteus stalks as a potential non-wood raw material for the pulp and paper industry. Influence of pulping and beating conditions on the fibre and paper properties. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2019, vol. 141, no., pp., Registrované v: WOS
10. [1.1] DE BENEDETTI, Stefano - GALANTI, Elisabetta - CAPRARO, Jessica - MAGNI, Chiara - SCARAFONI, Alessio. Lupinus albus gamma-Conglutin, a Protein Structurally Related to GH12 Xyloglucan-Specific Endo-Glucanase Inhibitor Proteins (XEGIPs), Shows Inhibitory Activity against GH2 beta-Mannosidase. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 19, pp. Dostupné na: <https://doi.org/10.3390/ijms21197305>., Registrované v: WOS
11. [1.1] DE MATTOS, Nathalia Ribeiro - COLODETTE, Jorge Luiz - DE OLIVEIRA, Cassiano Rodrigues. Alkaline extraction and carboxymethylation of xylans from corn fiber. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 3, pp. 2177-2189., Registrované v: WOS
12. [1.1] DE SOUZA, Matheus O. - GARRETT, Rafael - PEREIRA, Marcelo M. - MIRANDA, Leandro S. M. Use of Kappaphycus alvarezii Biomass for the Production of Carbohydrate Isopropylidene-Ketal-Based Biocrude. In *ENERGY & FUELS*. ISSN 0887-0624, 2017, vol. 31, no. 9, pp. 9422-9428., Registrované v: WOS
13. [1.1] DELBECQ, Frederic - WANG, Yantao - MURALIDHARA, Anitha - EL OUARDI, Karim - MARLAIR, Guy - LEN, Christophe. Hydrolysis of Hemicellulose and Derivatives-A Review of Recent Advances in the Production of Furfural. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
14. [1.1] DERRIEN, Elie - AHMAR, Mohammed - MARTIN-SISTERON, Emilie - RAFFIN, Guy - QUENEAU, Yves - MARION, Philippe - BEYERLE, Marlene - PINEL, Catherine - BESSON, Michele. Oxidation of Aldoses Contained in Softwood Hemicellulose Acid Hydrolysates into Aldaric Acids under Alkaline or Noncontrolled pH Conditions. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2018, vol. 57, no. 13, pp. 4543-4552., Registrované v: WOS
15. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
16. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
17. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO,

- Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
18. [1.1] DUAN, Jiufang - KARAASLAN, Muzaffer A. - CHO, MiJung - LIU, Li-Yang - JOHNSON, Amanda M. - RENNECKAR, Scott. Investigation into electrospinning water-soluble xylan: developing applications from highly absorbent and hydrophilic surfaces to carbonized fiber. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 413-427., Registrované v: WOS
19. [1.1] DUAN, Ran - WESTERLIND, Bo S. - NORGREN, Magnus - ANUGWOM, Ikenna - VIRTANEN, Pasi - MIKKOLA, Jyri-Pekka. Fibre Stress-Strain Response of High-Temperature Chemi-Thermomechanical Pulp Treated with Switchable Ionic Liquids. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8570-8588., Registrované v: WOS
20. [1.1] GABRIEL, Lars - GERICKE, Martin - HEINZE, Thomas. Modular synthesis of non-charged and ionic xylan carbamate derivatives from xylan carbonates. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 207, no., pp. 782-790., Registrované v: WOS
21. [1.1] GALKIN, Maxim V. - DI FRANCESCO, Davide - EDLUND, Ulrica - SAMEC, Joseph S. M. Sustainable sources need reliable standards. In *FARADAY DISCUSSIONS*. ISSN 1359-6640, 2017, vol. 202, no., pp. 281-301., Registrované v: WOS
22. [1.1] GENG, Wenhui - NARRON, Robert - JIANG, Xiao - PAWLAK, Joel J. - CHANG, Hou-min - PARK, Sunkyu - JAMEEL, Hasan - VENDITTI, Richard A. The influence of lignin content and structure on hemicellulose alkaline extraction for non-wood and hardwood lignocellulosic biomass. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3219-3230., Registrované v: WOS
23. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS
24. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (*Populus grandidentata*) and its potential in water-soluble oxygen barrier films. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na: <https://doi.org/10.1007/s10570-020-02993-2>., Registrované v: WOS
25. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - DE ASSIS, Tiago - GONZALEZ, Ronalds W. - PHILLIPS, Richard B. - CHANG, Hou-min. Techno-economic analysis of hemicellulose extraction from different types of lignocellulosic feedstocks and strategies for cost optimization. In *BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR*. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 225-241. Dostupné na: <https://doi.org/10.1002/bbb.2054>., Registrované v: WOS
26. [1.1] GIGLI-BISCEGLIA, Nora - ENGELSDORF, Timo - HAMANN, Thorsten. Plant cell wall integrity maintenance in model plants and

- crop species-relevant cell wall components and underlying guiding principles. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2020, vol. 77, no. 11, pp. 2049-2077. Dostupné na: <https://doi.org/10.1007/s00018-019-03388-8>., Registrované v: WOS
27. [1.1] GOMES, Teresa M. P. - MENDES DE SOUSA, Antonio R. - BELENKIY, Yuri - EVTUGUIN, Dmitry. Xylan accessibility of bleached eucalypt pulp in alkaline solutions. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 141-148. Dostupné na: <https://doi.org/10.1515/hf-2019-0023>., Registrované v: WOS
28. [1.1] GUNAWAN, Christa - XUE, Saisi - PATTATHIL, Sivakumar - SOUSA, Leonardo da Costa - DALE, Bruce E. - BALAN, Venkatesh. Comprehensive characterization of non-cellulosic recalcitrant cell wall carbohydrates in unhydrolyzed solids from AFEX-pretreated corn stover. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
29. [1.1] HEIKKINEN, Susanna - JACQUEMIN, Leslie - ROUILLY, Antoine - SABLAYROLLES, Caroline - TENKANEN, Maija - PONTALIER, Pierre-Yves. Comparison of two wheat bran extracts in the sheet extrusion process. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 91, no., pp. 1-5., Registrované v: WOS
30. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan Ethers. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS
31. [1.1] HU, Zhenhua - XIANG, Zhouyang - LU, Fachuang. Synthesis and emulsifying properties of long-chain succinic acid esters of glucuronoxylans. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 6, pp. 3713-3724., Registrované v: WOS
32. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - DESOBRY, Stephane - BROSSE, Nicolas. Elaboration of hemicellulose-based films: Impact of the extraction process from spruce wood on the film properties. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108111>., Registrované v: WOS
33. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Barriers from wood hydrolysate/quaternized cellulose polyelectrolyte complexes. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 3, pp. 1977-1991., Registrované v: WOS
34. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
35. [1.1] JIANG, Faxian - ZHOU, Xin - XU, Yong - ZHU, Junjun - YU, Shiyuan. DEGRADATION PROFILES OF NON-LIGNIN CONSTITUENTS OF CORN STOVER FROM DILUTE SULFURIC ACID PRETREATMENT. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2016, vol. 36, no. 3, pp. 192-204., Registrované v: WOS
36. [1.1] JORDAN, Douglas B. - STOLLER, J. Rose - KIBBLEWHITE, Rena E. - CHAN, Victor J. - LEE, Charles C. - WAGSCHAL, Kurt. Absence or

- presence of metal ion activation in two structurally similar GH43 beta-xylosidases. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 114, no., pp. 29-32., Registrované v: WOS
37. [1.1] KALE, Madhuvanti S. - YADAV, Madhav P. - HICKS, Kevin B. - HANAH, Kyle. Concentration and shear rate dependence of solution viscosity for arabinoxylans from different sources. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 47, no., pp. 178-183., Registrované v: WOS
38. [1.1] KAPRELYANTS, L. - ZHURLOVA, O. - SHPYRKO, T. - POZHITKOVA, L. XYLOOLIGOSACCHARIDES FROM AGRICULTURAL BY-PRODUCTS: CHARACTERISATION, PRODUCTION AND PHYSIOLOGICAL EFFECTS. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-UKRAINE. ISSN 2073-8684, 2017, vol. 11, no. 3, pp. 25-34., Registrované v: WOS
39. [1.1] KARPPI, Johanna - ZHAO, Hongbo - CHONG, Sun-Li - KOISTINEN, Antti E. - TENKANEN, Maija - MASTER, Emma. Quantitative Comparison of Pyranose Dehydrogenase Action on Diverse Xylooligosaccharides. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.00011>., Registrované v: WOS
40. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. Optimization and Kinetic Evaluation of Acetylxytan Esterase and Xylanase Production by Trichoderma reesei Using Corn Cob Xylan. In ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>., Registrované v: WOS
41. [1.1] KOBAYASHI, Hirokazu - FUKUOKA, Atsushi. Development of Solid Catalyst-Solid Substrate Reactions for Efficient Utilization of Biomass. In BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN. ISSN 0009-2673, 2018, vol. 91, no. 1, pp. 29-43., Registrované v: WOS
42. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
43. [1.1] KORKALO, Pasi - KORPINEN, Risto - BEUKER, Egbert - SARJALA, Tytti - HELLSTROM, Jarkko - KASEVA, Janne - LASSI, Ulla - JYSKE, Tuula. Clonal Variation in the Bark Chemical Properties of Hybrid Aspen: Potential for Added Value Chemicals. In MOLECULES, 2020, vol. 25, no. 19, pp. Dostupné na: <https://doi.org/10.3390/molecules25194403>., Registrované v: WOS
44. [1.1] LAI, Long Wee - IBRAHIM, Marini - RAHIM, Nasrudin Md - HASHIM, Emi Fazlina - YA'COB, Mohd Zaini - IDRIS, Ani - AKHTAR, Junaid. STUDY ON COMPOSITION, STRUCTURAL AND PROPERTY CHANGES OF OIL PALM FROND BIOMASS UNDER DIFFERENT PRETREATMENTS. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 9-10, pp. 951-959., Registrované v: WOS
45. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol.

- 18, no. 5, pp. 1634-1641., Registrované v: WOS
46. [1.1] LIU, Huan - CHEN, Xueli - JI, Guanya - YU, Haitao - GAO, Chongfeng - HAN, Lujia - XIAO, Weihua. Mechanochemical deconstruction of lignocellulosic cell wall polymers with ball-milling. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 286, no., pp., Registrované v: WOS
47. [1.1] LI, T. - REMON, J. - SHUTTLEWORTH, P. S. - JIANG, Z. - FAN, J. - CLARK, J. H. - BUDARIN, V. L. Controllable production of liquid and solid biofuels by doping-free, microwave-assisted, pressurised pyrolysis of hemicellulose. In ENERGY CONVERSION AND MANAGEMENT. ISSN 0196-8904, 2017, vol. 144, no., pp. 104-113., Registrované v: WOS
48. [1.1] LOIX, Christophe - HUYBRECHTS, Michiel - VANGRONSVELD, Jaco - GIELEN, Marijke - KEUNEN, Els - CUYPERS, Ann. Reciprocal Interactions between Cadmium-Induced Cell Wall Responses and Oxidative Stress in Plants. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
49. [1.1] LORENZ, Dominic - ERASMY, Nicole - AKIL, Youssef - SAAKE, Bodo. A new method for the quantification of monosaccharides, uronic acids and oligosaccharides in partially hydrolyzed xylans by HPAEC-UV/VIS. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 181-187., Registrované v: WOS
50. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
51. [1.1] MALEKI, Laleh - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Green Semi-IPN Hydrogels by Direct Utilization of Crude Wood Hydrolysates. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 8, pp. 4370-4377., Registrované v: WOS
52. [1.1] MALEKI, Laleh - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Synthesis of full interpenetrating hemicellulose hydrogel networks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 170, no., pp. 254-263., Registrované v: WOS
53. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
54. [1.1] MALGAS, Samkelo - PLETSCHKE, Brett I. The effect of an oligosaccharide reducing-end xylanase, BhRex8A, on the synergistic degradation of xylan backbones by an optimised xylanolytic enzyme cocktail. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 122, no., pp. 74-81., Registrované v: WOS
55. [1.1] MA, Ruoxi - PEKAROVICOVA, Alexandra - FLEMING, Paul D. - HUSOVSKA, Veronika. PREPARATION AND CHARACTERIZATION OF HEMICELLULOSE-BASED PRINTABLE FILMS. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2017, vol. 51, no. 9-10, pp. 939-948., Registrované v: WOS
56. [1.1] MEENTS, Miranda J. - WATANABE, Yoichiro - SAMUELS, A. Lacey. The cell biology of secondary cell wall biosynthesis. In ANNALS OF

BOTANY. ISSN 0305-7364, 2018, vol. 121, no. 6, pp. 1107-1125., Registrované v: WOS

57. [1.1] MEENTS, Miranda J. - MOTANI, Sanya - MANSFIELD, Shawn D. - SAMUELS, A. Lacey. Organization of Xylan Production in the Golgi During Secondary Cell Wall Biosynthesis. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2019, vol. 181, no. 2, pp. 527-546., Registrované v: WOS

58. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS

59. [1.1] MIHIRETU, Gezahegn T. - BRODIN, Malin - CHIMPHANGO, Annie F. - OYAAS, Karin - HOFF, Bard H. - GORGENS, Johann F. Single-step microwave-assisted hot water extraction of hemicelluloses from selected lignocellulosic materials A biorefinery approach. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 241, no., pp. 669-680., Registrované v: WOS

60. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS

61. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS

62. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS

63. [1.1] NESIC, Aleksandra - CABRERA-BARJAS, Gustavo - DIMITRIJEVIC-BRANKOVIC, Suzana - DAVIDOVIC, Sladjana - RADOVANOVIC, Neda - DELATTRE, Cedric. Prospect of Polysaccharide-Based Materials as Advanced Food Packaging. In MOLECULES, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010135>., Registrované v: WOS

64. [1.1] NGUYEN HOANG CHUNG - PHAN HUY HOANG. PREPARATION OF OAT SPELT XYLAN AND ITS APPLICATION AS ADDITIVE FOR ENHANCEMENT OF PAPER PROPERTIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2019, vol. 53, no. 5-6, pp. 499-507., Registrované v: WOS

65. [1.1] NIETO-DOMINGUEZ, Manuel - ALBERTO MARTINEZ-FERNANDEZ, Jose - FERNANDEZ DE TORO, Beatriz - MENDEZ-LITER, Juan A. - JAVIER CANADA, Francisco - PRIETO, Alicia - DE EUGENIO, Laura I. - JESUS MARTINEZ, Maria. Exploiting xylan as sugar

donor for the synthesis of an antiproliferative xyloside using an enzyme cascade. In MICROBIAL CELL FACTORIES, 2019, vol. 18, no. 1, pp., Registrované v: WOS

66. [1.1] PILLEGOWDA, Manohar - PERIYASAMY, Ganga. DFT studies on interaction between bimetallic [Au₂M] clusters and cellobiose. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2018, vol. 1129, no., pp. 26-36., Registrované v: WOS

67. [1.1] RANZI, Eliseo - DEBIAGI, Paulo Eduardo Amaral - FRASSOLDATI, Alessio. Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note I: Kinetic Mechanism of Biomass Pyrolysis. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 4, pp. 2867-2881., Registrované v: WOS

68. [1.1] RAZALI, Siti Aisyah - SHAMSIR, Mohd Shahir. Characterisation of a catalytic triad and reaction selectivity in the dual mechanism of the catalyse hydride transfer in xylitol phosphate dehydrogenase. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2020, vol. 97, no., pp. Dostupné na:

<https://doi.org/10.1016/j.jmgm.2020.107548>., Registrované v: WOS

69. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, Volume: 11 Article Number: 74, Registrované v: WOS

70. [1.1] ROSLAN, Abdullah Munir - KAMIL, Afiqah Mustafa - CHANDRAN, Carumathy - SONG, Adelene Ai-Lian - YUSOFF, Khatijah - RAHIM, Raha Abdul. Secretion of recombinant xylanase in Lactococcus lactis using signal peptides Usp45 and Spk1. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 9, pp. 1727-1733. Dostupné na:

<https://doi.org/10.1007/s10529-020-02894-1>., Registrované v: WOS

71. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - DI FALCO, Marcos - ZHOU, Miaomiao - AGUILAR-PONTES, Maria Victoria - SIETIO, Outi-Maaria - TSANG, Adrian - DE VRIES, Ronald P. - MAKELA, Miia R. The molecular response of the white-rot fungus Dichomitus squalens to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., Registrované v: WOS

72. [1.1] SHROTRI, Abhijit - KOBAYASHI, Hirokazu - FUKUOKA, Atsushi. Catalytic Conversion of Structural Carbohydrates and Lignin to Chemicals. In ADVANCES IN CATALYSIS, VOL 60. ISSN 0360-0564, 2017, vol. 60, no., pp. 59-123., Registrované v: WOS

73. [1.1] SPORCK, Daniele - REINOSO, Felipe A. M. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - FERRAZ, Andre - MILAGRES, Adriane M. F. Xylan extraction from pretreated sugarcane bagasse using alkaline and enzymatic approaches. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

74. [1.1] STERN, Tobias - LEDL, Caroline - BRAUN, Martin - HESSER, Franziska - SCHWARZBAUER, Peter. Biorefineries' impacts on the Austrian forest sector: A system dynamics approach. In TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE. ISSN 0040-1625, 2015, vol. 91, no., pp. 311-326., Registrované v: WOS

75. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - BONNAILLIE, Laetitia M. - YADAV, Madhav P. Evaluation of arabinoxylan isolated from sorghum bran, biomass, and bagasse for film formation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 213, no., pp. 382-392., Registrované v: WOS
76. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953. Dostupné na: <https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS
77. [1.1] TAYLOR, Lewis - PHIPPS, Jonathan - BLACKBURN, Stuart - GREENWOOD, Richard - SKUSE, David. Using fibre property measurements to predict the tensile index of microfibrillated cellulose nanopaper. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 11, pp. 6149-6162. Dostupné na: <https://doi.org/10.1007/s10570-020-03226-2>., Registrované v: WOS
78. [1.1] TORRES-MAYANGA, P. C. - AZAMBUJA, S. P. H. - TYUFEKCHIEV, M. - TOMPSETT, G. A. - TIMKO, M. T. - GOLDBECK, R. - ROSTAGNO, M. A. - FORSTER-CARNEIRO, T. Subcritical water hydrolysis of brewer's spent grains: Selective production of hemicellulosic sugars (C-5 sugars). In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2019, vol. 145, no., pp. 19-30., Registrované v: WOS
79. [1.1] TROIANO, D. - ORSAT, V. - DUMONT, M. J. Status of filamentous fungi in integrated biorefineries. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2019.109472>., Registrované v: WOS
80. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Plantago ovata Using Gamma Irradiation Spectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
81. [1.1] VAISANEN, Taneli - KILPELAINEN, Petri - KITUNEN, Veikko - LAPPALAINEN, Reijo - TOMPPO, Laura. Effect of steam treatment on the chemical composition of hemp (Cannabis sativa L.) and identification of the extracted carbohydrates and other compounds. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 131, no., pp. 224-233., Registrované v: WOS
82. [1.1] VAN DE WOUWER, Dorien - BOERJAN, Wout - VANHOLME, Bartel. Plant cell wall sugars: sweeteners for a bio-based economy. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2018, vol. 164, no. 1, pp. 27-44., Registrované v: WOS
83. [1.1] VARGAS, Fatima - GONZALEZ, Zoilo - ROJAS, Orlando - GARROTE, Gil - RODRIGUEZ, Alejandro. Barley Straw (Hordeum vulgare) as a Supplementary Raw Material for Eucalyptus camaldulensis and Pinus sylvestris Kraft Pulp in the Paper Industry. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 2, pp. 3682-3693., Registrované v: WOS
84. [1.1] VON FREIESLEBEN, Pernille - SPODSBERG, Nikolaj - BLICHER, Thomas Holberg - ANDERSON, Lars - JORGENSEN, Henning -

- STALBRAND, Henrik - MEYER, Anne S. - KROGH, Kristian B. R. M. An *Aspergillus nidulans* GH26 endo-beta-mannanase with a novel degradation pattern on highly substituted galactomannans. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2016, vol. 83, no., pp. 68-77., Registrované v: WOS
85. [1.1] VON FREIESLEBEN, Pernille - MOROZ, Olga V. - BLAGOVA, Elena - WIEMANN, Mathias - SPODSBERG, Nikolaj - AGGER, Jane W. - DAVIES, Gideon J. - WILSON, Keith S. - STALBRAND, Henrik - MEYER, Anne S. - KROGH, Kristian B. R. M. Crystal structure and substrate interactions of an unusual fungal non-CBM carrying GH26 endo-beta-mannanase from *Yunnania penicillata*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
86. [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties. In *MATERIALS*. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
87. [1.1] XU, Youjie - LI, Jun - MOORE, Connor - XIN, Zhanguo - WANG, Donghai. Physico-chemical characterization of pedigreed sorghum mutant stalks for biofuel production. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 124, no., pp. 806-811., Registrované v: WOS
88. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E-coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS
89. [1.1] ZANG, Haoyu - XIE, Shanshan - WU, Huijun - WANG, Weiduo - SHAO, Xiankun - WU, Liming - RAJER, Faheem Uddin - GAO, Xuwen. A novel thermostable GH5_7 beta-mannanase from *Bacillus pumilus* GBSW19 and its application in manno-oligosaccharides (MOS) production. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 78, no., pp. 1-9., Registrované v: WOS
90. [1.2] ASHTER, Syed Ali. Technology and Applications of Polymers Derived from Biomass. In *Technology and Applications of Polymers Derived from Biomass*, 2017-11-18, pp. 1-272., Registrované v: SCOPUS
91. [1.2] BETORET, E. - CALABUIG-JIMÉNEZ, L. - BETORET, N. - BARRERA, C. - SEGUI, L. - FITO, P. Sustainable Innovation in Food Science and Engineering. In *Innovation Strategies in the Food Industry: Tools for Implementation*, 2016-06-14, pp. 149-165., Registrované v: SCOPUS
92. [1.2] BOKHARY, Alnour - TIKKA, Adrianna - LEITCH, Mathew - LIAO, Baoqiang. Membrane fouling prevention and control strategies in pulp and paper industry applications: A review. In *Journal of Membrane Science and Research*, 2018-09-01, 4, 4, pp. 181-197., Registrované v: SCOPUS
93. [1.2] BOKHARY, A. - CUI, L. - LIN, H. J. - LIAO, B. Q. A review of membrane technologies for integrated forest biorefinery. In *Journal of Membrane Science and Research*, 2017-06-01, 3, 3, pp. 120-141., Registrované v: SCOPUS
94. [1.2] CIFTCI, Deniz - SALDAÑA, Marleny D.A. Hydrolysis of sweet blue lupin hull using subcritical water technology. In *Bioresource Technology*.

- ISSN 09608524, 2015-10-01, 194, pp. 75-82., Registrované v: SCOPUS
95. [1.2] DALLI, Sai Swaroop - RAKSHIT, Sudip K. Utilization of hemicelluloses from lignocellulosic biomass-potential products. In *Lignocellulose: Biotechnology, Chemical Composition and Future Prospects*, 2015-07-01, pp. 85-118., Registrované v: SCOPUS
96. [1.2] FLÓREZ-PARDO, Luz Marina - GONZÁLEZ-CÓRDOBA, Andrea - LÓPEZ-GALÁN, Jorge Enrique. Characterization of hemicelluloses from leaves and tops of the CC 8475, CC 8592, and V 7151 varieties of sugarcane (*Saccharum officinarum* L.). In *DYNA (Colombia)*. ISSN 00127353, 2019-07-01, 86, 210, pp. 98-107., Registrované v: SCOPUS
97. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
98. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. The effects of delignification on hemicellulose extraction from switchgrass, pine and poplar. In *Pulping, Engineering, Environmental, Recycling, Sustainability Conference 2016, PEERS 2016*, 2016-01-01, 2, pp. 787-795., Registrované v: SCOPUS
99. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou Min. Effect of delignification on hemicellulose extraction from switchgrass, poplar, and pine and its effect on enzymatic convertibility of Cellulose-rich Residues. In *BioResources*, 2019-01-01, 13, 3, pp. 4946-4963., Registrované v: SCOPUS
100. [1.2] GOMES, Katiana R. - CHIMPHANGO, Annie F.A. - GÖRGENS, Johann F. Modifying solubility of polymeric xylan extracted from *Eucalyptus grandis* and sugarcane bagasse by suitable side chain removing enzymes. In *Carbohydrate Polymers*. ISSN 01448617, 2015-06-22, 131, pp. 177-185., Registrované v: SCOPUS
101. [1.2] GRITSCH, Cristina - WAN, Yongfang - MITCHELL, Rowan A.C. - SHEWRY, Peter R. - HANLEY, Steven J. - KARP, Angela. G-fibre cell wall development in willow stems during tension wood induction. In *Journal of Experimental Botany*. ISSN 00220957, 2015-01-01, 66, 20, pp. 6447-6459., Registrované v: SCOPUS
102. [1.2] Heinen, P. R., Betini, J. H. A., & Polizeli, M. L. T. M. Xylanases. In *Encyclopedia of Microbiology 2019* (pp. 604-615), Registrované v: SCOPUS
103. [1.2] HEINRICH, Steffen - DIPPOLD, Michaela A. - WERNER, Christiane - WIESENBERG, Guido L.B. - KUZYAKOV, Yakov - GLASER, Bruno. Allocation of freshly assimilated carbon into primary and secondary metabolites after in situsup13/supC pulse labelling of Norway spruce (*Picea abies*). In *Tree Physiology*. ISSN 0829318X, 2015-01-01, 35, 11, pp. 1176-1191., Registrované v: SCOPUS
104. [1.2] KAMBO, Harpreet Singh - DUTTA, Animesh. A comparative review of biochar and hydrochar in terms of production, physico-chemical properties and applications. In *Renewable and Sustainable Energy Reviews*. ISSN 13640321, 2015-01-01, 45, pp. 359-378., Registrované v: SCOPUS
105. [1.2] MANJULA, B. - BABUL REDDY, A. - JAYARAMUDU, T. - SADIKU, E. R. - OWONUBI, S. J. - AGBOOLA, Oluranti - MOKRANI, Tauhami. Hydrogels and its nanocomposites from renewable resources:

- Biotechnological and biomedical applications. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 67-95., Registrované v: SCOPUS
106. [1.2] SALIMATH, P. V. - REVANAPPA, S. B. Cereal Pentosans: Structure-function relationship. In Trends in Carbohydrate Research, 2016-01-01, 8, 3, pp. 1-18., Registrované v: SCOPUS
107. [1.2] SINGH, Ramkrishna D. - BANERJEE, Jhumur - ARORA, Amit. Prebiotic potential of oligosaccharides: A focus on xylan derived oligosaccharides. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2015-01-01, 5, 1, pp. 19-30., Registrované v: SCOPUS
108. [1.2] SMITH, Micholas Dean. An Abbreviated Historical and Structural Introduction to Lignocellulose. In ACS Symposium Series. ISSN 00976156, 2019-01-01, 1338, pp. 1-15., Registrované v: SCOPUS
109. [1.2] SOLEIMANI, Majid - TABIL, Lope G. - NIU, Catherine. Delignification of intact biomass and cellulosic coproduct of acid-catalyzed hydrolysis. In AIChE Journal. ISSN 00011541, 2015-01-01, 61, 6, pp. 1783-1791., Registrované v: SCOPUS
110. [1.2] STOKLOSA, Ryan J. - HODGE, David B. Fractionation and Improved Enzymatic Deconstruction of Hardwoods with Alkaline Delignification. In Bioenergy Research. ISSN 19391234, 2015-09-08, 8, 3, pp. 1224-1234., Registrované v: SCOPUS
111. [1.2] SUDHAKAR, K. - REDDY, N. Naryana - RAO, K. Madhusudhana - MOLOI, S. J. - REDDY, A. Babul - SADIKU, E. Rotimi. Polyethylene/Hemicellulose-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 167-200., Registrované v: SCOPUS
112. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
113. [1.2] Xu, Y., Sun, X. S., & Wang, D. (2019). Wheat. In Integrated Processing Technologies for Food and Agricultural By-Products (pp. 3-20), Registrované v: SCOPUS

ADCA311 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - PETRÁKOVÁ, Eva - HRICOVÍNÍ, Miloš. Structural features of a water-soluble L-arabino-D-xylan from rye bran. In *Carbohydrate Research*, 1990, vol. 198, p. 57-66. (1990 - Current Contents, SCOPUS). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(90\)84276-Z](https://doi.org/10.1016/0008-6215(90)84276-Z)

Ohlasy:

1. [1.1] DO NASCIMENTO, Georgia Erdmann - BAGGIO, Cristiane H. - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Arabinoxylan from Mucilage of Tomatoes (*Solanum lycopersicum* L.): Structure and Antinociceptive Effect in Mouse Models. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 6, pp. 1239-1244., Registrované v: WOS
2. [1.1] DOERING, Clemens - JEKLE, Mario - BECKER, Thomas. Technological and Analytical Methods for Arabinoxylan Quantification from Cereals. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2016, vol. 56, no. 6, pp. 999-1011., Registrované v: WOS

3. [1.1] GUAN, Ying - CHEN, Jinghuan - QI, Xianming - CHEN, Gegu - PENG, Feng - SUN, Runcang. Fabrication of Biopolymer Hydrogel Containing Ag Nanoparticles for Antibacterial Property. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 30, pp. 7393-7400., Registrované v: WOS
4. [1.1] GUAN, Ying - RAO, Jun - WU, Yule - GAO, Hui - LIU, Shengquan - CHEN, Gegu - PENG, Feng. Hemicelluloses-based magnetic aerogel as an efficient adsorbent for Congo red. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 369-375. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.231>., Registrované v: WOS
5. [1.1] CHEN, Zhuoyun - LI, Shanshan - FU, Yuanfang - LI, Cheng - CHEN, Daiwen - CHEN, Hong. Arabinoxylan structural characteristics, interaction with gut microbiota and potential health functions. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 54, no., pp. 536-551., Registrované v: WOS
6. [1.1] LI, Helong - LI, Zhi - PENG, Pai - SHE, Diao - XU, Qiang - ZHANG, Xueming. Characteristics of hemicelluloses obtained from sweet sorghum based on successive extractions. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 46, pp., Registrované v: WOS
7. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v: WOS
8. [1.1] MEBARKI, Moubarek - HACHEM, Kadda - FAUGERON, Celine - MEZEMAZE, Riad el Houari - KAID-HARCHE, Meriem. Extraction and analysis of the parietal polysaccharides of acorn pericarps from Quercus trees. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2019, vol. 29, no. 3, pp., Registrované v: WOS
9. [1.1] RAVN, Jonas Laukkonen - MARTENS, Helle Juel - PETTERSSON, Dan - PEDERSEN, Ninfa Rangel. A commercial GH 11 xylanase mediates xylan solubilisation and degradation in wheat, rye and barley as demonstrated by microscopy techniques and wet chemistry methods. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2016, vol. 219, no., pp. 216-225., Registrované v: WOS
10. [1.1] SALIMATH, P. - REVANAPPA, S. B. Cereal Pentosans: Structure-function relationship. In TRENDS IN CARBOHYDRATE RESEARCH. ISSN 0975-0304, 2016, vol. 8, no. 3, pp. 1-18., Registrované v: WOS
11. [1.1] WEI, Hui - BRUNECKY, Roman - DONOHOE, Bryon S. - DING, Shi-You - CIESIELSKI, Peter N. - YANG, Shihui - TUCKER, Melvin P. - HIMMEL, Michael E. Identifying the ionically bound cell wall and intracellular glycoside hydrolases in late growth stage Arabidopsis stems: implications for the genetic engineering of bioenergy crops. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS

12. [1.2] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In *Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications*, 2016-08-04, pp. 475-511., Registrované v: SCOPUS

ADCA312 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - BERTH, G. Structural and molecular properties of a water soluble arabinoxylan-protein complex isolated from rye bran. In *Carbohydrate Research*, 1994, vol.264, p. 97-109. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00183-9](https://doi.org/10.1016/0008-6215(94)00183-9)

Ohlasy:

1. [1.1] ADDOUN, Noura - BOUAL, Zakaria - DELATTRE, Cedric - URSU, Alina - DESBRIERES, Jacques - LE CERF, Didier - GARDARIN, Christine - HENTATI, Faiez - EL-HADJ, Mohamed Didi Ould - MICHAUD, Philippe - PIERRE, Guillaume. Structural features and rheological behavior of a water-soluble polysaccharide extracted from the seeds of *Plantago ciliata* Desf. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*.

ISSN 0141-8130, 2020, vol. 155, no., pp. 1333-1341. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.11.106>., Registrované v: WOS

2. [1.1] Gong, L (Gong, Lu); Zhang, H (Zhang, Hua); Niu, YG (Niu, Yuge); Chen, L (Chen, Lei); Liu, J (Liu, Jie); Alaxi, S (Alaxi, Sierkemideke); Shang, PP (Shang, Pingping); Yu, WJ (Yu, Wenjuan); Yu, LL (Yu, Liangli (Lucy)): A Novel Alkali Extractable Polysaccharide from *Plantago asiatic* L. Seeds and Its Radical-Scavenging and Bile Acid-Binding Activities. In: *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY* Volume: 63 Issue: 2 Pages: 569-577, Registrované v: WOS

3. [1.1] HAN, Wenfang - LI, Jiangtao - DING, Yuqin - XIONG, Shanbai - ZHAO, Siming. Structural Features, Antitumor and Antioxidant Activities of Rice Bran Polysaccharides Using Different Extraction Methods. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2017, vol. 82, no. 10, pp. 2403-2410., Registrované v: WOS

4. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - YADAV, Madhav P. - LOPEZ-FRANCO, Yolanda L. - RASCON-CHU, Agustin - LIZARDI-MENDOZA, Jaime - BROWN-BOJORQUEZ, Francisco - SILVA-CAMPA, Erika - PEDROZA-MONTERO, Martin. Partial removal of protein associated with arabinoxylans: Impact on the viscoelasticity, crosslinking content, and microstructure of the gels formed. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2019, vol. 136, no. 15, pp., Registrované v: WOS

5. [1.1] MOBIN, Mohammad - RIZVI, Marziya. Polysaccharide from *Plantago* as a green corrosion inhibitor for carbon steel in 1 M HCl solution. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 160, no., pp. 172-183., Registrované v: WOS

6. [1.1] Saeed, F (Saeed, F.); Arshad, MU (Arshad, M. U.); Pasha, I (Pasha, I.); Suleria, HAR (Suleria, H. A. R.); Arshad, MS (Arshad, M. S.); Qamar, A (Qamar, A.); Ullah, A (Ullah, Azmat); Sultan, S (Sultan, S.): EFFECT OF ARABINOXYLAN AND ARABINO GALACTAN ON TEXTURAL ATTRIBUTES OF BREAD. In: *JOURNAL OF FOOD PROCESSING AND*

PRESERVATION Volume: 39 Issue: 6 Pages: 1070-1088, Registrované v: WOS

7. [1.1] SAULNIER, L. Types and Functionality of Polysaccharides in Cereal Grains. In CEREAL GRAIN-BASED FUNCTIONAL FOODS: CARBOHYDRATE AND PHYTOCHEMICAL COMPONENTS. ISSN 2398-0656, 2019, vol. 6, no., pp. 54-84., Registrované v: WOS

8. [1.1] ZHU, Jiangxiong - YU, Chuang - HAN, Zi - CHEN, Ziyang - WEI, Xinlin - WANG, Yuanfeng. Comparative analysis of existence form for selenium and structural characteristics in artificial selenium-enriched and synthetic selenized green tea polysaccharides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 154, no., pp. 1408-1418. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.022>., Registrované v: WOS

ADCA313 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj - BERTH, G. Structural and solution properties of corn cob heteroxylans. In *Carbohydrate Polymers*, 1992, vol. 19, p. 99-105. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(92\)90119-B](https://doi.org/10.1016/0144-8617(92)90119-B)

Ohlasy:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS

2. [1.1] GAO, Hui - SUN, Meng-Yun - CHENG, Huan-Ying - GAO, Wen-Li - DING, Xiao-Long. Effects of Heat Treatment under Vacuum on Properties of Poplar. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 1, pp. 1031-1043., Registrované v: WOS

3. [1.1] GUAN, Ying - QI, Xian-Ming - ZHANG, Bing - CHEN, Ge-Gu - PENG, Feng - SUN, Run-Cang. Physically Crosslinked Composite Hydrogels of Hemicelluloses with Poly(vinyl alcohol phosphate) and Chitin Nanowhiskers. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 1, pp. 1378-1393., Registrované v: WOS

4. [1.1] GUAN, Ying - QI, Xian-Ming - CHEN, Ge-Gu - PENG, Feng - SUN, Run-Cang. Facile approach to prepare drug-loading film from hemicelluloses and chitosan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 542-548., Registrované v: WOS

5. [1.1] HU, Lifang - PENG, Hong - XIA, Qi - ZHANG, Yu - RUAN, Roger - ZHOU, Wenguang. Effect of ionic liquid pretreatment on the physicochemical properties of hemicellulose from bamboo. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1210, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2020.128067>., Registrované v: WOS

6. [1.1] CHEN, Ge-Gu - QI, Xian-Ming - LI, Ming-Peng - GUAN, Ying - BIAN, Jing - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS

7. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - NIU, Yuge - DAI,

- Bona - YU, Liangli (Lucy). A Novel Alkaline Hemicellulosic Heteroxylan Isolated from Alfalfa (*Medicago sativa* L.) Stem and Its Thermal and Anti-inflammatory Properties. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 11, pp. 2970-2978., Registrované v: WOS
8. [1.1] CHONG, Sun-Li - KOUTANIEMI, Sanna - JUVONEN, Minna - DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. - TENKANEN, Maija. Glucuronic acid in *Arabidopsis thaliana* xylans carries a novel pentose substituent. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 79, no., pp. 807-812., Registrované v: WOS
9. [1.1] JIA, Xiaojing - HAN, Yejun. The extracellular endo-1,4-xylanase with multidomain from the extreme thermophile *Caldicellulosiruptor lactoaceticus* is specific for insoluble xylan degradation. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
10. [1.1] KISHANI, Saina - VILAPLANA, Francisco - XU, Wenyang - XU, Chunlin - WAGBERG, Lars. Solubility of Softwood Hemicelluloses. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 4, pp. 1245-1255., Registrované v: WOS
11. [1.1] LITTUNEN, Kuisma - KILPELAINEN, Petri - JUNKKA, Karoliina - SIPPONEN, Mika - MASTER, Emma R. - SEPPALA, Jukka. Effect of Xylan Structure on Reactivity in Graft Copolymerization and Subsequent Binding to Cellulose. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 4, pp. 1102-1111., Registrované v: WOS
12. [1.1] PENG, Xiaopeng - NIE, Shuangxi - LI, Xiaoping - HUANG, Xiong - LI, Quanzi. Characteristics of the Water- and Alkali-Soluble Hemicelluloses Fractionated by Sequential Acidification and Graded-Ethanol from Sweet Maize Stems. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 1, pp., Registrované v: WOS
13. [1.1] PEREZ-RODRIGUEZ, Noelia - TORRADO-AGRASAR, Ana - DOMINGUEZ, Jose M. USE OF *ASPERGILLUS NIGER* EXTRACTS OBTAINED BY SOLID-STATE FERMENTATION. In MUSHROOM BIOTECHNOLOGY: DEVELOPMENTS AND APPLICATIONS, 2016, vol., no., pp. 173-190., Registrované v: WOS
14. [1.1] QIAN, Shi-Quan - ZHOU, Lan-Feng - SHI, Ya-Zhong - WU, Ya-Hua - XU, Hui - LU, Zhao-Xin. SODIUM HYDROXIDE-INDUCED PROCESS FOR EFFICIENT XYLAN EXTRACION FROM CORN STRAWS. In CURRENT TOPICS IN NUTRACEUTICAL RESEARCH. ISSN 1540-7535, 2016, vol. 14, no. 1, pp. 73-80., Registrované v: WOS
15. [1.1] YAN, Jipeng - OYEDEJI, Oluwafemi - LEAL, Juan H. - DONOHUE, Bryon S. - SEMELSBERGER, Troy A. - LI, Chenlin - HOOVER, Amber N. - WEBB, Erin - BOSE, Elizabeth A. - ZENG, Yining - WILLIAMS, C. Luke - SCHALLER, Kastli D. - SUN, Ning - RAY, Allison E. - TANJORE, Deepti. Characterizing Variability in Lignocellulosic Biomass: A Review. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8059-8085. Dostupné na: <https://doi.org/10.1021/acssuschemeng.9b06263>., Registrované v: WOS
16. [1.1] YUAN, Lin - PENG, Hong - HU, Lifang - YU, Ruobing - PENG, Wenyi - RUAN, Roger - XIA, Qi - ZHANG, Yu - LIU, Aihong.

- Dissolution of Bamboo Hemicellulose in 1-Butyl-3-Methylimidazolium Halide-based Ionic Liquids. In *BIORESOURCES*. ISSN 1930-2126, 2019, vol. 14, no. 1, pp. 2097-2112., Registrované v: WOS
17. [1.2] GUAN, Ying - RAO, Jun - WU, Yule - YANG, Ran - GAO, Hui. Preparation and Characterization of Carboxymethyl Hemicelluloses/Chitosan/Graphene Oxide Composite Film. In *Chemistry and Industry of Forest Products*. ISSN 02532417, 2019-12-28, 39, 6, pp. 13-20., Registrované v: SCOPUS
18. [1.2] MA, Jiliang - XIANG, Zhihua - LIN, Yuyang - PENG, Xinwen - SUN, Runcang. Preparation of Xylan-Based Catalyst and its Catalytic Synthesis of Benzoxanthene Derivatives. In *Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science)*. ISSN 1000565X, 2018-07-01, 46, 7, pp. 54-61., Registrované v: SCOPUS
19. [1.2] PÉREZ-RODRÍGUEZ, Noelia - TORRADO-AGRASAR, Ana - DOMÍNGUEZ, José M. Use of *Aspergillus niger* Extracts Obtained by Solid-State Fermentation. In *Mushroom Biotechnology: Developments and Applications*, 2015-10-20, pp. 173-190., Registrované v: SCOPUS

ADCA314 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V.
Structure and mitogenic activities of corn cob heteroxylans. In *International Journal of Biological Macromolecules*, 1995, vol. 17, p. 327-331. ISSN 0141-8130.
Dostupné na: [https://doi.org/10.1016/0141-8130\(96\)81840-X](https://doi.org/10.1016/0141-8130(96)81840-X)

Ohlasy:

1. [1.1] ADSTEDT, Katarina - POPENOV, Elizabeth A. - PIERCE, Kellina J. - XIONG, Rui - GERYAK, Ren - CHERPAK, Vladyslav - NEPAL, Dhriti - BUNNING, Timothy J. - TSUKRUK, Vladimir V. Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, 2020, vol. 30, no. 49, pp. Dostupné na: <https://doi.org/10.1002/adfm.202003597>., Registrované v: WOS
2. [1.1] BHAGIA, Samarthya - PU, Yunqiao - EVANS, Barbara R. - DAVISON, Brian H. - RAGAUSKAS, Arthur J. Hemicellulose characterization of deuterated switchgrass. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 269, no., pp. 567-570., Registrované v: WOS
3. [1.1] BRITO, Talita Katiane - SILVA VIANA, Rony Lucas - GONCALVES MORENO, Claudia Jassica - BARBOSA, Jefferson da Silva - DE SOUSA JUNIOR, Francimar Lopes - CAMPOS DE MEDEIROS, Mayara Jane - MELO-SILVEIRA, Raniere Fagundes - ALMEIDA-LIMA, Jailma - PONTES, Daniel de Lima - SILVA, Marcelo Sousa - OLIVEIRA ROCHA, Hugo Alexandre. Synthesis of Silver Nanoparticle Employing Corn Cob Xylan as a Reducing Agent with Anti-Trypanosoma cruzi Activity. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2020, vol. 15, no., pp. 965-979. Dostupné na: <https://doi.org/10.2147/IJN.S216386>., Registrované v: WOS
4. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS
5. [1.1] DO NASCIMENTO, Georgia Erdmann - BAGGIO, Cristiane H. - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - CORDEIRO,

- Lucimara M. C. Arabinoxylan from Mucilage of Tomatoes (*Solanum lycopersicum* L.): Structure and Antinociceptive Effect in Mouse Models. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 6, pp. 1239-1244., Registrované v: WOS
6. [1.1] FARHAT, Wissam - VENDITTI, Richard A. - HUBBE, Martin - TAHA, Mohamed - BECQUART, Frederic - AYOUB, Ali. A Review of Water-Resistant Hemicellulose-Based Materials: Processing and Applications. In CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 2, pp. 305-323., Registrované v: WOS
7. [1.1] HARISH, B. S. - UPPULURI, Kiran Babu - ANBAZHAGAN, Veerappan. Synthesis of fibrinolytic active silver nanoparticle using wheat bran xylan as a reducing and stabilizing agent. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 104-110., Registrované v: WOS
8. [1.1] KANENGONI, A. T. - CHIMONYO, M. - NDIMBA, B. K. - DZAMA, K. Potential of Using Maize Cobs in Pig Diets A Review. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, 2015, vol. 28, no. 12, pp. 1669-1679., Registrované v: WOS
9. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS
10. [1.1] MARENDIA, Flavia Roberta B. - COLODEL, Cristiane - CANTERI, Maria Helene G. - DE OLIVERA MUELLER, Carmen Maria - AMANTE, Edna R. - DE OLIVEIRA PETKOWICZ, Carmen Lucia - DE MELLO CASTANHO AMBONI, Renata Dias. Investigation of cell wall polysaccharides from flour made with waste peel from unripe banana (*Musa sapientum*) biomass. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 9, pp. 4363-4372., Registrované v: WOS
11. [1.1] MELO-SILVEIRA, Raniere Fagundes - SILVA VIANA, Rony Lucas - SABRY, Diego Araujo - DA SILVA, Rodrigo Augusto - MACHADO, Daisy - LIMA NASCIMENTO, Ana Karina - SCORTECCI, Katia Castanho - FERREIRA-HALDER, Carmen Verissima - SASSAKI, Guilherme Lanzi - OLIVEIRA ROCHA, Hugo Alexandre. Antiproliferative xylan from corn cobs induces apoptosis in tumor cells. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 210, no., pp. 245-253., Registrované v: WOS
12. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using response surface methodology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
13. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS
14. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHAP, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF

SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS

15. [1.1] SOLEIMANI, Majid - TABIL, Lope G. - NIU, Catherine. Delignification of intact biomass and cellulosic coproduct of acid-catalyzed hydrolysis. In AICHE JOURNAL. ISSN 0001-1541, 2015, vol. 61, no. 6, pp. 1783-1791., Registrované v: WOS

16. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS

17. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from Eucalyptus grandis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS

18. [1.1] ZHAO, Xianhai - TONG, Tingting - LI, HuiLing - LU, Haojun - REN, Junli - ZHANG, Aiping - DENG, Xiaomei - CHEN, Xiaoyang - WU, Ai-Min. Characterization of hemicelluloses from Neolamarckia cadamba (Rubiaceae) during xylogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 333-339., Registrované v: WOS

ADCA315 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. The effect of ultrasound on the structure and properties of the water-soluble corn hull heteroxylan. In *Ultrasonics Sonochemistry*, 1997, vol. 4, p.305-309. (1996: 1.373 - IF, Current Contents - CCC). (1997 - Current Contents). ISSN 1350-4177.

Ohlasy:

1. [1.1] ALAJLOUNI, Abdalmajeed M. - AL-MALAHMEH, Amer J. - ISNAENI, Farida Nur - WESSELING, Sebastiaan - VERVOORT, Jacques - RIETJENS, Ivonne M. C. M. Level of Alkenylbenzenes in Parsley and Dill Based Teas and Associated Risk Assessment Using the Margin of Exposure Approach. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 45, pp. 8640-8646., Registrované v: WOS

2. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS

3. [1.1] DU, Bin - ZENG, Huansong - YANG, Yuedong - BIAN, Zhaoxiang - XU, Baojun. Anti-inflammatory activity of polysaccharide from Schizophyllum commune as affected by ultrasonication. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 100-105., Registrované v: WOS

4. [1.1] GOGATE, Parag R. - PRAJAPAT, Amrutlal L. Depolymerization using sonochemical reactors: A critical review. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2015, vol. 27, no., pp. 480-494., Registrované v: WOS

5. [1.1] CHEN, Yun - YAO, Fangke - MING, Ke - WANG, Deyun - HU, Yuanliang - LIU, Jiaguo. Polysaccharides from Traditional Chinese Medicines: Extraction, Purification, Modification, and Biological Activity. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 12, pp., Registrované v: WOS

6. [1.1] JACOTET-NAVARRO, M. - ROMBAUT, N. - DESLIS, S. - FABIANO-TIXIER, A.S. - PIERRE, F.X. - BILY, A. - CHEMAT, F. Towards a "dry" bio-refinery without solvents or added water using microwaves and ultrasound for total valorization of fruit and vegetable by-products. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 10, pp. 3106-3115., Registrované v: WOS
7. [1.1] LANDIM NEVES, Maria Isabel - STRIEDER, Monique Martins - VARDANEGA, Renata - SILVA, Eric Keven - MEIRELES, M. Angela A. Biorefinery of turmeric (*Curcuma longa* L.) using non-thermal and clean emerging technologies: an update on the curcumin recovery step. In RSC ADVANCES, 2020, vol. 10, no. 1, pp. 112-121., Registrované v: WOS
8. [1.1] LANDIM NEVES, Maria Isabel - STRIEDER, Monique Martins - VARDANEGA, Renata - SILVA, Eric Keven - MEIRELES, M. Angela A. Biorefinery of turmeric (*Curcuma longa* L.) using non-thermal and clean emerging technologies: an update on the curcumin recovery step. In RSC ADVANCES, 2020, vol. 10, no. 1, pp. 112-121. Dostupné na: <https://doi.org/10.1039/c9ra08265d>., Registrované v: WOS
9. [1.1] LIU, Zaizhi - MO, Kailin - FEI, Shimin - ZU, Yuangang - YANG, Lei. Efficient approach for the extraction of proanthocyanidins from *Cinnamomum longepaniculatum* leaves using ultrasonic irradiation and an evaluation of their inhibition activity on digestive enzymes and antioxidant activity in vitro. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 15, pp. 3100-3113., Registrované v: WOS
10. [1.1] MA, Tingting - SUN, Xiangyu - TIAN, Chengrui - LUO, Jiyang - ZHENG, Cuiping - ZHAN, Jicheng. Polysaccharide extraction from *Sphallerocarpus gracilis* roots by response surface methodology. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 88, no., pp. 162-170., Registrované v: WOS
11. [1.1] OHORO, C. R. - ADENIJI, A. O. - OKOH, A. I. - OKOH, O. O. Distribution and Chemical Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in the Environmental Systems: A Review. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. ISSN 1661-7827, 2019, vol. 16, no. 17, pp., Registrované v: WOS
12. [1.1] PEREIRA, Gustavo Araujo - SILVA, Eric Keven - PEIXOTO ARAUJO, Nayara Macedo - ARRUDA, Henrique Silvano - MEIRELES, M. Angela A. - PASTORE, Glaucia Maria. Obtaining a novel mucilage from mutamba seeds exploring different high intensity ultrasound process conditions. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2019, vol. 55, no., pp. 332-340., Registrované v: WOS
13. [1.1] WANG, Jing-yu - YANG, Yu-ling - TANG, Xiao-zhi - NI, Wen-xi - ZHOU, Lei. Effects of pulsed ultrasound on rheological and structural properties of chicken myofibrillar protein. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2017, vol. 38, no., pp. 225-233., Registrované v: WOS
14. [1.1] ZHANG, Lifen - ZHANG, Xianzhong - LIU, Donghong - DING, Tian - YE, Xingqian. Effect of degradation methods on the structural properties of citrus pectin. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 61, no. 2, pp. 630-637., Registrované v: WOS
15. [1.1] ZHONG, Kui - ZHANG, Qi - TONG, Litao - LIU, Liya -

ZHOU, Xianrong - ZHOU, Sumei. Molecular weight degradation and rheological properties of schizophyllan under ultrasonic treatment. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 23, no., pp. 75-80.,

Registrované v: WOS

16. [1.1] ZHU, Haodong - LIU, Chen - HOU, Jinjun - LONG, Huali - WANG, Bing - GUO, De'an - LEI, Min - WU, Wanying. Gastrodia elata Blume Polysaccharides: A Review of Their Acquisition, Analysis, Modification, and Pharmacological Activities. In *MOLECULES*, 2019, vol. 24, no. 13, pp.,

Registrované v: WOS

17. [1.2] KÖHN, C. R. - ALMEIDA, J. C. - SCHMIDT, M. M. - VIDAL, A. R. - KEMPKA, A. P. - DEMIATE, I. M. - ROSA, C. S. - KUBOTA, E. H. - MELLO, R. O. - PRESTES, R. C. Evaluation of water absorption capacity of ingredients and additives used in the meat industry submitted to different saline concentrations and ultrasound. In *International Food Research Journal*. ISSN 19854668, 2016-01-01, 23, 2, pp. 653-659., Registrované v: SCOPUS

ADCA316 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj - HŘÍBALOVÁ, V. The immunologically active xylan from ultrasound-treated corn cobs: extractability, structure and properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1998, vol. 37, p. 231-239. (1997: 0.956 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(98\)00065-4](https://doi.org/10.1016/S0144-8617(98)00065-4)

Ohlasy:

1. [1.1] ALU'DATT, Muhammad H. - GAMMOH, Sana - RABABAH, Taha - ALMOMANI, Mohammed - ALHAMAD, Mohammad N. - EREIFEJ, Khalil - ALMAJWAL, Ali - TAHAT, Asma - HUSSEIN, Neveen M. - ABOU NASSER, Sura. Preparation, characterization, nanostructures and bio functional analysis of sonicated protein co-precipitates from brewers' spent grain and soybean flour. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 240, no., pp. 784-798., Registrované v: WOS

2. [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS

3. [1.1] BLAZEKOVA, Lenka - BIELECKOVA, Silvia - HORVATHOVA, Viera. Isolation and Chemical Characterisation of Wheat Arabinoxylans. In *CHEMICKE LISTY*. ISSN 0009-2770, 2015, vol. 109, no. 9, pp. 666-672., Registrované v: WOS

4. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS

5. [1.1] CECCHINI, Davide A. - FAURE, Regis - LAVILLE, Elisabeth - POTOCKI-VERONESE, Gabrielle. Biochemical identification of the catalytic residues of a glycoside hydrolase family 120 beta-xylosidase, involved in

- xylooligosaccharide metabolism by gut bacteria. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 20, pp. 3098-3106., Registrované v: WOS
6. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS
7. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS
8. [1.1] FU, Chenglong - DONG, Xiaobin - WANG, Shoujuan - KONG, Fangong. Synthesis of nanocomposites using xylan and graphite oxide for remediation of cationic dyes in aqueous solutions. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 137, no., pp. 886-894., Registrované v: WOS
9. [1.1] KAWEE-AI, Arthitaya - SRISUWUN, Aungkana - TANTIWA, Niditaya - NONTAMAN, Wimada - BOONCHUAY, Pinpanit - KUNTIYA, Ampin - CHAIYASO, Thanongsak - SEESURIYACHAN, Phisit. Eco-friendly processing in enzymatic xylooligosaccharides production from corncob: Influence of pretreatment with sonocatalytic-synergistic Fenton reaction and its antioxidant potentials. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2016, vol. 31, no., pp. 184-192., Registrované v: WOS
10. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo Phyllostachys aurea. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS
11. [1.1] MITTAL, Rochak - TAVANANDI, Hrishikesh A. - MANTRI, Vaibhav A. - RAGHAVARAO, K. S. M. S. Ultrasound assisted methods for enhanced extraction of phycobiliproteins from marine macro-algae, Gelidium pusillum (Rhodophyta). In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2017, vol. 38, no., pp. 92-103., Registrované v: WOS
12. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHA, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS
13. [1.1] NING, Haoran - WU, Xiaowei - WU, Qing - YU, Wanlu - WANG, Huaiji - ZHENG, Shang - CHEN, Yunong - LI, Yongyong - SU, Jiansheng. Microfiber-Reinforced Composite Hydrogels Loaded with Rat Adipose-Derived Stem Cells and BMP-2 for the Treatment of Medication-Related Osteonecrosis of the Jaw in a Rat Model. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2019, vol. 5, no. 5, pp. 2430-2443., Registrované v: WOS
14. [1.1] PANIZZO, Cecilia - FERNANDEZ, Paula - COLOMBATTO, Dario - CIANCIA, Marina - VEGA, Andrea. Anatomy, nutritional value and cell

wall chemical analysis of foliage leaves of *Guadua chacoensis* (Poaceae, Bambusoideae, Bambuseae), a promising source of forage. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 4, pp. 1349-1358., Registrované v: WOS

15. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS

16. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN, Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS

17. [1.1] SHIVUDU, Godhulayyagari - KHAN, Sourav - CHANDRARAJ, Krishnan - SELVAM, Parasuraman. Immobilization of Recombinant Endo-1,4-beta-xylanase on Ordered Mesoporous Matrices for Xylooligosaccharides Production. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2019, vol. 4, no. 38, pp. 11214-11221., Registrované v: WOS

18. [1.1] SILVA VIANA, Rony Lucas - PEREIRA FIDELIS, Gabriel - JANE CAMPOS MEDEIROS, Mayara - ANTONIO MORGANO, Marcelo - GABRIELA CHAGAS FAUSTINO ALVES, Monique - DOMINGUES PASSERO, Luiz Felipe - LIMA PONTES, Daniel - CORDEIRO THEODORO, Raquel - DOMINGOS ARANTES, Thales - ARAUJO SABRY, Diego - LANZI SASSAKI, Guilherme - FAGUNDES MELO-SILVEIRA, Raniere - ROCHA, Hugo Alexandre Oliveira. Green Synthesis of Antileishmanial and Antifungal Silver Nanoparticles Using Corn Cob Xylan as a Reducing and Stabilizing Agent. In *BIOMOLECULES*, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/biom10091235>., Registrované v: WOS

19. [1.1] TAVANANDI, Hrishikesh A. - DEVI, A. Chandralekha - RAGHAVARAO, K. S. M. S. A newer approach for the primary extraction of allophycocyanin with high purity and yield from dry biomass of *Arthrospira platensis*. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2018, vol. 204, no., pp. 162-174., Registrované v: WOS

20. [1.1] TAVANANDI, Hrishikesh A. - MITTAL, Rochak - CHANDRASEKHAR, Jampani - RAGHAVARAO, K. S. M. S. Simple and efficient method for extraction of C-Phycocyanin from dry biomass of *Arthrospira platensis*. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*. ISSN 2211-9264, 2018, vol. 31, no., pp. 239-251., Registrované v: WOS

21. [1.1] TUNGLAND, Bryan. Overview of Prebiotics: Membership, Physiological Effects and their Health Attributes. In *HUMAN MICROBIOTA IN HEALTH AND DISEASE: PATHOGENESIS TO THERAPY*, 2018, vol., no., pp. 289-348., Registrované v: WOS

22. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In *CARBOHYDRATE POLYMERS*. ISSN

0144-8617, 2020, vol. 250, no., pp. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
23. [3.1] Raman M., Ambalam P., Doble M. (2016). Bioactive
Carbohydrate: Prebiotics and Colorectal Cancer. In *Probiotics and Bioactive
Carbohydrates in Colon Cancer Management* (Springer, chapter 4, pp. 57-82

ADCA317 EBRINGEROVÁ, Anna - KRAMÁR, A. - DOMANSKÝ, R. The structure of
(4-O-methylglucurono)xylans from the hornbeam wood. In *Holzforschung :
International Journal of the Biology, Chemistry, Physics, and Technology of Wood*,
1969, vol. 23, pp. 89-. ISSN 0018-3830.

Ohlasy:

1. [1.2] Vinnitskiy, D. Z., Ustyuzhanina, N. E., & Nifantiev, N. E.
(2015). Natural bacterial and plant biomolecules bearing α -d-glucuronic acid
residues. *Russian Chemical Bulletin*, 64(6), 1273-1301, Registrované v:
SCOPUS

ADCA318 EBRINGEROVÁ, Anna - KRAMÁR, A. Uronic acids from hornbeam wood
(*Carpinus betulus* L.). In *Cellulose Chemistry and Technology*, 1968, vol. 2, p.
67-71. ISSN 0576-9787.

Ohlasy:

1. [1.1] BIELY, Peter - SINGH, Suren - PUCHART, Vladimir. Towards
enzymatic breakdown of complex plant xylan structures: State of the art. In
BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp.
1260-1274., Registrované v: WOS

ADCA319 EBRINGEROVÁ, Anna - KRAMÁR, A. Uronic acids from hornbeam wood
(*Carpinus betulus* L.). In *Cellulose Chemistry and Technology*, 1968, vol. 2., p.
67-74. ISSN 0576-9787.

Ohlasy:

1. [1.1] VINNITSKIY, D. Z. - USTYUZHANINA, N. E. -
NIFANTIEV, N. E. Natural bacterial and plant biomolecules bearing
 α -D-glucuronic acid residues. In *RUSSIAN CHEMICAL BULLETIN*. ISSN
1066-5285, 2015, vol. 64, no. 6, pp. 1273-1301., Registrované v: WOS

ADCA320 EBRINGEROVÁ, Anna - ALFOLDI, Juraj - HROMÁDKOVÁ, Zdenka -
PAVLOV, G.M. - HARDING, S.E. Water-soluble p-carboxybenzylated beechwood
4-O-methylglucuronoxylan: structural features and properties. In *Carbohydrate
Polymers : scientific and technological aspects of industrially important
polysaccharides*, 2000, vol. 42, p. 123-131. (1999: 0.987 - IF, Current Contents -
CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na:
[https://doi.org/10.1016/S0144-8617\(99\)00150-2](https://doi.org/10.1016/S0144-8617(99)00150-2)

Ohlasy:

1. [1.1] ABURAYA, Shunsuke - AOKI, Wataru - KURODA, Kouichi -
MINAKUCHI, Hiroshi - UEDA, Mitsuyoshi. Temporal proteome dynamics of
Clostridium cellulovorans cultured with major plant cell wall polysaccharides. In
BMC MICROBIOLOGY. ISSN 1471-2180, 2019, vol. 19, no., pp., Registrované
v: WOS
2. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON,
Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to
Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL*

REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207.,
Registrované v: WOS

3. [1.1] NAHUN SOLIER, Yamil - NATALI SCHNELL, Carla - NOEL CABRERA, Maria - ANGEL ZANUTTINI, Miguel - CRISTINA INALBON, Maria. Alkali-peroxide extraction of xylan from sugar cane bagasse. Characteristics and film forming capacity. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 145, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2019.112056>., Registrované v: WOS
4. [1.2] HUANG, Cao Xing - HE, Juan - MIN, Dou Yong - LI, Xin - YONG, Qiang. Isolation and characterization of hemicellulose from Moso bamboo green and bamboo yellow. In Chemistry and Industry of Forest Products. ISSN 02532417, 2015-01-01, 35, 5, pp. 29-36., Registrované v: SCOPUS

ADCA321 EBRINGEROVÁ, Anna - HEINZE, T. Xylan and xylan derivatives - biopolymers with valuable properties, 1 - Naturally occurring xyans structures, procedures and properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2000, vol. 21, s. 542-556. (1999: 0.987 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1002/1521-3927\(20000601\)21:9<542::AID-MARC542>3.0.CO;2-7](https://doi.org/10.1002/1521-3927(20000601)21:9<542::AID-MARC542>3.0.CO;2-7)

Ohlasy:

1. [1.1] ADSTEDT, Katarina - POPENOV, Elizabeth A. - PIERCE, Kellina J. - XIONG, Rui - GERYAK, Ren - CHERPAK, Vladyslav - NEPAL, Dhriti - BUNNING, Timothy J. - TSUKRUK, Vladimir V. Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 49, pp. Dostupné na: <https://doi.org/10.1002/adfm.202003597>., Registrované v: WOS
2. [1.1] AGUEDO, Mario - RUIZ, Hector A. - RICHEL, Aurore. Non-alkaline solubilization of arabinoxylans from destarched wheat bran using hydrothermal microwave processing and comparison with the hydrolysis by an endoxylanase. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 96, no., pp. 72-82., Registrované v: WOS
3. [1.1] AHMAD, Fiaz - SILVA, Edson Luiz - AMANCIO VARESCHE, Maria Bernadete. Hydrothermal processing of biomass for anaerobic digestion A review. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2018, vol. 98, no., pp. 108-124., Registrované v: WOS
4. [1.1] AHMAD, Waqar - KUITUNEN, Susanna - BORREGA, Marc - ALOPAEUS, Ville. Physicochemical Modeling for Hot Water Extraction of Birch Wood. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2016, vol. 55, no. 42, pp. 11062-11073., Registrované v: WOS
5. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS
6. [1.1] AKIL, Youssef - LEHNEN, Ralph - SAAKE, Bodo. Novel synthesis of hydroxyvinylethyl xylan using 4-vinyl-1, 3-dioxolan-2-one. In

TETRAHEDRON LETTERS. ISSN 0040-4039, 2016, vol. 57, no. 37, pp. 4200-4202., Registrované v: WOS

7. [1.1] AKIL, Youssef - LORENZ, Dominic - LEHNEN, Ralph - SAAKE, Bodo. Safe and non-toxic hydroxyalkylation of xylan using propylene carbonate. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2016, vol. 77, no., pp. 88-97., Registrované v: WOS

8. [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS

9. [1.1] ALBERMANN, Christoph. Glycan Production by Bacterial Fermentation. In SYNTHETIC GLYCOMES. ISSN 2055-1975, 2019, vol. 11, no., pp. 311-355., Registrované v: WOS

10. [1.1] ALTGEN, Michael - KYIRO, Suvi - PAAJANEN, Olli - RAUTKARI, Lauri. Resistance of thermally modified and pressurized hot water extracted Scots pine sapwood against decay by the brown-rot fungus Rhodonia placenta. In EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS. ISSN 0018-3768, 2020, vol. 78, no. 1, pp. 161-171. Dostupné na: <https://doi.org/10.1007/s00107-019-01482-z>., Registrované v: WOS

11. [1.1] APOLINAR-VALIENTE, Rafael - ROMERO-CASCALES, Inmaculada - WILLIAMS, Pascale - GOMEZ-PLAZA, Encarna - MARIA LOPEZ-ROCA, Jose - MARIA ROS-GARCIA, Jose - DOCO, Thierry. Oligosaccharides of Cabernet Sauvignon, Syrah and Monastrell red wines. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 179, no., pp. 311-317., Registrované v: WOS

12. [1.1] ARAI, Tsutomu - BIELY, Peter - UHLIARIKOVA, Iveta - SATO, Nobuaki - MAKISHIMA, Satoshi - MIZUNO, Masahiro - NOZAKI, Kouichi - KANEKO, Satoshi - AMANO, Yoshihiko. Structural characterization of hemicellulose released from corn cob in continuous flow type hydrothermal reactor. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 127, no. 2, pp. 222-230., Registrované v: WOS

13. [1.1] ASHADUZZAMAN, Md - HALE, Michael D. - ORMONDROYD, Graham A. - SPEAR, Morwenna J. Dynamic mechanical analysis of Scots pine and three tropical hardwoods. In INTERNATIONAL WOOD PRODUCTS JOURNAL. ISSN 2042-6445, 2020, vol. 11, no. 4, pp. 189-203. Dostupné na: <https://doi.org/10.1080/20426445.2020.1799910>., Registrované v: WOS

14. [1.1] AUGIMERI, Richard V. - VARLEY, Andrew J. - STRAP, Janice L. Establishing a Role for Bacterial Cellulose in Environmental Interactions: Lessons Learned from Diverse Biofilm-Producing Proteobacteria. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

15. [1.1] AZEVEDO CARVALHO, Ana Flavia - MARCONDES, Wilian Fioreli - NETO, Pedro de Oliva - PASTORE, Glaucia Maria - SADDLER, Jack N. - ARANTES, Valdeir. The potential of tailoring the conditions of steam explosion to produce xylo-oligosaccharides from sugarcane bagasse. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 250, no., pp. 221-229., Registrované v: WOS

16. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA,

Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS

17. [1.1] BALA, Esha - SINGHA, Siddhartha - PATRA, Sanjukta. Polysaccharides from leafy vegetables: chemical, nutritional and medicinal properties. In NATURAL POLYSACCHARIDES IN DRUG DELIVERY AND BIOMEDICAL APPLICATIONS, 2019, vol., no., pp. 567-588., Registrované v: WOS

18. [1.1] BAO, Yuping - ZHANG, Hao - LUAN, Qian - ZHENG, Mingming - TANG, Hu - HUANG, Fenghong. Fabrication of cellulose nanowhiskers reinforced chitosan-xylan nanocomposite films with antibacterial and antioxidant activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 184, no., pp. 66-73., Registrované v: WOS

19. [1.1] BARHOUM, Ahmed - JEEVANANDAM, Jaison - RASTOGI, Amit - SAMYN, Pieter - BOLUK, Yaman - DUFRESNE, Alain - DANQUAH, Michael K. - BECHELANY, Mikhael. Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. In NANOSCALE. ISSN 2040-3364, 2020, vol. 12, no. 45, pp. 22845-22890. Dostupné na: <https://doi.org/10.1039/d0nr04795c>., Registrované v: WOS

20. [1.1] BARRETO, Andressa Ribas - ZANCAN, Luiza Rodrigues - DE MENEZES, Cristiano Ragagnin. Xylooligosaccharides obtainable on lignocellulosic residues: alternative for production of functional components of food. In REVISTA ELETRONICA EM GESTAO EDUCACAO E TECNOLOGIA AMBIENTAL. ISSN 2236-1170, 2015, vol. 19, no. 3, pp. 821-836., Registrované v: WOS

21. [1.1] BARTETZKO, Max P. - PFRENGLE, Fabian. Automated Glycan Assembly of Plant Oligosaccharides and Their Application in Cell-Wall Biology. In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 7, pp. 877-885., Registrované v: WOS

22. [1.1] BASILE, Lucia - TUGNOLI, Alessandro - COZZANI, Valerio. Influence of Macrocomponents on the Pyrolysis Heat Demand of Lignocellulosic Biomass. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2017, vol. 56, no. 22, pp. 6432-6440., Registrované v: WOS

23. [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS

24. [1.1] BENSUSSAN, Matthieu - LEFEBVRE, Valerie - DUCAMP, Aloise - TROUVERIE, Jacques - GINEAU, Emilie - FORTABAT, Marie-Noelle - GUILLEBAUX, Alexia - BALDY, Aurelie - NAQUIN, Delphine - HERBETTE, Stephane - LAPIERRE, Catherine - MOUILLE, Gregory - HORLOW, Christine - DURAND-TARDIF, Mylene. Suppression of Dwarf and irregular xylem Phenotypes Generates Low-Acetylated Biomass Lines in Arabidopsis. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 168, no. 2, pp. 452-+, Registrované v: WOS

25. [1.1] BHATIA, Rakesh - GALLAGHER, Joe A. - GOMEZ, Leonardo D. - BOSCH, Maurice. Genetic engineering of grass cell wall polysaccharides for

- biorefining. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2017, vol. 15, no. 9, pp. 1071-1092., Registrované v: WOS
26. [1.1] BOKHARY, Amour - MALEKI, Esmat - LIAO, Baoqiang. Ultrafiltration for hemicelluloses recovery and purification from thermomechanical pulp mill process waters. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2018, vol. 118, no., pp. 103-112., Registrované v: WOS
27. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of hemicelluloses through an azetidinium salt ring-opening reaction. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 428, no., pp. 23-30., Registrované v: WOS
28. [1.1] BORJESSON, Mikaela - HARDELIN, Linda - NYLANDER, Filip - KARLSSON, Kristina - LARSSON, Anette - WESTMAN, Gunnar. Arabinoxylan and Nanocellulose from a Kilogram-scale Extraction of Barley Husk. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 6201-6220., Registrované v: WOS
29. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS
30. [1.1] BOURAOUI, Hanen - DESROUSSEAU, Marie-Laure - IOANNOU, Eleni - ALVIRA, Pablo - MANAI, Mohamed - REMOND, Caroline - DUMON, Claire - FERNANDEZ-FUENTES, Narcis - O'DONOHUE, Michael J. The GH51 alpha-L-arabinofuranosidase from *Paenibacillus* sp THS1 is multifunctional, hydrolyzing main-chain and side-chain glycosidic bonds in heteroxylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
31. [1.1] BRUSA, C. - BELLOY, N. - GERARD, D. - MUZARD, M. - DAUCHEZ, M. - PLANTIER-ROYON, R. - REMOND, C. Exploring the aglycone subsite of a GH11 xylanase for the synthesis of xylosides by transglycosylation reactions. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 272, no., pp. 56-63., Registrované v: WOS
32. [1.1] BRUSA, Charlotte - MUZARD, Murielle - REMOND, Caroline - PLANTIER-ROYON, Richard. beta-Xylopyranosides: synthesis and applications. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 91026-91055., Registrované v: WOS
33. [1.1] BULLOCK, Avery - ZIERVOGEL, Kai - GHOBRIAL, Sherif - SMITH, Shannon - MCKEE, Brent - ARNOSTI, Carol. A Multi-season Investigation of Microbial Extracellular Enzyme Activities in Two Temperate Coastal North Carolina Rivers: Evidence of Spatial but Not Seasonal Patterns. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
34. [1.1] BUSSE-WICHER, Marta - GRANTHAM, Nicholas J. - LYCZAKOWSKI, Jan J. - NIKOLOVSKI, Nino - DUPREE, Paul. Xylan decoration patterns and the plant secondary cell wall molecular architecture. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44,

no., pp. 74-78., Registrované v: WOS

35. [1.1] CANDIDO, R. G. - GONCALVES, A. R. Synthesis of cellulose acetate and carboxymethylcellulose from sugarcane straw. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 679-686., Registrované v: WOS

36. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleracea*). In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS

37. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS

38. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS

39. [1.1] CORREA, Catalina Rodriguez - OTTO, Thomas - KRUSE, Andrea. Influence of the biomass components on the pore formation of activated carbon. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2017, vol. 97, no., pp. 53-64., Registrované v: WOS

40. [1.1] DA COSTA URTIGA, Silvana Cartaxo - AZEVEDO DE LUCENA GABI, Camilla Aquino - DE ARAUJO ELEAMEN, Giovanna Rodrigues - SOUZA, Bartolomeu Santos - FREIRE PESSOA, Hilzeth de Luna - MARCELINO, Henrique Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Preparation and characterization of safe microparticles based on xylan. In DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY. ISSN 0363-9045, 2017, vol. 43, no. 10, pp. 1601-1609., Registrované v: WOS

41. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS

42. [1.1] DAI, Qing-Qing - REN, Jun-Li - PENG, Feng - CHEN, Xiao-Feng - GAO, Cun-Dian - SUN, Run-Cang. Synthesis of Acylated Xylan-Based Magnetic Fe₃O₄ Hydrogels and Their Application for H₂O₂ Detection. In MATERIALS. ISSN 1996-1944, 2016, vol. 9, no. 8, pp., Registrované v: WOS

43. [1.1] DE MENEZES, Cristiano Ragagnin - BARRETO, Andressa Ribas. Biodegradation of lignocellulosic wastes by basidiomycetes fungi:

- Characterization of waste and study of fungal enzyme complex. In *REVISTA ELETRONICA EM GESTAO EDUCACAO E TECNOLOGIA AMBIENTAL*. ISSN 2236-1170, 2015, vol. 19, no. 2, pp. 1365-1391., Registrované v: WOS
44. [1.1] DERBA-MACELUCH, Marta - AWANO, Tatsuya - TAKAHASHI, Junko - LUCENIUS, Jessica - RATKE, Christine - KONTO, Inkeri - BUSSE-WICHER, Marta - KOSIK, Ondrej - TANAKA, Ryo - WINZELL, Anders - KALLAS, Asa - LESNIEWSKA, Joanna - BERTHOLD, Fredrik - IMMERZEEL, Peter - TEERI, Tuula T. - EZCURRA, Ines - DUPREE, Paul - SERIMAA, Ritva - MELLEROWICZ, Ewa J. Suppression of xylan endotransglycosylase PtxtXyn10A affects cellulose microfibril angle in secondary wall in aspen wood. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2015, vol. 205, no. 2, pp. 666-681., Registrované v: WOS
45. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
46. [1.1] DEY, Prottyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
47. [1.1] DING, Sai-sai - ZHU, Jin-peng - WANG, Yang - WU, Bin - ZHAO, Zongpei. Immobilization of the extracellular recombinant Lucky9 xylanase from *Bacillus subtilis* enhances activity at high temperature and pH. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 12, pp. 2733-2739. Dostupné na: <https://doi.org/10.1002/2211-5463.13010>., Registrované v: WOS
48. [1.1] DROZD, N. N. - KUZNETSOVA, S. A. - LEVDANSKY, V. A. - MIKHAILENKO, M. A. Effect of Xylan Sulfates on Coagulation of Human Blood Plasma. In *BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE*. ISSN 0007-4888, 2017, vol. 164, no. 2, pp. 158-161., Registrované v: WOS
49. [1.1] DUAN, Jiufang - KARAASLAN, Muzaffer A. - CHO, MiJung - LIU, Li-Yang - JOHNSON, Amanda M. - RENNECKAR, Scott. Investigation into electrospinning water-soluble xylan: developing applications from highly absorbent and hydrophilic surfaces to carbonized fiber. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 413-427., Registrované v: WOS
50. [1.1] DUPOIRON, Stephanie - LAMELOISE, Marie-Laure - BEDU, Magali - LEWANDOWSKI, Richard - FARGUES, Claire - ALLAIS, Florent - TEIXEIRA, Andreia R. S. - RAKOTOARIVONINA, Harivony - REMOND, Caroline. Recovering ferulic acid from wheat bran enzymatic hydrolysate by a novel and non-thermal process associating weak anion-exchange and electrodialysis. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2018, vol. 200, no., pp. 75-83., Registrované v: WOS
51. [1.1] DUSSAN, Karla - DOOLEY, Stephen - MONAGHAN, Rory. Integrating compositional features in model compounds for a kinetic mechanism of hemicellulose pyrolysis. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2017, vol. 328, no., pp. 943-961., Registrované v: WOS
52. [1.1] EBERT, Berit - RAUTENGARTEN, Carsten - GUO, Xiaoyuan - XIONG, Guangyan - STONEBLOOM, Solomon - SMITH-MORITZ, Andreia

- M. - HERTER, Thomas - CHAN, Leanne Jade G. - ADAMS, Paul D. - PETZOLD, Christopher J. - PAULY, Markus - WILLATS, William G. T. - HEAZLEWOOD, Joshua L. - SCHELLER, Henrik Vibe. Identification and Characterization of a Golgi-Localized UDP-Xylose Transporter Family from Arabidopsis. In *PLANT CELL*. ISSN 1040-4651, 2015, vol. 27, no. 4, pp. 1218-1227., Registrované v: WOS
53. [1.1] ERTL, P. - KNAUS, W. - METZLER-ZEBELI, B. U. - KLEVENHUSEN, F. - KHIAOSA-ARD, R. - ZEBELI, Q. Substitution of common concentrates with by-products modulated ruminal fermentation, nutrient degradation, and microbial community composition in vitro. In *JOURNAL OF DAIRY SCIENCE*. ISSN 0022-0302, 2015, vol. 98, no. 7, pp. 4762-4771., Registrované v: WOS
54. [1.1] FALCOZ-VIGNE, Lea - OGAWA, Yu - MOLINA-BOISSEAU, Sonia - NISHIYAMA, Yoshiharu - MEYER, Valerie - PETIT-CONIL, Michel - MAZEAU, Karim - HEUX, Laurent. Quantification of a tightly adsorbed monolayer of xylan on cellulose surface. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 9, pp. 3725-3739., Registrované v: WOS
55. [1.1] FARHAT, Wissam - VENDITTI, Richard - AYOUB, Ali - PROCHAZKA, Frederic - FERNANDEZ-DE-ALBA, Carlos - MIGNARD, Nathalie - TAHA, Mohamed - BECQUART, Frederic. Towards thermoplastic hemicellulose: Chemistry and characteristics of poly-(epsilon-caprolactone) grafting onto hemicellulose backbones. In *MATERIALS & DESIGN*. ISSN 0264-1275, 2018, vol. 153, no., pp. 298-307., Registrované v: WOS
56. [1.1] FARHAT, Wissam - VENDITTI, Richard - BECQUART, Frederic - AYOUB, Ali - MAJESTE, Jean-Charles - TAHA, Mohamed - MIGNARD, Nathalie. Synthesis and Characterization of Thermoresponsive Xylan Networks by Diels-Alder Reaction. In *ACS APPLIED POLYMER MATERIALS*, 2019, vol. 1, no. 4, pp. 856-866., Registrované v: WOS
57. [1.1] FORTUNATO, Moustapha - GIMBERT, Yves - ROUSSET, Elodie - LAMEIRAS, Pedro - MARTINEZ, Agathe - GATARD, Sylvain - PLANTIER-ROYON, Richard - JAROSCHIK, Florian. Diastereoselective Synthesis of Axially Chiral Xylose-Derived 1,3-Disubstituted Alkoxyallenes: Scope, Structure, and Mechanism. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2020, vol. 85, no. 16, pp. 10681-10694. Dostupné na: <https://doi.org/10.1021/acs.joc.0c01240>., Registrované v: WOS
58. [1.1] FU, Gen-Que - ZHANG, Sheng-Chun - CHEN, Ge-Gu - HAO, Xiang - BIAN, Jing - PENG, Feng. Xylan-based hydrogels for potential skin care application. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 158, no., pp. 244-250. Dostupné na: <https://doi.org/10.1016/j.jbiomac.2020.04.235>., Registrované v: WOS
59. [1.1] FU, Li-Hao - JIANG, Nan - LI, Cheng-Xi - LUO, Xue-Mei - ZHAO, Shuai - FENG, Jia-Xun. Purification and characterization of an endo-xylanase from *Trichoderma* sp., with xylobiose as the main product from xylan hydrolysis. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
60. [1.1] GAO, Boliang - JIN, Min - LI, Li - QU, Wu - ZENG, Runying. Genome Sequencing Reveals the Complex Polysaccharide-Degrading Ability of Novel Deep-Sea Bacterium *Flammeovirga Pacifica* WPAGA1. In *FRONTIERS*

IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

61. [1.1] GAO, Cundian - REN, Junli - KONG, Weiqing - SUN, Runcang - CHEN, Qifeng. Comparative study on temperature/pH sensitive xylan-based hydrogels: their properties and drug controlled release. In RSC Advances. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 90671-90681., Registrované v: WOS

62. [1.1] GAO, Xiaobin - MEI, Song - YONG, Xueyong - ZHAO, Danyu - BAO, Jinpeng - DENG, Jianping. Heat-resistant Poly(methyl methacrylate) Modified by Biomass Syringaldehyde Derivative: Preparation, Thermostability and Transparency. In FIBERS AND POLYMERS. ISSN 1229-9197, 2019, vol. 20, no. 11, pp. 2254-2260., Registrované v: WOS

63. [1.1] GATARD, S. - PLANTIER-ROYON, R. - REMOND, C. - MUZARD, M. - KOWANDY, C. - BOUQUILLON, S. Preparation of new beta-D-xyloside- and beta-D-xylobioside-based ionic liquids through chemical and/or enzymatic reactions. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 451, no., pp. 72-80., Registrované v: WOS

64. [1.1] GENG, Wenhui - NARRON, Robert - JIANG, Xiao - PAWLAK, Joel J. - CHANG, Hou-min - PARK, Sunkyu - JAMEEL, Hasan - VENDITTI, Richard A. The influence of lignin content and structure on hemicellulose alkaline extraction for non-wood and hardwood lignocellulosic biomass. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3219-3230., Registrované v: WOS

65. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS

66. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (*Populus grandidentata*) and its potential in water-soluble oxygen barrier films. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na: <https://doi.org/10.1007/s10570-020-02993-2>., Registrované v: WOS

67. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS

68. [1.1] GLAZOWSKA, Sylwia - BALDWIN, Laetitia - MRAVEC, Jozef - BUKH, Christian - HANSEN, Thomas Hesselhoj - JENSEN, Mads Mork - FANGEL, Jonatan U. - WILLATS, William G. T. - GLASIUS, Marianne - FELBY, Claus - SCHJOERRING, Jan Kofod. The impact of silicon on cell wall composition and enzymatic saccharification of *Brachypodium distachyon*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

69. [1.1] GOMES, Katiana R. - CHIMPHANGO, Annie F. A. - GOERGENSE, Johann F. Modifying solubility of polymeric xylan extracted from *Eucalyptus grandis* and sugarcane bagasse by suitable side chain removing enzymes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131,

no., pp. 177-185., Registrované v: WOS

70. [1.1] GOWDHAMAN, D. - PONNUSAMI, V. Production and optimization of xylooligosaccharides from corncob by *Bacillus aerophilus* KGJ2 xylanase and its antioxidant potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 79, no., pp. 595-600., Registrované v: WOS

71. [1.1] GRANTHAM, Nicholas J. - WURMAN-RODRICH, Joel - TERRETT, Oliver M. - LYCZAKOWSKI, Jan J. - STOTT, Katherine - IUGA, Dinu - SIMMONS, Thomas J. - DURAND-TARDIF, Mylene - BROWN, Steven. P. - DUPREE, Ray - BUSSE-WICHER, Marta - DUPREE, Paul. An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. In NATURE PLANTS. ISSN 2055-026X, 2017, vol. 3, no. 11, pp. 859-865., Registrované v: WOS

72. [1.1] GRIECO, Maria B. - LOPES, Fabyano A. C. - OLIVEIRA, Louisi S. - TSCHOEKE, Diogo A. - POPOV, Claudia C. - THOMPSON, Cristiane C. - GONCALVES, Luna C. - CONSTANTINO, Reginaldo - MARTINS, Orlando B. - KRUGER, Ricardo H. - DE SOUZA, Wanderley - THOMPSON, Fabiano L. Metagenomic Analysis of the Whole Gut Microbiota in Brazilian Termitidae Termites *Cornitermes cumulans*, *Cyrtotermes strictinasus*, *Syntermes dirus*, *Nasutitermes jaraguæ*, *Nasutitermes aquilinus*, *Grigiotermes bequaerti*, and *Orthognathotermes mirim*. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2019, vol. 76, no. 6, pp. 687-697., Registrované v: WOS

73. [1.1] GUERRINI, Marco - RUDD, Timothy R. - YATES, Edwin A. NMR in the Characterization of Complex Mixture Drugs. In SCIENCE AND REGULATIONS OF NATURALLY DERIVED COMPLEX DRUGS. ISSN 2210-7371, 2019, vol. 32, no., pp. 115-137., Registrované v: WOS

74. [1.1] GUPTA, Praveen Kumar - CHOUDHARY, Shreya - CHANDRANANTHI, C. - EVELINE, J. Sharon - SUSHMITHA, S. P. - HIREMATH, Lingayya - SRIVASTAVA, Ajeet Kumar - KUMAR, S. Narendra. Fungal Biodiversity Producing Xylanase Enzymes Involved in Efficient Uses of Xylanolysis. In MYCODEGRADATION OF LIGNOCELLULOSES. ISSN 2198-7777, 2019, vol., no., pp. 51-63., Registrované v: WOS

75. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian *Argania spinosa*. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

76. [1.1] HAN, Wentao - FAN, Xiao - TENG, Linhong - KACZUROWSKI, Michelle Joyce Slade - ZHANG, Xiaowen - XU, Dong - YIN, Yanbin - YE, Naihao. Identification, classification, and evolution of putative xylosyltransferases from algae. In PROTOPLASMA. ISSN 0033-183X, 2019, vol. 256, no. 4, pp. 1119-1132., Registrované v: WOS

77. [1.1] HARDELIN, Linda - STROM, Anna - DI MAIO, Ernesto - IANNACE, Salvatore - LARSSON, Anette. Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO₂. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 442-449., Registrované v: WOS

78. [1.1] HARISH, B. S. - UPPULURI, Kiran Babu - ANBAZHAGAN, Veerappan. Synthesis of fibrinolytic active silver nanoparticle using wheat bran xylan as a reducing and stabilizing agent. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 104-110., Registrované v: WOS

79. [1.1] HASSAN, Lara - LIN, Liangcai - SOREK, Hagit - SPERL, Laura E. - GOUDOULAS, Thomas - HAGN, Franz - GERMANN, Natalie - TIAN, Chaoguang - BENZ, J. Philipp. Crosstalk of Cellulose and Mannan Perception Pathways Leads to Inhibition of Cellulase Production in Several Filamentous Fungi. In MBIO. ISSN 2150-7511, 2019, vol. 10, no. 4, pp., Registrované v: WOS
80. [1.1] HATFIELD, Ronald D. - RANCOUR, David M. - MARITA, Jane M. Grass Cell Walls: A Story of Cross-Linking. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 7, no., pp., Registrované v: WOS
81. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan Ethers. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS
82. [1.1] HRICOVINIOVA, Zuzana. Surfactants of biological origin: The role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 144, no., pp. 297-304., Registrované v: WOS
83. [1.1] HSIEH, Yves S. Y. - HARRIS, Philip J. Xylans of Red and Green Algae: What Is Known about Their Structures and How They Are Synthesised? In POLYMERS, 2019, vol. 11, no. 2, pp., Registrované v: WOS
84. [1.1] HUTTERER, Christian - SCHILD, Gabriele - KLIBA, Gerhard - POTTHAST, Antje. Lignin profiling in extracted xylans by size-exclusion chromatography. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 821-826., Registrované v: WOS
85. [1.1] HU, Bin - ZHANG, Bing - XIE, Wen-luan - JIANG, Xiao-yan - LIU, Ji - LU, Qiang. Recent Progress in Quantum Chemistry Modeling on the Pyrolysis Mechanisms of Lignocellulosic Biomass. In ENERGY & FUELS. ISSN 0887-0624, 2020, vol. 34, no. 9, pp. 10384-10440. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.0c01948>., Registrované v: WOS
86. [1.1] HU, Haibin - MAI, Kangsen - ZHANG, Yanjiao - AI, Qinghui - XU, Wei - ZHANG, Wenbing - LI, Yanxian - LIU, Jintao. Effects of dietary xylan on growth performance, digestive enzyme activity and intestinal morphology of juvenile turbot (*Scophthalmus maximus* L.). In ISRAELI JOURNAL OF AQUACULTURE-BAMIDGEH. ISSN 0792-156X, 2015, vol. 67, no., pp., Registrované v: WOS
87. [1.1] HU, Ruibo - LI, Junling - YANG, Xuanwen - ZHAO, Xun - WANG, Xiaoyu - TANG, Qi - HE, Guo - ZHOU, Gongke - KONG, Yingzhen. Irregular xylem 7 (IRX7) is required for anchoring seed coat mucilage in Arabidopsis. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2016, vol. 92, no. 1-2, pp. 25-38., Registrované v: WOS
88. [1.1] HU, Ruibo - LI, Junling - WANG, Xiaoyu - ZHAO, Xun - YANG, Xuanwen - TANG, Qi - HE, Guo - ZHOU, Gongke - KONG, Yingzhen. Xylan synthesized by Irregular Xylem 14 (IRX14) maintains the structure of seed coat mucilage in Arabidopsis. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2016, vol. 67, no. 5, pp. 1243-1257., Registrované v: WOS
89. [1.1] HYVAKKO, Uula - MALTARI, Riku - KAKKO, Tia - KONTRO, Jussi - MIKKILA, Joona - KILPELAINEN, Petri - ENQVIST, Eric - TIKKA, Panu - HILDEN, Kristiina - NOUSIAINEN, Paula - SIPILA, Jussi. On the Effect of Hot-Water Pretreatment in Sulfur-Free Pulping of Aspen and Wheat Straw. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 1, pp. 265-273.

- Dostupné na: <https://doi.org/10.1021/acsomega.9b02619>., Registrované v: WOS
90. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Periodate oxidation of 4-O-methylglucuronoxylans: Influence of the reaction conditions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 45-50., Registrované v: WOS
91. [1.1] CHEMIN, Maud - WIROTIUS, Anne-Laure - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Well-defined oligosaccharides by mild acidic hydrolysis of hemicelluloses. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 66, no., pp. 190-197., Registrované v: WOS
92. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS
93. [1.1] CHENG, H. N. - FURTADO, Roselayne Ferro - ALVES, Carlucio Roberto - ROCHA BASTOS, Maria do Socorro - KIM, Sanghoon - BISWAS, Atanu. Novel polyurethanes from xylan and TDI: Preparation and characterization. In INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION. ISSN 1023-666X, 2017, vol. 22, no. 1, pp. 35-42., Registrované v: WOS
94. [1.1] CHEN, Hongyu - ZHANG, Shihai - KIM, Sung Woo. Effects of supplemental xylanase on health of the small intestine in nursery pigs fed diets with corn distillers' dried grains with solubles. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2020, vol. 98, no. 6, pp. Dostupné na: <https://doi.org/10.1093/jas/skaa185>., Registrované v: WOS
95. [1.1] CHEN, Xiao-feng - REN, Jun-li - MENG, Ling. Influence of Ammonium Zirconium Carbonate on Properties of Poly(vinyl alcohol)/Xylan Composite Films. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2015, vol., no., pp., Registrované v: WOS
96. [1.1] CHIMPHANGO, Annie Fabian Abel. Sorption Behaviour of Enzymatically and Chemically Formed Beechwood (*Fagus sylvatica*) Xylan Hydrogels onto Cellulosic Materials Under Different Sorption Conditions. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2019, vol. 27, no. 3, pp. 561-570., Registrované v: WOS
97. [1.1] CHIMPHANGO, Annie F. A. - GOERGENSEN, J. F. - VAN ZYL, W. H. In situ enzyme aided adsorption of soluble xylan biopolymers onto cellulosic material. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 143, no., pp. 172-178., Registrované v: WOS
98. [1.1] CHOENGPANYA, Khuanjarat - ARTHOMTHURASUK, Siriphan - WATTANA-AMORN, Pakorn - HUANG, Wan-Ting - PLENGMUANKHAE, Wandee - LI, Yaw-Kuen - KONGSAEREE, Prachumporn T. Cloning, expression and characterization of beta-xylosidase from *Aspergillus niger* ASKU28. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2015, vol. 115, no., pp. 132-140., Registrované v: WOS
99. [1.1] CHOI, Yong-Seok - LEE, Jae-Kang - LEE, Mi-Gi - LEE, SeungGwan - JEONG, Hee-Young - KANG, Hee. Splenic T cell and intestinal

IgA responses after supplementation of soluble arabinoxylan-enriched wheat bran in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 28, no., pp. 246-253., Registrované v: WOS

100. [1.1] CHONG, Sun-Li - DERBA-MACELUCH, Marta - KOUTANIEMI, Sanna - GOMEZ, Leonardo D. - MCQUEEN-MASON, Simon J. - TENKANEN, Maija - MELLEROWICZ, Ewa J. Active fungal GH115 alpha-glucuronidase produced in Arabidopsis thaliana affects only the UX1-reactive glucuronate decorations on native glucuronoxylans. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2015, vol. 15, no., pp., Registrované v: WOS

101. [1.1] JAHAN, M. Sarwar - AKTER, Tawhida - NAYEEM, Jannatun - SAMADDAR, Purabi Rani - MONIRUZZAMAN, Mohammad. POTASSIUM HYDROXIDE PULPING OF SACCHARUM SPONTANEUM (KASH). In J-FOR-JOURNAL OF SCIENCE & TECHNOLOGY FOR FOREST PRODUCTS AND PROCESSES. ISSN 1927-6311, 2016, vol. 6, no. 1, pp. 46-53., Registrované v: WOS

102. [1.1] JIN, Xuchen - HU, Zhenhua - WU, Shufang - SONG, Tao - YUE, Fengxia - XIANG, Zhouyan. Promoting the material properties of xylan-type hemicelluloses from the extraction step. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 235-245., Registrované v: WOS

103. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDYANI, Harsha - GUPTA, Prerna. Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS

104. [1.1] KALININA, A. N. - BORSHEHEVSKAYA, L. N. - GORDEEVA, T. L. - SINEOKY, S. P. Comparison of Xylanases of Various Origin Obtained in the Expression System of Pichia pastoris: Gene Expression, Biochemical Characteristics, and Biotechnological Potential. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2019, vol. 55, no. 7, pp. 733-740., Registrované v: WOS

105. [1.1] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of the Xylanase Gene from Paenibacillus brasilensis X1 in Pichia pastoris and Characteristics of the Recombinant Enzyme. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2019, vol. 55, no. 8, pp. 797-804., Registrované v: WOS

106. [1.1] KANENGONI, A. T. - CHIMONYO, M. - NDIMBA, B. K. - DZAMA, K. Potential of Using Maize Cobs in Pig Diets A Review. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, 2015, vol. 28, no. 12, pp. 1669-1679., Registrované v: WOS

107. [1.1] KANENGONI, A. T. - CHIMONYO, M. - NDIMBA, B. K. - DZAMA, K. Feed preference, nutrient digestibility and colon volatile fatty acid production in growing South African Windsnyer-type indigenous pigs and Large White X Landrace crosses fed diets containing ensiled maize cobs. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2015, vol. 171, no., pp. 28-35., Registrované v: WOS

108. [1.1] KANENGONI, A. T. - NKOSI, B. D. - CHIMONYO, M. - NDIMBA, B. - DZAMA, K. Effects of whey, molasses and exogenous enzymes on the ensiling characteristics, nutrient composition and aerobic stability of maize

- cobs. In SOUTH AFRICAN JOURNAL OF ANIMAL SCIENCE. ISSN 0375-1589, 2016, vol. 46, no. 2, pp. 113-120., Registrované v: WOS
109. [1.1] KISHANI, Saina - ESCALANTE, Alfredo - TORIZ, Guillermo - VILAPLANA, Francisco - GATENHOLM, Paul - HANSSON, Per - WAGBERG, Lars. Experimental and Theoretical Evaluation of the Solubility/Insolubility of Spruce Xylan (Arabino Glucuronoxylan). In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 3, pp. 1263-1270., Registrované v: WOS
110. [1.1] KOEGELENBERG, Danika - CHIMPHANGO, Annie F. A. Effects of wheat-bran arabinoxylan as partial flour replacer on bread properties. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1606-1613., Registrované v: WOS
111. [1.1] KONG, Weiqing - DAI, Qingqing - REN, Junli - MA, Nianfang. Homogeneous acylation of xylan with 3,5-dinitrobenzoyl in ionic liquid and the adsorption property. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 128, no., pp. 105-111., Registrované v: WOS
112. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
113. [1.1] KUGE, Takayuki - WATANABE, Akira - HASEGAWA, Satoshi - TERAMOTO, Haruhiko - INUI, Masayuki. Functional analysis of arabinofuranosidases and a xylanase of *Corynebacterium alkanolyticum* for arabinoxylan utilization in *Corynebacterium glutamicum*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 5019-5032., Registrované v: WOS
114. [1.1] KUNDU, Debashis - BANERJEE, Tamal. Carboxymethyl Cellulose-Xylan Hydrogel: Synthesis, Characterization, and in Vitro Release of Vitamin B-12. In ACS OMEGA. ISSN 2470-1343, 2019, vol. 4, no. 3, pp. 4793-4803., Registrované v: WOS
115. [1.1] LAINE, Christiane - ASIKAINEN, Sari - TALJA, Riku - STEPAN, Agnes - SIXTA, Herbert - HARLIN, Ali. Simultaneous bench scale production of dissolving grade pulp and valuable hemicelluloses from softwood kraft pulp by ionic liquid extraction. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 402-408., Registrované v: WOS
116. [1.1] LEVDANSKY, V. A. - KONDRASENKO, A. A. - LEVDANSKY, A. V. - KUZNETSOV, B. N. Sulfation of Xylan with Sulfamic Acid in N,N-Dimethylformamide. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2019, vol. 45, no. 7, pp. 882-887., Registrované v: WOS
117. [1.1] LISOV, Alexander V. - BELOVA, Oksana V. - LISOVA, Zoya A. - VINOKUROVA, Nataliy G. - NAGEL, Alexey S. - ANDREEVA-KOVALEVSKAYA, Zhanna I. - BUDARINA, Zhanna I. - NAGORNYKH, Maxim O. - ZAKHAROVA, Marina V. - SHADRIN, Andrey M. - SOLONIN, Alexander S. - LEONTIEVSKY, Alexey A. Xylanases of *Cellulomonas flavigena*: expression, biochemical characterization, and biotechnological potential. In AMB EXPRESS. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
118. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng -

- SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS
119. [1.1] LI, Helong - LI, Zhi - PENG, Pai - SHE, Diao - XU, Qiang - ZHANG, Xueming. Characteristics of hemicelluloses obtained from sweet sorghum based on successive extractions. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 46, pp., Registrované v: WOS
120. [1.1] LI, Liang - PERRE, Patrick - FRANK, Xavier - MAZEAU, Karim. A coarse-grain force-field for xylan and its interaction with cellulose. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 438-450., Registrované v: WOS
121. [1.1] LORENZ, Dominic - ERASMY, Nicole - AKIL, Youssef - SAAKE, Bodo. A new method for the quantification of monosaccharides, uronic acids and oligosaccharides in partially hydrolyzed xylans by HPAEC-UV/VIS. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 181-187., Registrované v: WOS
122. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v: WOS
123. [1.1] MACHMUDAH, Siti - WAHYUDIONO - KANDA, Hideki - GOTO, Motonobu. Hydrolysis of Biopolymers in Near-Critical and Subcritical Water. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 69-107., Registrované v: WOS
124. [1.1] MAMO, Gashaw. Alkaline Active Hemicellulases. In ALKALIPHILES IN BIOTECHNOLOGY. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101., Registrované v: WOS
125. [1.1] MAO, Jia - ABUSHAMMALA, Hatem - HETTEGGER, Hubert - ROSENAU, Thomas - LABORIE, Marie-Pierre. Imidazole, a New Tunable Reagent for Producing Nanocellulose, Part I: Xylan-Coated CNCs and CNFs. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 10, pp., Registrované v: WOS
126. [1.1] MARCELINO, Henrique Rodrigues - DA SILVA, Acarilia Eduardo - SALGADO GOMES, Monique Christine - OLIVEIRA, Elquio Eleamen - NAGASHIMA-JUNIOR, Toshiyuki - PINHEIRO, Gardenia Sousa - DA SILVA, Acarizia Eduardo - DE SOUZA TIMOTEO, Ana Rafaela - AGNEZ-LIMA, Lucymara Fassarela - AYALA, Alejandro Pedro - OLIVEIRA, Anselmo Gomes - TABOSA DO EGITO, Eryvaldo Socrates. Leads from Physical, Chemical, and Thermal Characterization on Cytotoxic Effects of Xylan-Based Microparticles. In POLYMERS. ISSN 2073-4360, 2015, vol. 7, no. 11, pp. 2304-2315., Registrované v: WOS
127. [1.1] MARQUES, Ana Isabel - SERRANO, Maria de Lurdes - BRITES ALVES, Ana Maria - MENDES DE SOUSA, Antonio P. Isolation of

xylans from bleached Eucalyptus kraft pulp by antisolvents precipitation. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 3, pp. 1977-1992.,

Registrované v: WOS

128. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - ANCA-COUCÉ, Andres - PEREZ, Denilson da Silva - BOISSONNET, Guillaume - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 2: Torrefaction model. In ENERGY. ISSN 0360-5442, 2020, vol. 210, no., pp. Dostupné na:

<https://doi.org/10.1016/j.energy.2020.118451>., Registrované v: WOS

129. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na:

<https://doi.org/10.1016/j.enzmictec.2020.109647>., Registrované v: WOS

130. [1.1] MATEUS, Maria Margarida - MATOS, Sandro - GUERREIRO, Dinis - DEBIAGI, Paulo - GASPAR, Daniela - FERREIRA, Olga - BORDADO, Joao Carlos - DOS SANTOS, Rui Galhano. Liquefaction of almond husk for assessment as feedstock to obtain valuable bio-oils. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2019, vol. 91, no. 7, pp. 1177-1190.,

Registrované v: WOS

131. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-oligosaccharides and arabinoxyloligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 260, no., pp. 53-61.,

Registrované v: WOS

132. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS

133. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. Synthesis and characterization of biofunctional quaternized xylan-Fe₂O₃ core/shell nanocomposites and modification with polylysine and folic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS

134. [1.1] MCKEE, Lauren S. - SUNNER, Hampus - ANASONTZIS, George E. - TORIZ, Guillermo - GATENHOLM, Paul - BULONE, Vincent - VILAPLANA, Francisco - OLSSON, Lisbeth. A GH115 alpha-glucuronidase from Schizophyllum commune contributes to the synergistic enzymatic deconstruction of softwood glucuronoarabinoxylan. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

135. [1.1] MEHTA, Siddhi - JHA, Swarn - LIANG, Hong. Lignocellulose materials for supercapacitor and battery electrodes: A review. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2020.110345>., Registrované v: WOS

136. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS
137. [1.1] MELINE, Thomas - MUZARD, Murielle - DELEU, Magali - RAKOTOARIVONINA, Harivony - PLANTIER-ROYON, Richard - REMOND, Caroline. D-Xylose and L-arabinose laurate esters: Enzymatic synthesis, characterization and physico-chemical properties. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 112, no., pp. 14-21., Registrované v: WOS
138. [1.1] MENG, Yan - LYU, Fengzhi - XU, Xiaojuan - ZHANG, Lina. Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2020, vol. 21, no. 5, pp. 1653-1677. Dostupné na: <https://doi.org/10.1021/acs.biomac.9b01644.>, Registrované v: WOS
139. [1.1] MIAO, Youzhi - KONG, Yanqiong - LI, Pan - LI, Guangqi - LIU, Dongyang - SHEN, Qirong - ZHANG, Ruifu. Effect of CBM1 and linker region on enzymatic properties of a novel thermostable dimeric GH10 xylanase (Xyn10A) from filamentous fungus *Aspergillus fumigatus* Z5. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
140. [1.1] MIAO, Youzhi - LI, Juan - XIAO, Zhizhuang - SHEN, Qirong - ZHANG, Ruifu. Characterization and identification of the xylanolytic enzymes from *Aspergillus fumigatus* Z5. In *BMC MICROBIOLOGY*. ISSN 1471-2180, 2015, vol. 15, no., pp., Registrované v: WOS
141. [1.1] MIAO, Youzhi - LI, Pan - LI, Guangqi - LIU, Dongyang - DRUZHININA, Irina S. - KUBICEK, Christian P. - SHEN, Qirong - ZHANG, Ruifu. Two degradation strategies for overcoming the recalcitrance of natural lignocellulosic xylan by polysaccharides-binding GH10 and GH11 xylanases of filamentous fungi. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1054-1064., Registrované v: WOS
142. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOL, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c.>, Registrované v: WOS
143. [1.1] MOHAMMADINEJAD, Reza - MALEKI, Hajar - LARRANETA, Eneko - FAJARDO, Andre R. - NIK, Amirala Bakhshian - SHAVANDI, Amin - SHEIKHI, Amir - GHORBANPOUR, Mansour - FAROKHI, Mehdi - GOVINDH, Praveen - CABANE, Etienne - AZIZI, Susan - AREF, Amir Reza - MOZAFARI, Masoud - MEHRALI, Mehdi - THOMAS, Sabu - MANO, Joao F. - MISHRA, Yogendra Kumar - THAKUR, Vijay Kumar. Status and future scope of plant-based green hydrogels in biomedical engineering. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2019, vol.

- 16, no., pp. 213-246., Registrované v: WOS
144. [1.1] MOHANRAJ, Remya. Plant-derived resorbable polymers in tissue engineering. In MATERIALS FOR BIOMEDICAL ENGINEERING: ABSORBABLE POLYMERS, 2019, vol., no., pp. 19-40., Registrované v: WOS
145. [1.1] MOHAPATRA, Sonali - MISHRA, Suruchee Samparana - BHALLA, Prerna - THATOI, Hrudayanath. Engineering grass biomass for sustainable and enhanced bioethanol production. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 2, pp. 395-412., Registrované v: WOS
146. [1.1] MONCLARO, Antonielle Vieira - RECALDE, Guilherme Lima - DA SILVA, Francides Gomes - DE FREITAS, Sonia Maria - FERREIRA FILHO, Edivaldo Ximenes. Xylanase from *Aspergillus tamarii* shows different kinetic parameters and substrate specificity in the presence of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 120, no., pp. 16-22., Registrované v: WOS
147. [1.1] MORAIS, Ana Rita C. - MATUCHAKI, Maria Daniela D. J. - ANDREAUS, Juergen - BOGEL-LUKASIK, Rafal. A green and efficient approach to selective conversion of xylose and biomass hemicellulose into furfural in aqueous media using high-pressure CO₂ as a sustainable catalyst. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 10, pp. 2985-2994., Registrované v: WOS
148. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS
149. [1.1] MOREIRA, L. R. S. - FILHO, E. X. F. Insights into the mechanism of enzymatic hydrolysis of xylan. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 12, pp. 5205-5214., Registrované v: WOS
150. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHA, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS
151. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
152. [1.1] NESIC, Aleksandra - CABRERA-BARJAS, Gustavo - DIMITRIJEVIC-BRANKOVIC, Suzana - DAVIDOVIC, Sladjana - RADOVANOVIC, Neda - DELATTRE, Cedric. Prospect of Polysaccharide-Based Materials as Advanced Food Packaging. In MOLECULES, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010135>., Registrované v: WOS
153. [1.1] NGUYEN HOANG CHUNG - PHAN HUY HOANG. PREPARATION OF OAT SPELT XYLAN AND ITS APPLICATION AS ADDITIVE FOR ENHANCEMENT OF PAPER PROPERTIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2019, vol. 53, no. 5-6, pp. 499-507., Registrované v: WOS
154. [1.1] NOBUKAWA, Shogo - ENOMOTO-ROGERS, Yukiko -

- SHIMADA, Hikaru - IWATA, Tadahisa - YAMAGUCHI, Masayuki. Effect of acetylation site on orientation birefringence of cellulose triacetate. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 5, pp. 3003-3012., Registrované v: WOS
155. [1.1] NOEMI GERSCHENSON, Lia - MARIA ROJAS, Ana - NOEMI FISSORE, Eliana. CARBOHYDRATES. In NUTRACEUTICAL AND FUNCTIONAL FOOD COMPONENTS: EFFECTS OF INNOVATIVE PROCESSING TECHNIQUES, 2017, vol., no., pp. 39-101., Registrované v: WOS
156. [1.1] NORSTROM, Emelie - FOGELSTROM, Linda - NORDQVIST, Petra - KHABBAZ, Farideh - MALMSTROM, Eva. Xylan A green binder for wood adhesives. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 67, no., pp. 483-493., Registrované v: WOS
157. [1.1] PAHIMANOLIS, Nikolaos - KILPELAINEN, Petri - MASTER, Emma - ILVESNIEMI, Hannu - SEPPALA, Jukka. Novel thiol- amine- and amino acid functional xylan derivatives synthesized by thiol-ene reaction. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 392-398., Registrované v: WOS
158. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. Characterization of xylan from rice bran and finger millet seed coat for functional food applications. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 75, no., pp. 296-305., Registrované v: WOS
159. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS
160. [1.1] PALEVICH, Nikola - KELLY, William J. - GANESH, Siva - RAKONJAC, A. Jasna - ATTWOOD, Graeme T. Butyrivibrio hungatei MB2003 Competes Effectively for Soluble Sugars Released by Butyrivibrio proteoclasticus B316(T) during Growth on Xylan or Pectin. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 3, pp., Registrované v: WOS
161. [1.1] PANTHAPULAKKAL, Suhara - KIRK, Donald - SAIN, Mohini. Alkaline Extraction of Xylan from Wood Using Microwave and Conventional Heating. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 4, pp., Registrované v: WOS
162. [1.1] PARK, Saerom - OH, Yujin - YUN, Jeongchel - YOO, Eunjin - JUNG, Dahun - PARK, Ki Soo - OH, Kyeong Keun - LEE, Sang Hyun. Characterization of blended cellulose/biopolymer films prepared using ionic liquid. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5101-5119. Dostupné na: <https://doi.org/10.1007/s10570-020-03152-3>., Registrované v: WOS
163. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe Paenibacillus sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
164. [1.1] PFRENGLE, Fabian. Synthetic plant glycans. In CURRENT

- OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2017, vol. 40, no., pp. 145-151., Registrované v: WOS
165. [1.1] PICK, Andre - BEER, Barbara - HEMMI, Risa - MOMMA, Rena - SCHMID, Jochen - MIYAMOTO, Kenji - SIEBER, Volker. Identification and characterization of two new 5-keto-4-deoxy-D-Glucarate Dehydratases/Decarboxylases. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2016, vol. 16, no., pp., Registrované v: WOS
166. [1.1] PONTIGGIA, Daniela - BENEDETTI, Manuel - COSTANTINI, Sara - DE LORENZO, Giulia - CERVONE, Felice. Dampening the DAMPs: How Plants Maintain the Homeostasis of Cell Wall Molecular Patterns and Avoid Hyper-Immunity. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.613259>., Registrované v: WOS
167. [1.1] PRASHANTH, M. R. Savitha - MURALIKRISHNA, G. Evaluation of Prebiotic Properties of Purified Arabinoxylans Isolated from Finger Millet (*Eleusine coracana*, v. Indaf 15) Bran. In TRENDS IN CARBOHYDRATE RESEARCH. ISSN 0975-0304, 2016, vol. 8, no. 1, pp. 50-58., Registrované v: WOS
168. [1.1] QIAN, Shi-Quan - ZHOU, Lan-Feng - SHI, Ya-Zhong - WU, Ya-Hua - XU, Hui - LU, Zhao-Xin. SODIUM HYDROXIDE-INDUCED PROCESS FOR EFFICIENT XYLAN EXTRACION FROM CORN STRAWS. In CURRENT TOPICS IN NUTRACEUTICAL RESEARCH. ISSN 1540-7535, 2016, vol. 14, no. 1, pp. 73-80., Registrované v: WOS
169. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS
170. [1.1] QI, Yunchuan - YANG, Meiling - XU, Wenhui - HE, Sha - MEN, Yi. Natural polysaccharides-modified graphene oxide for adsorption of organic dyes from aqueous solutions. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2017, vol. 486, no., pp. 84-96., Registrované v: WOS
171. [1.1] RAKOTOARIVONINA, Harivony - HERMANT, Beatrice - AUBRY, Nathalie - REMOND, Caroline. Engineering the hydrophobic residues of a GH11 xylanase impacts its adsorption onto lignin and its thermostability. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 81, no., pp. 47-55., Registrované v: WOS
172. [1.1] RAMOS, Ana - SOUSA, Sonia - EVTUGUIN, Dmitry V. - GARNELAS, Jose A. F. Functionalized xylans in the production of xylan-coated paper laminates. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 117, no., pp. 89-96., Registrované v: WOS
173. [1.1] RANQUE, Christopher L. - STROBLE, Carol - AMICUCCI, Matthew J. - TU, Diane - DIANA, Aly - RAHMANNIA, Sofa - SURYANTO, Aghnia Husnayiani - GIBSON, Rosalind S. - SHENG, Ying - TENA, Jennyfer - HOUGHTON, Lisa A. - LEBRILLA, Carlito B. Examination of Carbohydrate Products in Feces Reveals Potential Biomarkers Distinguishing Exclusive and Nonexclusive Breastfeeding Practices in Infants. In JOURNAL OF NUTRITION. ISSN 0022-3166, 2020, vol. 150, no. 5, pp. 1051-1057. Dostupné na: <https://doi.org/10.1093/jn/nxaa028>., Registrované v: WOS

174. [1.1] RATKE, Christine - TEREBIENIEC, Barbara K. - WINESTRAND, Sandra - DERBA-MACELUCH, Marta - GRAHN, Thomas - SCHIFFTHALER, Bastian - ULVCRONA, Thomas - OZPARPUCU, Merve - RUGGEBERG, Markus - LUNDQVIST, Sven-Olof - STREET, Nathaniel R. - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulating aspen xylan biosynthetic GT43 genes in developing wood stimulates growth via reprogramming of the transcriptome. In NEW PHYTOLOGIST. ISSN 0028-646X, 2018, vol. 219, no. 1, pp. 230-245., Registrované v: WOS
175. [1.1] REN, Junli - DAI, Qingqing - ZHONG, Haoquan - LIU, Xinxin - MENG, Ling - WANG, Xiaohui - XIN, Fengxue. Quaternized xylan/cellulose nanocrystal reinforced magnetic hydrogels with high strength. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4537-4549., Registrované v: WOS
176. [1.1] ROSSELGONG, Julien - CHEMIN, Maud - ALMADA, Cedric Cabral - HEMERY, Gauvin - GUIGNER, Jean-Michel - CHOLLET, Guillaume - LABAT, Gilles - PEREZ, Denilson Da Silva - HAM-PICHAVENT, Frederique - GRAU, Etienne - GRELIER, Stephane - LECOMMANDOUX, Sebastien - CRAMAIL, Henri. Synthesis and Self-Assembly of Xylan-Based Amphiphiles: From Bio-Based Vesicles to Antifungal Properties. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 1, pp. 118-129., Registrované v: WOS
177. [1.1] ROSSONI, Luca - CARR, Reuben - BAXTER, Scott - CORTIS, Roxann - THORPE, Thomas - EASTHAM, Graham - STEPHENS, Gill. Engineering Escherichia coli to grow constitutively on D-xylose using the carbon-efficient Weimberg pathway. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2018, vol. 164, no. 3, pp. 287-298., Registrované v: WOS
178. [1.1] RUIZ-HITZKY, Eduardo - DARDER, Margarita - ALCANTARA, Ana C. S. - WICKLEIN, Bernd - ARANDA, Pilar. Recent Advances on Fibrous Clay-Based Nanocomposites. In ORGANIC-INORGANIC HYBRID NANOMATERIALS. ISSN 0065-3195, 2015, vol. 267, no., pp. 39-86., Registrované v: WOS
179. [1.1] RUTHES, Andrea C. - RUDJITO, Reskandi C. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Joseprime C. - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco. Comparative Recalcitrance and Extractability of Cell Wall Polysaccharides from Cereal (Wheat, Rye, and Barley) Brans Using Subcritical Water. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 18, pp. 7192-7204. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01764>., Registrované v: WOS
180. [1.1] SAMANTA, A. K. - CHIKKERUR, J. - ROY, Sohini - KOLTE, A. P. - SRIDHAR, Manpal - DHALI, A. - GIRIDHAR, K. - SENANI, S. Xylooligosaccharides production from tobacco stalk xylan using edible acid. In CURRENT SCIENCE. ISSN 0011-3891, 2019, vol. 117, no. 9, pp. 1521-1525., Registrované v: WOS
181. [1.1] SAURAJ - KUMAR, S. Uday - GOPINATH, P. - NEGI, Yuvraj Singh. Synthesis and bio-evaluation of xylan-5-fluorouracil-1-acetic acid conjugates as prodrugs for colon cancer treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1442-1450., Registrované v: WOS
182. [1.1] SENF, Deborah - RUPRECHT, Colin - DE KRUIJFF, Goswinus H. M. - SIMONETTI, Sebastian O. - SCHUHMACHER, Frank -

- SEEBERGER, Peter H. - PFRENGLE, Fabian. Active Site Mapping of Xylan-Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 13, pp. 3197-3205., Registrované v: WOS 183. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS 184. [1.1] SENTHILKUMAR, P. - DAWN, S. S. - SAMANVITHA, K. Sree - KUMAR, S. Sanjay - KUMAR, G. Narendra - SAMROT, Antony V. Optimization and characterization of poly[R]hydroxyalkanoate of Pseudomonas aeruginosa SU-1 to utilize in nanoparticle synthesis for curcumin delivery. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 12, no., pp. 292-298., Registrované v: WOS 185. [1.1] SEPULCHRO, Ana Gabriela Veiga - PELLEGRINI, Vanessa O. A. - BRIGANTI, Lorenzo - DE ARAUJO, Evandro A. - DE ARAUJO, Simara S. - POLIKARPOV, Igor. Transformation of xylan into value-added biocommodities using Thermobacillus composti GH10 xylanase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 247, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116714>., Registrované v: WOS 186. [1.1] SCHMIDT, Deborah - SCHUHMACHER, Frank - GEISSNER, Andreas - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated Synthesis of Arabinoxylan-Oligosaccharides Enables Characterization of Antibodies that Recognize Plant Cell Wall Glycans. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 15, pp. 5709-5713., Registrované v: WOS 187. [1.1] SILVA, Amanda K. A. - JUNET, Maya - MEDDAHI-PELLE, Anne - LETOURNEUR, Didier. Polysaccharide-based strategies for heart tissue engineering. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 267-277., Registrované v: WOS 188. [1.1] SILVA, Felipe F. - BRITES ALVES, Ana Maria - SERRANO, Maria de Lurdes - MENDES DE SOUSA, Antonio P. Isolation and purification of concentrated and non-concentrated hemicellulose alkaline extracts. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 173, no., pp. 233-239., Registrované v: WOS 189. [1.1] SMITH, Peter J. - ORTIZ-SOTO, Maria Elena - ROTH, Christian - BARNES, William J. - SEIBEL, Juergen - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Enzymatic Synthesis of Artificial Polysaccharides. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 32, pp. 11853-11871. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c03622>., Registrované v: WOS 190. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS 191. [1.1] SOBRI, Nur Syahirah Ahmad - HARUN, Shuhaida - ISHAK,

- Nor Shahirah - JAHIM, Jamaliah Md - MOHAMMAD, Abdul Wahab. Enhancement of High Xylan Recovery from Black Liquor of Alkaline Pretreated Oil Palm Frond and its Physicochemical Properties. In *BIORESOURCES*. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 5400-5421., Registrované v: WOS
192. [1.1] SOLEIMANI, Majid - TABIL, Lope G. - NIU, Catherine. Delignification of intact biomass and cellulosic coproduct of acid-catalyzed hydrolysis. In *AICHE JOURNAL*. ISSN 0001-1541, 2015, vol. 61, no. 6, pp. 1783-1791., Registrované v: WOS
193. [1.1] SOMBOON, Chollada - BOONRUNG, Santhaya - KATEKAEW, Somporn - EKPRASERT, Jindarat - AIMI, Tadanori - BOONLUE, Sophon. Puri fication and characterization of low molecular weight alkali stable xylanase from *Neosartorya spinosa* UZ-2-11. In *MYCOSCIENCE*. ISSN 1340-3540, 2020, vol. 61, no. 3, pp. 128-135. Dostupné na: <https://doi.org/10.1016/j.myc.2020.01.004>., Registrované v: WOS
194. [1.1] SONG, Lili - ZENG, Wei - WU, Aimin - PICARD, Kelsey - LAMPUGNANI, Edwin R. - CHEETAMUN, Roshan - BEAHAN, Cherie - CASSIN, Andrew - LONSDALE, Andrew - DOBLIN, Monika S. - BACIC, Antony. Asparagus Spears as a Model to Study Heteroxylan Biosynthesis during Secondary Wall Development. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS
195. [1.1] SOUSA, Sonia - PEDROSA, Jorge - RAMOS, Ana - FERREIRA, Paulo J. - GAMELAS, Jose A. F. Surface properties of xylan and xylan derivatives measured by inverse gas chromatography. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*. ISSN 0927-7757, 2016, vol. 506, no., pp. 600-606., Registrované v: WOS
196. [1.1] SOUSA, Sonia - RAMOS, Ana - EVTUGUIN, Dmitry V. - GAMELAS, Jose A. F. Xylan and xylan derivatives-Their performance in bio-based films and effect of glycerol addition. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2016, vol. 94, no., pp. 682-689., Registrované v: WOS
197. [1.1] SPASOJEVIC, Dragica - PROKOPIJEVIC, Milos - PRODANOVIC, Olivera - ZELENOVIC, Nevena - POLOVIC, Natalija - RADOTIC, Ksenija - PRODANOVIC, Radivoje. Peroxidase-Sensitive Tyramine Carboxymethyl Xylan Hydrogels for Enzyme Encapsulation. In *MACROMOLECULAR RESEARCH*. ISSN 1598-5032, 2019, vol. 27, no. 8, pp. 764-771., Registrované v: WOS
198. [1.1] STERN, Tobias - LEDL, Caroline - BRAUN, Martin - HESSER, Franziska - SCHWARZBAUER, Peter. Biorefineries' impacts on the Austrian forest sector: A system dynamics approach. In *TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE*. ISSN 0040-1625, 2015, vol. 91, no., pp. 311-326., Registrované v: WOS
199. [1.1] SUN, Xiao-Feng - FENG, Yang - SHI, Xiaodi - WANG, Yaxiong. Preparation and Property of Xylan/Poly(Methacrylic Acid) Semi-Interpenetrating Network Hydrogel. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2016, vol., no., pp., Registrované v: WOS
200. [1.1] SUN, Xiao-Feng - JING, Zhanxin - WANG, Haihong - LIU, Yuyang. Physical-Chemical Properties of Xylan/PAAc Magnetic Semi-Interpenetrating Network Hydrogel. In *POLYMER COMPOSITES*. ISSN 0272-8397, 2015, vol. 36, no. 12, pp. 2317-2325., Registrované v: WOS

201. [1.1] SUN, Xiao-Feng - ZENG, Qihang - WANG, Haihong - HAO, Yiwei. Preparation and swelling behavior of pH/temperature responsive semi-IPN hydrogel based on carboxymethyl xylan and poly(N-isopropyl acrylamide). In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 3, pp. 1909-1922., Registrované v: WOS
202. [1.1] TALANTIKITE, Malika - BEURY, Nadege - MOREAU, Celine - CATHALA, Bernard. Arabinoxylan/Cellulose Nanocrystal Hydrogels with Tunable Mechanical Properties. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 41, pp. 13427-13434., Registrované v: WOS
203. [1.1] TAN, Hwei-Ting - CORBIN, Kendall R. - FINCHER, Geoffrey B. Emerging Technologies for the Production of Renewable Liquid Transport Fuels from Biomass Sources Enriched in Plant Cell Walls. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
204. [1.1] THUVANDER, Johan - JONSSON, Ann-Sofi. Techno-economic impact of air sparging prior to purification of alkaline extracted wheat bran hemicelluloses by membrane filtration. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2020, vol. 253, no., pp. Dostupné na: <https://doi.org/10.1016/j.seppur.2020.117498>., Registrované v: WOS
205. [1.1] TOMOO, Koji - MIKI, Yasuhiro - MORIOKA, Hideaki - SEIKE, Kiho - ISHIDA, Toshimasa - IKENISHI, Sadao - MIYAMOTO, Katsushiro - HASEGAWA, Tomokazu - YAMANO, Akihito - HAMADA, Kensaku - TSUJIBO, Hiroshi. Crystal structure of the solute-binding protein BxlE from Streptomyces thermoviolaceus OPC-520 complexed with xylobiose. In JOURNAL OF BIOCHEMISTRY. ISSN 0021-924X, 2017, vol. 161, no. 6, pp. 493-501., Registrované v: WOS
206. [1.1] TRYFONA, Theodora - SORIEUL, Mathias - FEIJAO, Carolina - STOTT, Katherine - RUBTSOV, Denis V. - ANDERS, Nadine - DUPREE, Paul. Development of an oligosaccharide library to characterise the structural variation in glucuronoarabinoxylan in the cell walls of vegetative tissues in grasses. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
207. [1.1] UL AIN, Huma Bader - SAEED, Farhan - AHMAD, Nazir - IMRAN, Ali - NIAZ, Bushra - AFZAAL, Muhammad - IMRAN, Muhammad - TUFAIL, Tabussam - JAVED, Ahsan. Functional and health-endorsing properties of wheat and barley cell wall's non-starch polysaccharides. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2018, vol. 21, no. 1, pp. 1463-1480., Registrované v: WOS
208. [1.1] UNER, Birol - DORAK, Sinem - ISMAILOGLU, Yunus - TUFAN, M. Zakir - KURUL, Fatih - YALCIN, Omer Umit. Centaurea solstitialis and Silybum marianum weeds conversion into value-added thermoplastic materials by benzoylation process. In IRANIAN POLYMER JOURNAL. ISSN 1026-1265, 2016, vol. 25, no. 1, pp. 37-43., Registrované v: WOS
209. [1.1] UNER, Birol - KOSE, Gokhan - YURUMUZ, Yesim - YALCIN, Omer Umit - AKGUL, Mehmet. Wood Waste Turned Into Value Added Products: Thermal Plasticization by Benzoylation Process. In DRVNA INDUSTRIJA. ISSN 0012-6772, 2016, vol. 67, no. 4, pp. 315-322., Registrované v: WOS
210. [1.1] UNLU, Cuneyt H. - KUTLU, Meltem - ATICI, Oya Galioglu.

- Mannich reaction of polysaccharides: Xylan functionalization in aqueous basic medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 19-27., Registrované v: WOS
211. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
212. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
213. [1.1] VEGA, Beatriz - GRIGORAY, Olga - GUSTAFSSON, Jan - FARDIM, Pedro. Advances in Sugar-based Polymers: Xylan and its Derivatives for Surface Modification of Pulp Fibres. In BIOMASS SUGARS FOR NON-FUEL APPLICATIONS. ISSN 1757-7039, 2016, vol., no. 44, pp. 134-158., Registrované v: WOS
214. [1.1] VELKOVA, Nena - DOLISKA, Ales - ZEMLJIC, Lidija Fras - VESEL, Alenka - SAAKE, Bodo - STRNAD, Simona. Influence of Carboxymethylation on the Surface Physical-Chemical Properties of Glucuronoxylan and Arabinoxylan Films. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2015, vol. 55, no. 12, pp. 2706-2713., Registrované v: WOS
215. [1.1] VELKOVA, Nena - ZEMLJIC, Lidija Fras - SAAKE, Bodo - STRNAD, Simona. Adsorption of cationized xylans onto polyethylene terephthalate fabrics for antimicrobial medical textiles. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 473-486., Registrované v: WOS
216. [1.1] VILARO, Pilar - SAMPL, Carina - TEICHERT, Gundula - SCHLEMMER, Werner - HOBISCH, Mathias - WEISSEL, Michael - PANIZZOLO, Luis - FERREIRA, Fernando - SPIRK, Stefan. Interactions and Dissociation Constants of Galactomannan Rendered Cellulose Films with Concavalin A by SPR Spectroscopy. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123040>., Registrované v: WOS
217. [1.1] VINNITSKIY, D. Z. - USTYUZHANINA, N. E. - NIFANTIEV, N. E. Natural bacterial and plant biomolecules bearing alpha-D-glucuronic acid residues. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2015, vol. 64, no. 6, pp. 1273-1301., Registrované v: WOS
218. [1.1] WANG, Lei - QIN, Xiangxiang - MIAO, Xueyan - CHEN, Haishan - ZHOU, Yuheng - CAI, Aihua. Synthesis and nondestructive detailed structure characterization of carboxymethyl xylan from bagasse. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2020, vol. 39, no. 4, pp. 131-144. Dostupné na: <https://doi.org/10.1080/07328303.2020.1748643>., Registrované v: WOS
219. [1.1] WANG, Xiaohui - DAI, Qingqing - ZHONG, Haoquan - LIU,

- Xinxin - REN, Junli. Fast-responsive Temperature-sensitive Hydrogels. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 4, pp. 8543-8558., Registrované v: WOS
220. [1.1] WEGARY, Dagne - TEKLEWOLD, Adefris - PRASANNA, Boddupalli M. - ERTIRO, Berhanu T. - ALACHIOTIS, Nikolaos - NEGERA, Demewez - AWAS, Geremew - ABAKEMAL, Demissew - OGUGO, Veronica - GOWDA, Manje - SEMAGN, Kassa. Molecular diversity and selective sweeps in maize inbred lines adapted to African highlands. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
221. [1.1] WIERZBICKI, Martin P. - MALONEY, Victoria - MIZRACHI, Eshchar - MYBURG, Alexander A. Xylan in the Middle: Understanding Xylan Biosynthesis and Its Metabolic Dependencies Toward Improving Wood Fiber for Industrial Processing. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
222. [1.1] WIKBERG, Hanne - GRONBERG, Vidar - JERMAKKA, Johannes - KEMPPAINEN, Katariina - KLEEN, Marjatta - LAINE, Christiane - PAASIKALLIO, Ville - OASMAA, Anja. Hydrothermal refining of biomass an overview and future perspectives. In TAPPI JOURNAL. ISSN 0734-1415, 2015, vol. 14, no. 3, pp. 195-207., Registrované v: WOS
223. [1.1] WILK, Marta - KRZYWONOS, Malgorzata. Methods for pretreatment of lignocellulose raw materials in second-generation bioethanol production. In PRZEMYSŁ CHEMICZNY. ISSN 0033-2496, 2015, vol. 94, no. 4, pp. 599-604., Registrované v: WOS
224. [1.1] WILLIS, Jonathan D. - SMITH, James A. - MAZAREI, Mitra - ZHANG, Ji-Yi - TURNER, Geoffrey B. - DECKER, Stephen R. - SYKES, Robert W. - POOVAIAH, Charleson R. - BAXTER, Holly L. - MANN, David G. J. - DAVIS, Mark F. - UDVARDI, Michael K. - PENA, Maria J. - BACKE, Jason - BAR-PELED, Maor - STEWART, C. N. Downregulation of a UDP-Arabinomutase Gene in Switchgrass (*Panicum virgatum* L.) Results in Increased Cell Wall Lignin While Reducing Arabinose-Glycans. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
225. [1.1] WU, Guan-ya - LI, He-ping - YANG, Xu - SUN, Yan - ZOU, Ying-dong. Synthesis and Characterization of Sulfonic Groups Bagasse Xylan Salicylate. In 2016 INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND ENGINEERING (ESE 2016), 2016, vol., no., pp. 382-385., Registrované v: WOS
226. [1.1] WU, Chaojun. The Potential of Pre-Hydrolysis Liquor from the Dissolving Pulp Process as Recovery Source of Xylooligosaccharide A Mini-Review. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 3, pp. 7917-7927., Registrované v: WOS
227. [1.1] WU, Ping - LI, Jianmei - HE, Ting - HU, Changwei. The Direct Conversion of Hemicelluloses to Selectively Produce Xylose from Corn Stover Catalysed by Maleic Acid. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 1, pp. 816-841., Registrované v: WOS
228. [1.1] XIANG, Zhouyang - ANTHONY, Renil - LAN, Wu - RUNGE, Troy. Glutaraldehyde crosslinking of arabinoxylan produced from corn ethanol residuals. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 1, pp. 307-321., Registrované v: WOS
229. [1.1] XIANG, Zhouyang - JIN, Xuchen - HUANG, Caoxing - LI,

- Lian - WU, Wanhua - QI, Haisong - NISHIYAMA, Yoshiharu. Water cast film formability of sugarcane bagasse xylans favored by side groups. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 13, pp. 7307-7320. Dostupné na: <https://doi.org/10.1007/s10570-020-03291-7>., Registrované v: WOS
230. [1.1] XIANG, Zhouyang - RUNGE, Troy. Emulsifying properties of succinylated arabinoxylan-protein gum produced from corn ethanol residuals. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 52, no., pp. 423-430., Registrované v: WOS
231. [1.1] XUE, Dongsheng - ZENG, Xuhao - LIN, Dongqiang - YAO, Shanjing. Thermostable ethanol tolerant xylanase from a cold-adapted marine species *Acinetobacter johnsonii*. In CHINESE JOURNAL OF CHEMICAL ENGINEERING. ISSN 1004-9541, 2019, vol. 27, no. 5, pp. 1166-1170., Registrované v: WOS
232. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against *Escherichia coli* Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS
233. [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
234. [1.1] XU, Honggao - JIAO, Qiong - YUAN, Fang - GAO, Yanxiang. In vitro binding capacities and physicochemical properties of soluble fiber prepared by microfluidization pretreatment and cellulase hydrolysis of peach pomace. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 63, no. 1, pp. 677-684., Registrované v: WOS
235. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase from *Bacillus halodurans* C-125. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS
236. [1.1] YILMAZ-TURAN, Secil - JIMENEZ-QUERO, Amparo - MORIANA, Rosana - ARTE, Elisa - KATINA, Kati - VILAPLANA, Francisco. Cascade extraction of proteins and feruloylated arabinoxylans from wheat bran. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 333, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127491>., Registrované v: WOS
237. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of *Dendrobium officinale* and anti-angiogenesis activities of its sulfated derivative. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS
238. [1.1] YU, Zaikuan - MURRIA, Priya - EASTON, McKay W. - DEGENSTEIN, John C. - ZHU, Hanyu - XU, Lan - AGRAWAL, Rakesh - DELGASS, W. Nicholas - RIBEIRO, Fabio H. - KENTTAMAA, Hilka. Exploring the Reaction Mechanisms of Fast Pyrolysis of Xylan Model Compounds via Tandem Mass Spectrometry and Quantum Chemical Calculations. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2019, vol. 123, no. 42, pp. 9149-9157., Registrované v: WOS

239. [1.1] ZHANG, He - BRACE, Emma C. - ENGELBERTH, Abigail S. Selection of a nonaqueous two-phase solvent system for fractionation of xylo-oligosaccharide prebiotics using a conductor-like screening model for real solvents. In JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES. ISSN 1082-6076, 2016, vol. 39, no. 14, pp. 666-673., Registrované v: WOS
240. [1.1] ZHANG, Jie - GUO, Rong-Bo - QIU, Yan-Ling - QIAO, Jiang-Tao - YUAN, Xian-Zheng - SHI, Xiao-Shuang - WANG, Chuan-Shui. Bioaugmentation with an acetate-type fermentation bacterium *Acetobacteroides hydrogenigenes* improves methane production from corn straw. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 179, no., pp. 306-313., Registrované v: WOS
241. [1.1] ZHANG, Jun-Feng - XU, Yong-Qing - DONG, Jia-Min - PENG, Li-Na - FENG, Xu - WANG, Xu - LI, Fei - MIAO, Yu - YAO, Shu-Kuan - ZHAO, Qiao-Qin - FENG, Shan-Shan - HU, Bao-Zhong - LI, Feng-Lan. Genome-wide identification of wheat (*Triticum aestivum*) expansins and expansin expression analysis in cold-tolerant and cold-sensitive wheat cultivars. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 3, pp., Registrované v: WOS
242. [1.1] ZHANG, Wei - BARONE, Justin R. - RENNECKAR, Scott. Biomass Fractionation after Denaturing Cell Walls by Glycerol Thermal Processing. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 3, pp. 413-420., Registrované v: WOS
243. [1.1] ZHANG, Xi - SHEN, Feng - HU, Zhicheng - WU, Yichen - TANG, Haoran - JIA, Jianchao - WANG, Xiaohui - HUANG, Fei - CAO, Yong. Biomass Nanomicelles Assist Conjugated Polymers/Pt Cocatalysts To Achieve High Photocatalytic Hydrogen Evolution. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2019, vol. 7, no. 4, pp. 4128-4135., Registrované v: WOS
244. [1.1] ZHANG, Xueqin - CHEN, Mingjie - WANG, Huihui - LIU, Chuanfu - ZHANG, Aiping - SUN, Runcang. Characterization of Xylan-graft-Polycaprolactone Copolymers Prepared in Ionic Liquid. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 24, pp. 6282-6290., Registrované v: WOS
245. [1.1] ZHANG, Xueqin - WANG, Huihui - WEN, Xiaoxiang - ZHANG, Aiping - WANG, Xiaoying - ZHONG, Linxin - LIU, Chuanfu - SUN, Runcang. Synthesis and Characterization of Xylan Grafted with Polyethylene Glycol in Ionic Liquid and Their Use as Moisture-Absorption/Retention Biomaterials. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, 2016, vol. 301, no. 3, pp. 287-295., Registrované v: WOS
246. [1.1] ZHANG, Xueqin - WANG, Huihui - LIU, Chuanfu - ZHANG, Aiping - REN, Junli. Synthesis of Thermoplastic XylanLactide Copolymer with AmidineMediated Organocatalyst in Ionic Liquid. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
247. [1.1] ZHAO, Yushuang - JING, Shuangshuang - ZHANG, Xiaoting - CHEN, Zehong - ZHUO, Hao - HU, Yijie - LIU, Qingzhong - ZHONG, Linxin - PENG, Xinwen - SUN, Runcang. Strengthening effects of carboxymethylated hemicellulosic fractions on paper strength. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 360-369., Registrované v: WOS
248. [1.1] ZHA, Zhengqi - LV, Yang - TANG, Huiling - LI, Tingting -

- MIAO, Yinghua - CHENG, Junwei - WANG, Guoqing - TAN, Yanfang - ZHU, Yan - XING, Xiao - DING, Kang - WANG, Ying - YIN, Hongping. An orally administered butyrate-releasing xylan derivative reduces inflammation in dextran sulphate sodium-induced murine colitis. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 156, no., pp. 1217-1233. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.159>., Registrované v: WOS
249. [1.1] ZHONG, Ruiqin - CUI, Dongtao - DASHER, Robert L. - YE, Zheng-Hua. Biochemical characterization of rice xylan O-acetyltransferases. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 6, pp. 1489-1498., Registrované v: WOS
250. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - YE, Zheng-Hua. A Novel Rice Xylosyltransferase Catalyzes the Addition of 2-O-Xylosyl Side Chains onto the Xylan Backbone. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2018, vol. 59, no. 3, pp. 554-565., Registrované v: WOS
251. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174., Registrované v: WOS
252. [1.1] ZHONG, Ruiqin - YE, Zheng-Hua. Secondary Cell Walls: Biosynthesis, Patterned Deposition and Transcriptional Regulation. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2015, vol. 56, no. 2, pp. 195-214., Registrované v: WOS
253. [1.1] ZHOU, Xia - DING, Dayong - YOU, Tingting - ZHANG, Xun - TAKABE, Keiji - XU, Feng. Synergetic Dissolution of Branched Xylan and Lignin Opens the Way for Enzymatic Hydrolysis of Poplar Cell Wall. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 13, pp. 3449-3456., Registrované v: WOS
254. [1.1] ZHOU, Xuesong - LI, Weibin - SI, Jinghang. Development of pH sensitive polyacrylic acid grafted hemicellulose hydrogels for colon-specific controlled drug delivery. In *JOURNAL OF CONTROLLED RELEASE*. ISSN 0168-3659, 2017, vol. 259, no., pp. E161-E161., Registrované v: WOS
255. [1.1] ZHU, Xiao Fang - WAN, Jiang Xue - WU, Qi - ZHAO, Xu Sheng - ZHENG, Shao Jian - SHEN, Ren Fang. PARVUS affects aluminium sensitivity by modulating the structure of glucuronoxylan in *Arabidopsis thaliana*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2017, vol. 40, no. 9, pp. 1916-1925., Registrované v: WOS
256. [1.2] ACOSTA, Rolando - SANABRIA, Javier - NABARLATZ, Debora. Biomass from colombian agroindustrial activities: Characterization and potential for oligosaccharides production. In *Chemical Engineering Transactions*, 2018-01-01, 65, pp. 667-672., Registrované v: SCOPUS
257. [1.2] ACOSTA, Rolando - VIVIESCAS, Paula - SANDOVAL, Mayadir - NABARLATZ, Debora. Autohydrolysis of sugarcane bagasse and empty fruit bunch from oil palm: Kinetics model and analysis of xylo-Oligosaccharides yield. In *Chemical Engineering Transactions*, 2018-01-01, 65, pp. 307-312., Registrované v: SCOPUS
258. [1.2] ASHTER, Syed Ali. Technology and Applications of Polymers

- Derived from Biomass. In Technology and Applications of Polymers Derived from Biomass, 2017-11-18, pp. 1-272., Registrované v: SCOPUS
259. [1.2] DUSSAN, K. - DOOLEY, S. - MONAGHAN, R. F.D. New pseudo-components of hemicellulose and lignin. In European Biomass Conference and Exhibition Proceedings, 2017-06-01, 2017, 25thEUBCE, pp. 971-979., Registrované v: SCOPUS
260. [1.2] FORTUNATI, E. - LUZI, F. - PUGLIA, D. - TORRE, L. Extraction of Lignocellulosic Materials From Waste Products. In Multifunctional Polymeric Nanocomposites Based on Cellulosic Reinforcements, 2016-01-01, pp. 1-38., Registrované v: SCOPUS
261. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. The effects of delignification on hemicellulose extraction from switchgrass, pine and poplar. In Pulping, Engineering, Environmental, Recycling, Sustainability Conference 2016, PEERS 2016, 2016-01-01, 2, pp. 787-795., Registrované v: SCOPUS
262. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou Min. Carboxymethylation of hemicellulose and hemicellulose-based hydrogels. In PEERS Conference 2017: Maximizing Success Through Innovation, 2017-01-01, 2017-November, pp. 358-367., Registrované v: SCOPUS
263. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou Min. Effect of delignification on hemicellulose extraction from switchgrass, poplar, and pine and its effect on enzymatic convertibility of Cellulose-rich Residues. In BioResources, 2019-01-01, 13, 3, pp. 4946-4963., Registrované v: SCOPUS
264. [1.2] HARFILIA HAFIDAH, Ani - SULISTYANINGSIH, Erma - HANDAYANI, Wuryanti - RATNADEWI, Anak Agung Istri. Prebiotic potential of xylooligosaccharides derived from cassava dregs in Balb/c mice colon. In Pertanika Journal of Tropical Agricultural Science. ISSN 15113701, 2018-08-01, 41, 3, pp. 1021-1031., Registrované v: SCOPUS
265. [1.2] HELD, Michael A. - JIANG, Nan - BASU, Debarati - SHOWALTER, Allan M. - FAIK, Ahmed. Plant cell wall polysaccharides: Structure and biosynthesis. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 3-54., Registrované v: SCOPUS
266. [1.2] CHEN, Jiachuan - JIA, Tingpeng - YANG, Guihua - HE, Ming. Pre-extraction of Hemicelluloses from poplar chips and its effect on kraft pulping. In Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry. ISSN 02533200, 2017-03-01, 49, 2, pp. 30-40., Registrované v: SCOPUS
267. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
268. [1.2] KALININA, A. N. - BORSHCHEVSKAYA, L. N. - GORDEEVA, T. L. - SINEOKY, S. P. Comparison of xylanases of different origin in expression system of *Pichia pastoris*: Gene expression, biochemical characteristics and biotechnological potential. In Biotekhnologiya. ISSN 02342758, 2018-01-01, 34, 4, pp. 26-36., Registrované v: SCOPUS
269. [1.2] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of gene for xylanase from *Paenibacillus brasilensis* X 1 i n *Pichia pastoris* and characteristics of recombinant enzyme. In Biotekhnologiya. ISSN

- 02342758, 2018-01-01, 34, 6, pp. 22-32., Registrované v: SCOPUS
270. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive carbohydrates. In Secondary Metabolite and Functional Food Components: Role in Health and Disease, 2018-01-01, pp. 197-222., Registrované v: SCOPUS
271. [1.2] LEVDANSKY, V. A. - KONDRASENKO, A. A. - LEVDANSKY, A. V. - KUZNETSOV, B. N. Sulfation of xylan with sulfamic acid in N,N-dimethylformamide. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2018-01-01, 1, pp. 29-36., Registrované v: SCOPUS
272. [1.2] LIU, Jun - WILLFÖR, Stefan - XU, Chunlin. A review of bioactive plant polysaccharides: Biological activities, functionalization, and biomedical applications. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2015-01-01, 5, 1, pp. 31-61., Registrované v: SCOPUS
273. [1.2] LI, Rui - YANG, Guihua - CHEN, Jiachuan - HE, Ming. The characterization of hemicellulose extract from corn stalk with stepwise alkali extraction. In Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry. ISSN 02533200, 2017-07-01, 49, 4, pp. 29-40., Registrované v: SCOPUS
274. [1.2] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications, 2016-08-04, pp. 475-511., Registrované v: SCOPUS
275. [1.2] MORAIS DE CARVALHO, Danila - ABAD, Antonio Martinez - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTRÖM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronoarabinoxylan from sugarcane bagasse and straw. In Carbohydrate Polymers. ISSN 01448617, 2017-01-20, 156, pp. 223-234., Registrované v: SCOPUS
276. [1.2] SAMALA, Aditya - SRINIVASAN, Radhakrishnan - BROOKS, John P. - SHARMA, Chander S. In vitro prebiotic bacterial growth properties of xylooligosaccharides produced by autohydrolysis of corn fiber. In International Journal of Poultry Science. ISSN 16828356, 2015-01-01, 14, 6, pp. 305-311., Registrované v: SCOPUS
277. [1.2] SINGH, Ramkrishna D. - BANERJEE, Jhumur - ARORA, Amit. Prebiotic potential of oligosaccharides: A focus on xylan derived oligosaccharides. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2015-01-01, 5, 1, pp. 19-30., Registrované v: SCOPUS
278. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
279. [1.2] SWAMINATHAN, Jonesh - JAYAPAL, Perumal Raj - ASOKAN, Meera - RAMASAMY, Dhanasekar. Dilute acid pretreatment of sweet sorghum stalk and its characterization. In International Journal of ChemTech Research. ISSN 09744290, 2015-01-01, 8, 6, pp. 589-598., Registrované v: SCOPUS

280. [1.2] VERA, Rodrigo Morales - BURA, Renata - GUSTAFSON, Rick. Synergistic effects of mixing hybrid poplar and wheat straw biomass for bioconversion processes. In *Biotechnology for Biofuels*. ISSN 17546834, 2015-12-24, 8, 1, pp., Registrované v: SCOPUS
281. [1.2] Xu, Y., Sun, X. S., & Wang, D. (2019). Wheat. In *Integrated Processing Technologies for Food and Agricultural By-Products* (pp. 3-20), Registrované v: SCOPUS
282. [1.2] YADAV, Preeti - YADAV, Harsh - SHAH, Veena Gowri - SHAH, Gaurav - DHAKA, Gaurav. Biomedical biopolymers, their origin and evolution in biomedical sciences: A systematic review. In *Journal of Clinical and Diagnostic Research*. ISSN 2249782X, 2015-09-01, 9, 9, pp. 21-25., Registrované v: SCOPUS
283. [1.2] YUE, Panpan - FU, Genque - HU, Yajie - LI, Yanfei - PENG, Feng - SUN, Runcang. Research Advance in Isolation of Lignocellulosic Biomass Hemicelluloses. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2019-06-01, 38, 6, pp. 73-78., Registrované v: SCOPUS

ADCA322 EBRINGEROVÁ, Anna** - EREMEEVA, T.E. - KHINOVEROVA, O.E. - ERSHOV, B.G. 4-O-Methyl-D-glucurono-D-xylan degradation by γ -irradiation. Part 1. Dose effects on the macromolecular properties. In *Carbohydrate Polymers*, 1991, vol. 15, p. 255 -. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(91\)90040-J](https://doi.org/10.1016/0144-8617(91)90040-J)

Ohlasy:

1. [1.1] KHAWORY, Muhammad Hidhir - SAIN, Amyra Amat - ROSLI, Mohamad Afiq Aizuddin - ISHAK, Muhammad Syafiq - NOORDIN, Mohamed Ibrahim - WAHAB, Habibah A. Effects of gamma radiation treatment on three different medicinal plants: Microbial limit test, total phenolic content, in vitro cytotoxicity effect and antioxidant assay. In *APPLIED RADIATION AND ISOTOPES*. ISSN 0969-8043, 2020, vol. 157, no., pp. Dostupné na: <https://doi.org/10.1016/j.apradiso.2019.109013>., Registrované v: WOS

ADCA323 EISENREICHOVÁ, E. - HALADOVÁ, M. - BUČKOVÁ, A. - TOMKO, J. - UHRÍN, Dušan - UBIK, K. A pyrroline-pyrrolidine alkaloid from *Lilium candidum* bulbs. In *Phytochemistry*, 1992, vol. 31, p. 1084-1085. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/0031-9422\(92\)80088-V](https://doi.org/10.1016/0031-9422(92)80088-V)

Ohlasy:

1. [1.1] SALEHI, Mehdi - HATAMZADEH, Abdollah - JAFARIAN, Vahab - ZARRE, Shahin. New molecular record and some biochemical features of the rare plant species of Iranian lily (*Lilium ledebourii* Boiss.). In *HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY*. ISSN 2211-3452, 2019, vol. 60, no. 4, pp. 585-593., Registrované v: WOS

ADCA324 EKHOLM, Filip mS. - POLÁKOVÁ, Monika - PAWLOWICZ, Agnieszka J. - LEINO, Reko. Synthesis of divalent 2,2'-linked mannose derivatives by homodimerization. In *Synthesis*, 2009, no. 4, pp. 567-576. (2008: 2.470 - IF, Q2 - JCR, 1.325 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0039-7881. Dostupné na: <https://doi.org/10.1055/s-0028-1083283>

Ohlasy:

1. [1.1] HUSSAIN, Hidayat - ALI, Iftikhar - ELIZBIT - HUSSAIN, Wahid - MAMADALIEVA, Nilufar Z. - HUSSAIN, Amjad - ALI, Maroof -

- AHMED, Ishtiaq - ULLAH, Izhar - GREEN, Ivan R. Synthetic Studies Towards Fungal Glycosides: An Overview. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2020, vol. 24, no. 24, pp. 2865-2901. Dostupné na: <https://doi.org/10.2174/1385272824999201105160034>., Registrované v: WOS
2. [1.1] KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthesis of oligosaccharides related to cell wall polysaccharides of the fungi *Candida* and *Aspergillus*. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2017, vol. 86, no. 11, pp. 1073-1126., Registrované v: WOS
3. [1.1] KONISHI, Naruki - SHIRAHATA, Tatsuya - YOKOYAMA, Masaki - KATSUMI, Tatsuya - ITO, Yoshikazu - HIRATA, Nozomu - NISHINO, Takashi - MAKINO, Kazuishi - SATO, Noriko - NAGAI, Takayuki - KIYOHARA, Hiroaki - YAMADA, Haruki - KAJI, Eisuke - KOBAYASHI, Yoshinori. Synthesis of Bisdesmosidic Oleanolic Acid Saponins via a Glycosylation-Deprotection Sequence under Continuous Microfluidic/Batch Conditions. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 13, pp. 6703-6719., Registrované v: WOS
4. [1.1] TANZI, Lisa - ROBESCU, Marina Simona - MARZATICO, Sara - RECCA, Teresa - ZHANG, Yongmin - TERRENI, Marco - BAVARO, Teodora. Developing a Library of Mannose-Based Mono- and Disaccharides: A General Chemoenzymatic Approach to Monohydroxylated Building Blocks. In *MOLECULES*, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235764>., Registrované v: WOS
5. [1.1] VOLBEDA, Anne Geert - KISTEMAKER, Hans An. - OVERKLEEF, Herman S. - VAN DER MAREL, Gijsbert A. - FILIPPOV, Dmitri V. - CODEE, Jeroen D. C. Chemoselective Cleavage of p-Methoxybenzyl and 2-Naphthylmethyl Ethers Using a Catalytic Amount of HCl in Hexafluoro-2-propanol. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2015, vol. 80, no. 17, pp. 8796-8806., Registrované v: WOS
6. [1.1] ZHANG, Gao-Lan - YANG, Lin - ZHU, Jingjing - WEI, Mengman - YAN, Wanjun - XIONG, De-Cai - YE, Xin-Shan. Synthesis and Antigenic Evaluation of Oligosaccharide Mimics of Vi Antigen from *Salmonella typhi*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 44, pp. 10670-10677., Registrované v: WOS

ADCA325 EL-SHAAER, H.M. - ZAHRAĐNÍK, Pavel - LÁCOVÁ, M. - MATULOVÁ, Mária. Study of substituted formylchromones. In *Collection of Czechoslovak Chemical Communications*, 1994, vol. 59, p. 1673-1681. (1993: 0.382 - IF, Current Contents - CCC). (1994 - Current Contents, WOS). ISSN 0010-0765.

Ohlasy:

1. [1.1] SAFRYGIN, Alexander V. - SOSNOVSKIKH, Vyacheslav Ya. Synthesis and chemical properties of 2-acylchromones. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2017, vol. 86, no. 4, pp. 318-338., Registrované v: WOS

ADCA326 ERSHOV, V.G. - EBRINGEROVÁ, Anna. Investigation of radical products in radiolysis of xylan by EPR method. In *Cellulose Chemistry and Technology*, 1990, vol. 24, p. 351-357. ISSN 0576-9787.

Ohlasy:

1. [1.1] SHEN, Dekui - JIN, Wei - HU, Jun - XIAO, Rui - LUO,

Kaihong. An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2015, vol. 51, no., pp. 761-774., Registrované v: WOS

ADCA327 FANG, Wenxia - SANZ, Ana Belén - BARTUAL, Sergio Galán - WANG, Bin - FERENBACH, Andrew T. - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier** - VAN AALTEN, Daan M.F.**. Mechanisms of redundancy and specificity of the *Aspergillus fumigatus* Crh transglycosylases. In *Nature Communications*, 2019, vol. 10, art. no. 1669. (2018: 11.878 - IF, Q1 - JCR, 5.992 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-019-09674-0>

Ohlasy:

1. [1.1] BLATZER, Michael - BEAUVAIS, Anne - HENRISSAT, Bernard - LATGE, Jean-Paul. Revisiting Old Questions and New Approaches to Investigate the Fungal Cell Wall Construction. In FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS. ISSN 0070-217X, 2020, vol. 425, no., pp. 331-369. Dostupné na: https://doi.org/10.1007/82_2020_209., Registrované v: WOS

2. [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike - BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207., Registrované v: WOS

ADCA328 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - BYSTRICKÝ, Slavomír. Comparison of EDC and DMTMM efficiency in glycoconjugate. In *International Journal of Biological Macromolecules*, 2013, vol. 60, p. 325-327. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2013.06.014>

Ohlasy:

1. [1.1] ARCURI, M. - DI BENEDETTO, R. - CUNNINGHAM, A. F. - SAUL, A. - MACLENNAN, C. A. - MICOLI, F. The influence of conjugation variables on the design and immunogenicity of a glycoconjugate vaccine against *Salmonella Typhi*. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS

2. [1.1] BAIER, Mischa - RUPPERTZ, Jana L. - PFLEIDERER, Moritz M. - BLAUM, Baerbel S. - HARTMANN, Laura. Synthesis of highly controlled carbohydrate-polymer based hybrid structures by combining heparin fragments and sialic acid derivatives, and solid phase polymer synthesis. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 74, pp. 10487-10490., Registrované v: WOS

3. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS

4. [1.1] KUEHL, Christopher - ZHANG, Ti - KAMINSKAS, Lisa M. - PORTER, Christopher J. H. - DAVIES, Neal M. - FORREST, Laird - BERKLAND, Cory. Hyaluronic Acid Molecular Weight Determines Lung Clearance and Biodistribution after Instillation. In MOLECULAR PHARMACEUTICS. ISSN 1543-8384, 2016, vol. 13, no. 6, pp. 1904-1914., Registrované v: WOS
5. [1.1] LABRE, Flavien - MATHIEU, Sophie - CHAUD, Patricia - MORVAN, Pierre-Yves - VALLEE, Romuald - HELBERT, William - FORT, Sebastien. DMTMM-mediated amidation of alginate oligosaccharides aimed at modulating their interaction with proteins. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 184, no., pp. 427-434., Registrované v: WOS
6. [1.1] LOEBEL, Claudia - D'ESTE, Matteo - ALINI, Mauro - ZENOBI-WONG, Marcy - EGLIN, David. Precise tailoring of tyramine-based hyaluronan hydrogel properties using DMTMM conjugation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 325-333., Registrované v: WOS
7. [1.1] WANG, Ping - ZHU, Xueke - YUAN, Jiugang - YU, Yuanyuan - CUI, Li - DUAN, Ying - WANG, Qiang - FAN, Xuerong. Grafting of Tyrosine-containing Peptide onto Silk Fibroin Membrane for Improving Enzymatic Reactivity. In FIBERS AND POLYMERS. ISSN 1229-9197, 2016, vol. 17, no. 9, pp. 1323-1329., Registrované v: WOS
8. [1.1] XIE, Yalun - WANG, Yafen - HE, Zhiyong - YANG, Wei - FU, Boshi - ZOU, Guangrong - ZHANG, Xiong - HUANG, Jinguo - ZHOU, Xiang. Selective Chemical Labeling and Sequencing of 5-Carboxylcytosine in DNA at Single-Base Resolution. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 18, pp. 12710-12715. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c03201>., Registrované v: WOS

ADCA329 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Efficient activation of carboxyl polysaccharides for the preparation of conjugates. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 68, p. 187-190. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2006.07.013>

Ohlasy:

1. [1.1] BORKE, Tina - WINNIK, Francoise M. - TENHU, Heikki - HIETALA, Sami. Optimized triazine-mediated amidation for efficient and controlled functionalization of hyaluronic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 42-50., Registrované v: WOS
2. [1.1] ELSCHNER, Thomas - OBST, Franziska - HEINZE, Thomas. Furfuryl- and Maleimido Polysaccharides: Synthetic Strategies Toward Functional Biomaterials. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2018, vol. 18, no. 11, pp., Registrované v: WOS
3. [1.1] FAN, Fei - ZHANG, Ping - WANG, Lihao - SUN, Tiantian - CAI, Chao - YU, Guangli. Synthesis and Properties of Functional Glycomimetics through Click Grafting of Fucose onto Chondroitin Sulfates. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 10, pp. 3798-3808., Registrované v: WOS
4. [1.1] HEIDA, Thomas - OTTO, Oliver - BIEDENWEG, Doreen - HAUCK, Nicolas - THIELE, Julian. Microfluidic Fabrication of Click

Chemistry-Mediated Hyaluronic Acid Microgels: A Bottom-Up Material Guide to Tailor a Microgel's Physicochemical and Mechanical Properties. In POLYMERS, 2020, vol. 12, no. 8, pp. Dostupné na:

<https://doi.org/10.3390/polym12081760>., Registrované v: WOS

5. [1.1] LIANG, Jue - CHENG, Lulu - STRUCKHOFF, Jessica J. - RAVI, Nathan. Investigating triazine-based modification of hyaluronan using statistical designs. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 472-480., Registrované v: WOS

6. [1.1] LIANG, Jue - KARAKOČAK, Bedia Begum - STRUCKHOFF, Jessica J. - RAVI, Nathan. Synthesis and Characterization of Injectable Sulfonate-Containing Hydrogels. In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 12, pp. 4064-4074., Registrované v: WOS

7. [1.1] LIANG, Jue - STRUCKHOFF, Jessica J. - HAMILTON, Paul D. - RAVI, Nathan. Preparation and Characterization of Biomimetic beta-Lens Crystallins Using Single-Chain Polymeric Nanoparticles. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 31, pp. 7660-7668., Registrované v: WOS

8. [1.1] LOEBEL, Claudia - D'ESTE, Matteo - ALINI, Mauro - ZENOBI-WONG, Marcy - EGLIN, David. Precise tailoring of tyramine-based hyaluronan hydrogel properties using DMTMM conjugation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 325-333., Registrované v: WOS

9. [1.1] RAGHUPATHI, Kishore - SKINNER, Matthew - CHANG, Grace - CRAWLEY, Cristin - YOSHIDA-MORIGUCHI, Takako - PIPENHAGEN, Peter - ZHU, Yunxiang - AVILA, Luis Z. - MILLER, Robert J. - DHAL, Pradeep K. Hyaluronic Acid Microgels as Intracellular Endosomolysis Reagents. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2018, vol. 4, no. 2, pp. 558-565., Registrované v: WOS

10. [1.1] VAN GUYSE, Joachim F. R. - MEES, Maarten A. - VERGAELLEN, Maarten - BAERT, Mathijs - VERBRAEKEN, Bart - MARTENS, Penny J. - HOOGENBOOM, Richard. Amidation of methyl ester side chain bearing poly(2-oxazoline)s with tyramine: a quest for a selective and quantitative approach. In POLYMER CHEMISTRY. ISSN 1759-9954, 2019, vol. 10, no. 8, pp. 954-962., Registrované v: WOS

11. [1.1] ZHANG, Yingyue - CHAN, Jennifer W. - MORETTI, Alysha - UHRICH, Kathryn E. Designing polymers with sugar-based advantages for bioactive delivery applications. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2015, vol. 219, no., pp. 355-368., Registrované v: WOS

ADCA330 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír. One-pot preparation of labelled mannan-peptide conjugate, model for immune cell processing. In *Glycoconjugate Journal*, 2016, vol. 33, no. 1, p. 113-120. (2015: 1.828 - IF, Q3 - JCR, 0.722 - SJR, Q3 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-015-9644-0>

Ohlasy:

1. [1.1] SARKAR, Biswajit - JAYARAMAN, Narayanaswamy. Glycoconjugations of Biomolecules by Chemical Methods. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.570185>., Registrované v: WOS

ADCA331 FARKAŠ, Pavol - KORCOVÁ, Jana, Vráblová - KRONEK, Juraj - BYSTRICKÝ, Slavomír. Preparation of synthetic polyoxazoline based carrier and Vibrio cholerae O-specific polysaccharide conjugate vaccine. In *European Journal of Medicinal Chemistry*, 2010, vol.45, p. 795-799. (2009: 3.269 - IF, 0.964 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0223-5234. Dostupné na: <https://doi.org/10.1016/j.ejmech.2009.11.002>

Ohlasy:

1. [1.1] MENG, X. - JI, C.M. - SU, C. - SHEN, D. - LI, Y.X. - DONG, P.J. - YUAN, D. - YANG, M.Y. - BAI, S. - MENG, D.M. - FAN, Z.C. - YANG, Y. - YU, P. - ZHU, T. Synthesis and immunogenicity of PG-tb1 monovalent glycoconjugate. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, JUL 7 2017, vol. 134, p. 140-146., Registrované v: WOS
2. [1.1] MUZIKOVA, G. - LAGA, R. Macromolecular Systems for Vaccine Delivery. In *PHYSIOLOGICAL RESEARCH*. ISSN 0862-8408, 2016, vol. 65, no., pp. S203-S216., Registrované v: WOS
3. [1.1] SEDLACEK, O. - DE LA ROSA, V.R. - HOOGENBOOM, R. Poly(2-oxazoline)-protein conjugates. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, NOV 2019, vol. 120., Registrované v: WOS
4. [1.1] SEDLACEK, O. - DE LA ROSA, V.R. - HOOGENBOOM, R. Poly(2-oxazoline)-protein conjugates. In *POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION AND BEYOND*. 2020, p. 407-420., Registrované v: WOS
5. [1.1] VAKILI, A. - GARGARI, S.L.M. - NAZARIAN, S. - AMANI, J. Designing and Expression of Recombinant Chimeric Protein Containing CtxB and OmpW from Vibrio Cholerae and Evaluation of Its Immunogenicity. In *IRANIAN JOURNAL OF IMMUNOLOGY*. ISSN 1735-1383, SUM 2018, vol. 15, no. 3, p. 207-220., Registrované v: WOS
6. [1.1] VLASSI, E. - PAPAGIANNOPOULOS, A. - PISPAS, S. Amphiphilic poly(2-oxazoline) copolymers as self-assembled carriers for drug delivery applications. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, MAR 2017, vol. 88, p. 516-523., Registrované v: WOS

ADCA332 FARKAŠ, Vladimír - VAGABOV, V.M. - BAUER, Štefan. Biosynthesis of yeast mannan. Diversity of mannosyltransferase in the mannan-synthetizing enzyme system from yeast. In *Biochimica et Biophysica Acta*, 1976, vol. 428, p. 573-582.

Ohlasy:

1. [1.1] DEL BARRIO-GALAN, Ruben - UBEDA, Cristina - GIL, Mariona - SIECZKOWSKI, Nathalie - PENA-NEIRA, Alvaro. Different application dosages of a specific inactivated dry yeast (SIDY): effect on the polysaccharides, phenolic and volatile contents and color of Sauvignon blanc wines. In *OENO ONE*. ISSN 2494-1271, 2018, vol. 52, no. 4, pp. 333-346., Registrované v: WOS
2. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA333 FARKAŠ, Vladimír - BAUER, Štefan - VAGABOV, V.M. Biosynthesis of yeast mannan. Independent formation of carbohydrate moieties in the mannoprotein molecule. In *Biochimica et Biophysica Acta*, 1976, vol. 428, p. 583-590.

Ohlasy:

1. [1.1] DEL BARRIO-GALAN, Ruben - MEDEL-MARABOLI, Marcela - PENA-NEIRA, Alvaro. Effect of different ageing techniques on the polysaccharide and phenolic composition and sensorial characteristics of Chardonnay white wines fermented with different selected *Saccharomyces Cerevisiae* yeast strains. In *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. ISSN 1438-2377, 2016, vol. 242, no. 7, pp. 1069-1085., Registrované v: WOS
2. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA334 FARKAŠ, Vladimír. Biosynthesis of cell walls in fungi. In *Microbiological Reviews*, 1979, vol.43, p. 117-144. ISSN 0146-0749. Dostupné na: <https://doi.org/10.1002/yea.1486>

Ohlasy:

1. [1.1] AUXIER, Benjamin - BAZZICALUPO, Anna - BETZ, Emily - DEE, Jaclyn M. - LE RENARD, Ludovic - ROUSHDY, Mohamed M. - SCHWARTZ, Cameron - BERBEE, Mary. No place among the living: phylogenetic considerations place the Palaeozoic fossil *T. protuberans* in Fungi but not in *Dikarya*. A comment on M. Smith (2016). In *BOTANICAL JOURNAL OF THE LINNEAN SOCIETY*. ISSN 0024-4074, 2016, vol. 182, no. 4, pp. 723-728., Registrované v: WOS
2. [1.1] BAI, Zhen - MA, Qiang - DAI, Yucheng - YUAN, Haisheng - YE, Ji - YU, Wantai. Spatial Heterogeneity of SOM Concentrations Associated with White-rot Versus Brown-rot Wood Decay. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] BARTNICKI-GARCIA, Salomon. Manfred Girbardt and Charles Bracker: outstanding pioneers in fungal microscopy. In *NATURE REVIEWS MICROBIOLOGY*. ISSN 1740-1526, 2015, vol. 13, no. 1, pp. 52-57., Registrované v: WOS
4. [1.1] DUY QUANG PHAM - BRYANT, Saffron J. - CHEESEMAN, Samuel - HUANG, Louisa Z. Y. - BRYANT, Gary - DUPONT, Madeleine F. - CHAPMAN, James - BERNDT, Christopher C. - VONGSVIVUT, Jitraporn (Pimm) - CRAWFORD, Russell J. - TRUONG, Vi Khanh - ANG, Andrew S. M. - ELBOURNE, Aaron. Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms. In *NANOSCALE*. ISSN 2040-3364, 2020, vol. 12, no. 38, pp. 19888-19904. Dostupné na: <https://doi.org/10.1039/d0nr05617k>., Registrované v: WOS
5. [1.1] ENE, Iuliana V. - WALKER, Louise A. - SCHIAVONE, Marion - LEE, Keunsook K. - MARTIN-YKEN, Helene - DAGUE, Etienne - GOW, Neil A. R. - MUNRO, Carol A. - BROWN, Alistair J. P. Cell Wall Remodeling Enzymes Modulate Fungal Cell Wall Elasticity and Osmotic Stress Resistance. In *MBIO*. ISSN 2150-7511, 2015, vol. 6, no. 4, pp., Registrované v: WOS
6. [1.1] HE, Ronglin - GUO, Wei - ZHANG, Dongyuan. An ethanolamine kinase Eki1 affects radial growth and cell wall integrity in *Trichoderma reesei*. In *FEMS MICROBIOLOGY LETTERS*. ISSN 0378-1097, 2015, vol. 362, no. 17, pp., Registrované v: WOS
7. [1.1] HOSHI, Toru - YAMAZAKI, Kazuyoshi - SATO, Yuki -

SHIDA, Takaya - AOYAGI, Takao. Production of hollow-type spherical bacterial cellulose as a controlled release device by newly designed floating cultivation. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 10, pp., Registrované v: WOS

8. [1.1] KORENKOVA, Lucia - URIK, Martin. Biosorbents. In BIOMATERIALS AS ADSORBENTS FOR METAL(LOID) WATER POLLUTANTS A REVIEW, 2017, vol., no., pp. 12-36., Registrované v: WOS

9. [1.1] NIU, Xin - LIU, Zhonghua - ZHOU, Yajun - WANG, Jun - ZHANG, Wenming - YUAN, Sheng. Stipe cell wall architecture varies with the stipe elongation of the mushroom *Coprinopsis cinerea*. In FUNGAL BIOLOGY. ISSN 1878-6146, 2015, vol. 119, no. 10, pp. 946-956., Registrované v: WOS

10. [1.1] OJAGHIAN, Mohammad Reza - ZHANG, Jing-Ze - XIE, Guan-Lin - WANG, Qi - LI, Xiao-Lin - GUO, De-Ping. Efficacy of UV-C radiation in inducing systemic acquired resistance against storage carrot rot caused by *Sclerotinia sclerotiorum*. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2017, vol. 130, no., pp. 94-102., Registrované v: WOS

11. [1.1] OJAGHIAN, Seyedmohammadreza - WANG, Ling - XIE, Guan-Lin - ZHANG, Jing-Ze. Inhibitory efficacy of different essential oils against storage carrot rot with antifungal and resistance-inducing potential. In JOURNAL OF PHYTOPATHOLOGY. ISSN 0931-1785, 2019, vol. 167, no. 9, pp. 490-500., Registrované v: WOS

12. [1.1] RIBEIRO, Marcela Suriani - DE PAULA, Renato Graciano - VOLTAN, Aline Raquel - DE CASTRO, Raphaela Georg - CARRARO, Claudia Batista - DE ASSIS, Leandro Jose - STEINDORFF, Andrei Stecca - GOLDMAN, Gustavo Henrique - SILVA, Roberto Nascimento - ULHOA, Cirano Jose - MONTEIRO, Valdirene Neves. Endo-beta-1,3-glucanase (GH16 Family) from *Trichoderma harzianum* Participates in Cell Wall Biogenesis but Is Not Essential for Antagonism Against Plant Pathogens. In BIOMOLECULES, 2019, vol. 9, no. 12, pp., Registrované v: WOS

13. [1.1] ROBERTI, R. - GALLETTI, S. - BURZI, P. L. - RIGHINI, H. - CETRULLO, S. - PEREZ, C. Induction of defence responses in zucchini (*Cucurbita pepo*) by *Anabaena* sp water extract. In BIOLOGICAL CONTROL. ISSN 1049-9644, 2015, vol. 82, no., pp. 61-68., Registrované v: WOS

14. [1.1] RODRIGUEZ-IGLESIAS, Aroa - SCHMOLL, Monika. Protoplast Transformation for Genome Manipulation in Fungi. In GENETIC TRANSFORMATION SYSTEMS IN FUNGI, VOL 1. ISSN 2198-7777, 2015, vol., no., pp. 21-40., Registrované v: WOS

15. [1.1] TAKEDA, Minoru - KONDO, Keiko - SANDA, Shuhei - KAN, Daisuke - BORGES, Isabele Kazahaya - SUZUKI, Ichiro - KATAHIRA, Masato. Enzymatic degradation of beta-1,4-linked N-acetylglucosaminoglycan prepared from *Thiothrix nivea*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 323-328., Registrované v: WOS

16. [1.1] XU, Ting - ZHU, Tianhui - LI, Shujiang. beta-1,3-1,4-glucanase gene from *Bacillus velezensis* ZJ20 exerts antifungal effect on plant pathogenic fungi. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2016, vol. 32, no. 2, pp., Registrované v: WOS

17. [1.1] YADAV, Alka - KON, Kateryna - KRATOSOVA, Gabriela - DURAN, Nelson - INGLE, Avinash P. - RAI, Mahendra. Fungi as an efficient

mycosystem for the synthesis of metal nanoparticles: progress and key aspects of research. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2015, vol. 37, no. 11, pp. 2099-2120., Registrované v: WOS

18. [1.2] BUCK, Kenneth William. Fungal virology An overview. In Fungal Virology, 2018-01-01, pp. 1-84., Registrované v: SCOPUS

19. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

20. [1.2] HALÁSZ, Anna - LÁSZTITY, Radomir. Use of yeast biomass in food production. In Use of Yeast Biomass in Food Production, 2017-01-01, pp. 1-312., Registrované v: SCOPUS

ADCA335 FARKAŠ, Vladimír - SULOVÁ, Zdena - STRATILOVÁ, Eva - HANNA, R. - MACLACHLAN, G. Cleavage of xyloglucan by nasturtium seed xyloglucanase and transglycosylation to xyloglucan subunit oligosaccharides. In *Archives of Biochemistry and Biophysics*, 1992, vol. 298, p. 365-370. ISSN 0003-9861. Dostupné na: [https://doi.org/10.1016/0003-9861\(92\)90423-T](https://doi.org/10.1016/0003-9861(92)90423-T)

Ohlasy:

1. [1.1] FRANKOVA, Lenka - FRY, Stephen C. Activity and Action of Cell-Wall Transglycanases. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 165-192. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_10., Registrované v: WOS

2. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované v: WOS

3. [1.1] KUSHWAH, Sunita - BANASIAK, Alicja - NISHIKUBO, Nobuyuki - DERBA-MACELUCH, Marta - MAJDA, Mateusz - ENDO, Satoshi - KUMAR, Vikash - GOMEZ, Leonardo - GORZSAS, Andras - MCQUEEN-MASON, Simon - BRAAM, Janet - SUNDBERG, Bjorn - MELLEROWICZ, Ewa J. Arabidopsis XTH4 and XTH9 Contribute to Wood Cell Expansion and Secondary Wall Formation(1)([OPEN]). In PLANT PHYSIOLOGY. ISSN 0032-0889, 2020, vol. 182, no. 4, pp. 1946-1965. Dostupné na: <https://doi.org/10.1104/pp.19.01529>., Registrované v: WOS

4. [1.1] NGUYEN-PHAN, Tu C. - FRY, Stephen C. Functional and chemical characterization of XAF: a heat-stable plant polymer that activates xyloglucan endotransglucosylase/hydrolase (XTH). In ANNALS OF BOTANY. ISSN 0305-7364, 2019, vol. 124, no. 1, pp. 131-147., Registrované v: WOS

5. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS

6. [1.1] SHARPLES, Sandra C. - NGUYEN-PHAN, Tu C. - FRY, Stephen C. Xyloglucan endotransglucosylase/hydrolases (XTHs) are inactivated by binding to glass and cellulosic surfaces, and released in active form by a heat-stable polymer from cauliflower florets. In JOURNAL OF PLANT

PHYSIOLOGY. ISSN 0176-1617, 2017, vol. 218, no., pp. 135-143.,

Registrované v: WOS

7. [1.1] TAVARES, EQP (TAVARES, Eveline Q. P.); BUCKERIDGE, MS (BUCKERIDGE, Marcos S.): Do plant cell walls have a code?. In: PLANT SCIENCE Volume: 241 Pages: 286-294, Registrované v: WOS

8. [1.1] YOKOYAMA, Ryusuke. A Genomic Perspective on the Evolutionary Diversity of the Plant Cell Wall. In PLANTS-BASEL, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091195>., Registrované v: WOS

ADCA336 FARKAŠ, Vladimír - SULOVA, Zdena - LEHOTSKÝ, Ján. Effect of light on the concentration of adenine nucleotides in *Trichoderma viride*. In *Journal of General Microbiology*, 1985, vol. 131, p. 317-320.

Ohlasy:

1. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS

2. [1.2] HINTERDOBLER, Wolfgang - SCHUSTER, André - TISCH, Doris - ÖZKAN, Ezgi - BAZAFKAN, Hoda - SCHINNERL, Johann - BRECKER, Lothar - BÖHMDORFER, Stefan - SCHMOLL, Monika. The role of PKAc1 in gene regulation and trichodimerol production in *Trichoderma reesei*. In Fungal Biology and Biotechnology, 2019-09-10, 6, 1, pp., Registrované v: SCOPUS

ADCA337 FARKAŠ, Vladimír - MACLACHLAN, G. Fucosylation of exogenous xyloglucans by pea microsomal membranes. In *Archives of Biochemistry and Biophysics*, 1988, vol. 264, p. 48-53. ISSN 0003-9861. Dostupné na: [https://doi.org/10.1016/0003-9861\(88\)90568-1](https://doi.org/10.1016/0003-9861(88)90568-1)

Ohlasy:

1. [1.1] SOTO, Maria J. - URBANOWICZ, Breeanna R. - HAHN, Michael G. Plant Fucosyltransferases and the Emerging Biological Importance of Fucosylated Plant Structures. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, 2019, vol. 38, no. 4, pp. 327-338., Registrované v: WOS

ADCA338 FARKAŠ, Vladimír. Fungal cell walls: their structure, biosynthesis and biotechnological aspects. In *Acta Biotechnologica*. Dostupné na: <https://doi.org/10.1002/abio.370100303>

Ohlasy:

1. [1.1] BARBOSA, Ana Isabel - COUTINHO, Ana Joyce - COSTA LIMA, Sofia A. - REIS, Salette. Marine Polysaccharides in Pharmaceutical Applications: Fucooidan and Chitosan as Key Players in the Drug Delivery Match Field. In MARINE DRUGS, 2019, vol. 17, no. 12, pp., Registrované v: WOS

2. [1.1] CORINALDESI, Cinzia - BARONE, Giulio - MARCELLINI, Francesca - DELL'ANNO, Antonio - DANOVARO, Roberto. Marine Microbial-Derived Molecules and Their Potential Use in Cosmeceutical and Cosmetic Products. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 4, pp., Registrované v: WOS

3. [1.1] USMAN, Adil - KHALID, Sundas - USMAN, Atif - HUSSAIN,

Zakir - WANG, Yanmei. Algal Polysaccharides, Novel Application, and Outlook. In ALGAE BASED POLYMERS, BLENDS, AND COMPOSITES: CHEMISTRY, BIOTECHNOLOGY AND MATERIALS SCIENCES, 2017, vol., no., pp. 115-153., Registrované v: WOS

4. [1.1] VILELA, Raquel - MENDOZA, Leonel. Human Pathogenic Entomophthorales. In CLINICAL MICROBIOLOGY REVIEWS. ISSN 0893-8512, 2018, vol. 31, no. 4, pp., Registrované v: WOS

ADCA339 FARKAŠ, Vladimír - ŠESTÁK, Sergej - GREŠÍK, Miroslav - KOLAROVA, Nadežda - LABUDOVA, Ivica - BAUER, Štefan. Induction of cellulase in *Trichoderma reesei* grown on lactose. In *Acta Biotechnologica*, 1987, vol. 7, p. 425-429. Dostupné na: <https://doi.org/10.1002/abio.370070510>

Ohlasy:

1. [1.1] CALLOW, Nicholas V. - RAY, Christopher S. - KELBLY, Matthew A. - JU, Lu-Kwang. Nutrient control for stationary phase cellulase production in *Trichoderma reesei* Rut C-30. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 82, no., pp. 8-14., Registrované v: WOS

2. [1.1] IVANOVA, Christa - RAMONI, Jonas - AOUM, Thiziri - FRISCHMANN, Alexa - SEIBOTH, Bernhard - BAKER, Scott E. - LE CROM, Stephane - LEMOINE, Sophie - MARGEOT, Antoine - BIDARD, Frederique. Genome sequencing and transcriptome analysis of *Trichoderma reesei* QM9978 strain reveals a distal chromosome translocation to be responsible for loss of vib1 expression and loss of cellulase induction. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

3. [1.1] PIRAYRE, Aurelie - DUVAL, Laurent - BLUGEON, Corinne - FIRMO, Cyril - PERRIN, Sandrine - JOURDIER, Etienne - MARGEOT, Antoine - BIDARD, Frederique. Glucose-lactose mixture feeds in industry-like conditions: a gene regulatory network analysis on the hyperproducing *Trichoderma reesei* strain Rut-C30. In BMC GENOMICS. ISSN 1471-2164, 2020, vol. 21, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s12864-020-07281-8>, Registrované v: WOS

4. [1.1] VIEIRA NOGUEIRA, Karoline Maria - COSTA, Mariana do Nascimento - DE PAULA, Renato Graciano - MENDONCA-NATIVIDADE, Flavia Costa - RICCI-AZEVEDO, Rafael - SILVA, Roberto Nascimento. Evidence of cAMP involvement in cellobiohydrolase expression and secretion by *Trichoderma reesei* in presence of the inducer sophorose. In BMC MICROBIOLOGY. ISSN 1471-2180, 2015, vol. 15, no., pp., Registrované v: WOS

ADCA340 FARKAŠ, Vladimír - SVOBODA, A. - BAUER, Štefan. Inhibitory effect of 2-deoxy-D-glucose on the formation of the cell wall in yeast protoplasts. In *Journal of Bacteriology*, 1969, vol.98, p. 744-748. ISSN 0021-9193.

Ohlasy:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>, Registrované v: WOS

2. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. Genes Controlling 2-deoxyglucose Induced

Lysis and Formation of Reactive Oxygen Species in *Schizosaccharomyces pombe*. In *POLISH JOURNAL OF MICROBIOLOGY*. ISSN 1733-1331, 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS

ADCA341 FARKAŠ, Vladimír - LIŠKOVÁ, Mária - BIELY, Peter. Novel media for detection of microbial producers of cellulase and xylanase. In *FEMS Microbiology Letters*, 1985, vol.28, p. 137-140. ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.1985.tb00779.x>

Ohlasy:

1. [1.1] AKAZAWA, Shin-ichi - IKARASHI, Yuki - YARIMIZU, Jun - YOKOYAMA, Keisuke - KOBAYASHI, Tomoya - NAKAZAWA, Hikaru - OGASAWARA, Wataru - MORIKAWA, Yasushi. Characterization of two endoglucanases for the classification of the earthworm, *Eisenia fetida* Waki. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2016, vol. 80, no. 1, pp. 55-66., Registrované v: WOS
2. [1.1] MENGHIU, Gheorghita - OSTAFE, Vasile - PRODANOVIC, Radivoje - FISCHER, Rainer - OSTAFE, Raluca. Biochemical characterization of chitinase A from *Bacillus licheniformis* DSM8785 expressed in *Pichia pastoris* KM71H. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2019, vol. 154, no., pp. 25-32., Registrované v: WOS
3. [1.1] NEHAD, E. A. - YONESS, M. F. - REEM, A. A. Optimization and purification of cellulase produced by *Penicillium decumbens* and its application. In *EGYPTIAN PHARMACEUTICAL JOURNAL*. ISSN 1687-4315, 2019, vol. 18, no. 4, pp. 391-402., Registrované v: WOS
4. [1.1] SHRIVASTAVA, Pooja - KUMAR, Rajesh - YANDIGERI, Mahesh S. - MALVIYA, Nityanand - ARORA, Dilip K. Isolation and Characterization of Streptomyces with Plant Growth Promoting Potential from Mangrove Ecosystem. In *POLISH JOURNAL OF MICROBIOLOGY*. ISSN 1733-1331, 2015, vol. 64, no. 4, pp. 339-349., Registrované v: WOS
5. [1.1] SHRIVASTAVA, P. - KUMAR, R. - YANDIGERI, M. S. In vitro biocontrol activity of halotolerant *Streptomyces aureofaciens* K20: A potent antagonist against *Macrophomina phaseolina* (Tassi) Goid. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2017, vol. 24, no. 1, pp. 192-199., Registrované v: WOS
6. [1.1] THAMPI, Anusree - BHAI, R. Suseela. Rhizosphere actinobacteria for combating *Phytophthora capsici* and *Sclerotium rolfsii*, the major soil borne pathogens of black pepper (*Piper nigrum* L.). In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2017, vol. 109, no., pp. 1-13., Registrované v: WOS
7. [1.2] CHROUQI, L. - OUAHMANE, L. - JADRANE, I. - KOUSSA, T. - AL FEDDY, M. N. Screening of soil rhizobacteria isolated from wheat plants grown in the Marrakech region (Morocco, North Africa) for plant growth promoting activities. In *Journal of Materials and Environmental Science*. ISSN 20282508, 2017-01-01, 8, 9, pp. 3382-3390., Registrované v: SCOPUS

ADCA342 FARKAŠ, Vladimír - LABUDOVOÁ, I. - BAUER, Štefan - FERENCZY, L. Preparation of mutants of *Trichoderma viride* with increased production of cellulase. In *Folia microbiologica*, 1981, vol. 26, p. 129-132. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02927368>

Ohlasy:

1. [1.1] GRYSHYNA, Anna - KAUTTO, Liisa - PETERSON, Robyn - NEVALAINEN, Helena. On the Safety of Filamentous Fungi with Special Emphasis on *Trichoderma reesei* and Products Made by Recombinant Means. In *GENE EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND APPLICATIONS*. ISSN 2198-7777, 2016, vol., no., pp. 441-457., Registrované v: WOS
2. [1.2] NEVALAINEN, K. M. Helena - PENTTILÄ, Merja E. - HARKKI, Anu - TEERI, Tuula T. - KNOWLES, Jonathan. The molecular biology of *Trichoderma* and its application to the expression of both homologous and heterologous genes. In *Molecular Industrial Mycology: Systems and Applications for Filamentous Fungi*, 2017-01-01, pp. 129-148., Registrované v: SCOPUS

ADCA343 FARKAŠ, Vladimír - TAKEO, Kanji - MACEKOVÁ, Danka - OHKUSU, Misako - YOSHIDA, Soichi - SIPICZKI, Matthias. Secondary cell wall formation in *Cryptococcus neoformans* as a rescue mechanism against acid-induced autolysis. Danka Maceková, Misako Ohkusu, Soichi Yoshida, Matthias Sipiczki. In *FEMS Yeast Research*, 2009, vol.9, ., p.311-320. (2008: 2.579 - IF, Q1 - JCR, 1.456 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1111/j.1567-1364.2008.00478.x>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
2. [1.1] UENO, Keigo - OTANI, Yoshiko - YANAGIHARA, Nao - NAKAMURA, Takumi - SHIMIZU, Kiminori - YAMAGOE, Satoshi - MIYAZAKI, Yoshitsugu. *Cryptococcus gattii* alters immunostimulatory potential in response to the environment. In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 8, pp., Registrované v: WOS

ADCA344 FARKAŠ, Vladimír - SVOBODA, Aleš - BAUER, Š. Secretion of cell-wall glycoproteins by yeast protoplasts: effect of 2-deoxy-D-glucose and cycloheximide. In *Biochemical Journal*, 1970, vol.118, no., p.755-758. ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/bj1180755>

Ohlasy:

1. [1.1] LE POGAM, Pierre - DOUE, Mickael - LE PAGE, Yann - HABAUZIT, Denis - ZHADOBOV, Maxim - SAULEAU, Ronan - LE DREAN, Yves - RONDEAU, David. Untargeted Metabolomics Reveal Lipid Alterations upon 2-Deoxyglucose Treatment in Human HaCaT Keratinocytes. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2018, vol. 17, no. 3, pp. 1146-1157., Registrované v: WOS

ADCA345 FARKAŠ, Vladimír - AIT-MOHAND, Fairouz - STRATILOVÁ, Eva. Sensitive detection of transglycosylating activity of xyloglucan endotransglycosylase/hydrolase (XTH) after isoelectric focusing in polyacrylamide gels. In *Plant Physiology and Biochemistry : an official journal of the Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant*

Biology (Société Française de Biologie Végétale (SFBV)), 2005, vol.43, p. 431-435.
ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2005.03.006>

Ohlasy:

1. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované v: WOS

ADCA346 FARKAŠ, Vladimír - MACLACHLAN, G. Stimulation of pea 1,4-β-glucanase activity by oligosaccharides derived from xyloglucan. In *Carbohydrate Research*, 1988, vol. 184, p. 213-219. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(88\)80019-3](https://doi.org/10.1016/0008-6215(88)80019-3)

Ohlasy:

1. [1.1] FERNANDES, Joao C. - GOULAO, Luis F. - AMANCIO, Sara. Regulation of cell wall remodeling in grapevine (*Vitis vinifera* L.) callus under individual mineral stress deficiency. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2016, vol. 190, no., pp. 95-105., Registrované v: WOS
2. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] WANG, Damao - KIM, Do Hyoung - SEO, Nari - YUN, Eun Ju - AN, Hyun Joo - KIM, Jae-Han - KIM, Kyoung Heon. A Novel Glycoside Hydrolase Family 5 beta-1,3-1,6-Endoglucanase from *Saccharophagus degradans* 2-40(T) and Its Transglycosylase Activity. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2016, vol. 82, no. 14, pp. 4340-4349., Registrované v: WOS

ADCA347 FARKAŠ, Vladimír. Structure and biosynthesis of fungal cell walls: methodological approaches. In *Folia microbiologica*, 2003, vol. 48, p. 469-478. (2002: 0.979 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0015-5632.

Ohlasy:

1. [1.1] BURMUDZIJA, Adrijana - RATKOVIC, Zoran - MUSKINJA, Jovana - JANKOVIC, Nenad - RANKOVIC, Branislav - KOSANIC, Marijana - DORDEVIC, Snezana. Ferrocenyl based pyrazoline derivatives with vanillic core: synthesis and investigation of their biological properties. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 94, pp. 91420-91430., Registrované v: WOS
2. [1.1] DELSO, Ignacio - VALERO-GONZALEZ, Jessika - MARCA, Eduardo - TEJERO, Tomas - HURTADO-GUERRERO, Ramon - MERINO, Pedro. Rational Design of Glycomimetic Compounds Targeting the *Saccharomyces cerevisiae* Transglycosylase Gas2. In *CHEMICAL BIOLOGY & DRUG DESIGN*. ISSN 1747-0277, 2016, vol. 87, no. 2, pp. 163-170., Registrované v: WOS
3. [1.1] HODA, Shanu - VIJAYARAGHAVAN, Pooja. Evaluation of Antimicrobial Prospective of *Parmotrema perlatum* Hexane Extract. In

Registrované v: WOS

4. [1.1] CHEN, Yanying - ZHOU, Guoying - LIU, Junang. A major facilitator superfamily transporter in *Colletotrichum fructicola* (CfMfs1) is required for sugar transport, appressorial turgor pressure, conidiation and pathogenicity. In *FOREST PATHOLOGY*. ISSN 1437-4781, 2019, vol. 49, no. 6, pp., Registrované v: WOS

5. [1.1] JANKOVIC, Nenad - MUSKINJA, Jovana - RATKOVIC, Zoran - BUGARCIC, Zorica - RANKOVIC, Branislav - KOSANIC, Marijana - STEFANOVIC, Srdan. Solvent-free synthesis of novel vanillidene derivatives of Meldrum's acid: biological evaluation, DNA and BSA binding study. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 45, pp. 39452-39459., Registrované v: WOS

6. [1.1] JOKSIMOVIC, Nenad - BASKIC, Dejan - POPOVIC, Suzana - ZARIC, Milan - KOSANIC, Marijana - RANKOVIC, Branislav - STANOJKOVIC, Tatjana - NOVAKOVIC, Sladjana B. - DAVIDOVIC, Goran - BUGARCIC, Zorica - JANKOVIC, Nenad. Synthesis, characterization, biological activity, DNA and BSA binding study: novel copper(II) complexes with 2-hydroxy-4-aryl-4-oxo-2-butenolate. In *DALTON TRANSACTIONS*. ISSN 1477-9226, 2016, vol. 45, no. 38, pp. 15067-15077., Registrované v: WOS

7. [1.1] KOIZHAIGANOVA, Meruyert - YASA, Ihsan - GULUMSER, Gurbuz. Characterization and Antimicrobial Activity of Silver Doped Hydroxyapatite Obtained by the Microwave Method. In *MATERIALS SCIENCE-MEDZIAGOTYRA*. ISSN 1392-1320, 2016, vol. 22, no. 3, pp. 403-408., Registrované v: WOS

8. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - STANOJKOVIC, Tatjana. Biological activities of two macroalgae from Adriatic coast of Montenegro. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2015, vol. 22, no. 4, pp. 390-397., Registrované v: WOS

9. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - STANOJKOVIC, Tatjana - STOSIC, Ivana - GRUJICIC, Darko - MILOSEVIC-DJORDJEVIC, Olivera. *Lasallia pustulata* lichen as possible natural antigenotoxic, antioxidant, antimicrobial and anticancer agent. In *CYTOTECHNOLOGY*. ISSN 0920-9069, 2016, vol. 68, no. 4, pp. 999-1008., Registrované v: WOS

10. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - RANCIC, Aleksandar - STANOJKOVIC, Tatjana. Evaluation of metal concentration and antioxidant, antimicrobial, and anticancer potentials of two edible mushrooms *Lactarius deliciosus* and *Macrolepiota procera*. In *JOURNAL OF FOOD AND DRUG ANALYSIS*. ISSN 1021-9498, 2016, vol. 24, no. 3, pp. 477-484., Registrované v: WOS

11. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - RANCIC, Aleksandar - STANOJKOVIC, Tatjana. Evaluation of metal contents and bioactivity of two edible mushrooms *Agaricus campestris* and *Boletus edulis*. In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2017, vol. 29, no. 2, pp. 98-103., Registrované v: WOS

12. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - STANOJKOVIC, Tatjana. Brown macroalgae from the Adriatic Sea as a promising source of bioactive nutrients. In *JOURNAL OF FOOD*

MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2019, vol. 13, no. 1, pp. 330-338., Registrované v: WOS

13. [1.1] KUCHERYAVYKH, Lilia Y. - KUCHERYAVYKH, Yuriy V. - WASHINGTON, A. Valance - INYUSHIN, Mikhail Y. Amyloid Beta Peptide Is Released during Thrombosis in the Skin. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 6, pp.,

Registrované v: WOS

14. [1.1] MUSKINJA, Jovana - BURMUDZIJA, Adrijana - RATKOVIC, Zoran - RANKOVIC, Branislav - KOSANIC, Marijana - BOGDANOVIC, Goran A. - NOVAKOVIC, Sladana B. Ferrocenyl chalcones with O-alkylated vanillins: synthesis, spectral characterization, microbiological evaluation, and single-crystal X-ray analysis. In MEDICINAL CHEMISTRY RESEARCH. ISSN 1054-2523, 2016, vol. 25, no. 9, pp. 1744-1753., Registrované v: WOS

15. [1.1] PATRICHE, Simona - GHINEA, Ioana Otilia - ADAM, Gigi - GURAU, Gabriela - FURDUI, Bianca - DINICA, Rodica Mihaela - REBEGEA, Laura-Florentina - LUPOAE, Mariana. Characterization of Bioactive Compounds from Romanian Cetraria islandica (L) Ach. In REVISTA DE CHIMIE. ISSN 0034-7752, 2019, vol. 70, no. 6, pp. 2186-2191., Registrované v: WOS

16. [1.1] SEKARA, Agnieszka - KALISZ, Andrzej - GRABOWSKA, Aneta - SIWULSKI, Marek. Auricularia spp. mushrooms as Novel Food and therapeutic agents a review. In SYDOWIA. ISSN 0082-0598, 2015, vol. 67, no., pp. 1-10., Registrované v: WOS

17. [1.1] YOUNIS, Ahmed M. - ABDEL-AZIZ, Marwa M. - YOSRI, Mohamed. Evaluation of Some Biological Applications of Pleurotus citrinopileatus and Boletus edulis Fruiting Bodies. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2019, vol. 20, no. 15, pp. 1309-1320., Registrované v: WOS

18. [1.2] AL-MAOULA, Maarb S. - DWAISH, Ahmed S. Anti-dermatophytes activity of some algal extracts isolated from Baghdad City-Iraq. In Research Journal of Pharmacy and Technology. ISSN 09743618, 2018-12-01, 11, 12, pp. 5449-5454., Registrované v: SCOPUS

19. [1.2] DWAISH, Ahmed S. - YOUSIF, Dina Y. Mohammed - ALWAN, Adel Hamdan - LEFTA, Siham N. Anti-dermatophytes activity of Macroalgal extracts (Chara vulgaris) isolated from Baghdad City-Iraq. In Journal of Global Pharma Technology, 2018-01-01, 10, 3, pp. 759-766., Registrované v: SCOPUS

20. [1.2] KOSANIĆ, Marijana - RANKOVIC, Branislav. Lichen secondary metabolites as potential antibiotic agents. In Lichen Secondary Metabolites: Bioactive Properties and Pharmaceutical Potential, 2015-01-01, pp. 81-104., Registrované v: SCOPUS

ADCA348 FEATHER, M.S. - MOSSINE, V. - HIRSCH, Ján. The use of aminoguanidine to trap and measure dicarbonyl intermediates produced during the Maillard reaction. In LEE, T.C. - KIM, H.J. (eds.). *Chemical Markers for Processed and Stored Foods, Book Series: ACS Symposium Series*. - Washington : American Chemical Society, 1996, 1996, vol. 631, p. 24-31. Dostupné na: <https://doi.org/10.1021/bk-1996-0631.ch003>

Ohlasy:

1. [1.1] SINGLA, Rajeev K. - DUBEY, Ashok K. - AMEEN, Sara M. - MONTALTO, Shana - PARISI, Salvatore. The Control of Maillard Reaction in

Processed Foods. Analytical Testing Methods for the Determination of 5-Hydroxymethylfurfural. In ANALYTICAL METHODS FOR THE ASSESSMENT OF MAILLARD REACTIONS IN FOODS. ISSN 2191-5407, 2018, vol., no., pp. 15-26., Registrované v: WOS

2. [1.1] SINGLA, Rajeev K. - DUBEY, Ashok K. - AMEEN, Sara M. - MONTALTO, Shana - PARISI, Salvatore. Melanoidins and Browning Reactions in Processed Foods. Quantitative Determinations, Colour Measurement, and Sensorial Assessment. In ANALYTICAL METHODS FOR THE ASSESSMENT OF MAILLARD REACTIONS IN FOODS. ISSN 2191-5407, 2018, vol., no., pp. 47-54., Registrované v: WOS

ADCA349 FEDORONKO, M - KÖNIGSTEIN, Jozef - LINEK, K.. Electroreduction of methylglyoxal. In *Collection of Czechoslovak Chemical Communications*, 1967, vol. 32, p. 1497-1504. ISSN 0010-0765.

Ohlasy:

1. [1.1] WU, Xiaobo - ZHANG, Wenjuan - MORALES-VERDEJO, Cesar - SHENG, Yingying - BELEN CAMARADA, Maria - CHEN, Li - HUANG, Zhong - WEN, Yangping. Nanohybrid sensor for simple, cheap, and sensitive electrochemical recognition and detection of methylglyoxal as chemical markers. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 839, no., pp. 177-186., Registrované v: WOS

ADCA350 FEDORONKO, M - KÖNIGSTEIN, J. - LINEK, K.. Electroreduction of diacetyl and acetoin. In *Collection of Czechoslovak Chemical Communications*, 1967, vol. 32, p. 3998-4003. ISSN 0010-0765.

Ohlasy:

1. [1.1] OCHOA-GOMEZ, Jose R. - FERNANDEZ-CARRETERO, Francisco - RIO-PEREZ, Francisca - GARCIA-LUIS, Alberto - RONCAL, Tomas - GARCIA-SUAREZ, Eduardo J. Electrosynthesis of 2,3-butanediol and methyl ethyl ketone from acetoin in flow cells. In GREEN CHEMISTRY. ISSN 1463-9262, 2019, vol. 21, no. 1, pp. 164-177., Registrované v: WOS

ADCA351 FEDORONKO, Michal - KONIGSTEIN, Jozef - LINEK, Kazimír. Polarographic and preparative electroreduction of D,L-glyceraldehyde and dihydroxyacetone. In *Collection of Czechoslovak Chemical Communications*, 1965, vol. 30, p. 4297-4306. ISSN 0010-0765.

Ohlasy:

1. [1.1] JAMES, Olusola O. - SAUTER, Waldemer - SCHROEDER, Uwe. Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to Valerolactone. In CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 9, pp. 2015-2022., Registrované v: WOS

2. [1.1] JAMES, Olusola O. - SAUTER, Waldemar - SCHROEDER, Uwe. Towards selective electrochemical conversion of glycerol to 1,3-propanediol. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 20, pp. 10818-10827., Registrované v: WOS

ADCA352 FERENČÍK, Miroslav - KOTULOVÁ, D. - MASLER, Ladislav - BERGENDI, L. - ŠANDULA, Jozef - ŠTEFANOVIČ, J. Modulatory effect of glucans on the functional and biochemical activities of guinea-pig macrophages. In *Methods and*

Findings in Experimental and Clinical Pharmacology, 1986, vol.8, p.163-166. ISSN 0379-0355.

Ohlasy:

1. [1.1] EYIGOR, Aysen - BAHADORI, Fatemeh - YENIGUN, Vildan Betul - EROGLU, Mehmet Sayip. Beta-Glucan based temperature responsive hydrogels for 5-ASA delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 201, no., pp. 454-463., Registrované v: WOS
2. [1.1] VETVICKA, V. - SIMA, P. Various roles of beta-glucan in invertebrates. In ISJ-INVERTEBRATE SURVIVAL JOURNAL. ISSN 1824-307X, 2017, vol. 14, no., pp. 488-493., Registrované v: WOS

ADCA353 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana - TOMČÍK, Peter - GEMEINER, Peter - TKÁČ, Ján. A hyaluronic acid dispersed carbon nanotube electrode used for a mediatorless NADH sensing and biosensing. In *Talanta*, 2011, vol. 84, p. 355-361. (2010: 3.722 - IF, Q1 - JCR, 1.466 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2011.01.004>

Ohlasy:

1. [1.1] BRAVO, I. - GARCIA-MENDIOLA, T. - REVENGA-PARRA, M. - PARIENTE, F. - LORENZO, E. Diazonium salt click chemistry based multiwall carbon nanotube electrocatalytic platforms. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 211, no., pp. 559-568., Registrované v: WOS
2. [1.1] BURLAKA, Olga - YEMETS, Alla - PIRKO, Yaroslav - BLUME, Yaroslav. Non-covalent Functionalization of Carbon Nanotubes for Efficient Gene Delivery. In NANOPHYSICS, NANOPHOTONICS, SURFACE STUDIES, AND APPLICATIONS. ISSN 0930-8989, 2016, vol. 183, no., pp. 355-370., Registrované v: WOS
3. [1.1] CAI, Zhixiang - ZHANG, Hongbin - WEI, Yue - GONG, Fengsong. Hyaluronan-Inorganic Nanohybrid Materials for Biomedical Applications. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 6, pp. 1677-1696., Registrované v: WOS
4. [1.1] EVTUGYN, G. A. Biosensor to Ensure Food Security and Environmental Control. In BIOSENSORS FOR SUSTAINABLE FOOD NEW OPPORTUNITIES AND TECHNICAL CHALLENGES. ISSN 0166-526X, 2016, vol. 74, no., pp. 121-152., Registrované v: WOS
5. [1.1] GESSEI, Tomoko - ARAKAWA, Takahiro - KUDO, Hiroyuki - MITSUBAYASHI, Kohji. A fiber-optic sorbitol biosensor based on NADH fluorescence detection toward rapid diagnosis of diabetic complications. In ANALYST. ISSN 0003-2654, 2015, vol. 140, no. 18, pp. 6335-6342., Registrované v: WOS
6. [1.1] HIKICHI, Atsushi - MUGURUMA, Hitoshi - INOUE, Hitoshi - OHSAWA, Tatsuya. Selective Determination of Nicotinamide Adenine Dinucleotide in the Presence of Ascorbic Acid and Uric Acid at a Long-Length Carbon Nanotube Electrode. In ELECTROCHEMISTRY. ISSN 1344-3542, 2017, vol. 85, no. 1, pp. 13-16., Registrované v: WOS
7. [1.1] CHEN, Yan - YIN, Lingling - LI, YiWei - MA, Yaohong - YANG, Junhui - MENG, Qingjun - SHI, Jianguo. Determination of Reduced Nicotinamide Adenine Dinucleotide with a Protamine Multiwalled Carbon Nanotube Electrode. In ANALYTICAL LETTERS. ISSN 0003-2719, 2016, vol.

- 49, no. 2, pp. 258-268., Registrované v: WOS
8. [1.1] INOUE, Yuki - HOSHINO, Tatsuya - MUGURUMA, Hitoshi. Electrochemical Behavior and Analytical Applications of Electronically Type-Sorted Carbon Nanotube Electrode. In SENSORS AND MATERIALS. ISSN 0914-4935, 2016, vol. 28, no. 1, pp. 61-73., Registrované v: WOS
9. [1.1] INOUE, Yuki - OKAZAKI, Yuta - MUGURUMA, Hitoshi - INOUE, Hitoshi - OHSAWA, Tatsuya. Simultaneous Electrochemical Determination of Nicotinamide Adenine Dinucleotide and Ascorbic Acid at Carbon Nanotube Electrode. In ANALYTICAL SCIENCES. ISSN 0910-6340, 2016, vol. 32, no. 7, pp. 797-799., Registrované v: WOS
10. [1.1] ISTRATE, Oana-Maria - ROTARIU, Lucian - BALA, Camelia. Electrochemical determination of NADH using screen printed carbon electrodes modified with reduced graphene oxide and poly(allylamine hydrochloride). In MICROCHIMICA ACTA. ISSN 0026-3672, 2016, vol. 183, no. 1, pp. 57-65., Registrované v: WOS
11. [1.1] MAC KENNA, Nicky - CALVERT, Paul - MORRIN, Aoife - WALLACE, Gordon G. - MOULTON, Simon E. Electro-stimulated release from a reduced graphene oxide composite hydrogel. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 12, pp. 2530-2537., Registrované v: WOS
12. [1.1] POHANKA, Miroslav. Biosensors containing acetylcholinesterase and butyrylcholinesterase as recognition tools for detection of various compounds. In CHEMICAL PAPERS. ISSN 0366-6352, 2015, vol. 69, no. 1, pp. 4-16., Registrované v: WOS
13. [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/1568026620666200306131416>., Registrované v: WOS
14. [1.1] SIMONAZZI, Analía - CID, Alicia G. - VILLEGAS, Mercedes - ROMERO, Analía I. - PALMA, Santiago D. - BERMUDEZ, Jose M. Nanotechnology applications in drug controlled release. In DRUG TARGETING AND STIMULI SENSITIVE DRUG DELIVERY SYSTEMS, 2018, vol., no., pp. 81-116., Registrované v: WOS
15. [1.1] XU, Jiamei - SU, Wenqiong - LI, Zonglin - LIU, Wenjia - LIU, Shuopeng - DING, Xianting. A modularized and flexible sensor based on MWCNT/PDMS composite film for on-site electrochemical analysis. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2017, vol. 806, no., pp. 68-74., Registrované v: WOS
16. [1.1] ZHENG, Ting - ABADI, Parisa Pour Shahid Saeed - SEO, Jungmok - CHA, Byung-Hyun - MICCOLI, Beatrice - LI, Yi-Chen - PARK, Kijun - PARK, Sunghyun - CHOI, Seon-Jin - BAYANIAHANGAR, Rasoul - ZHANG, Dongxing - LEE, Soo-Hong - LEE, Chang-Kee - KHADEMHOSEINI, Ali - SHIN, Su Ryon. Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 23, pp. 20615-20627., Registrované v: WOS
17. [1.1] ZHENG, Ting - WANG, Xiaodong - LIU, Yingyi -

BAYANIAHANGAR, Rasoul - LI, Hongbin - LU, Chunrui - XU, Nuo - YAO, Zhaoding - QIAO, Yingjie - ZHANG, Dongxing - ABADI, Parisa Pour Shahid Saeed. Polyaniline-decorated hyaluronic acid-carbon nanotube hybrid microfiber as a flexible supercapacitor electrode material. In CARBON. ISSN 0008-6223, 2020, vol. 159, no., pp. 65-73. Dostupné na:

<https://doi.org/10.1016/j.carbon.2019.11.074>., Registrované v: WOS

18. [1.1] ZHENG, Ting - XU, Nuo - KAN, Qi - LI, Hongbin - LU, Chunrui - ZHANG, Peng - LI, Xiaodan - ZHANG, Dongxing - WANG, Xiaodong. Wet-Spinning Assembly of Continuous, Highly Stable Hyaluronic/Multiwalled Carbon Nanotube Hybrid Microfibers. In POLYMERS, 2019, vol. 11, no. 5, pp., Registrované v: WOS

19. [1.1] ZHENG, Yingying - MONTY, Jonathan - LINHARDT, Robert J. Polysaccharide-based nanocomposites and their applications. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 405, no., pp. 23-32., Registrované v: WOS

20. [3.1] Gowthami, S (Gowthami, S); Angayarkanny, S (Angayarkanny, S). Preparation, Characterization, Types and Applications of Polysaccharide Nanocomposites. In: GREEN BIOPOLYMERS AND THEIR NANOCOMPOSITES. ISBN: 978-981-13-8062-4, 2019, Chapter 16, Pages: 379-402

ADCA354 FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In *Electrochemistry Communications*, 2014, vol. 49, p. 70-74. (2013: 4.287 - IF, Q1 - JCR, 1.811 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1388-2481. Dostupné na: <https://doi.org/10.1016/j.elecom.2014.10.012>

Ohlasy:

1. [1.1] FIRDAUS, Rabita Mohd - BERRADA, Nawal - DESFORGES, Alexandre - MOHAMED, Abdul Rahman - VIGOLO, Brigitte. From 2D Graphene Nanosheets to 3D Graphene-based Macrostructures. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, 2020, vol. 15, no. 19, pp. 2902-2924. Dostupné na: <https://doi.org/10.1002/asia.202000747>., Registrované v: WOS

2. [1.1] JADON, Nimisha - JAIN, Rajeev - ARIBAM, Nirupama Guru - CHAUHAN, Priya. Review-Monitoring of Endogenous Antioxidants: An Electroanalytical Approach. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 4, pp. H266-H277., Registrované v: WOS

3. [1.1] KARIMI, Anahita - ANDREESCU, Silvana. CeO₂-Assisted Biocatalytic Nanostructures for Laccase-Based Biocathodes and Biofuel Cells. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 9, pp. G92-G98., Registrované v: WOS

4. [1.1] KARIMI, Anahita - OTHMAN, Ali - UZUNOGLU, Aytekin - STANCIU, Lia - ANDREESCU, Silvana. Graphene based enzymatic bioelectrodes and biofuel cells. In NANOSCALE. ISSN 2040-3364, 2015, vol. 7, no. 16, pp. 6909-6923., Registrované v: WOS

5. [1.1] KONDRATOWICZ, Izabela - NADOLSKA, Malgorzata - SAHIN, Samet - LAPINSKI, Marcin - PRZESNIAK-WELENC, Marta - SAWCZAK, Mirosław - YU, Eileen H. - SADOWSKI, Wojciech - ZELECHOWSKA, Kamila. Tailoring properties of reduced graphene oxide by

oxygen plasma treatment. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2018, vol. 440, no., pp. 651-659., Registrované v: WOS

6. [1.1] KUMAR, Sandeep - BHANJANAA, Gaurav - DILBAGHI, Neeraj - KUMAR, Rajeev - UMAR, Ahmad. Fabrication and characterization of highly sensitive and selective arsenic sensor based on ultra-thin graphene oxide nanosheets. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 227, no., pp. 29-34., Registrované v: WOS

7. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

8. [1.1] MAZURENKO, Ievgen - MONSALVE, Karen - ROUHANA, Jad - PARENT, Philippe - LAFFON, Carine - LE GOFF, Alan - SZUNERITS, Sabine - BOUKHERROUB, Rabah - GIUDICI-ORTICONI, Marie-Therese - MANO, Nicolas - LOJOU, Elisabeth. How the Intricate Interactions between Carbon Nanotubes and Two Bilirubin Oxidases Control Direct and Mediated O-2 Reduction. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 35, pp. 23074-23085., Registrované v: WOS

9. [1.1] MOLINA, J. - FERNANDEZ, J. - GARCIA, C. - DEL RIO, A. I. - BONASTRE, J. - CASES, F. Electrochemical characterization of electrochemically reduced graphene coatings on platinum. Electrochemical study of dye adsorption. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 166, no., pp. 54-63., Registrované v: WOS

10. [1.1] RAO HONGHONG - XUE ZHONGHUA - WANG XUEMEI - ZHAO GUOHU - HOU HUIHUI - WANG HUI. Electrochemical Sensors Based on Electrochemically Reduced Graphene Oxide. In PROGRESS IN CHEMISTRY. ISSN 1005-281X, 2016, vol. 28, no. 2-3, pp. 337-352., Registrované v: WOS

11. [1.1] TANG, Jing - YAN, Xiaomei - ENGELBREKT, Christian - ULSTRUP, Jens - MAGNER, Edmond - XIAO, Xinxin - ZHANG, Jingdong. Development of graphene-based enzymatic biofuel cells: A minireview. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107537>., Registrované v: WOS

12. [1.1] XI, Fengna - XUAN, Lingli - LU, Lili - HUANG, Jie - YAN, Fei - LIU, Jiyang - DONG, Xiaoping - CHEN, Peng. Improved adhesion and performance of vertically-aligned mesoporous silica-nanochannel film on reduced graphene oxide for direct electrochemical analysis of human serum. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2019, vol. 288, no., pp. 133-140., Registrované v: WOS

13. [1.2] SHEN, Fei - CAO, Xianyi - PANKRATOV, Dmitry - ZHANG, Jingdong - CHI, Qijin. Nanoengineering of Graphene-Supported Functional Composites for Performance-Enhanced Enzymatic Biofuel Cells. In Graphene Bioelectronics, 2017-11-21, pp. 219-240., Registrované v: SCOPUS

14. [1.2] SHEN, Fei - CAO, Xianyi - PANKRATOV, Dmitry - ZHANG, Jingdong - CHI, Qijin. Nanoengineering of Graphene-Supported Functional Composites for Performance-Enhanced Enzymatic Biofuel Cells. In Graphene Bioelectronics, 2018-01-01, pp. 219-240., Registrované v: SCOPUS

enzymatic biofuel cell based on a renewable composite binder chitosan. In *Electrochimica Acta*, 2013, vol. 87, p. 366-374. (2012: 3.777 - IF, Q1 - JCR, 1.644 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2012.09.054>

Ohlasy:

1. [1.1] BOLIBOK, Paulina - ROSZEK, Katarzyna - WISNIEWSKI, Marek. Chemical and Biochemical Approach to Make a Perfect Biocatalytic System on Carbonaceous Matrices. In *ENZYME NANOARCHITECTURES: ENZYMES ARMORED WITH GRAPHENE*. ISSN 0076-6879, 2018, vol. 609, no., pp. 221-245., Registrované v: WOS
2. [1.1] DINESH, Bose - SARASWATHI, Ramiah - KUMAR, Annamalai Senthil. Water based homogenous carbon ink modified electrode as an efficient sensor system for simultaneous detection of ascorbic acid, dopamine and uric acid. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 233, no., pp. 92-104., Registrované v: WOS
3. [1.1] ENGEL, Adriana Both - HOLADE, Yaovi - CORNU, David - SERVAT, Karine - NAPPORN, Teko W. - KOKOH, K. Boniface - TINGRY, Sophie. Optimization of Chitosan Film-Templated Biocathode for Enzymatic Oxygen Reduction in Glucose Hybrid Biofuel Cell. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 2, pp. G29-G35., Registrované v: WOS
4. [1.1] GULCAN, Mehmet - UZUN, Gulseren - GUVEN, Buse - SEN, Fatih. Graphene-based Composites in Enzymatic Biofuel Cells. In *ENZYMATIC FUEL CELLS: MATERIALS AND APPLICATIONS*. ISSN 2471-8890, 2019, vol. 44, no., pp. 131-156., Registrované v: WOS
5. [1.1] HERKENDELL, Katharina - STEMMER, Andreas - TEL-VERED, Ran. Extending the operational lifetimes of all-direct electron transfer enzymatic biofuel cells by magnetically assembling and exchanging the active biocatalyst layers on stationary electrodes. In *NANO RESEARCH*. ISSN 1998-0124, 2019, vol. 12, no. 4, pp. 767-775., Registrované v: WOS
6. [1.1] ILIC, Ivan K. - MEURER, Maren - CHALEAWLERT-UMPON, Saowaluk - ANTONIETTI, Markus - LIEDEL, Clemens. Vanillin decorated chitosan as electrode material for sustainable energy storage. In *RSC ADVANCES*. ISSN 2046-2069, 2019, vol. 9, no. 8, pp. 4591-4598., Registrované v: WOS
7. [1.1] KANG, Zepeng - JIAO, Kailong - YU, Chao - DONG, Ji - PENG, Ruiyun - HU, Zongqian - JIAO, Shuqiang. Direct electrochemistry and bioelectrocatalysis of glucose oxidase in CS/CNC film and its application in glucose biosensing and biofuel cells. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 8, pp. 4572-4579., Registrované v: WOS
8. [1.1] KOVAL, Tomas - SVECOVA, Leona - OSTERGAARD, Lars H. - SKALOVA, Tereza - DUSKOVA, Jarmila - HASEK, Jindrich - KOLENKO, Petr - FEJFAROVA, Karla - STRANSKY, Jan - TRUNDOVA, Maria - DOHNALEK, Jan. Trp-His covalent adduct in bilirubin oxidase is crucial for effective bilirubin binding but has a minor role in electron transfer. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
9. [1.1] LIU, Yuxiang - ZHANG, Jin - CHENG, Yi - JIANG, San Ping. Effect of Carbon Nanotubes on Direct Electron Transfer and Electrocatalytic Activity of Immobilized Glucose Oxidase. In *ACS OMEGA*. ISSN 2470-1343,

- 2018, vol. 3, no. 1, pp. 667-676., Registrované v: WOS
10. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
11. [1.1] PAWLOWSKI, Jan - DZIUBAK, Damian - SEK, Slawomir. Potential-driven changes in hydration of chitosan-derived molecular films on gold electrodes. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2019, vol. 319, no., pp. 606-614., Registrované v: WOS
12. [1.1] SAKAI, Kento - XIA, Hong-qi - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Assembly of direct-electron-transfer-type bioelectrodes with high performance. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2018, vol. 271, no., pp. 305-311., Registrované v: WOS
13. [1.1] VARNICIC, M. - VIDAKOVIC-KOCH, T. - SUNDMACHER, K. Gluconic Acid Synthesis in an Electroenzymatic Reactor. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 174, no., pp. 480-487., Registrované v: WOS
14. [1.1] XIA, Hong-qi - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Enhanced direct electron transfer-type bioelectrocatalysis of bilirubin oxidase on negatively charged aromatic compound-modified carbon electrode. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 763, no., pp. 104-109., Registrované v: WOS
15. [1.1] ZHAO, Cui-e - GAI, Panpan - SONG, Rongbin - CHEN, Ying - ZHANG, Jianrong - ZHU, Jun-Jie. Nanostructured material-based biofuel cells: recent advances and future prospects. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2017, vol. 46, no. 5, pp. 1545-1564., Registrované v: WOS
16. [1.1] ZHAO, Mei - GAO, Yue - SUN, Junyong - GAO, Feng. Mediator less Glucose Biosensor and Direct Electron Transfer Type Glucose/Air Biofuel Cell Enabled with Carbon Nanodots. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 5, pp. 2615-2622., Registrované v: WOS
17. [1.2] WALGAMA, Charuksha - PATHIRANAGE, Anuruddha - AKINWALE, Mayowa - MONTEALEGRE, Roberto - NIROULA, Jinesh - ECHEVERRIA, Elena - MCILROY, David N. - HARRIMAN, Tres A. - LUCCA, Don A. - KRISHNAN, Sadagopan. Buckypaper-Bilirubin Oxidase Biointerface for Electrocatalytic Applications: Buckypaper Thickness. In ACS Applied Bio Materials, 2019-05-20, 2, 5, pp. 2229-2236., Registrované v: SCOPUS

ADCA356 FILIP, Jaroslav - TKÁČ, Ján. Enzymové biopalivové články. In *Chemické listy*, 2014, vol. 108, p. 442-450. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] GONG, Coucong - SUN, Shuwei - ZHANG, Yujie - SUN, Li - SU, Zhiqiang - WU, Aiguo - WEI, Gang. Hierarchical nanomaterials via biomolecular self-assembly and bioinspiration for energy and environmental applications. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 10, pp. 4147-4182., Registrované v: WOS
2. [1.1] YAGHOUBI, Mona - RAHIMI, Fereshteh - NEGAHDARI, Babak - REZAYAN, Ali Hossein - SHAFIEKHANI, Azizollah. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a

real-time mode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-72457-x>, Registrované v: WOS

ADCA357 FILIP, Jaroslav - ECKSTEIN ANDICSOVÁ, Anita - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Immobilization of bilirubin oxidase on graphene oxide flakes with different negative charge density for oxygen reduction. The effect of GO charge density on enzyme coverage, electron transfer rate and current density. In *Biosensors & Bioelectronics*, 2017, vol. 89, p. 384-389. (2016: 7.780 - IF, Q1 - JCR, 2.095 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2016.06.006>

Ohlasy:

1. [1.1] FADILLAH, Ganjar - WICAKSONO, Wiyogo Prio - FATIMAH, Is - SALEH, Tawfik A. A sensitive electrochemical sensor based on functionalized graphene oxide/SnO₂ for the determination of eugenol. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.105353>, Registrované v: WOS

2. [1.1] HASSAN, M.E. - YANG, Q.Y. - XIAO, Z.G. - LIU, L. - WANG, N. - CUI, X.T. - YANG, L. Impact of immobilization technology in industrial and pharmaceutical applications. In 3 BIOTECH. ISSN 2190-572X, DEC 2019, vol. 9, no. 12., Registrované v: WOS

3. [1.1] CHEN, H.F. - BAI, Z.Y. - DAI, X.Q. - ZENG, X.Q. - CANO, Z.P. - XIE, X.X. - ZHAO, M.Y. - LI, M. - WANG, H. - CHEN, Z.W. - YANG, L. - LU, J. In Situ Engineering of Intracellular Hemoglobin for Implantable High-Performance Biofuel Cells. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, MAY 13 2019, vol. 58, no. 20, p. 6663-6668., Registrované v: WOS

4. [1.1] JIANG, Z. - YU, F. - MA, J. Design of Graphene-based Adsorbents and Its Removal of Antibiotics in Aqueous Solution. In ACTA PHYSICO-CHIMICA SINICA. ISSN 1000-6818, 2019, vol. 35, no. 7, p. 709-724., Registrované v: WOS

5. [1.1] JI, Y.S. - GAI, P.P. - FENG, J. - WANG, L.L. - ZHANG, J.R. - ZHU, J.J. A Fe₃O₄-carbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, JUN 14 2017, vol. 5, no. 22, p. 11026-11031., Registrované v: WOS

6. [1.1] KONDRATOWICZ, Izabela - NADOLSKA, Malgorzata - SAHIN, Samet - LAPINSKI, Marcin - PRZESNIAK-WELENC, Marta - SAWCZAK, Mirosław - YU, Eileen H. - SADOWSKI, Wojciech - ZELECHOWSKA, Kamila. Tailoring properties of reduced graphene oxide by oxygen plasma treatment. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2018, vol. 440, no., pp. 651-659., Registrované v: WOS

7. [1.1] KOVAL, T. - SVECOVA, L. - OSTERGAARD, L.H. - SKALOVA, T. - DUSKOVA, J. - HASEK, J. - KOLENKO, P. - FEJFAROVA, K. - STRANSKY, J. - TRUNDOVA, M. - DOHNALEK, J. Trp-His covalent adduct in bilirubin oxidase is crucial for effective bilirubin binding but has a minor role in electron transfer. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 23 2019, vol. 9., Registrované v: WOS

8. [1.1] KULKAMI, T. - SLAUGHTER, G. A hybrid glucose fuel cell

based on electrodeposited carbon nanotubes and platinized carbon. In 2019 41ST ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY (EMBC). ISSN 1557-170X, 2019, p. 1167-1170., Registrované v: WOS

9. [1.1] LI, J. - ZHANG, X.Z. - JIANG, J. - WANG, Y.J. - JIANG, H.Y. - ZHANG, J.H. - NIE, X.M. - LIU, B. Systematic Assessment of the Toxicity and Potential Mechanism of Graphene Derivatives In Vitro and In Vivo. In TOXICOLOGICAL SCIENCES. ISSN 1096-6080, JAN 2019, vol. 167, no. 1, p. 269-281., Registrované v: WOS

10. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

11. [1.1] MAZURENKO, I. - DE POULPIQUET, A. - LOJOU, E. Recent developments in high surface area bioelectrodes for enzymatic fuel cells. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, OCT 2017, vol. 5, no. 1, p. 74-84., Registrované v: WOS

12. [1.1] MAZURENKO, I. - WANG, X. - DE POULPIQUET, A. - LOJOU, E. H-2/O-2 enzymatic fuel cells: from proof-of-concept to powerful devices. In SUSTAINABLE ENERGY & FUELS. ISSN 2398-4902, SEP 2017, vol. 1, no. 7, p. 1475-1501., Registrované v: WOS

13. [1.1] PENA-BAHAMONDE, Janire - NGUYEN, Hang N. - FANOURAKIS, Sofia K. - RODRIGUES, Debora F. Recent advances in graphene-based biosensor technology with applications in life sciences. In JOURNAL OF NANOBIO TECHNOLOGY. ISSN 1477-3155, 2018, vol. 16, no., pp., Registrované v: WOS

14. [1.1] XIA, Hongqi - ZENG, Jiwu. Rational Surface Modification of Carbon Nanomaterials for Improved Direct Electron Transfer-Type Bioelectrocatalysis of Redox Enzymes. In CATALYSTS, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/catal10121447>., Registrované v: WOS

15. [1.1] YANG, Shengjiang - LIU, Jie - QUAN, Xuebo - ZHOU, Jian. Bilirubin Oxidase Adsorption onto Charged Self-Assembled Monolayers: Insights from Multiscale Simulations. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 33, pp. 9818-9828., Registrované v: WOS

16. [1.1] YU, Jiawen - MA, Yanan - YANG, Congxing - ZHANG, Hang - LIU, Lijun - SU, Jun - GAO, Yihua. SERS-active composite based on rGO and Au/Ag core-shell nanorods for analytical applications. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 254, no., pp. 182-188., Registrované v: WOS

17. [1.1] ZHU, L.H. - LIU, Y. - ZHOU, B. - TANG, H.D. - WANG, F.Y. - GUAN, C.D. Synthesis and the Swelling Behavior of Sodium Alginate Graft Poly (Acrylic Acid-co-acrylamide)/Graphite Oxide Super Absorbent Composite. In POLYMER SCIENCE SERIES B. ISSN 1560-0904, SEP 2019, vol. 61, no. 5, p. 680-690., Registrované v: WOS

18. [1.2] RUZGAS, T. Enzyme-based (bio)fuel cells-bilirubin oxidase use. In Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry, 2018-01-01, pp. 209-216., Registrované v: SCOPUS

19. [1.2] SUGIMOTO, Y. - SO, K. - XIA, H. Q. - KANO, K. Orientation-oriented adsorption and immobilization of redox enzymes for electrochemical communication with electrodes. In Encyclopedia of Interfacial

ADCA358 FILIP, Jaroslav - ZAVAHIR, Sifani - BELICKÁ, Ľudmila, Křuková - TKÁČ, Ján - KASÁK, Peter. Immobilization of concanavalin A lectin on a reduced graphene oxide-thionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. In *Journal of Electroanalytical Chemistry*, 2017, vol. 794, p. 156-163. (2016: 3.012 - IF, Q2 - JCR, 0.752 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0022-0728. Dostupné na: <https://doi.org/10.1016/j.jelechem.2017.04.019>

Ohlasy:

1. [1.1] ORTIZ, Elvis - GALLAY, Pablo - GALICIA, Laura - EGUILAZ, Marcos - RIVAS, Gustavo. Nanoarchitectures based on multi-walled carbon nanotubes non-covalently functionalized with Concanavalin A: A new building-block with supramolecular recognition properties for the development of electrochemical biosensors. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2019, vol. 292, no., pp. 254-262., Registrované v: WOS
2. [1.1] TAO, Dan - SHUI, Bingqing - GU, Yingying - CHENG, Jing - ZHANG, Weiying - JAFFREZIC-RENAULT, Nicole - SONG, Shizhen - GUO, Zhenzhong. Development of a Label-Free Electrochemical Aptasensor for the Detection of Tau381 and its Preliminary Application in AD and Non-AD Patients' Sera. In *BIOSENSORS-BASEL*, 2019, vol. 9, no. 3, pp., Registrované v: WOS
3. [1.1] TORER, Hakan - AYDIN, Elif Burcu - SEZGINTURK, Mustafa Kemal. A label-free electrochemical biosensor for direct detection of RACK 1 by using disposable, low-cost and reproducible ITO based electrode. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2018, vol. 1024, no., pp. 65-72., Registrované v: WOS
4. [1.1] YAGHOUBI, Mona - RAHIMI, Fereshteh - NEGAHDARI, Babak - REZAYAN, Ali Hossein - SHAFIEKHANI, Azizollah. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-72457-x>, Registrované v: WOS
5. [1.1] ZUO, Fumei - ZHANG, Cong - ZHANG, Han - TAN, Xingrong - CHEN, Shihong - YUAN, Ruo. A solid-state electrochemiluminescence biosensor for Con A detection based on CeO₂@Ag nanoparticles modified graphene quantum dots as signal probe. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2019, vol. 294, no., pp. 76-83., Registrované v: WOS
6. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md - AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In *Biomedical Applications of Graphene and 2D Nanomaterials*, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

ADCA359 FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells? In *Electrochimica Acta*, 2014, vol. 136, p. 340-354. (2013: 4.086 - IF, Q1 - JCR, 1.435 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2014.05.119>

Ohlasy:

1. [1.1] ALHAMOUD, Yasmin - YANG, Danting - KENSTON, Samuel Selorm Fiati - LIU, Guozhen - LIU, Linyang - ZHOU, Haibo - AHMED, Fatma - ZHAO, Jinshun. Advances in biosensors for the detection of ochratoxin A: Bio-receptors, nanomaterials, and their applications. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 141, no., pp., Registrované v: WOS
2. [1.1] BAEK, Inchul - CHOI, Hyunsung - YOON, Seongho - NA, Sungsoo. Effects of the Hydrophobicity of Key Residues on the Characteristics and Stability of Glucose Oxidase on a Graphene Surface. In *ACS BIOMATERIALS SCIENCE & ENGINEERING*. ISSN 2373-9878, 2020, vol. 6, no. 4, pp. 1899-1908. Dostupné na: <https://doi.org/10.1021/acsbiomaterials.9b01763>., Registrované v: WOS
3. [1.1] BRUN, Nicolas - BACCOUR, Mohamed - FLEXER, Victoria. Nanocarbon-Based Enzymatic Electrodes. In *FUNCTIONAL ELECTRODES FOR ENZYMATIC AND MICROBIAL ELECTROCHEMICAL SYSTEMS*, 2018, vol., no., pp. 341-379., Registrované v: WOS
4. [1.1] CAI, Weiwei - LIU, Wenzong - HAN, Jinglong - WANG, Aijie. Enhanced hydrogen production in microbial electrolysis cell with 3D self-assembly nickel foam-graphene cathode. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 80, no., pp. 118-122., Registrované v: WOS
5. [1.1] CAMPBELL, Alan S. - MURATA, Hironobu - CARMALI, Sheiliza - MATYJASZEWSKI, Krzysztof - ISLAM, Mohammad F. - RUSSELL, Alan J. Polymer-based protein engineering grown ferrocene-containing redox polymers improve current generation in an enzymatic biofuel cell. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 86, p. 446-453., Registrované v: WOS
6. [1.1] CASTRO-MUNIZ, Alberto - HOSHIKAWA, Yasuto - KOMIYAMA, Hiroshi - NAKAYAMA, Wataru - ITOH, Tetsuji - KYOTANI, Takashi. Improving the Direct Electron Transfer in Monolithic Bioelectrodes Prepared by Immobilization of FDH Enzyme on Carbon-Coated Anodic Aluminum Oxide Films. In *FRONTIERS IN MATERIALS*. ISSN 2296-8016, 2016, vol. 3, no., pp., Registrované v: WOS
7. [1.1] DI BARI, Chiara - GONI-URTIAGA, Asier - PITA, Marcos - SHLEEV, Sergey - TOSCANO, Miguel D. - SAINZ, Raquel - DE LACEY, Antonio L. Fabrication of high surface area graphene electrodes with high performance towards enzymatic oxygen reduction. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 191, no., pp. 500-509., Registrované v: WOS
8. [1.1] ELMEKAWY, Ahmed - HEGAB, Hanaa M. - LOSIC, Dusan - SAINT, Christopher P. - PANT, Deepak. Applications of graphene in microbial fuel cells: The gap between promise and reality. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2017, vol. 72, no., pp. 1389-1403., Registrované v: WOS
9. [1.1] FAN, Mengjie - ZHANG, Wei - SUN, Jingyun - CHEN, Liuliu - LI, Peiwen - CHEN, Yingwen - ZHU, Shemin - SHEN, Shubao. Different modified multi-walled carbon nanotube-based anodes to improve the performance of microbial fuel cells. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. ISSN 0360-3199, 2017, vol. 42, no. 36, pp.

22786-22795., Registrované v: WOS

10. [1.1] GULCAN, Mehmet - UZUN, Gulseren - GUVEN, Buse - SEN, Fatih. Graphene-based Composites in Enzymatic Biofuel Cells. In ENZYMATIC FUEL CELLS: MATERIALS AND APPLICATIONS. ISSN 2471-8890, 2019, vol. 44, no., pp. 131-156., Registrované v: WOS

11. [1.1] HUI, Yuchen - MA, Xiaoyan - QU, Fengjin - CHEN, Fang - CHEN, Ying. Three-Dimensional Nickel Foam Based Enzymatic Electrode and Its Glucose/O₂ Biofuel Cell with High Power Density. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 13, pp. G112-G120., Registrované v: WOS

12. [1.1] CHEN, Jie - DENG, Feng - HU, Yongyou - SUN, Jian - YANG, Yonggang. Antibacterial activity of graphene-modified anode on *Shewanella oneidensis* MR-1 biofilm in microbial fuel cell. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2015, vol. 290, no., pp. 80-86., Registrované v: WOS

13. [1.1] IBRAHIM, Amgad Ahmed Ali - IBRAHIM, Nik Noor Nabilah Md - CENTENO, Anthony - HASHIM, Abdul Manaf. A Short Review of Architecture and Computational Analysis in the Design of Graphene-based Bioelectronic Devices. In SENSORS AND MATERIALS. ISSN 0914-4935, 2018, vol. 30, no. 6, pp. 1231-1252., Registrované v: WOS

14. [1.1] JIANG, Xinbai - LOU, Shuai - CHEN, Dan - SHEN, Jinyou - HAN, Weiqing - SUN, Xiuyun - LI, Jiansheng - WANG, Lianjun. Fabrication of polyaniline/graphene oxide composite for graphite felt electrode modification and its performance in the bioelectrochemical system. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2015, vol. 744, no., pp. 95-100., Registrované v: WOS

15. [1.1] JIA, Yun - MA, Dong - WANG, Xuyun. Electrochemical preparation and application of PANI/MWNT and PPy/MWNT composite anodes for anaerobic fluidized bed microbial fuel cell. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 1, pp. Dostupné na:

<https://doi.org/10.1007/s13205-019-1950-y>., Registrované v: WOS

16. [1.1] JIMENEZ-CERVANTES AMIEVA, E. - FUENTES-RAMIREZ, R. - MARTINEZ-HERNANDEZ, A. L. - MILLAN-CHIU, Blanca - LOPEZ-MARIN, Luz M. - CASTANO, V. M. - VELASCO-SANTOS, C. Graphene oxide and reduced graphene oxide modification with polypeptide chains from chicken feather keratin. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2015, vol. 643, no., pp. S137-S143., Registrované v: WOS

17. [1.1] KAFI, A. K. M. - YUSOFF, M. M. - CHOUCAIR, Mohammad - CROSSLEY, Maxwell J. A conductive crosslinked graphene/cytochrome c networks for the electrochemical and biosensing study. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2017, vol. 21, no. 10, pp. 2761-2767., Registrované v: WOS

18. [1.1] KARIMI, Anahita - ANDREESCU, Silvana. CeO₂-Assisted Biocatalytic Nanostructures for Laccase-Based Biocathodes and Biofuel Cells. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 9, pp. G92-G98., Registrované v: WOS

19. [1.1] KARIMI, Anahita - OTHMAN, Ali - UZUNOGLU, Aytekin - STANCIU, Lia - ANDREESCU, Silvana. Graphene based enzymatic bioelectrodes and biofuel cells. In NANOSCALE. ISSN 2040-3364, 2015, vol. 7,

- no. 16, pp. 6909-6923., Registrované v: WOS
20. [1.1] KONDRATOWICZ, Izabela - ZELECHOWSKA, Kamila - MAJDECKA, Dominika - BILEWICZ, Renata. Synthesis and modification of reduced graphene oxide aerogels for biofuel cell applications. In MATERIALS SCIENCE-POLAND. ISSN 2083-134X, 2015, vol. 33, no. 2, pp. 292-300., Registrované v: WOS
21. [1.1] KORKUT, Seyda - KILIC, Muhammet Samet. Design of a mediated enzymatic fuel cell to generate power from renewable fuel sources. In ENVIRONMENTAL TECHNOLOGY. ISSN 0959-3330, 2016, vol. 37, no. 2, pp. 163-171., Registrované v: WOS
22. [1.1] KRISHNAN, Siva Kumar - SINGH, Eric - SINGH, Pragya - MEYYAPPAN, Meyya - NALWA, Hari Singh. A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors. In RSC ADVANCES, 2019, vol. 9, no. 16, pp. 8778-8881., Registrované v: WOS
23. [1.1] LALAOUI, Noemie - LE GOFF, Alan - HOLZINGER, Michael - MERMOUX, Michel - COSNIER, Serge. Wiring Laccase on Covalently Modified Graphene: Carbon Nanotube Assemblies for the Direct Bio-electrocatalytic Reduction of Oxygen. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 8, pp. 3198-3201., Registrované v: WOS
24. [1.1] LITVIN, Aleksandr P. - ZHANG, Xiaoyu - BERWICK, Kevin - FEDOROV, Anatoly - ZHENG, Weitao - BARANOV, Alexander. Carbon-based interlayers in perovskite solar cells. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2020.109774>., Registrované v: WOS
25. [1.1] LI, Gangyong - LI, Zihan - XIAO, Xiang - AN, Yuanlin - WANG, Wei (Alex) - HU, Zongqian. An ultrahigh electron-donating quaternary-N-doped reduced graphene oxide@carbon nanotube framework: a covalently coupled catalyst support for enzymatic bioelectrodes. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2019, vol. 7, no. 18, pp. 11077-11085., Registrované v: WOS
26. [1.1] LI, Yunfei - LIU, Jia - CHEN, Xuepeng - YUAN, Xiaole - LI, Nan - HE, Weihua - FENG, Yujie. Enhanced electricity generation and extracellular electron transfer by polydopamine-reduced graphene oxide (PDA-rGO) modification for high-performance anode in microbial fuel cell. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2020, vol. 387, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2019.123408>., Registrované v: WOS
27. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O₂ Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
28. [1.1] MAZURENKO, I. - DE POULPIQUET, A. - LOJOU, E. Recent developments in high surface area bioelectrodes for enzymatic fuel cells. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2017, vol. 5, no. 1, pp. 74-84., Registrované v: WOS
29. [1.1] MAZURENKO, I. - WANG, X. - DE POULPIQUET, A. - LOJOU, E. H₂/O₂ enzymatic fuel cells: from proof-of-concept to powerful devices. In SUSTAINABLE ENERGY & FUELS. ISSN 2398-4902, 2017, vol. 1, no. 7, pp. 1475-1501., Registrované v: WOS
30. [1.1] MECHERI, Barbara - DE PORCELLINIS, Diana - CAMPANA,

- Patricia T. - RAINER, Alberto - TROMBETTA, Marcella - MARLETTA, Alexandre - OLIVEIRA, Osvaldo N. - LICOCCHIA, Silvia. Tuning Structural Changes in Glucose Oxidase for Enzyme Fuel Cell Applications. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 51, pp. 28311-28318., Registrované v: WOS
31. [1.1] MOHANAKRISHNA, G. - KALATHIL, Shafeer - PANT, Deepak. Reactor Design for Bioelectrochemical Systems. In MICROBIAL FUEL CELL: A BIOELECTROCHEMICAL SYSTEM THAT CONVERTS WASTE TO WATTS, 2018, vol., no., pp. 209-227., Registrované v: WOS
32. [1.1] MOSTAFAVI, Seyed Mojtaba. 3D Graphene Biocatalysts for Development of Enzymatic Biofuel Cells: A Short Review. In JOURNAL OF NANOANALYSIS. ISSN 2383-0344, 2015, vol. 2, no. 2, pp. 57-62., Registrované v: WOS
33. [1.1] MOUSSET, Emmanuel - WANG, Zuxin - HAMMAKER, Joshua - LEFEBVRE, Olivier. Physico-chemical properties of pristine graphene and its performance as electrode material for electro-Fenton treatment of wastewater. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 214, no., pp. 217-230., Registrované v: WOS
34. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - RESHETILOV, Anatoly. Electrochemical assessment of the interaction of microbial living cells and carbon nanomaterials. In IET NANOBIO TECHNOLOGY. ISSN 1751-8741, 2019, vol. 13, no. 3, pp. 332-338., Registrované v: WOS
35. [1.1] QIU, Hua-Jun - GUAN, Yongxin - LUO, Pan - WANG, Yu. Recent advance in fabricating monolithic 3D porous graphene and their applications in biosensing and biofuel cells. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 89, no., pp. 85-95., Registrované v: WOS
36. [1.1] QUAN, Xiangchun - MEI, Ying - XU, Hengduo - SUN, Bo - ZHANG, Xin. Optimization of Pt-Pd alloy catalyst and supporting materials for oxygen reduction in air-cathode Microbial Fuel Cells. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 165, no., pp. 72-77., Registrované v: WOS
37. [1.1] RESHETILOV, A. N. - KITOVA, A. E. - KOLESOV, V. V. - YAROLOPOV, A. I. Mediator-Free Bioelectrocatalytic Oxidation of Ethanol on an Electrode from Thermally Expanded Graphite Modified by Gluconobacter oxydans Membrane Fractions. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 6, pp. 1443-1448., Registrované v: WOS
38. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms Gluconobacter. In NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780, 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS
39. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms Gluconobacter. In NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780,

- 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS
40. [1.1] ROWLEY-NEALE, Samuel J. - RANDVIIR, Edward P. - DENA, Ahmed S. Abo - BANKS, Craig E. An overview of recent applications of reduced graphene oxide as a basis of electroanalytical sensing platforms. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2018, vol. 10, no., pp. 218-226., Registrované v: WOS
41. [1.1] ROY, Ekta - NAGAR, Achala - CHAUDHARY, Sandeep - PAL, Souvik. Advanced Properties and Applications of AIEgens-Inspired Smart Materials. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 23, pp. 10721-10736. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c01869>., Registrované v: WOS
42. [1.1] SESELJ, Nedjeljko - ENGELBREKT, Christian - ZHANG, Jingdong. Graphene-supported platinum catalysts for fuel cells. In *SCIENCE BULLETIN*. ISSN 2095-9273, 2015, vol. 60, no. 9, pp. 864-876., Registrované v: WOS
43. [1.1] SONG, Yin - CHEN, Chunhui - WANG, Chunlei. Graphene/enzyme-encrusted three-dimensional carbon micropillar arrays for mediatorless micro-biofuel cells. In *NANOSCALE*. ISSN 2040-3364, 2015, vol. 7, no. 16, pp. 7084-7090., Registrované v: WOS
44. [1.1] TANG, Jing - YAN, Xiaomei - ENGELBREKT, Christian - ULSTRUP, Jens - MAGNER, Edmond - XIAO, Xinxin - ZHANG, Jingdong. Development of graphene-based enzymatic biofuel cells: A minireview. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107537>., Registrované v: WOS
45. [1.1] TENCHURIN, Timur K. - RESHETILOV, Anatoly N. - PLEKHANOVA, Yuliya V. - TARASOV, Sergey E. - BYKOV, Aleksandr G. - GUTOROV, Michail A. - ALFEROV, Sergey V. - CHVALUN, Sergei N. - OREKHOV, Anton S. - SHEPELEV, Alexey D. - GOTOVTSEV, Pavel M. - VASILOV, Raif G. Carbon superfine materials as a promising material for Gluconobacter oxydans based microbial fuel cells. In *INTERNATIONAL CONFERENCE ON ENERGY ENGINEERING AND ENVIRONMENTAL PROTECTION (EEEP2017)*. ISSN 1755-1307, 2018, vol. 121, no., pp., Registrované v: WOS
46. [1.1] TROGADAS, Panagiotis - COPPENS, Marc-Olivier. Nature-inspired electrocatalysts and devices for energy conversion. In *CHEMICAL SOCIETY REVIEWS*. ISSN 0306-0012, 2020, vol. 49, no. 10, pp. 3107-3141. Dostupné na: <https://doi.org/10.1039/c8cs00797g>., Registrované v: WOS
47. [1.1] UL HAQUE, Sufia - INAMUDDIN. A Concise Overview of Biofuel Cells. In *NEW POLYMERIC COMPOSITE MATERIALS: ENVIRONMENTAL, BIOMEDICAL, ACTUATOR AND FUEL CELL APPLICATIONS*. ISSN 2471-8904, 2016, vol., no., pp. 122-173., Registrované v: WOS
48. [1.1] VIRDIS, Bernardino - DENNIS, Paul G. The nanostructure of microbially-reduced graphene oxide fosters thick and highly-performing electrochemically-active biofilms. In *JOURNAL OF POWER SOURCES*. ISSN 0378-7753, 2017, vol. 356, no., pp. 556-565., Registrované v: WOS
49. [1.1] WEN, Dan - EYCHMUELLER, Alexander. Enzymatic Biofuel Cells on Porous Nanostructures. In *SMALL*. ISSN 1613-6810, 2016, vol. 12, no.

- 34, pp. 4649-4661., Registrované v: WOS
50. [1.1] XIAO, Xinxin - XIA, Hong-qi - WU, Ranran - BAI, Lu - YAN, Lu - MAGNER, Edmond - COSNIER, Serge - LOJOU, Elisabeth - ZHU, Zhiguang - LIU, Aihua. Tackling the Challenges of Enzymatic (Bio)Fuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 16, pp. 9509-9558., Registrované v: WOS
51. [1.1] YANG, Yang - MOSQUERA, Martin A. - SKINNER, Kwan - BECERRA, Andres E. - SHAMAMIAN, Vasgen - SCHATZ, George C. - RATNER, Mark A. - MARKS, Tobin J. Electronic Structure and Potential Reactivity of Sila-aromatic Molecules. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2016, vol. 120, no. 47, pp. 9476-9488., Registrované v: WOS
52. [1.1] YOON, Taeyoung - BAEK, Inchul - LEE, Seonwoo - CHOI, Hyunsung - YOON, Seongho - LEE, Howon - KIM, Sun Ung - NA, Sungsoo. Immobilization of laccase on a graphene interface: Direct electron transfer and molecular dynamics study. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 521, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146378>., Registrované v: WOS
53. [1.1] YUAN, Heyang - HE, Zhen. Graphene-modified electrodes for enhancing the performance of microbial fuel cells. In NANOSCALE. ISSN 2040-3364, 2015, vol. 7, no. 16, pp. 7022-7029., Registrované v: WOS
54. [1.1] ZHANG, Runzhi - PALUMBO, Anthony - KIM, Jae Chul - DING, Junjun - YANG, Eui-Hyeok. Flexible Graphene-, Graphene-Oxide-, and Carbon-Nanotube-Based Supercapacitors and Batteries. In ANNALEN DER PHYSIK. ISSN 0003-3804, 2019, vol. 531, no. 10, pp., Registrované v: WOS
55. [1.1] ZHANG, Xiaofeng - WANG, Xiaoying - LE, Lijuan - MA, Ai - LIN, Shen. A Pd/PW12/RGO Composite Catalyst Prepared by Electro-Codeposition for Formic Acid Electro-Oxidation. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2016, vol. 163, no. 2, pp. F71-F78., Registrované v: WOS
56. [1.2] BRUN, Nicolas - BACCOUR, Mohamed - FLEXER, Victoria. Nanocarbon-based enzymatic electrodes. In Functional Electrodes for Enzymatic and Microbial Electrochemical Systems, 2017-01-01, pp. 341-379., Registrované v: SCOPUS
57. [1.2] Heterogeneous catalysis on nanostructured carbon material supported catalysts. In RSC Catalysis Series. ISSN 17576725, 2015-01-01, 2015-January, 23, pp. 312-411., Registrované v: SCOPUS
58. [1.2] CHEN, Jie - SUN, Jian - HU, Yongyou. Recent advances in microbial fuel cells with graphene-modified electrodes and the antibacterial activity of graphene. In Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae. ISSN 02532468, 2016-02-06, 36, 2, pp. 387-397., Registrované v: SCOPUS
59. [1.2] MOHANAKRISHNA, G. - KALATHIL, Shafeer - PANT, Deepak. Reactor design for bioelectrochemical systems. In Microbial Fuel Cell: A Bioelectrochemical System that Converts Waste to Watts, 2017-12-01, pp. 209-227., Registrované v: SCOPUS
60. [1.2] WEN, Dan - EYCHMÜLLER, Alexander. Enzymatic Biofuel Cells on Porous Nanostructures. In Small (Weinheim an der Bergstrasse, Germany), 2016-09-01, 12, 34, pp. 4649-4661., Registrované v: SCOPUS
61. [1.2] XIAO, Li - HE, Zhen. Application of Graphene-Based Materials to Improve Electrode Performance in Microbial Fuel Cells. In Graphene-based

Energy Devices, 2015-01-28, pp. 355-370., Registrované v: SCOPUS
62. [1.2] Zuber, A. A., Klantsataya, E., & Bachhuka, A. (2019).
Biosensing. In *Comprehensive Nanoscience and Nanotechnology* (pp. 105-126),
Registrované v: SCOPUS

ADCA360 FILIP, Jaroslav - POPELKA, Anton - BERTÓK, Tomáš - HOLAZOVÁ, Alena
- OSIČKA, Jozef - KOLLÁR, Jozef - ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK,
Peter. pH-switchable interaction of a carboxybetaine ester-based SAM with DNA
and gold nanoparticles. In *Langmuir*, 2017, vol. 33, p. 6657-6666. (2016: 3.833 - IF,
Q1 - JCR, 1.559 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current
Contents). ISSN 0743-7463. Dostupné na:
<https://doi.org/10.1021/acs.langmuir.7b00568>

Ohlasy:

1. [1.1] HOANG, J. - PARK, C.S. - MARQUEZ, M.D. -
GUNARATNE, P.H. - LEE, T.R. DNA Binding on Self-Assembled Monolayers
Terminated with Mixtures of Ammonium and Trimethylammonium Groups:
Toward a Gene-Delivery Platform. In *ACS APPLIED NANO MATERIALS*.
ISSN 2574-0970, JUL 24 2020, vol. 3, no. 7, p. 6621-6628., Registrované v:
WOS
2. [1.1] XIAO, Y. - SHI, K. - QU, Y. - CHU, B.Y. - QIAN, Z.Y.
Engineering Nanoparticles for Targeted Delivery of Nucleic Acid Therapeutics in
Tumor. In *MOLECULAR THERAPY-METHODS & CLINICAL
DEVELOPMENT*. MAR 15 2019, vol. 12, p. 1-18., Registrované v: WOS

ADCA361 FILIP, Jaroslav - MONOSÍK, Rastislav - TKÁČ, Ján. Poly(lactic-acid)-based
nanocomposite for construction of efficient bilirubin oxidase-based biocathodes and
stable biofuel cells. In *International Journal of Electrochemical Science*, 2014, vol.
9, p. 2491-2560. (2013: 1.956 - IF, Q3 - JCR, 0.522 - SJR, Q3 - SJR, Current
Contents - CCC). (2014 - Current Contents). ISSN 1452-3981.

Ohlasy:

1. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in
Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018,
vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
2. [1.1] PIRO, Benoit - TRAN, Hoang Vinh - THU, Vu Thi. Sensors
Made of Natural Renewable Materials: Efficiency, Recyclability or
Biodegradability-The Green Electronics. In *SENSORS*, 2020, vol. 20, no. 20, pp.
Dostupné na: <https://doi.org/10.3390/s20205898>., Registrované v: WOS
3. [1.1] SABA, Naheed - JAWAID, Mohammad - AL-OTHMAN,
Othman. An Overview on Polylactic Acid, its Cellulosic Composites and
Applications. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2017,
vol. 14, no. 2, pp. 156-170., Registrované v: WOS
4. [1.1] WEN, Dan - EYCHMUELLER, Alexander. Enzymatic Biofuel
Cells on Porous Nanostructures. In *SMALL*. ISSN 1613-6810, 2016, vol. 12, no.
34, pp. 4649-4661., Registrované v: WOS
5. [1.2] WEN, Dan - EYCHMÜLLER, Alexander. Enzymatic Biofuel
Cells on Porous Nanostructures. In *Small* (Weinheim an der Bergstrasse,
Germany), 2016-09-01, 12, 34, pp. 4649-4661., Registrované v: SCOPUS

ADCA362 FILIP, Jaroslav - ZAVAHIR, Sifani - LORENCOVÁ, Lenka - BERTÓK,
Tomáš - YOUSAF, Ammar Bin - MAHMOUD, Khaled A. - TKÁČ, Ján - KASÁK,

Peter**. Tailoring electrocatalytic properties of Pt nanoparticles grown on Ti₃C₂TX MXene surface. In *Journal of the Electrochemical Society*, 2019, vol. 166, p. H54-H62. (2018: 3.120 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0013-4651. Dostupné na: <https://doi.org/10.1149/2.0991902jes>

Ohlasy:

1. [1.1] FU, Zhongheng - WANG, Ning - LEGUT, Dominik - SI, Chen - ZHANG, Qianfan - DU, Shiyu - GERMANN, Timothy C. - FRANCISCO, Joseph S. - ZHANG, Ruifeng. Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2019, vol. 119, no. 23, pp. 11980-12031., Registrované v: WOS
2. [1.1] LEE, Eunji - KIM, Dong-Joo. Review-Recent Exploration of Two-Dimensional MXenes for Gas Sensing: From a Theoretical to an Experimental View. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS
3. [1.1] LU, Ming - HAN, Wenjuan - LI, Haibo - ZHANG, Wei - ZHANG, Bingsen. There is plenty of space in the MXene layers: The confinement and fillings. In *JOURNAL OF ENERGY CHEMISTRY*. ISSN 2095-4956, 2020, vol. 48, no., pp. 344-363. Dostupné na: <https://doi.org/10.1016/j.jechem.2020.02.032>., Registrované v: WOS
4. [1.1] WANG, Hao - LEE, Jong-Min. Recent advances in structural engineering of MXene electrocatalysts. In *JOURNAL OF MATERIALS CHEMISTRY A*. ISSN 2050-7488, 2020, vol. 8, no. 21, pp. 10604-10624. Dostupné na: <https://doi.org/10.1039/d0ta03271a>., Registrované v: WOS
5. [1.1] YIN, Juanjuan - ZHANG, Lun - JIAO, Tifeng - ZOU, Guodong - BAI, Zhenhua - CHEN, Yan - ZHANG, Qingrui - XIA, Meirong - PENG, Qiuming. Highly Efficient Catalytic Performances of Nitro Compounds and Morin via Self-Assembled MXene-Pd Nanocomposites Synthesized through Self-Reduction Strategy. In *NANOMATERIALS*. ISSN 2079-4991, 2019, vol. 9, no. 7, pp., Registrované v: WOS
6. [1.1] YUE, Rengli - XIA, Meirong - WANG, Meiqiu - CHEN, Peixian - GONG, WenMei - LIAO, Shijie - LI, Zhiping - GAO, Faming - ZHANG, Lin - WANG, Jing. TiN and TiC as stable and promising supports for oxygen reduction reaction: Theoretical and experimental study. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2019, vol. 495, no., pp., Registrované v: WOS
7. [1.1] ZHANG, Chuang - MA, Ben - ZHOU, Yingke - WANG, Cheng. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 865, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114142>., Registrované v: WOS
8. [1.1] ZHANG, Xiaobao - SHAO, Baiyi - SUN, Zemin - GAO, Zhe - QIN, Yong - ZHANG, Ce - CUI, Fangming - YANG, Xiaojing. Platinum Nanoparticle-Deposited Ti₃C₂T_x MXene for Hydrogen Evolution Reaction. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 5, pp. 1822-1828. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b05046>., Registrované v: WOS

ADCA363 FILIP, Jaroslav - TKÁČ, Ján. The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. In *Bioelectrochemistry*, 2014, vol.

96, p. 14-20. (2013: 3.870 - IF, Q1 - JCR, 0.947 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2013.11.007>

Ohlasy:

1. [1.1] AL-LOLAGE, Firas A. - BARTLETT, Philip N. - GOUNEL, Sebastien - STAIGRE, Priscilla - MANO, Nicolas. Site-Directed Immobilization of Bilirubin Oxidase for Electrocatalytic Oxygen Reduction. In ACS CATALYSIS. ISSN 2155-5435, 2019, vol. 9, no. 3, pp. 2068-2078., Registrované v: WOS
2. [1.1] ANTIOCHIA, Riccarda - OYARZUN, Diego - SANCHEZ, Julio - TASCA, Federico. Comparison of Direct and Mediated Electron Transfer for Bilirubin Oxidase from *Myrothecium Verrucaria*. Effects of Inhibitors and Temperature on the Oxygen Reduction Reaction. In CATALYSTS, 2019, vol. 9, no. 12, pp., Registrované v: WOS
3. [1.1] BRAGA DE SOUZA, Ana Maria - FOGLIATO, Daniela Karin - PETRONI, Jacqueline Marques - FERREIRA, Valdir Souza - LUCCA, Bruno Gabriel. Voltammetric study and electroanalytical determination of contraceptive levonorgestrel using silver solid amalgam electrode fabricated with nanoparticles. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY. ISSN 0306-7319, 2019, vol. 99, no. 5, pp. 397-408., Registrované v: WOS
4. [1.1] DONG, Li - YU, Wenjuan - LIU, Minmin - LIU, Yang - SHAO, Qinsi - LI, Aijun - YAN, Wei - ZHANG, Jiujun. Novel Composite Electrode of the Reduced Graphene Oxide Nanosheets with Gold Nanoparticles Modified by Glucose Oxidase for Electrochemical Reactions. In CATALYSTS, 2019, vol. 9, no. 9, pp., Registrované v: WOS
5. [1.1] CHUMILLAS, Sara - MAESTRO, Beatriz - FELIU, Juan M. - CLIMENT, Victor. Comprehensive Study of the Enzymatic Catalysis of the Electrochemical Oxygen Reduction Reaction (ORR) by Immobilized Copper Efflux Oxidase (CueO) From *Escherichia coli*. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
6. [1.1] ITOH, Tetsuji - SHIBUYA, Yuuta - YAMAGUCHI, Akira - HOSHIKAWA, Yasuto - TANAIKE, Osamu - TSUNODA, Tatsuo - HANAOKA, Taka-aki - HAMAKAWA, Satoshi - MIZUKAMI, Fujio - HAYASHI, Akari - KYOTANI, Takashi - STUCKY, Galen D. High-performance bioelectrocatalysts created by immobilization of an enzyme into carbon-coated composite membranes with nano-tailored structures. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2017, vol. 5, no. 38, pp. 20244-20251., Registrované v: WOS
7. [1.1] LUCCA, Bruno Gabriel - PETRONI, Jacqueline Marques - FERREIRA, Valdir Souza. Voltammetric determination of insecticide thiodicarb through its electrochemical reduction using novel solid amalgam electrode fabricated with silver nanoparticles. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 246, no., pp. 748-756., Registrované v: WOS
8. [1.1] LUCCA, Bruno Gabriel - PETRONI, Jacqueline Marques - FERREIRA, Valdir Souza. Electrochemical study and voltammetric determination of sodium diethyldithiocarbamate using silver nanoparticles solid amalgam electrode. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY. ISSN 0306-7319, 2018, vol. 98, no. 9, pp. 859-873., Registrované v: WOS

9. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
10. [1.1] NAZEMI, Zahra - PRASAD, Pallavi - CHAKRABORTY, Saumen. Kinetics of Oxygen Reduction by a Beta Barrel Heme Protein on Hybrid Bioelectrodes. In CHEMELECTROCHEM. ISSN 2196-0216, 2020, vol. 7, no. 4, pp. 1029-1037. Dostupné na: <https://doi.org/10.1002/celc.201901945>., Registrované v: WOS
11. [1.1] RADZEVIC, Aneta - NIAURA, Gediminas - IGNATJEV, Ilja - RAKICKAS, Tomas - CELIESIUTE, Raimonda - PAULIUKAITE, Rasa. Electropolymerisation of the natural monomer riboflavin and its characterisation. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 222, no., pp. 1818-1830., Registrované v: WOS
12. [1.1] TSUJIMURA, Seiya - MURATA, Kazuki. Electrochemical Oxygen Reduction Catalyzed by Bilirubin Oxidase with the Aid of 2,2'-Azinobis(3-ethylbenzothiazolin-6-sulfonate) on a MgO-template Carbon Electrode. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 180, no., pp. 555-559., Registrované v: WOS
13. [1.1] VALLES, Morgane - KAMARUDDIN, Amirah F. - WONG, Lu Shin - BLANFORD, Christopher F. Inhibition in multicopper oxidases: a critical review. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2020, vol. 10, no. 16, pp. 5386-5410. Dostupné na: <https://doi.org/10.1039/d0cy00724b>., Registrované v: WOS
14. [1.1] WANG, Jian - LI, Yanfei - LI, Chao - ZENG, Xinping - TANG, Wenwei - CHEN, Xuejin. A voltammetric study on the interaction between isoproterenol and cardiomyocyte DNA by using a glassy carbon electrode modified with carbon nanotubes, polyaniline and gold nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 8, pp. 2999-3006., Registrované v: WOS
15. [1.1] YANG YANG - HUO WEN-SHAN - ZHOU ZHENG - ZHANG QI - ZENG HAN. Direct Electrochemistry of Electrode Modified with Thin Film of Laccase Immobilized in Nano-Composite of Polyaniline-CoC₂O₄. In CHINESE JOURNAL OF INORGANIC CHEMISTRY. ISSN 1001-4861, 2016, vol. 32, no. 12, pp. 2117-2128., Registrované v: WOS
16. [1.1] ZENG, Han - ZHANG, Yu He - MA, Ting Mei - HUO, Wen Shan. Investigation on Electrochemical Behavior and Catalytic Function of Glassy Carbon Electrode on the Basis of Magnetic Nano-particle with Simultaneous Incorporation of Myoglobin and Electron Mediator. In JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS. ISSN 1574-1443, 2018, vol. 28, no. 6, pp. 2730-2741., Registrované v: WOS
17. [1.2] WALGAMA, Charuksha - PATHIRANAGE, Anuruddha - AKINWALE, Mayowa - MONTEALEGRE, Roberto - NIROULA, Jinesh - ECHEVERRIA, Elena - MCILROY, David N. - HARRIMAN, Tres A. - LUCCA, Don A. - KRISHNAN, Sadagopan. Buckypaper-Bilirubin Oxidase Biointerface for Electrocatalytic Applications: Buckypaper Thickness. In ACS Applied Bio Materials, 2019-05-20, 2, 5, pp. 2229-2236., Registrované v: SCOPUS

ADCA364 FRAŇOVÁ, Lucia - PUCHART, Vladimír - BIELY, Peter.

β -Glucuronidase-coupled assays of glucuronoyl esterases. In *Analytical Biochemistry*, 2016, vol. 510, p. 114-119. (2015: 2.243 - IF, Q2 - JCR, 0.729 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2016.07.023>

Ohlasy:

1. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
3. [1.1] ZANG, Yuping - GUO, Na - JIAO, Jiao - WANG, Xiqing - GAI, Qingyan - XU, Wenjing - FU, Yujie. Application of magnetically immobilized edible fungus for the biotransformation of panax notoginseng saponin Rbl to Rd and Rg3. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2017, vol. 1061, no., pp. 306-313., Registrované v: WOS
4. [1.2] CONACHER, C. G. - GARCÍA-APARICIO, M. P. - COETZEE, G. - VAN ZYL, W. H. - GOSRGENS, J. F. Scalable methanol-free production of recombinant glucuronoyl esterase in *Pichia pastoris*. In *BMC Research Notes*, 2019-09-18, 12, 1, pp., Registrované v: SCOPUS

ADCA365 FREIRE, F. - CUESTA, I. - CORZANA, F. - REVUELTA, J. - GONZÁLEZ, C. - HRICOVÍNI, Miloš - BASTIDA, A. - JIMÉNEZ-BARBERO, J. - ASENSIO, J.L. A simple NMR analysis of the protonation equilibrium that accompanies aminoglycoside recognition: Dramatic alternations in the neomycin-B protonation state upon binding to a 23-mer RNA aptamer. In *Chemical Communications*, 2007, issue 2, p. 174-176. Dostupné na: <https://doi.org/10.1039/b611597g>

Ohlasy:

1. [1.1] DUCHARDT-FERNER, Elke - GOTTSTEIN-SCHMIDTKE, Sina R. - WEIGAND, Julia E. - OHLENSCHLAEGER, Oliver - WURM, Jan-Philip - HAMMANN, Christian - SUESS, Beatrix - WOEHNERT, Jens. What a Difference an OH Makes: Conformational Dynamics as the Basis for the Ligand Specificity of the Neomycin-Sensing Riboswitch. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2016, vol. 55, no. 4, pp. 1527-1530., Registrované v: WOS
2. [1.1] JOHN, Torsten - VOO, Zhi Xiang - KUBEIL, Clemens - ABEL, Bernd - GRAHAM, Bim - SPICCIA, Leone - MARTIN, Lisandra L. Effects of guanidino modified aminoglycosides on mammalian membranes studied using a quartz crystal microbalance. In *MEDCHEMCOMM*. ISSN 2040-2503, 2017, vol. 8, no. 5, pp. 1112-1120., Registrované v: WOS
3. [1.1] KULIK, Marta - MORI, Takaharu - SUGITA, Yuji - TRYLSKA, Joanna. Molecular mechanisms for dynamic regulation of N1 riboswitch by aminoglycosides. In *NUCLEIC ACIDS RESEARCH*. ISSN

- 0305-1048, 2018, vol. 46, no. 19, pp. 9960-9970., Registrované v: WOS
4. [1.1] LEEDER, W. Matthias - REUSS, Andreas J. - BRECHT, Michael - KRATZ, Katja - WACHTVEITL, Josef - GOERINGER, H. Ulrich. Charge Reduction and Thermodynamic Stabilization of Substrate RNAs Inhibit RNA Editing. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 3, pp., Registrované v: WOS
5. [1.1] SUN, Peili - RAO, Danling - ZHANG, Pu - QIN, Yujun - GUO, Zhi-Xin. Protonation behaviour of 2-phenyl-1,3-diazaazulene derivatives. In TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 7, pp. 731-739., Registrované v: WOS

ADCA366 FRINGANT, C. - TVAROŠKA, Igor - MAZEAU, K. - RINAUDO, M. - DESBRIERES, J. Hydration of α -maltose and amylose: Molecular modelling and thermodynamics study. In *Carbohydrate Research*, 1995, vol. 278, p. 27-41. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(95\)00232-1](https://doi.org/10.1016/0008-6215(95)00232-1)

Ohlasy:

1. [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS
2. [1.1] BALACHANDRAMOHAN, Jayachandrabal - SIVASANKAR, Thirugnanasambandam. Ultrasound assisted synthesis of guar gum-zero valent iron nanocomposites as a novel catalyst for the treatment of pollutants. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 41-50., Registrované v: WOS
3. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. A simple approach for the sonochemical synthesis of Fe₃O₄-guar gum nanocomposite and its catalytic reduction of p-nitroaniline. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS
4. [1.1] JAMIR, Kizukala - BADITHI, Nanibabu - VENUMADHAV, Kusuma - SESHAGIRIRAO, Kottapalli. Characterization and comparative studies of galactomannans from Bauhinia vahlii, Delonix elata, and Peltophorum pterocarpum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 134, no., pp. 498-506., Registrované v: WOS
5. [1.1] KOTENA, Zahrabatoul Mosapour - BIN MOHAMAD, Saharuddin. Bifurcated hydrogen bond in rare sugar by computational study. In MOLECULAR CRYSTALS AND LIQUID CRYSTALS. ISSN 1542-1406, 2017, vol. 646, no. 1, pp. 31-40., Registrované v: WOS
6. [1.1] LIM, Ya-Mei - HOOBIN, Pamela - YING, DanYang - BURGAR, Iko - GOOLEY, Paul R. - AUGUSTIN, Mary Ann. Physical characterisation of high amylose maize starch and acylated high amylose maize starches. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 279-285., Registrované v: WOS
7. [1.1] LIU, Shuai - JIA, Mengyun - CHEN, Jiajun - WAN, Haisheng - DONG, Ruihong - NIE, Shaoping - XIE, Mingyong - YU, Qiang. Removal of bound polyphenols and its effect on antioxidant and prebiotics properties of carrot dietary fiber. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol.

93, no., pp. 284-292., Registrované v: WOS

8. [1.1] LI, Rui - TANG, Ning - JIA, Xin - NIRASAWA, Satoru - BIAN, Xiaojia - ZHANG, Peifeng - CHENG, Yongqiang. Isolation, physical, structural characterization and in vitro prebiotic activity of a galactomannan extracted from endosperm splits of Chinese Sesbania cannabina seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 1217-1226. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.177>., Registrované v: WOS

9. [1.1] MATHEWS, Patrick D. - MERTINS, Omar. Dispersion of chitosan in liquid crystalline lamellar phase: Production of biofriendly hydrogel of nano cubic topology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 850-857., Registrované v: WOS

10. [1.1] MUNIR, Hira - SHAHID, Muhammad - ANJUM, Fozia - MUDGIL, Deepak. Structural, thermal and rheological characterization of modified Dalbergia sissoo gum-A medicinal gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 84, no., pp. 236-245., Registrované v: WOS

11. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Intensification of degradation of guar gum: Comparison of approaches based on ozone, ultraviolet and ultrasonic irradiations. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 98, no., pp. 165-173., Registrované v: WOS

12. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Intensification of depolymerization of aqueous guar gum using hydrodynamic cavitation. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 93, no., pp. 1-9., Registrované v: WOS

13. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Depolymerization of guar gum solution using different approaches based on ultrasound and microwave irradiations. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 88, no., pp. 1-9., Registrované v: WOS

14. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Depolymerization of carboxymethyl cellulose using hydrodynamic cavitation combined with ultraviolet irradiation and potassium persulfate. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2019, vol. 51, no., pp. 258-263., Registrované v: WOS

15. [1.1] SAHOO, Jitendra Kumar - KUMAR, Aniket - RATH, Juhi - MOHANTY, Tanuja - DASH, Priyabrat - SAHOO, Harekrushna. Guar gum-coated iron oxide nanocomposite as an efficient adsorbent for Congo red dye. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2017, vol. 95, no., pp. 342-354., Registrované v: WOS

16. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Recombinant GH-26 endo-mannanase from Bacillus sp CFR1601: Biochemical characterization and application in preparation of partially hydrolysed guar gum. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 64, no. 2, pp. 809-816., Registrované v: WOS

17. [1.1] STUBENRAUCH, Cosima - HAMANN, Martin - PREISIG, Natalie - CHAUHAN, Vinay - BORDES, Romain. On how hydrogen bonds affect foam stability. In ADVANCES IN COLLOID AND INTERFACE SCIENCE. ISSN 0001-8686, 2017, vol. 247, no., pp. 435-443., Registrované v:

WOS

18. [1.1] TOIVONEN, Matti S. - KURKI-SUONIO, Sauli - SCHACHER, Felix H. - HIETALA, Sami - ROJAS, Orlando J. - IKKALA, Olli.

Water-Resistant, Transparent Hybrid Nanopaper by Physical Cross-Linking with Chitosan. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 3, pp. 1062-1071., Registrované v: WOS

19. [1.1] VILGIS, Thomas A. Soft matter food physics-the physics of food and cooking. In REPORTS ON PROGRESS IN PHYSICS. ISSN 0034-4885, 2015, vol. 78, no. 12, pp., Registrované v: WOS

20. [1.1] WEI, Peng - GUO, Kaidi - PU, Wanfen - XIE, Yahong - HUANG, Xueli - ZHANG, Junlan. Aqueous Foam Stabilized by an in Situ Hydrophobic Polymer via Interaction with Alkyl Polyglycoside for Enhancing Oil Recovery. In ENERGY & FUELS. ISSN 0887-0624, 2020, vol. 34, no. 2, pp. 1639-1652. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b03977>., Registrované v: WOS

21. [1.1] ZHANG, Xiaowei - CHEN, Tingting - LIM, Jongbin - GU, Fangting - FANG, Fang - CHENG, Lilin - CAMPANELLA, Osvaldo H. - HAMAKER, Bruce R. Acid gelation of soluble laccase-crosslinked corn bran arabinoxylan and possible gel formation mechanism. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 92, no., pp. 1-9., Registrované v: WOS

22. [1.2] BOUTTIER-FIGUEROA, D. C. - QUEVEDO-LÓPEZ, M. A. - ROSAS-DURAZO, A. - SOTELO-LERMA, M. Hydrothermal technique for isolation of galactomannan from seeds of sonoran mezquite (*Prosopis* spp.). In Revista Mexicana de Ingeniera Quimica. ISSN 16652738, 2017-08-01, 16, 2, pp. 457-465., Registrované v: SCOPUS

ADCA367 FUJIMOTO, Zui - ICHINOSE, Hitomi - BIELY, Peter - KANEKO, Satoshi. Crystallization and preliminary crystallographic analysis of the glycoside hydrolase family 115 alfa-glucoronidase from *Streptomyces pristinaespiralis*. In *Acta Crystallographica Section F*, 2011, vol. F67, p. 68-71. (2010: 0.563 - IF, Q4 - JCR). ISSN 1744-3091.

Ohlasy:

1. [1.1] MARTINEZ, Patricia Murciano - APPELDOORN, Maaike M. - GRUPPEN, Harry - KABEL, Mirjam A. The two *Rasamsonia emersonii* alpha-glucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

2. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 alpha-glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS

3. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioprospects. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v:

WOS

4. [1.1] WANG, Weijun - YAN, Ruoyu - NOCEK, Boguslaw P. - VUONG, Thu V. - DI LEO, Rosa - XU, Xiaohui - CUI, Hong - GATENHOLM, Paul - TORIZ, Guillermo - TENKANEN, Maija - SAVCHENKO, Alexei - MASTER, Emma R. Biochemical and Structural Characterization of a Five-domain GH115-Glucuronidase from the Marine Bacterium *Saccharophagus degradans* 2-40(T). In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 27, pp. 14120-14133., Registrované v: WOS
5. [1.1] YAN, Ruoyu - VUONG, Thu V. - WANG, Weijun - MASTER, Emma R. Action of a GH115 alpha-glucuronidase from *Amphibacillus xylanus* at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 104, no., pp. 22-28., Registrované v: WOS
6. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from *Scheffersomyces stipitis*. In *Industrial Biotechnology*. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS

ADCA368 FUSKA, J. - PROKSA, Bohumil - WILLIAMSON, J. - ROSAZZA, J.P. Microbiological and chemical dehydrogenation of Withaferin A. In *Folia Microbiologica*, 1987, vol. 32, p. 112-115. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02883237>

Ohlasy:

1. [1.1] DAI, Tianming - JIANG, Weifan - GUO, Zizheng - WANG, Zhenyu - HUANG, Mingping - ZHONG, Guorui - LIANG, Chuxin - PEI, Xuzhe - DAI, Renke. Studies on oral bioavailability and first-pass metabolism of withaferin A in rats using LC-MS/MS and Q-TRAP. In *BIOMEDICAL CHROMATOGRAPHY*. ISSN 0269-3879, 2019, vol. 33, no. 9, pp., Registrované v: WOS
2. [1.1] DHAMI, Jasdeep - CHANG, Edwin - GAMBHIR, Sanjiv S. Withaferin A and its potential role in glioblastoma (GBM). In *JOURNAL OF NEURO-ONCOLOGY*. ISSN 0167-594X, 2017, vol. 131, no. 2, pp. 201-211., Registrované v: WOS

ADCA369 FUSKA, J. - FUSKOVÁ, A. - PROKSA, Bohumil. New cyto-toxic and antitumor agents. 7. Derivatives of 1-benzylideneisoindolin-3-one and 5,6-dihydro-8Hisoquinolo(2,3-a)phthalasin-5-one. In *Neoplasma*, 1985, vol. 32, p. 407-414. ISSN 0028-2685.

Ohlasy:

1. [1.1] SANGSHETTI, Jaiprakash - PATHAN, Shahebaaz K. - PATIL, Rajesh - ANSARI, Siddique Akber - CHHAJED, Santosh - AROTE, Rohidas - SHINDE, Devanand B. Synthesis and biological activity of structurally diverse phthalazine derivatives: A systematic review. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2019, vol. 27, no. 18, pp. 3979-3997., Registrované v: WOS

ADCA370 FUSKA, J. - PROKSA, B. - UHRÍN, Dušan. The antibiotics PSX-1 produced by *Penicillium stipitatum* is identical with botryodiplodine. In *Folia microbiologica*,

1988, vol. 33, p. 238-240. ISSN 0015-5632. Dostupné na:
<https://doi.org/10.1007/BF02925912>

Ohlasy:

1. [1.1] HASHIMOTO, Makoto - WAKANA, Daigo - UEDA, Miki - KOBAYASHI, Daisuke - GODA, Yukihiro - FUJII, Isao. Product identification of non-reducing polyketide synthases with C-terminus methyltransferase domain from *Talaromyces stipitatus* using *Aspergillus oryzae* heterologous expression. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2015, vol. 25, no. 7, pp. 1381-1384., Registrované v: WOS
2. [1.1] KOUL, Mytre - SINGH, Shashank. *Penicillium* spp.: prolific producer for harnessing cytotoxic secondary metabolites. In ANTI-CANCER DRUGS. ISSN 0959-4973, 2017, vol. 28, no. 1, pp. 11-30., Registrované v: WOS
3. [1.1] SUKHORUKOV, Alexey Yu. - SUKHANOVA, Anna A. - ZLOTIN, Sergei G. Stereoselective reactions of nitro compounds in the synthesis of natural compound analogs and active pharmaceutical ingredients. In TETRAHEDRON. ISSN 0040-4020, 2016, vol. 72, no. 41, pp. 6191-6281., Registrované v: WOS

ADCA371 FUSKA, J. - UHRÍN, Dušan - PROKSA, Bohumil - VOTICKÝ, Zdeno - RUPPELDT, J. The structure of vermistatin a new metabolite from *Penicillium vermiculatum*. In *Journal of Antibiotics*, 1986, vol. 39, p. 1605-1608. ISSN 0021-8820.

Ohlasy:

1. [1.1] AWASTHI, Amardeep - SINGH, Mandeep - RATHEE, Garima - CHANDRA, Ramesh. Recent advancements in synthetic methodologies of 3-substituted phthalides and their application in the total synthesis of biologically active natural products. In RSC ADVANCES, 2020, vol. 10, no. 21, pp. 12626-12652. Dostupné na: <https://doi.org/10.1039/d0ra00701c>., Registrované v: WOS
2. [1.1] GUBIANI, Juliana R. - WIJERATNE, E. M. Kithsiri - SHI, Taoda - ARAUJO, Angela R. - ARNOLD, A. Elizabeth - CHAPMAN, Eli - GUNATILAKA, A. A. Leslie. An epigenetic modifier induces production of (10'S)-verruculide B, an inhibitor of protein tyrosine phosphatases by *Phoma* sp nov LG0217, a fungal endophyte of *Parkinsonia microphylla*. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2017, vol. 25, no. 6, pp. 1860-1866., Registrované v: WOS
3. [1.1] LEON, Alejandra - DEL-ANGEL, Mayela - LUISA AVILA, Jose - DELGADO, Guillermo. Phthalides: Distribution in Nature, Chemical Reactivity, Synthesis, and Biological Activity. In PROGRESS IN THE CHEMISTRY OF ORGANIC NATURAL PRODUCTS, VOL 104. ISSN 2191-7043, 2017, vol. 104, no., pp. 127-246., Registrované v: WOS
4. [1.1] LIU, Wen-Hong - ZHAO, Hong - LI, Rong-Qun - ZHENG, Hong-Bin - YU, Qin. Polyketides and Meroterpenoids from *Neosartorya glabra*. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2015, vol. 98, no. 4, pp. 515-519., Registrované v: WOS
5. [1.1] NGUYEN, Dung M. T. - DO, Lien M. T. - NGUYEN, Vy T. - CHAVASIRI, Warinthorn - MORTIER, Jacques - NGUYEN, Phung P. K. Phenolic Compounds from the Lichen *Lobaria orientalis*. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 2, pp. 261-268., Registrované v: WOS

6. [1.1] NONAKA, Kenichi - IWATSUKI, Masato - HORIUCHI, Syunsuke - SHIOMI, Kazuro - OMURA, Satoshi - MASUMA, Rokuro. Induced production of BE-31405 by co-culturing of *Talaromyces siamensis* FKA-61 with a variety of fungal strains. In JOURNAL OF ANTIBIOTICS. ISSN 0021-8820, 2015, vol. 68, no. 9, pp. 573-578., Registrované v: WOS
7. [1.1] SALVATORE, Maria Michela - DELLAGRECA, Marina - NICOLETTI, Rosario - SALVATORE, Francesco - VINALE, Francesco - NAVIGLIO, Daniele - ANDOLFI, Anna. Talarodiolide, a New 12-Membered Macrodilide, and GC/MS Investigation of Culture Filtrate and Mycelial Extracts of *Talaromyces pinophilus*. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 4, pp., Registrované v: WOS
8. [1.1] WANG, Rui - XU, Hongyan - LI, Tingting - ZHANG, Ying - WANG, Shoufeng - CHEN, Guozhu - LI, Cuncheng - ZHAO, Huaqing. Iridium/Copper-Catalyzed Oxidative C-H/O-H Annulation of Benzoic Acids with Saturated Ketones for Accessing 3-Substituted Phthalides. In CHEMCATCHEM. ISSN 1867-3880, 2020, vol. 12, no. 23, pp. 5907-5911. Dostupné na: <https://doi.org/10.1002/cctc.202001214>., Registrované v: WOS
9. [1.1] ZHAI, Ming-Ming - NIU, Hai-Tao - LI, Jie - XIAO, Hui - SHI, Yan-Ping - DI, Duo-Long - CREWS, Phillip - WU, Quan-Xiang. Talaromycolides A-C, Novel Phenyl-Substituted Phthalides Isolated from the Green Chinese Onion-Derived Fungus *Talaromyces pinophilus* AF-02. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 43, pp. 9558-9564., Registrované v: WOS
10. [1.2] HE, Xiao Ping - SU, Deng Quan - DING, Li Jian - HE, Shan. Secondary metabolites of co-culture of *Alternaria alternata* YX-25 and *Streptomyces exfoliatus* YX-32. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-12-28, 49, 24, pp. 5772-5779., Registrované v: SCOPUS

ADCA372 GAJDOŠOVÁ, A. - PETRULÁKOVÁ, Z. - HAVRLETOVÁ, M. - ČERVENÁ, V. - HOZOVÁ, B. - ŠTURDÍK, E. - KOGAN, Grigorij. The content of water-soluble and water-insoluble beta-D-glucans in selected oats and barley varieties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 70, s. 46-52. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2007.03.001>

Ohlasy:

1. [1.1] BRENNAN, Margaret A. - LAN, Tianying - BRENNAN, Charles S. SYNERGISTIC EFFECTS OF BARLEY, OAT AND LEGUME MATERIAL ON PHYSICOCHEMICAL AND GLYCEMIC PROPERTIES OF EXTRUDED CEREAL BREAKFAST PRODUCTS. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2016, vol. 40, no. 3, pp. 405-413., Registrované v: WOS
2. [1.1] INGLETT, George E. - CHEN, Diejun - LIU, Sean X. Physical properties of gluten-free sugar cookies made from amaranth-oat composites. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 63, no. 1, pp. 214-220., Registrované v: WOS
3. [1.1] KARIMI, Reza - AZIZI, Mohammad Hossein - XU, Qin. Effect of different enzymatic extractions on molecular weight distribution, rheological and microstructural properties of barley bran beta-glucan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019,

vol. 126, no., pp. 298-309., Registrované v: WOS

4. [1.1] MITMESSER, S. - COMBS, M. Prebiotics: Inulin and Other Oligosaccharides. In MICROBIOTA IN GASTROINTESTINAL PATHOPHYSIOLOGY: IMPLICATIONS FOR HUMAN HEALTH, PREBIOTICS, PROBIOTICS, AND DYSBIOSIS, 2017, vol., no., pp. 201-208., Registrované v: WOS

5. [1.1] REBELLO, Candida J. - O'NEIL, Carol E. - GREENWAY, Frank L. Dietary fiber and satiety: the effects of oats on satiety. In NUTRITION REVIEWS. ISSN 0029-6643, 2016, vol. 74, no. 2, pp. 131-147., Registrované v: WOS

6. [1.1] SYKUT-DOMANSKA, Emilia - RZEDZICKI, Zbigniew - ZARZYCKI, Piotr - SOBOTA, Aldona - BLASZCZAK, Wioletta. Distribution of (1,3)(1,4)-beta-D-Glucans in Grains of Polish Oat Cultivars and Lines (*Avena sativa* L.) Short Report. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2016, vol. 66, no. 1, pp. 51-56., Registrované v: WOS

7. [1.1] YANG, Ling - YU, Peiqiang. Synchrotron-based and global-sourced molecular (micro)spectroscopy contributions to advances in new hullless barley (with structure alteration) research on molecular structure, molecular nutrition, and nutrient delivery. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 1, pp. 224-236., Registrované v: WOS

8. [1.2] LOSKUTOV, I. G. - POLONSKIY, V. I. Content of β -glucans in oat grain as a perspective direction of breeding for health products and fodder. In Sel'skokhozyaistvennaya Biologiya. ISSN 01316397, 2017-01-01, 52, 4, pp. 646-657., Registrované v: SCOPUS

9. [1.2] MITMESSER, S. - COMBS, M. Prebiotics: Inulin and Other Oligosaccharides. In The Microbiota in Gastrointestinal Pathophysiology: Implications for Human Health, Prebiotics, Probiotics, and Dysbiosis, 2016-11-30, pp. 201-208., Registrované v: SCOPUS

10. [1.2] SENHOFA, S. - STRAUMITE, E. - SABOVICS, M. - KLAVA, D. - GALOBURDA, R. - RAKCEJEVA, T. The effect of packaging type on quality of cereal muesli during storage. In Agronomy Research. ISSN 1406894X, 2015-07-17, 13, 4, pp. 1064-1073., Registrované v: SCOPUS

11. [3.2] Tsandekova, O.L.; Neverova, O.A. The peculiarities of hulled barley in the evaluation of its productivity and quality of grain (review). IN Zernovoe khozyaistvo Rossii Source: Зерновое хозяйство России, 2017, iss. 5, p. 12-15., Registrované v: Russian Science Citation Index

ADCA373 GAJDOŠOVÁ, Silvia - SPÍCHAL, Lukáš - KAMÍNEK, Miroslav - HOYEROVÁ, Klára - NOVÁK, Ondřej - DOBREV, Petre I. - GALUSZKA, Petr - KLÍMA, Petr - GAUDINOVÁ, Alena - ŽIŽKOVÁ, Eva - HANUŠ, Jan - DANČÁK, Martin - TRÁVNÍČEK, Bohumil - PEŠEK, Bedřich - KRUPÍČKA, Martin - VAŇKOVÁ, Radomíra - STRNAD, Miroslav - MOTYKA, Václav. Distribution, biological activities, metabolism, and the conceivable function of cis-zeatin-type cytokinins in plants. In *Journal of experimental botany*, 2011, vol. 62, p. 2827-2840. (2010: 4.818 - IF, Q1 - JCR, 2.373 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0022-0957. Dostupné na: <https://doi.org/10.1093/jxb/erq457>

Ohlasy:

1. [1.1] ADLER, Sophie - VERDEIL, Jean-Luc - CONEJERO, Genevieve - ZAHARIA, Irina L. - SARRAZIN, Amelie - HOAREAU, Julien - FOCK-BASTIDE, Isabelle - NOIROT, Michel. Impact of the laurina mutation in *Coffea arabica* L. on semi-dwarfism, cell number and hormonal profiles in hypocotyls of seedlings growing under daylight. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2015, vol. 29, no. 4, pp. 1197-1205., Registrované v: WOS
2. [1.1] BOWERMAN, Andrew F. - NEWBERRY, Marcus - DIELEN, Anne-Sophie - WHAN, Alex - LARROQUE, Oscar - PRITCHARD, Jenifer - GUBLER, Frank - HOWITT, Crispin A. - POGSON, Barry J. - MORELL, Matthew K. - RAL, Jean-Philippe. Suppression of glucan, water dikinase in the endosperm alters wheat grain properties, germination and coleoptile growth. In *PLANT BIOTECHNOLOGY JOURNAL*. ISSN 1467-7644, 2016, vol. 14, no. 1, pp. 398-408., Registrované v: WOS
3. [1.1] BOWMAN, John L. - BRIGINSHAW, Liam N. - FISHER, Tom J. - FLORES-SANDOVAL, Eduardo. Something ancient and something neofunctionalized-evolution of land plant hormone signaling pathways. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2019, vol. 47, no., pp. 64-72., Registrované v: WOS
4. [1.1] CAI, Wen-Jing - YE, Tian-Tian - WANG, Qing - CAI, Bao-Dong - FENG, Yu-Qi. A rapid approach to investigate spatiotemporal distribution of phytohormones in rice. In *PLANT METHODS*. ISSN 1746-4811, 2016, vol. 12, no., pp., Registrované v: WOS
5. [1.1] CORTLEVEN, Anne - SCHMUELLING, Thomas. Regulation of chloroplast development and function by cytokinin. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2015, vol. 66, no. 16, pp. 4999-5013., Registrované v: WOS
6. [1.1] DONG, Xiu-mei - LI, Yuan - CHAO, Qing - SHEN, Jie - GONG, Xiu-jie - ZHAO, Biligen-gaowa - WANG, Bai-chen. Analysis of gene expression and histone modification between C-4 and non-C-4 homologous genes of PPDK and PCK in maize. In *PHOTOSYNTHESIS RESEARCH*. ISSN 0166-8595, 2016, vol. 129, no. 1, pp. 71-83., Registrované v: WOS
7. [1.1] GOGGIN, Danica E. - EMERY, R. J. Neil - KUREPIN, Leonid V. - POWLES, Stephen B. A potential role for endogenous microflora in dormancy release, cytokinin metabolism and the response to fluridone in *Lolium rigidum* seeds. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2015, vol. 115, no. 2, pp. 293-301., Registrované v: WOS
8. [1.1] GUPTA, Shubhpriya - PLACKOVA, Lenka - KULKARNI, Manoj G. - DOLEZAL, Karel - VAN STADEN, Johannes. Role of Smoke Stimulatory and Inhibitory Biomolecules in Phytochrome-Regulated Seed Germination of *Lactuca sativa*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2019, vol. 181, no. 2, pp. 458-470., Registrované v: WOS
9. [1.1] HOENIG, Martin - PLIHALOVA, Lucie - HUSICKOVA, Alexandra - NISLER, Jaroslav - DOLEZAL, Karel. Role of Cytokinins in Senescence, Antioxidant Defence and Photosynthesis. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS
10. [1.1] HRTYAN, Monika - SLIKOVA, Eva - HEJATKO, Jan - RUZICKA, Kamil. RNA processing in auxin and cytokinin pathways. In

- JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 16, pp. 4897-4912., Registrované v: WOS
11. [1.1] HU, Bin - SAKAKIBARA, Hitoshi - KOJIMA, Mikiko - TAKEBAYASHI, Yumiko - BUSSKAMP, Johanna - LANGER, Gitta J. - PETERS, Franziska S. - SCHUMACHER, Joerg - EIBLMEIER, Monika - KREUZWIESER, Juergen - RENNENBERG, Heinz. Consequences of Sphaeropsis tip blight disease for the phytohormone profile and antioxidative metabolism of its pine host. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2018, vol. 41, no. 4, pp. 737-754., Registrované v: WOS
12. [1.1] JAMESON, Paula Elizabeth - SONG, Jiancheng. Cytokinin: a key driver of seed yield. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2016, vol. 67, no. 3, pp. 593-606., Registrované v: WOS
13. [1.1] JANECKOVA, Helena - HUSICKOVA, Alexandra - FERRETTI, Ursula - PRCINA, Maros - PILAROVA, Eva - PLACKOVA, Lenka - POSPISIL, Pavel - DOLEZAL, Karel - SPUNDOVA, Martina. The interplay between cytokinins and light during senescence in detached Arabidopsis leaves. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2018, vol. 41, no. 8, pp. 1870-1885., Registrované v: WOS
14. [1.1] JAWOREK, Pavel - KOPECNY, David - ZALABAK, David - SEBELA, Marek - KOURIL, Stepan - HLUSKA, Tomas - KONCITIKOVA, Radka - PODLESAKOVA, Katerina - TARKOWSKI, Petr. Occurrence and biosynthesis of cytokinins in poplar. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 1, pp. 229-244., Registrované v: WOS
15. [1.1] JIANG, Yun - MI, Xianna - LIN, Ying - WU, Han - GU, Tingting - DING, Jing - LI, Yi. Evolution and expression patterns of cytokinin oxidase genes in *Fragaria vesca*. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2016, vol. 212, no., pp. 115-125., Registrované v: WOS
16. [1.1] KESHISHIAN, Erika A. - RASHOTTE, Aaron M. Plant cytokinin signalling. In PLANT HORMONE SIGNALLING. ISSN 0071-1365, 2015, vol. 58, no., pp. 13-27., Registrované v: WOS
17. [1.1] KIEBER, Joseph J. - SCHALLER, G. Eric. Cytokinin signaling in plant development. In DEVELOPMENT. ISSN 0950-1991, 2018, vol. 145, no. 4, pp., Registrované v: WOS
18. [1.1] KOESLIN-FINDEKLEE, Fabian - BECKER, Martin A. - VANDER GRAAFF, Eric - ROITSCH, Thomas - HORST, Walter J. Differences between winter oilseed rape (*Brassica napus* L.) cultivars in nitrogen starvation-induced leaf senescence are governed by leaf-inherent rather than root-derived signals. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 13, pp. 3669-3681., Registrované v: WOS
19. [1.1] KOLACHEVSKAYA, O. O. - SERGEEVA, L. I. - GETMAN, I. A. - LOMIN, S. N. - SAVELIEVA, E. M. - ROMANOV, G. A. Core features of the hormonal status in in vitro grown potato plants. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, 2018, vol. 13, no. 5, pp., Registrované v: WOS
20. [1.1] LIU, Weiqiu - XU, Jianqu - FU, Wei - WANG, Xiangyuan - LEI, Chunyi - CHEN, Yunfeng. Evidence of stress imprinting with population-level differences in two moss species. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2019, vol. 9, no. 11, pp. 6329-6341., Registrované v: WOS
21. [1.1] LI, Qinchun - YANG, Xiaoyan - WANG, Hongbin - WANG, Haijuan - HE, Shujuan. Endogenous trans-zeatin content in plants with different

- metal-accumulating ability: a field survey. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 23, pp. 23422-23435., Registrované v: WOS
22. [1.1] MORRISON, Erin N. - EMERY, R. J. Neil - SAVILLE, Barry J. Phytohormone Involvement in the Ustilago maydis-Zea mays Pathosystem: Relationships between Absciscic Acid and Cytokinin Levels and Strain Virulence in Infected Cob Tissue. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 6, pp., Registrované v: WOS
23. [1.1] MORRISON, Erin N. - KNOWLES, Sarah - HAYWARD, Allison - THORN, R. Greg - SAVILLE, Barry J. - EMERY, R. J. N. Detection of phytohormones in temperate forest fungi predicts consistent abscisic acid production and a common pathway for cytokinin biosynthesis. In MYCOLOGIA. ISSN 0027-5514, 2015, vol. 107, no. 2, pp. 245-257., Registrované v: WOS
24. [1.1] MULLER, Renate - ACOSTA-MOTOS, Jose R. - GROSSKINSKY, Dominik K. - HERNANDEZ, Jose A. - LUTKEN, Henrik - BARBA-ESPIN, Gregorio. UV-B Exposure of Black Carrot (Daucus carota ssp. sativus var. atrorubens) Plants Promotes Growth, Accumulation of Anthocyanin, and Phenolic Compounds. In AGRONOMY-BASEL. ISSN 2073-4395, 2019, vol. 9, no. 6, pp., Registrované v: WOS
25. [1.1] MUTHAMILARASAN, Mehanathan - PRASAD, Manoj. Genetic Determinants of Drought Stress Tolerance in Setaria. In GENETICS AND GENOMICS OF SETARIA, 2017, vol. 19, no., pp. 267-289., Registrované v: WOS
26. [1.1] NISHII, Kanae - WRIGHT, Frank - CHEN, Yun-Yu - MOLLER, Michael. Tangled history of a multigene family: The evolution of ISOPENTENYLTRANSFERASE genes. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
27. [1.1] PRATAMA, S. P. - YUNUS, A. - PURWANTO, E. - WIDYASTUTI, Y. The effect of cutting origin and organic plant growth regulator on the growth of Daun Ungu (Graptophyllum pictum) through stem cutting method. In 4TH INTERNATIONAL CONFERENCE ON SUSTAINABLE AGRICULTURE AND ENVIRONMENT (4TH ICSAE). ISSN 1755-1307, 2018, vol. 142, no., pp., Registrované v: WOS
28. [1.1] PRUDENT, Marion - SALON, Christophe - SMITH, Donald L. - EMERY, R. J. Neil. Nod factor supply under water stress conditions modulates cytokinin biosynthesis and enhances nodule formation and N nutrition in soybean. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, 2016, vol. 11, no. 9, pp., Registrované v: WOS
29. [1.1] ROSTAMI, Saeid - AZHDARPOOR, Aboolfazl. The application of plant growth regulators to improve phytoremediation of contaminated soils: A review. In CHEMOSPHERE. ISSN 0045-6535, 2019, vol. 220, no., pp. 818-827., Registrované v: WOS
30. [1.1] SEEGOBBIN, Mark - KISIALA, Anna - NOBLE, Adam - KAPLAN, David - BRUNETTI, Craig - EMERY, R. J. Neil. Canis familiaris tissues are characterized by different profiles of cytokinins typical of the tRNA degradation pathway. In FASEB JOURNAL. ISSN 0892-6638, 2018, vol. 32, no. 12, pp. 6575-6581., Registrované v: WOS
31. [1.1] SILVA-NAVAS, Avier - CONESA, Carlos M. - SAEZ, Angela - NAVARRO-NEILA, Sara - GARCIA-MINA, Jose M. - ZAMARRENO, Angel M. - BAIGORRI, Roberto - SWARUP, Ranjan - DEL POZO, Juan C. Role of

- cis-zeatin in root responses to phosphate starvation. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2019, vol. 224, no. 1, pp. 242-257., Registrované v: WOS
32. [1.1] SPALLEK, Thomas - GAN, Pamela - KADOTA, Yasuhiro - SHIRASU, Ken. Same tune, different song cytokinins as virulence factors in plant-pathogen interactions? In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2018, vol. 44, no., pp. 82-87., Registrované v: WOS
33. [1.1] TAMESHIGE, Toshiaki - HIRAKAWA, Yuki - TORII, Keiko U. - UCHIDA, Naoyuki. Cell walls as a stage for intercellular communication regulating shoot meristem development. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
34. [1.1] TUGIZIMANA, Fidele - STEENKAMP, Paul A. - PIATER, Lizelle A. - LABUSCHAGNE, Nico - DUBERY, Ian A. Unravelling the Metabolic Reconfiguration of the Post-Challenge Primed State in Sorghum bicolor Responding to Colletotrichum sublineolum Infection. In *METABOLITES*, 2019, vol. 9, no. 10, pp., Registrované v: WOS
35. [1.1] WANG, Shengman - WANG, Lihong - HUA, Weiqi - ZHOU, Min - WANG, Qingqing - ZHOU, Qing - HUANG, Xiaohua. Effects of bisphenol A, an environmental endocrine disruptor, on the endogenous hormones of plants. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2015, vol. 22, no. 22, pp. 17653-17662., Registrované v: WOS
36. [1.1] YURKOV, Andrey - VESELOVA, Svetlana - JACOBI, Lidia - STEPANOVA, Galina - YEMELYANOV, Vladislav - KUDOYAROVA, Guzel - SHISHOVA, Maria. The effect of inoculation with arbuscular mycorrhizal fungus Rhizophagus irregularis on cytokinin content in a highly mycotrophic Medicago lupulina line under low phosphorus level in the soil. In *PLANT SOIL AND ENVIRONMENT*. ISSN 1214-1178, 2017, vol. 63, no. 11, pp. 519-524., Registrované v: WOS
37. [1.1] ZHANG, Hui - GUIGUET, Antoine - DUBREUIL, Geraldine - KISIALA, Anna - ANDREAS, Peter - EMERY, R. J. Neil - HUGUET, Elisabeth - BODY, Melanie - GIRON, David. Dynamics and origin of cytokinins involved in plant manipulation by a leaf-mining insect. In *INSECT SCIENCE*. ISSN 1672-9609, 2017, vol. 24, no. 6, pp. 1065-1078., Registrované v: WOS
38. [1.1] ZUR, Iwona - DUBAS, Ewa - KRZEWSKA, Monika - WALIGORSKI, Piotr - DZIURKA, Michal - JANOWIAK, Franciszek. Hormonal requirements for effective induction of microspore embryogenesis in triticale (x Triticosecale Wittm.) anther cultures. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2015, vol. 34, no. 1, pp. 47-62., Registrované v: WOS
39. [1.2] AN, Xianjin - XIAO, Baohua - DI, Xinyue - DONG, Hui - TANG, Haiming. Research progress on aging of organic pollutants in geosorbents: a review. In *Acta Geochimica*. ISSN 20960956, 2017-03-01, 36, 1, pp. 27-43., Registrované v: SCOPUS
40. [1.2] NGUYEN, Quoc Thien - KISIALA, Anna - ANDREAS, Peter - NEIL EMERY, R. J. - NARINE, Suresh. Soybean seed development: Fatty acid and phytohormone metabolism and their interactions. In *Current Genomics*. ISSN 13892029, 2016-06-01, 17, 3, pp. 241-260., Registrované v: SCOPUS
41. [1.2] PEKAROVA, Blanka - SZMITKOWSKA, Agnieszka - HOUSER, Josef - WIMMEROVA, Michaela - HEJÁTKO, Jan. Cytokinin and ethylene signaling. In *Plant Structural Biology: Hormonal Regulations*, 2018-08-17, pp. 165-200., Registrované v: SCOPUS
42. [1.2] RISHU, Sharma - SHAILESH KUMAR, Singh - SAURABH

KUMAR, Singh - SANJAY, Singh - SONAM. Cytokinin-a potential plant growth regulator for strawberry (*Fragaria X ananassa* Duch.) production. In Research Journal of Chemistry and Environment. ISSN 09720626, 2019-05-01, 23, 5, pp. 107-113., Registrované v: SCOPUS

43. [1.2] ROBIN, Arif Hasan Khan - HOSSAIN, Mohammad Rashed - KIM, Hoy Taek - NOU, Ill Sup - PARK, Jong In. Role of cytokinins in clubroot disease development. In Plant Breeding and Biotechnology. ISSN 22879358, 2019-06-01, 7, 2, pp. 73-82., Registrované v: SCOPUS

44. [1.2] YANG, Yaqian - FU, Ying - ZHOU, Mingbing. Identification of Cytokinin Related Genes and Characterization of Their Expression in *Phyllostachys edulis* Shoots. In Linze Kexue/Scientia Silvae Sinicae. ISSN 10017488, 2019-12-01, 55, 12, pp. 61-73., Registrované v: SCOPUS

45. [3.2] Al-Maali, G. A.; Vedenicheva, N. P.; Bisko, N. A.; Kosakivska, I., V. Effect of microelements on cytokinins content in mycelial biomass of medicinal mushroom *Trametes versicolor* (Polyporaceae, Basidiomycota). In: Ukrayins'kyi Botanichnyi Zhurnal. ISSN: 0372-4123, 2019, Volume: 76 Issue: 1 Pages: 71-78

ADCA374 GARAJOVÁ, Soňa - MATHIEU, Yann - BECCIA, Maria Rosa - BENNATI-GRANIER, Chloé - BIASO, Frédéric - FANUEL, Mathieu - ROPARTZ, David - GUIGLIARELLI, Bruno - RECORD, Eric - ROGNIAUX, Héléne - HENRISSAT, Bernard - BERRIN, Jean-Guy. Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. In *Scientific Reports*, 2016, vol. 6, art. no. 28276. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/srep28276>

Ohlasy:

1. [1.1] ANDBERG, Martina - MOLLERUP, Filip - PARIKKA, Kirsti - KOUTANIEMI, Sanna - BOER, Harry - JUVONEN, Minna - MASTER, Emma - TENKANEN, Maija - KRUUS, Kristiina. A Novel *Colletotrichum graminicola* Raffinose Oxidase in the AA5 Family. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS

2. [1.1] BENOCCI, Tiziano - DALY, Paul - AGUILAR-PONTES, Maria Victoria - LAIL, Kathleen - WANG, Mei - LIPZEN, Anna - NG, Vivian - GRIGORIEV, Igor V. - DE VRIES, Ronald P. Enzymatic Adaptation of *Podospora anserina* to Different Plant Biomass Provides Leads to Optimized Commercial Enzyme Cocktails. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 4, pp., Registrované v: WOS

3. [1.1] BISSARO, Bastien - ROHR, Asmund K. - MULLER, Gerdt - CHYLENSKI, Piotr - SKAUGEN, Morten - FORSBERG, Zarah - HORN, Svein J. - VAAJE-KOLSTAD, Gustav - EIJSINK, Vincent G. H. Oxidative cleavage of polysaccharides by monocopper enzymes depends on H₂O₂. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 10, pp. 1123-+., Registrované v: WOS

4. [1.1] BISSARO, Bastien - VARNAL, Aniko - ROHR, Asmund K. - EIJSINK, Vincent G. H. Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 4, pp., Registrované v: WOS

5. [1.1] BRENELLI, Livia - SQUINA, Fabio M. - FELBY, Claus - CANNELLA, David. Laccase-derived lignin compounds boost cellulose oxidative enzymes AA9. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
6. [1.1] BRESLMAYR, Erik - DALY, Sarah - POZGAJCIC, Alen - CHANG, Hucheng - REZIC, Tonci - OOSTENBRINK, Chris - LUDWIG, Roland. Improved spectrophotometric assay for lytic polysaccharide monooxygenase. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no. 1, pp., Registrované v: WOS
7. [1.1] EIJSINK, Vincent G. H. - PETROVIC, Dejan - FORSBERG, Zarah - MEKASHA, Sophanit - ROHR, Asmund K. - VARNAL, Aniko - BISSARO, Bastien - VAAJE-KOLSTAD, Gustav. On the functional characterization of lytic polysaccharide monooxygenases (LPMOs). In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
8. [1.1] FORSBERG, Zarah - BISSARO, Bastien - GULLESEN, Jonathan - DALHUS, Bjorn - VAAJE-KOLSTAD, Gustav - EIJSINK, Vincent G. H. Structural determinants of bacterial lytic polysaccharide monooxygenase functionality. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 4, pp. 1397-1412., Registrované v: WOS
9. [1.1] FRANDSEN, Kristian E. H. - LO LEGGIO, Leila. Lytic polysaccharide monooxygenases: a crystallographer's view on a new class of biomass-degrading enzymes. In IUCRJ. ISSN 2052-2525, 2016, vol. 3, no., pp. 448-467., Registrované v: WOS
10. [1.1] FRANDSEN, Kristian E. H. - POULSEN, Jens-Christian N. - TANDRUP, Tobias - LO LEGGIO, Leila. Unliganded and substrate bound structures of the cellobiosaccharide active lytic polysaccharide monooxygenase LsAA9A at low pH. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 187-190., Registrované v: WOS
11. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
12. [1.1] HADDAD MOMENI, Majid - LETH, Maria Louise - STERNBERG, Claus - SCHOOF, Erwin - NIELSEN, Maïke Wennekers - HOLCK, Jesper - WORKMAN, Christopher T. - HOOFF, Jakob Blaesbjerg - ABOU HACHEM, Maher. Loss of AA13 LPMOs impairs degradation of resistant starch and reduces the growth of *Aspergillus nidulans*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01775-z>., Registrované v: WOS
13. [1.1] HANGASKY, John A. - DETOMASI, Tyler C. - MARLETTA, Michael A. Glycosidic Bond Hydroxylation by Polysaccharide Monooxygenases. In TRENDS IN CHEMISTRY, 2019, vol. 1, no. 2, pp. 198-209., Registrované v: WOS
14. [1.1] HEGNAR, Olav A. - PETROVIC, Dejan M. - BISSARO, Bastien - ALFREDSEN, Gry - VARNAL, Aniko - EIJSINK, Vincent G. H. pH-Dependent Relationship between Catalytic Activity and Hydrogen Peroxide Production Shown via Characterization of a Lytic Polysaccharide Monooxygenase from *Gloeophyllum trabeum*. In APPLIED AND

ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 5, pp., Registrované v: WOS

15. [1.1] CHYLENSKI, Piotr - BISSARO, Bastien - SORLIE, Morten - ROHR, Asmund K. - VARNAI, Aniko - HORN, Svein J. - EIJSINK, Vincent G. H. Lytic Polysaccharide Monooxygenases in Enzymatic Processing of Lignocellulosic Biomass. In ACS CATALYSIS. ISSN 2155-5435, 2019, vol. 9, no. 6, pp. 4970-4991., Registrované v: WOS

16. [1.1] JOHANSEN, Katja Salomon. Lytic Polysaccharide Monooxygenases: The Microbial Power Tool for Lignocellulose Degradation. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2016, vol. 21, no. 11, pp. 926-936., Registrované v: WOS

17. [1.1] KADIC, Adnan - CHYLENSKI, Piotr - HANSEN, Mads Anders Tengstedt - BENGTTSSON, Oskar - EIJSINK, Vincent G. H. - LIDEN, Gunnar. Oxidation-reduction potential (ORP) as a tool for process monitoring of H₂O₂/LPMO assisted enzymatic hydrolysis of cellulose. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 86, no., pp. 89-97., Registrované v: WOS

18. [1.1] KADOWAKI, Marco A. S. - VARNAI, Aniko - JAMESON, John-Kristian - LEITE, Ana E. T. - COSTA-FILHO, Antonio J. - KUMAGAI, Patricia S. - PRADE, Rolf A. - POLIKARPOV, Igor - EIJSINK, Vincent G. H. Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus *Myceliophthora thermophila*. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS

19. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Systematic review of publicly available non-Dikarya fungal proteomes for understanding their plant biomass-degrading and bioremediation potentials. In BIORESOURCES AND BIOPROCESSING, 2019, vol. 6, no. 1, pp., Registrované v: WOS

20. [1.1] KOJIMA, Yuka - VARNAI, Aniko - ISHIDA, Takuya - SUNAGAWA, Naoki - PETROVIC, Dejan M. - IGARASHI, Kiyohiko - JELLISON, Jody - GOODELL, Barry - ALFREDSEN, Gry - WESTERENG, Bjorge - EIJSINK, Vincent G. H. - YOSHIDA, Makoto. A Lytic Polysaccharide Monooxygenase with Broad Xyloglucan Specificity from the Brown-Rot Fungus *Gloeophyllum trabeum* and Its Action on Cellulose-Xyloglucan Complexes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2016, vol. 82, no. 22, pp. 6557-6572., Registrované v: WOS

21. [1.1] KOJIMA, Yuka - VARNAI, Aniko - EIJSINK, Vincent G. H. - YOSHIDA, Makoto. The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, 2020, vol. 32, no. 188, pp. E135-E143. Dostupné na: <https://doi.org/10.4052/tigg.2020.7E>., Registrované v: WOS

22. [1.1] KRACHER, Daniel - FORSBERG, Zarah - BISSARO, Bastien - GANGL, Sonja - PREIMS, Marita - SYGMUND, Christoph - EIJSINK, Vincent G. H. - LUDWIG, Roland. Polysaccharide oxidation by lytic polysaccharide monooxygenase is enhanced by engineered cellobiose dehydrogenase. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 5, pp. 897-908. Dostupné na: <https://doi.org/10.1111/febs.15067>., Registrované v: WOS

23. [1.1] KUUSK, Silja - BISSARO, Bastien - KUUSK, Piret - FORSBERG, Zarah - EIJSINK, Vincent G. H. - SORLIE, Morten -

- VALJAMAE, Priit. Kinetics of H₂O₂-driven degradation of chitin by a bacterial lytic polysaccharide monooxygenase. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 2, pp. 523-531., Registrované v: WOS
24. [1.1] LI, Xin - HAN, Chao - LI, Weiguang - CHEN, Guanjun - WANG, Lushan. Insights into the cellulose degradation mechanism of the thermophilic fungus *Chaetomium thermophilum* based on integrated functional omics. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01783-z>., Registrované v: WOS
25. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospira anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
26. [1.1] MOLLERS, K. B. - MIKKELSEN, H. - SIMONSEN, T. I. - CANNELLA, D. - JOHANSEN, K. S. - BJERRUM, M. J. - FELBY, C. On the formation and role of reactive oxygen species in light-driven LPMO oxidation of phosphoric acid swollen cellulose. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 182-186., Registrované v: WOS
27. [1.1] MONCLARO, Antonielle Vieira - FERREIRA FILHO, Edivaldo Ximenes. Fungal lytic polysaccharide monooxygenases from family AA9: Recent developments and application in lignocellulose breakdown. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 771-778., Registrované v: WOS
28. [1.1] MUELLER, Gerdt - CHYLENSKI, Piotr - BISSARO, Bastien - EIJSINK, Vincent G. H. - HORN, Svein Jarle. The impact of hydrogen peroxide supply on LPMO activity and overall saccharification efficiency of a commercial cellulase cocktail. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
29. [1.1] MURALEEDHARAN, Madhu Nair - ZOURARIS, Dimitrios - KARANTONIS, Antonis - TOPAKAS, Evangelos - SANDGREN, Mats - ROVA, Ulrika - CHRISTAKOPOULOS, Paul - KARNAOURI, Anthi. Effect of lignin fractions isolated from different biomass sources on cellulose oxidation by fungal lytic polysaccharide monooxygenases. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
30. [1.1] MUTHURAMALINGAM, Sethuraman - MAHESHWARAN, Duraiyarasu - VELUSAMY, Marappan - MAYILMURUGAN, Ramasamy. Regioselective oxidative carbon-oxygen bond cleavage catalysed by copper(II) complexes: A relevant model study for lytic polysaccharides monooxygenases activity. In JOURNAL OF CATALYSIS. ISSN 0021-9517, 2019, vol. 372, no., pp. 352-361., Registrované v: WOS
31. [1.1] NEKIUNAITE, Laura - ARNTZEN, Magnus O. - SVENSSON, Birte - VAAJE-KOLSTAD, Gustav - ABOU HACHEM, Maher. Lytic polysaccharide monooxygenases and other oxidative enzymes are abundantly secreted by *Aspergillus nidulans* grown on different starches. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
32. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Enzymatic processing of

- lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS
33. [1.1] PETERBAUER, Clemens K. Pyranose dehydrogenases: Rare enzymes for electrochemistry and biocatalysis. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2019.107399>., Registrované v: WOS
34. [1.1] RIBEIRO CORREA, Thamy Livia - TOMAZINI JUNIOR, Atilio - WOLF, Lucia Daniela - BUCKERIDGE, Marcos Silveira - DOS SANTOS, Leandro Vieira - MURAKAMI, Mario Tyago. An actinobacteria lytic polysaccharide monooxygenase acts on both cellulose and xylan to boost biomass saccharification. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no., pp., Registrované v: WOS
35. [1.1] SUETZL, Leander - LAURENT, Christophe V. F. P. - ABRERA, Annabelle T. - SCHUETZ, Georg - LUDWIG, Roland - HALTRICH, Dietmar. Multiplicity of enzymatic functions in the CAZy AA3 family. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2477-2492., Registrované v: WOS
36. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. - PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian - DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Evidence for ligninolytic activity of the ascomycete fungus *Podospira anserina*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01713-z>., Registrované v: WOS
37. [1.1] VARNAI, Aniko - UMEZAWA, Kiwamu - YOSHIDA, Makoto - EIJSINK, Vincent G. H. The Pyrroloquinoline-Quinone-Dependent Pyranose Dehydrogenase from *Coprinopsis cinerea* Drives Lytic Polysaccharide Monooxygenase Action. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v: WOS
38. [1.1] VODOVNIK, Masa - VRABEC, Katja - HELIWIG, Patrick - BENNDORF, Dirk - SEZUN, Mija - GREGORI, Andrej - GOTTUMUKKALA, Lalitha D. - ANDERSON, Robin C. - REICHL, Udo. Valorisation of deinking sludge as a substrate for lignocellulolytic enzymes production by *Pleurotus ostreatus*. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2018, vol. 197, no., pp. 253-263., Registrované v: WOS
39. [1.1] VU, Van V. - SON TUNG NGO. Copper active site in polysaccharide monooxygenases. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2018, vol. 368, no., pp. 134-157., Registrované v: WOS
40. [1.1] WESTERENG, Bjorge - LOOSE, Jennifer S. M. - VAAJE-KOLSTAD, Gustav - AACHMANN, Finn L. - SORLIE, Morten - EIJSINK, Vincent G. H. Analytical Tools for Characterizing Cellulose-Active Lytic Polysaccharide Monooxygenases (LPMOs). In CELLULASES: METHODS AND PROTOCOLS. ISSN 1064-3745, 2018, vol. 1796, no., pp. 219-246., Registrované v: WOS
41. [1.1] XU, Rong - LIU, Xiaochen - PENG, Bing - LIU, Peibin - LI, Zhuang - DAI, Yueting - XIAO, Shijun. Genomic Features of *Cladobotryum dendroides*, Which Causes Cobweb Disease in Edible Mushrooms, and

Identification of Genes Related to Pathogenicity and Mycoparasitism. In PATHOGENS, 2020, vol. 9, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/pathogens9030232>., Registrované v: WOS

42. [1.1] ZHANG, Ruiqin - LIU, Yucui - ZHANG, Yi - FENG, Dan - HOU, Shaoli - GUO, Wei - NIU, Kangle - JIANG, Yi - HAN, Lijuan - SINDHU, Lara - FANG, Xu. Identification of a thermostable fungal lytic polysaccharide monooxygenase and evaluation of its effect on lignocellulosic degradation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 14, pp. 5739-5750., Registrované v: WOS

43. [1.1] ZHANG, Ruiqin. Functional characterization of cellulose-degrading AA9 lytic polysaccharide monooxygenases and their potential exploitation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 8, pp. 3229-3243. Dostupné na: <https://doi.org/10.1007/s00253-020-10467-5>., Registrované v: WOS

44. [1.1] ZHOU, Xiaoli - ZHU, Honghui. Current understanding of substrate specificity and regioselectivity of LPMOs. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-0300-6>., Registrované v: WOS

45. [1.1] ZOURARIS, D. - DIMAROGONA, M. - KARNAOURI, A. - TOPAKAS, E. - KARANTONIS, A. Direct electron transfer of lytic polysaccharide monooxygenases (LPMOs) and determination of their formal potentials by large amplitude Fourier transform alternating current cyclic voltammetry. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2018, vol. 124, no., pp. 149-155., Registrované v: WOS

46. [1.2] BRESLMAYR, Erik - HANŽEK, Marija - HANRAHAN, Aoife - LEITNER, Christian - KITTL, Roman - ŠANTEK, Božidar - OOSTENBRINK, Chris - LUDWIG, Roland. A fast and sensitive activity assay for lytic polysaccharide monooxygenase. In Biotechnology for Biofuels. ISSN 17546834, 2018-03-23, 11, 1, pp., Registrované v: SCOPUS

47. [1.2] HEGNAR, Olav A. - PETROVIC, Dejan M. - BISSARO, Bastien - ALFREDSEN, Gry - VÁRNAI, Anikó - EIJSINK, Vincent G.H. pHdependent relationship between catalytic activity and hydrogen peroxide production shown via characterization of a lytic polysaccharide monooxygenase from Gloeophyllum trabeum. In Applied and Environmental Microbiology. ISSN 00992240, 2018-01-01, 85, 5, pp., Registrované v: SCOPUS

48. [1.2] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In Chemical Reviews. ISSN 00092665, 2018-03-14, 118, 5, pp. 2593-2635., Registrované v: SCOPUS

ADCA375 GEMEINER, Peter - BREIER, Albert. Aldehydic derivatives of bead cellulose-Relationship between the matrix structure and function in immobilization of enzymes catalyzing hydrolysis of high molecular substrates. In *Biotechnol.Bioeng*, 1982, vol. 24, p. 2573-2583. Dostupné na: <https://doi.org/10.1002/bit.260241119>

Ohlasy:

1. [1.1] LINDH, Jonas - RUAN, Changqing - STROMME, Maria -

MIHRANYAN, Albert. Preparation of Porous Cellulose Beads via Introduction of Diamine Spacers. In LANGMUIR. ISSN 0743-7463, 2016, vol. 32, no. 22, pp. 5600-5607., Registrované v: WOS

2. [1.2] LUNDBLAD, Roger L. Chemical Modification Of Biological Polymers. In Chemical Modification of Biological Polymers, 2016-04-19, pp. 1-406., Registrované v: SCOPUS

ADCA376 GEMEINER, Peter - DOČOLOMANSKÝ, Peter - VIKARTOVSKÁ, Alica - ŠTEFUCA, V. Amplification of flow-microcalorimetry signal by means of multiple bioaffinity layering of lectin and glycoenzyme. In *Biotechnology and Applied Biochemistry*, 1998, vol. 28, p. 155-161. ISSN 0885-4513.

Ohlasy:

1. [1.2] SARIHI, Pouria - AZADKHAH SHALMANI, Armin - ARABAN, Vida - RAOUFI, Mohammad. Nanoparticles for biosensing. In *Advanced Structured Materials*. ISSN 18698433, 2019-01-01, 104, pp. 121-143., Registrované v: SCOPUS

ADCA377 GEMEINER, Peter - ŠTEFUCA, V. - BÁLEŠ, V. Biochemical engineering of biocatalysts immobilized on cellulosic materials. In *Enzyme and Microbial Technology*, 1993, vol. 15, p. 551-566. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/0141-0229\(93\)90017-V](https://doi.org/10.1016/0141-0229(93)90017-V)

Ohlasy:

1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Cellulose Esters. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 293-427., Registrované v: WOS

2. [1.1] KIM, Sung Hee - KIM, Min Hoo - KIM, Ji Hyun - PARK, Saerom - KIM, Hyungsup - WON, Keehoon - LEE, Sang Hyun. Preparation of artificial wood films with controlled biodegradability. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2015, vol. 132, no. 25, pp., Registrované v: WOS

3. [1.1] MURGUIA-FLORES, Dennise A. - BONILLA-RIOS, Jaime - CANALES-FISCAL, Martha R. - SANCHEZ-FERNANDEZ, Antonio. Protein adsorption through Chitosan-Alginate membranes for potential applications. In *CHEMISTRY CENTRAL JOURNAL*. ISSN 1752-153X, 2016, vol. 10, no., pp., Registrované v: WOS

4. [1.1] PARK, Saerom - KIM, Sung Hee - KIM, Ji Hyun - YU, Hyejeong - KIM, Hyung Joo - YANG, Yung-Hun - KIM, Hyungsup - KIM, Yong Hwan - HA, Sung Ho - LEE, Sang Hyun. Application of cellulose/lignin hydrogel beads as novel supports for immobilizing lipase. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2015, vol. 119, no., pp. 33-39., Registrované v: WOS

5. [1.1] PARK, Saerom - KIM, Sung Hee - WON, Keehoon - CHOI, Joon Weon - KIM, Yong Hwan - KIM, Hyung Joo - YANG, Yung-Hun - LEE, Sang Hyun. Wood mimetic hydrogel beads for enzyme immobilization. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 115, no., pp. 223-229., Registrované v: WOS

6. [1.1] RICCARDI, Caterina - MCCORMICK, Shelby - KASI, Rajeswari - KUMAR, Challa. A Modular Approach for Interlocking Enzymes in Whatman Paper. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*.

ISSN 1433-7851, 2018, vol. 57, no. 32, pp. 10158-10162., Registrované v: WOS
 7. [1.1] SULAIMAN, Safwan - MOKHTAR, Mohd Noriznan - NAIM, Mohd Nazli - BAHARUDDIN, Azhari Samsu - SULAIMAN, Alawi. A Review: Potential Usage of Cellulose Nanofibers (CNF) for Enzyme Immobilization via Covalent Interactions. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 175, no. 4, pp. 1817-1842., Registrované v: WOS
 8. [1.2] DUMITRIU, Severian - VIDAL, Pierre F. - CHORNET, Esteban. Hydrogels based on polysaccharides. In *Polysaccharides in Medicinal Applications*, 2017-01-01, pp. 125-241., Registrované v: SCOPUS

ADCA378 GEMEINER, Peter - KURILLOVÁ, Ľubica - MARKOVIČ, Oskar - MALOVÍKOVÁ, Anna - UHRÍN, Dušan - ILAVSKÝ, M. - ŠTEFUCA, V. - POLAKOVIČ, M. - BÁLEŠ, V. Calcium pectate gel beads for entrapment of cells. 3. Physical properties of calcium pectate and calcium alginate gel beads. In *Biotechnology and Applied Biochemistry*, 1991, vol. 13, p. 335-345. ISSN 0885-4513.

Ohlasy:

1. [1.1] WARD, Keeran - CORTES, Juan Guillermo Cediel - STUCKEY, David C. Alginate as a support ligand for enhanced colloidal liquid aphron immobilization of proteins and drug delivery. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, 2019, vol. 116, no. 12, pp. 3168-3178., Registrované v: WOS

ADCA379 GEMEINER, Peter - POLAKOVIC, M. - MISLOVIČOVÁ, Danica - ŠTEFUCA, V. Cellulose as an (bio) affinity carrier: properties, design and application. In *Journal of Chromatography. B. Biomedical Applications*, 1998, vol. 715, no. 1, p. 245-271. (1997: 1.588 - IF, Current Contents - CCC). (1998 - Current Contents, MEDLINE). ISSN 0378-4347. Dostupné na: [https://doi.org/10.1016/S0378-4347\(98\)00047-4](https://doi.org/10.1016/S0378-4347(98)00047-4)

Ohlasy:

1. [1.1] GUPTA, Vinod Kumar - GUPTA, Divya - AGARWAL, Shilpi - KOTHIYAL, N. C. - ASIF, M. - SOOD, Swadeep - PATHANIA, Deepak. Fabrication of chitosan-g-poly(acrylamide)/Cu nanocomposite for the removal of Pb(II) from aqueous solutions. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2016, vol. 224, no., pp. 1319-1325., Registrované v: WOS
 2. [1.1] LINDH, Jonas - RUAN, Changqing - STROMME, Maria - MIHRANYAN, Albert. Preparation of Porous Cellulose Beads via Introduction of Diamine Spacers. In *LANGMUIR*. ISSN 0743-7463, 2016, vol. 32, no. 22, pp. 5600-5607., Registrované v: WOS
 3. [1.1] LIU, Yujie - FU, Dongmei - XIAO, Yuansheng - GUO, Zhimou - YU, Long - LIANG, Xinmiao. Synthesis and evaluation of a silica-bonded concanavalin A material for lectin affinity enrichment of N-linked glycoproteins and glycopeptides. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2015, vol. 7, no. 1, pp. 25-28., Registrované v: WOS
 4. [1.1] SQUISSATO, Andre L. - LIMA, Alexandre F. - ALMEIDA, Eduardo S. - PASQUINI, Daniel - RICHTER, Eduardo M. - MUNOZ, Rodrigo A. A. Eucalyptus pulp as an adsorbent for metal removal from biodiesel. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 1-5., Registrované v: WOS

5. [1.2] BAJPAI, Anjali - SHARMA, Maya - GOND, Laxmi. Nanocomposites for environmental pollution remediation. In Sustainable Polymer Composites and Nanocomposites, 2019-01-01, pp. 1407-1440., Registrované v: SCOPUS
6. [1.2] MISHRA, Rupesh K. - SHARMA, Vinay. Biotic strategies for toxic heavy metal decontamination. In Recent Patents on Biotechnology. ISSN 18722083, 2017-12-01, 11, 3, pp. 218-228., Registrované v: SCOPUS

ADCA380 GEMEINER, Peter - MISLOVIČOVÁ, Danica - TKÁČ, Ján - ŠVITEL, Juraj - PÄTOPRSTÝ, Vladimír - HRABÁROVÁ, Eva - KOGAN, Grigorij - KOŽÁR, Tibor. Lectinomics II. A highway to biomedical/clinical diagnostics. In *Biotechnology Advances*, 2009, vol. 27, no. 1, p. 1-15. (2008: 6.110 - IF, Q1 - JCR, 2.267 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2008.07.003>

Ohlasy:

1. [1.1] AGNIEL, Remy - VENDRELY, Charlotte - POULOUIN, Laurent - BASCETIN, Ruemeyza - BENACHOUR, Hamanou - GALLET, Olivier - LEROY-DUDAL, Johanne. Lectins as probes for assessing the accessibility of N-linked glycans in relation to the conformational changes of fibronectin. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2015, vol. 28, no. 12, pp. 731-741., Registrované v: WOS
2. [1.1] ALVES, Ana Cecilia - VASCONCELOS, Mayron Alves - SANTIAGO, Mayara Queiroz - PINTO-JUNIOR, Vanir Reis - SILVA OSTERNE, Vinicius Jose - LOSSIO, Claudia Figueiredo - SOUZA FERREIRA BRINGEL, Pedro Henrique - CASTRO, Rondinelle Ribeiro - NAGANO, Celso Shiniti - DELATORRE, Plinio - GOMES SOUZA, Luiz Augusto - NASCIMENTO, Kyria Santiago - SAMPAIO ASSREUY, Ana Maria - CAVADA, Benildo Sousa. A novel vasorelaxant lectin purified from seeds of *Clathrotropis nitida*: partial characterization and immobilization in chitosan beads. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2015, vol. 588, no., pp. 33-40., Registrované v: WOS
3. [1.1] ANDREA FIORENTINO, Maria - ALBERTO PAOLICCHI, Fernando - MANUEL CAMPERO, Carlos - BARBEITO, Claudio G. Lectin binding patterns and immunohistochemical antigen detection in placenta and lungs of *Brucella abortus*-bovine infected fetuses. In OPEN VETERINARY JOURNAL. ISSN 2218-6050, 2018, vol. 8, no. 1, pp. 57-63., Registrované v: WOS
4. [1.1] BAI, C. Z. - JI, H. J. - FENG, M. L. - HAO, X. L. - ZHONG, Q. M. - CUI, X. D. - WANG, Z. H. Stimulation of dendritic cell maturation and induction of apoptosis in lymphoma cells by a stable lectin from buckwheat seeds. In GENETICS AND MOLECULAR RESEARCH. ISSN 1676-5680, 2015, vol. 14, no. 1, pp. 2162-2175., Registrované v: WOS
5. [1.1] BENACHOUR, H. - LEROY-DUDAL, J. - AGNIEL, R. - WILSON, J. - BRIAND, M. - CARREIRAS, F. - GALLET, O. Vitronectin (Vn) glycosylation patterned by lectin affinity assays A potent glycoproteomic tool to discriminate plasma Vn from cancer ascites Vn. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2018, vol. 31, no. 5, pp., Registrované v: WOS
6. [1.1] BI, Xiaodong - LI, Daojin - LIU, Zhen. Pattern Recognition of

- Monosaccharides via a Virtual Lectin Array Constructed by Boronate Affinity-Based pH-Featured Encoding. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 8, pp. 4442-4447., Registrované v: WOS
7. [1.1] CARVALHO, Aline de Souza - DA SILVA, Marcia Vanusa - GOMES, Francis Soares - GUEDES PAIVA, Patricia Maria - MALAFAIA, Carolina Barbosa - DA SILVA, Tulio Diego - DE MELO VAZ, Antonio Fernando - DA SILVA, Alexandre Gomes - DE SOUZA ARRUDA, Isabel Renata - NAPOLEAO, Thiago Henrique - CARNEIRO-DA-CUNHA, Maria das Gracas - DOS SANTOS CORREIA, Maria Tereza. Purification, characterization and antibacterial potential of a lectin isolated from *Apuleia leiocarpa* seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 75, no., pp. 402-408., Registrované v: WOS
8. [1.1] CAVADA, Benildo Sousa - PINTO-JUNIOR, Vanir Reis - OSTERNE, Vinicius Jose Silva - OLIVEIRA, Messias Vital - LOSSIO, Claudia Figueiredo - SILVA, Mayara Torquato Lima - BARI, Alfa Umáro - LIMA, Lara Dias - SOUZA-FILHO, Claudio Henrique Dahne - NASCIMENTO, Kyria Santiago. Comprehensive review on Caelsalpinioideae lectins: From purification to biological activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 333-348. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.161>., Registrované v: WOS
9. [1.1] CORDINA, Nicole M. - ZHANG, Wei - PACKER, Nicolle H. - WANG, Yuling. Rapid and sensitive glycan targeting by lectin-SERS assay. In MOLECULAR OMICS, 2020, vol. 16, no. 4, pp. 339-344. Dostupné na: <https://doi.org/10.1039/c9mo00181f>., Registrované v: WOS
10. [1.1] CUI, Bo - LI, Lu - ZENG, Qiyán - LIN, Faquan - YIN, Lijun - LIAO, Liejun - HUANG, Min - WANG, Jingping. A novel lectin from *Artocarpus lingnanensis* induces proliferation and Th1/Th2 cytokine secretion through CD45 signaling pathway in human T lymphocytes. In JOURNAL OF NATURAL MEDICINES. ISSN 1340-3443, 2017, vol. 71, no. 2, pp. 409-421., Registrované v: WOS
11. [1.1] DUARTE, Christiane Eliza Motta - ALAMILLO, Josefa M. - KOEHLER, Andrea Dias - PINEDA, Manuel - OTONI, Wagner Campos - DE OLIVEIRA, Leandro Licursi. Molecular and biochemical analyses of a novel lectin with MATH domains from *Brassica oleracea*. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2020, vol. 42, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03070-8>., Registrované v: WOS
12. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
13. [1.1] FERREIRA SOARES, Georgia de Sousa - BORGES LIMA, Cassia - CABRAL CAVALCANTI, Liliane - VILLACAMPA, Nadia - CASTELLANO, Bernardo - ARAUJO GUEDES, Rubem Carlos. Brain effects of the lectin from *Canavalia ensiformis* in adult rats previously suckled in favorable and unfavorable conditions: A spreading depression and microglia immunolabeling study. In NUTRITIONAL NEUROSCIENCE. ISSN 1028-415X, 2015, vol. 18, no. 7, pp. 307-315., Registrované v: WOS

14. [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
15. [1.1] HARMINI - EVVYERNIE, Dwierra A. - DEWI, Panca M. H. K. - WIDIAWATI, Yeni. Evaluation of Quality of FORAGE and Mineral Content on Elephant Grass (*Pennisetum purpureum*) at ex-Coal Mining. In INTERNATIONAL CONFERENCE ON BIOLOGY AND APPLIED SCIENCE (ICOBAS). ISSN 0094-243X, 2019, vol. 2120, no., pp., Registrované v: WOS
16. [1.1] HINOUE, Hiroshi - KIKUCHI, Seiya - OCHI, Rika - IGARASHI, Kota - TAKADA, Wataru - NISHIMURA, Shin-Ichiro. Synthetic glycopeptides reveal specific binding pattern and conformational change at O-mannosylated position of alpha-dystroglycan by POMGnT1 catalyzed GlcNAc modification. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2019, vol. 27, no. 13, pp. 2822-2831., Registrované v: WOS
17. [1.1] HIRABAYASHI, Jun - TATENO, Hiroaki - SHIKANAI, Toshihide - AOKI-KINOSHITA, Kiyoko F. - NARIMATSU, Hisashi. The Lectin Frontier Database (LfDB), and Data Generation Based on Frontal Affinity Chromatography. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 1, pp. 951-973., Registrované v: WOS
18. [1.1] LEYVA, Eduardo - MEDRANO-CERANO, Jorge L. - CANO-SANCHEZ, Patricia - LOPEZ-GONZALEZ, Itzel - GOMEZ-VELASCO, Homero - DEL RIO-PORTILLA, Federico - GARCIA-HERNANDEZ, Enrique. Bacterial expression, purification and biophysical characterization of wheat germ agglutinin and its four hevein-like domains. In BIOPOLYMERS. ISSN 0006-3525, 2019, vol. 110, no. 1, pp., Registrované v: WOS
19. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Label-free electrochemical analysis of biomacromolecules. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS
20. [1.1] PARK, H. - WALTA, S. - ROSENCRAITZ, R. R. - KOERNER, A. - SCHULTE, C. - ELLING, L. - RICHTERING, W. - BOEKER, A. Micelles from self-assembled double-hydrophilic PHEMA-glycopolymers as multivalent scaffolds for lectin binding. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 4, pp. 878-886., Registrované v: WOS
21. [1.1] PAVLIKOVA, Lucia - SERES, Mario - HANO, Milan - BOHACOVA, Viera - SEVCIKOVA, Ivana - KYCA, Tomas - BREIER, Albert - SULOVA, Zdena. L1210 Cells Overexpressing ABCB1 Drug Transporters Are Resistant to Inhibitors of the N- and O-glycosylation of Proteins. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS
22. [1.1] PINEDO, Marcela - GENOULA, Melanie - XIMENA SILVEYRA, Maria - CARVALHO, Andre De Oliveira - REGENTE, Mariana - DEL RIO, Marianela - SOARES, Julia Ribeiro - GOMES, Valdirene Moreira - DE LA CANAL, Laura. Anti-Neuroblastoma Properties of a Recombinant Sunflower Lectin. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 1, pp., Registrované v: WOS

23. [1.1] POIROUX, Guillaume - BARRE, Annick - VAN DAMME, Els J. M. - BENOIST, Herve - ROUGE, Pierre. Plant Lectins Targeting O-Glycans at the Cell Surface as Tools for Cancer Diagnosis, Prognosis and Therapy. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS
24. [1.1] SAMAH, Saoud - FATAH, Cherifi - JEAN-MARC, Berjeaud - SAFIA, Kellou-Tairi - FATIMA, Laraba-Djebari. Purification and characterization of Cc-Lec, C-type lactose-binding lectin: A platelet aggregation and blood-clotting inhibitor from Cerastes cerastes venom. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 336-350., Registrované v: WOS
25. [1.1] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - BABUSHKINA, Tatyana A. - YAMSKOV, Igor A. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Silver- and gold-labeled colloidal and crosslinked glycopolymers based on glycidyl glycosynthons and maleic anhydride copolymers for lectin binding. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 16, pp., Registrované v: WOS
26. [1.1] SARTIM, Marco A. - PINHEIRO, Matheus P. - DE PADUA, Ricardo A. P. - SAMPAIO, Suely V. - CRISTINA NONATO, M. Structural and binding studies of a C-type galactose-binding lectin from Bothrops jararacussu snake venom. In TOXICON. ISSN 0041-0101, 2017, vol. 126, no., pp. 59-69., Registrované v: WOS
27. [1.1] SARTIM, Marco A. - SAMPAIO, Suely V. Snake venom galactoside-binding lectins: a structural and functional overview. In JOURNAL OF VENOMOUS ANIMALS AND TOXINS INCLUDING TROPICAL DISEASES. ISSN 1678-9199, 2015, vol. 21, no., pp., Registrované v: WOS
28. [1.1] SOUSA, Bruno L. - SILVA-FILHO, Jose C. - KUMAR, Prashant - GRAEWERT, Melissa A. - PEREIRA, Ronniery I. - CUNHA, Rodrigo M. S. - NASCIMENTO, Kyria S. - BEZERRA, Gustavo A. - DELATORRE, Plinio - DJINOVIC-CARUGO, Kristina - NAGANO, Celso S. - GRUBER, Karl - CAVADA, Benildo S. Structural characterization of a Vatairea macrocarpa lectin in complex with a tumor-associated antigen: A new tool for cancer research. In INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY. ISSN 1357-2725, 2016, vol. 72, no., pp. 27-39., Registrované v: WOS
29. [1.1] SYED, Parvez - GIDWANI, Kamlesh - KEKKI, Henna - LEIVO, Janne - PETTERSSON, Kim - LAMMINMAKI, Urpo. Role of lectin microarrays in cancer diagnosis. In PROTEOMICS. ISSN 1615-9853, 2016, vol. 16, no. 8, pp. 1257-1265., Registrované v: WOS
30. [1.2] PEARSON, Amanda J. - GALLAGHER, Elyssia S. Overview of characterizing cancer glycans with lectin-based analytical methods. In Methods in Molecular Biology. ISSN 10643745, 2019-01-01, 1928, pp. 389-408., Registrované v: SCOPUS
31. [1.2] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - NOVIKOVA, Olga S. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Maleic anhydride copolymers as a base for neoglycoconjugate synthesis for lectin binding. In Materials for Biomedical Engineering: Thermoset and Thermoplastic Polymers, 2019-01-01, pp. 309-348., Registrované v: SCOPUS
32. [1.2] SAMOILOVA, N. A. - KRAYUKHINA, M. A. - LIKHOSHERSTOV, L. M. - YAMSKOV, I. A. - PISKAREV, V. E. Lectins: A

new approach to their sensing and isolation. In *Advances in Chemistry Research*, 2017-10-01, 41, pp. 91-143., Registrované v: SCOPUS

ADCA381 GEMEINER, Peter - KUNIAK, Ľudovít - ZEMEK, Juraj. Preparation of p-aminobenzyl cellulose and its utilization for immobilization of enzymes. In *Collection of Czechoslovak Chemical Communications*, 1980, vol. 45, p. 2847-2854. ISSN 0010-0765.

Ohlasy:

1. [1.1] HEINZE, Thomas - SIEBERT, Melanie - BERLIN, Peter - KOSCHELLA, Andreas. Biofunctional Materials Based on Amino Cellulose Derivatives A Nanobiotechnological Concept. In *MACROMOLECULAR BIOSCIENCE*. ISSN 1616-5187, 2016, vol. 16, no. 1, pp. 10-42., Registrované v: WOS

ADCA382 GEMEINER, Peter - KURILLOVÁ, Ľubica - MALOVÍKOVÁ, Anna - TÓTH, D. - TOMAŠOVIČOVÁ, D. Properties and spherical calcium pectate and alginate gels and their use in diffusion chromatography, solid preparations and immobilization of enzymes and cells. In *Folia Microbiologica*, 1989, vol. 34, p. 214-227. ISSN 0015-5632.

Ohlasy:

1. [1.1] HASSAN (EL-MOUSHY), Refat M. - KHAIROU, Khalid S. - AWAD, Aida M. New Aspects to Physicochemical Properties of Polymer Gels in Particularly the Coordination Biopolymeric Metal-Alginate Iontropic Hydrogels. In *POLYMER GELS: SYNTHESIS AND CHARACTERIZATION*. ISSN 2367-0061, 2018, vol., no., pp. 275-354., Registrované v: WOS
2. [1.1] JAFARY, Fariba - VARSHOSAZ, Jaleh - PANJEHPOUR, Mojtaba - YAGHMAEI, Parichehr. Immobilization of Alkaline Phosphatase Using Chitosan Nanoparticles. In *RUSSIAN JOURNAL OF APPLIED CHEMISTRY*. ISSN 1070-4272, 2015, vol. 88, no. 5, pp. 891-897., Registrované v: WOS

ADCA383 GEMEINER, Peter - AUGUSTÍN, J. - DROBNICA, Ľ. Reaction of cellulose isothiocyanates with mercapto and amino compounds. In *Carbohydrate Research*, 1977, vol. 53, p. 217-222. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)88089-1](https://doi.org/10.1016/S0008-6215(00)88089-1)

Ohlasy:

1. [1.1] ABUSHAMMALA, Hatem - MAO, Jia. A Review of the Surface Modification of Cellulose and Nanocellulose Using Aliphatic and Aromatic Mono- and Di-Isocyanates. In *MOLECULES*, 2019, vol. 24, no. 15, pp., Registrované v: WOS
2. [1.1] ABUSHAMMALA, Hatem. A Simple Method for the Quantification of Free Isocyanates on the Surface of Cellulose Nanocrystals upon Carbamation using Toluene Diisocyanate. In *SURFACES*, 2019, vol. 2, no. 2, pp. 444-454. Dostupné na: <https://doi.org/10.3390/surfaces2020032>., Registrované v: WOS
3. [3.1] Abushammala, H (Abushammala, Hatem). A Simple Method for the Quantification of Free Isocyanates on the Surface of Cellulose Nanocrystals upon Carbamation using Toluene Diisocyanate. In: *SURFACES*. ISSN: 2571-9637, 2019, Volume: 2 Pages: 444-454

ADCA384 GEMEINER, Peter** - DROBNICA, Ľ. Selective and reversible modification of essential thiol groups of D-glyceraldehyde-3-phosphate dehydrogenase by isothiocyanates. In *Experientia : interdisciplinary journal of life sciences*, 1979, vol. 35, p. 857-859. ISSN 0014-4754. Dostupné na: <https://doi.org/10.1007/BF01955110>

Ohlasy:

1. [1.1] KONTAR, Szilvia - IMRICHÓVA, Denisa - BERTOVA, Anna - MACKOVA, Katarina - POTURNAYOVA, Alexandra - SULOVA, Zdena - BREIER, Albert. Cell Death Effects Induced by Sulforaphane and Allyl Isothiocyanate on P-Glycoprotein Positive and Negative Variants in L1210 Cells. In *MOLECULES*, 2020, vol. 25, no. 9, pp. Dostupné na: <https://doi.org/10.3390/molecules25092093>., Registrované v: WOS

ADCA385 GEMEINER, Peter - ŠPÁNIK, V. - ŠNAJDROVÁ, A. - STRATILOVÁ, Eva - HORVÁTHOVÁ, M. - HAGAROVÁ, D. - MARKOVIČ, Oskar. Use of cellulose beads derivatives to isolation of bacterial alkaline proteinase by liquid chromatography. In *Folia microbiologica*, 1991, vol. 36, p. 283-293. (1990: 0.545 - IF, Current Contents - CCC). (1991 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02814363>

Ohlasy:

1. [1.1] LI, Yi - STERN, David - LOCK, Lye Lin - MILLS, Jason - OU, Shih-Hao - MORROW, Marina - XU, Xuankuo - GHOSE, Sanchayita - LI, Zheng Jian - CUI, Honggang. Emerging biomaterials for downstream manufacturing of therapeutic proteins. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2019, vol. 95, no., pp. 73-90., Registrované v: WOS

2. [1.1] TRIVEDI, Poonam - TRYGG, Jani - SALORANTA, Tiina - FARDIM, Pedro. Synthesis of novel zwitterionic cellulose beads by oxidation and coupling chemistry in water. In *CELLULOSE*. ISSN 0969-0239, 2016, vol. 23, no. 3, pp. 1751-1761., Registrované v: WOS

ADCA386 GHOSH, Debjani - BANDYOPADHYAY, Shruti S. - CHATTERJEE, Udipta R. - CAPEK, Peter - RAY, Bimalendu. Carbohydrate polymers of chirata (Swertia chirata) leaves: Structural features, in vitro anti-oxidant activity and fluorescence quenching study. In *Food Science and Technology*, 2012, vol. 21, p. 409-417. (2011: 0.493 - IF, Q4 - JCR, 0.279 - SJR, Q3 - SJR). ISSN 1226-7708. Dostupné na: <https://doi.org/10.1007/s10068-012-0052-y>

Ohlasy:

1. [1.1] DEY, Pinaki - SINGH, Joginder - SULUVOY, Jagadish Kumar - DILIP, Kevin Joseph - NAYAK, Jayato. Utilization of Swertia chirayita Plant Extracts for Management of Diabetes and Associated Disorders: Present Status, Future Prospects and Limitations. In *NATURAL PRODUCTS AND BIOPROSPECTING*. ISSN 2192-2195, 2020, vol. 10, no. 6, pp. 431-443. Dostupné na: <https://doi.org/10.1007/s13659-020-00277-7>., Registrované v: WOS

2. [1.1] KUMAR, Vijay - VAN STADEN, Johannes. A Review of Swertia chirayita (Gentianaceae) as a Traditional Medicinal Plant. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2016, vol. 6, no., pp., Registrované v: WOS

3. [1.2] DEY, Pinaki - JAIN, Atishya Mahesh - VANI, C. - PATNAIK, Aradhika - WOOD, Steeve Branden. Advances in medical application of Swertia

chirata plant extract in the treatment of diabetics: A brief review. In Drug Invention Today, 2019-01-01, 11, 8, pp. 1989-1994., Registrované v: SCOPUS

ADCA387 GILLI, R. - KAČURÁKOVÁ, Marta - MATHLOUTHI, M. - NAVARINI, L. - PAOLETTI, S. FTIR studies of sodium hyaluronate and its oligomers in the amorphous solid-phase and in aqueous-solution. In *Carbohydrate Research*, 1994, vol. 263, no. 2, p. 315-326. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00147-2](https://doi.org/10.1016/0008-6215(94)00147-2)

Ohlasy:

1. [1.1] ATHAMNEH, Tamara - AMIN, Adil - BENKE, Edit - AMBRUS, Rita - LEOPOLD, Claudia S. - GURIKOV, Pavel - SMIRNOVA, Irina. Alginate and hybrid alginate-hyaluronic acid aerogel microspheres as potential carrier for pulmonary drug delivery. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2019, vol. 150, no., pp. 49-55., Registrované v: WOS
2. [1.1] BANG, Sumi - DAS, Dipankar - YU, Jiyun - NOH, Insup. Evaluation of MC3T3 Cells Proliferation and Drug Release Study from Sodium Hyaluronate-1,4-butanediol Diglycidyl Ether Patterned Gel. In NANOMATERIALS. ISSN 2079-4991, 2017, vol. 7, no. 10, pp., Registrované v: WOS
3. [1.1] CAI, Zhixiang - ZHANG, Fei - WEI, Yue - ZHANG, Hongbin. Freeze Thaw-Induced Gelation of Hyaluronan: Physical Cryostructuration Correlated with Intermolecular Associations and Molecular Conformation. In MACROMOLECULES. ISSN 0024-9297, 2017, vol. 50, no. 17, pp. 6647-6658., Registrované v: WOS
4. [1.1] FAN, Zengjie - LI, Jie - LIU, Jianli - JIAO, Hongjing - LIU, Bin. Anti-Inflammation and Joint Lubrication Dual Effects of a Novel Hyaluronic Acid/Curcumin Nanomicelle Improve the Efficacy of Rheumatoid Arthritis Therapy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 28, pp. 23595-23604., Registrované v: WOS
5. [1.1] GAMARRA, Ana - FORES, Eva - MORATO, Jordi - MUNOZ-GUERRA, Sebastian. Amphiphilic ionic complexes of hyaluronic acid with organophosphonium compounds and their antimicrobial activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2021-2031., Registrované v: WOS
6. [1.1] GAMARRA, Ana - MISSAGIA, Beatriz - URPI, Lourdes - MORATO, Jordi - MUNOZ-GUERRA, Sebastian. Ionic coupling of hyaluronic acid with ethyl N-lauroyl L-arginate (LAE): Structure, properties and biocide activity of complexes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 109-116., Registrované v: WOS
7. [1.1] GAMARRA, Ana - MUNOZ-GUERRA, Sebastian - DE ILARDUYA, Antxon Martinez - THERIEN-AUBIN, Heloise - LANDFESTER, Katharina. Comblike Ionic Complexes of Hyaluronic Acid and Alkanoylcholine Surfactants as a Platform for Drug Delivery Systems. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 9, pp. 3669-3681., Registrované v: WOS
8. [1.1] GOMES DE MELO, Bruna Alice - ANDRADE SANTANA, Maria Helena. Structural Modifications and Solution Behavior of Hyaluronic Acid Degraded with High pH and Temperature. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 2, pp.

424-436., Registrované v: WOS

9. [1.1] GRUNDELOVA, Lenka - GREGOROVA, Adriana - MRACEK, Ales - VICHA, Robert - SMOLKA, Petr - MINARIK, Antonin. Viscoelastic and mechanical properties of hyaluronan films and hydrogels modified by carbodiimide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 119, no., pp. 142-148., Registrované v: WOS

10. [1.1] GUERMECH, Ibtissem - LASSOUED, Mohamed Ali - ABDELHAMID, Amal - SFAR, Souad. Development and Assessment of Lipidic Nanoemulsions Containing Sodium Hyaluronate and Indomethacin. In AAPS PHARMSCITECH. ISSN 1530-9932, 2019, vol. 20, no. 8, pp., Registrované v: WOS

11. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS

12. [1.1] HOU, Guanghui - QIAN, Junmin - XU, Weijun - SUN, Tiantian - WANG, Yaping - WANG, Jinlei - JI, Lijie - SUO, Aili. A novel pH-sensitive targeting polysaccharide-gold nanorod conjugate for combined photothermal-chemotherapy of breast cancer. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 212, no., pp. 334-344., Registrované v: WOS

13. [1.1] HU, Qinghua - ZENG, Fang - WU, Shuizhu. A ratiometric fluorescent probe for hyaluronidase detection via hyaluronan-induced formation of red-light emitting excimers. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 79, no., pp. 776-783., Registrované v: WOS

14. [1.1] CHEN, Hongyue - QIN, Jing - HU, Yi. Efficient Degradation of High-Molecular-Weight Hyaluronic Acid by a Combination of Ultrasound, Hydrogen Peroxide, and Copper Ion. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 3, pp., Registrované v: WOS

15. [1.1] KIM, Manse - HWANG, Youngmin - TAE, Giyoong. The enhanced anti-tissue adhesive effect of injectable pluronic-HA hydrogel by poly(γ -glutamic acid). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 1603-1611., Registrované v: WOS

16. [1.1] LEFEVRE, Damien - LOUVEGNY, Juliette - NAUDIN, Mathieu - FERAIN, Etienne - DUPONT-GILLAIN, Christine - DEMOUSTIER-CHAMPAGNE, Sophie. Biofunctionalized and self-supported polypyrrole frameworks as nanostructured ECM-like biointerfaces. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 41, pp. 22932-22943., Registrované v: WOS

17. [1.1] LEPORE, Maria - PORTACCIO, Marianna - DELFINO, Ines - SIRONI, Laura - LA GATTA, Annalisa - D'AGOSTINO, Antonella - IZZO, E. - SCHIRALDI, Chiara. Physico-optical properties of a crosslinked hyaluronic acid scaffold for biomedical applications. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 35, pp., Registrované v: WOS

18. [1.1] LEPORE, M. - PORTACCIO, M. - LA GATTA, A. - D'AGOSTINO, A. - IZZO, E. - SCHIRALDI, C. - DELFINO, I. Preparation and characterization of 3D hyaluronic-acid-based scaffolds with controlled optical

- properties for biomedical applications. In 2015 INTERNATIONAL CONFERENCE ON BIOPHOTONICS (BIOPHOTONICS), 2015, vol., no., pp. 149-152., Registrované v: WOS
19. [1.1] LIPATOVA, I. M. - YUSOVA, A. A. - MAKAROVA, L. - PETROVA, M. Effect of hyaluronic acid on the State and photoactivity of Zn(II) phthalocyanine cationic derivative in mixed aqueous solutions. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2019, vol. 382, no., pp., Registrované v: WOS
20. [1.1] LUO, Chunhong - XU, Guoguang - WANG, Xinghui - TU, Mei - ZENG, Rong - RONG, Jianhua - ZHAO, Jianhao. Self-reinforcement and protein sustained delivery of hyaluronan hydrogel by tailoring a dually cross-linked network. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 46, no., pp. 316-324., Registrované v: WOS
21. [1.1] MLADENOVA, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalena. PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
22. [1.1] MOHAMED, Hossam Taha - UNTEREINER, Valerie - SOCKALINGUM, Ganesh D. - BREZILLON, Stephane. Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 309-323., Registrované v: WOS
23. [1.1] NAKAGAWA, Yoshiyuki - NAKASAKO, Satoshi - OHTA, Seiichi - ITO, Taichi. A biocompatible calcium salt of hyaluronic acid grafted with polyacrylic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 43-53., Registrované v: WOS
24. [1.1] PAN, Nicole Caldas - BRAGA PEREIRA, Hanny Cristina - CORRADI DA SILVA, Maria de Lourdes - DALBERTO VASCONCELOS, Ana Flora - PEDRINE COLABONE CELLIGOI, Maria Antonia. Improvement Production of Hyaluronic Acid by Streptococcus zooepidemicus in Sugarcane Molasses. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 1, pp. 276-293., Registrované v: WOS
25. [1.1] TRAVLOU, Nikolina A. - SECOR, Jeff - BANDOSZ, Teresa J. Highly luminescent S-doped carbon dots for the selective detection of ammonia. In CARBON. ISSN 0008-6223, 2017, vol. 114, no., pp. 544-556., Registrované v: WOS
26. [1.1] WADDAD, Ayman Y. - RAMHARACK, Pritika - SOLIMAN, Mahmoud E. S. - GOVENDER, Thirumala. Grafted hyaluronic acid N-acetyl-L-methionine for targeting of LAT1 receptor: In-silico, synthesis and microscale thermophoresis studies. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 767-777., Registrované v: WOS
27. [1.1] YANG, Eun-In - LEE, Chang-Hyun - CHE, Denis Nchang - JANG, Seon-Il - KIM, Young-Soo. Biological activities of water-soluble polysaccharides from Opuntia humifusa stem in high-fat-diet-fed mice. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2019, vol. 43, no. 4, pp., Registrované v: WOS

28. [1.1] YANG, Yishun - ZHAO, Yuan - LAN, Jinshuai - KANG, Yanan - ZHANG, Tong - DING, Yue - ZHANG, Xinyu - LU, Lu. Reduction-sensitive CD44 receptor-targeted hyaluronic acid derivative micelles for doxorubicin delivery. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2018, vol. 13, no., pp. 4361-4378., Registrované v: WOS
29. [1.1] YU, Ying - WANG, Yafei - LU, Chen - LONG, Dan - ZHANG, Qiang - YAN, Shuqin - YOU, Renchuan - LI, Mingzhong. Chondrogenic Differentiation of Rat Mesenchymal Stem Cells on Silk Fibroin/Chondroitin Sulfate/Hyaluronic Acid Ternary Scaffolds. In FIBERS AND POLYMERS. ISSN 1229-9197, 2016, vol. 17, no. 3, pp. 324-332., Registrované v: WOS
30. [1.1] ZHANG, Qiang - CHEN, Shu - YOU, Renchuan - TARIQ, Zeeshan - HUANG, Jingjing - LI, Mingzhong - YAN, Shuqin. Silk fibroin/hyaluronic acid porous scaffold for dermal wound healing. In FIBERS AND POLYMERS. ISSN 1229-9197, 2017, vol. 18, no. 6, pp. 1056-1063., Registrované v: WOS
31. [1.1] ZHAO, Yufang - QIAO, Shupeí - HOU, Xiaolu - TIAN, Hui - DENG, Shuai - YE, Kangruo - NIE, Yongzhan - CHEN, Xiongbiao - YAN, Hongji - TIAN, Weiming. Bioengineered tumor microenvironments with naked mole rats high-molecular-weight hyaluronan induces apoptosis in breast cancer cells. In ONCOGENE. ISSN 0950-9232, 2019, vol. 38, no. 22, pp. 4297-4309., Registrované v: WOS

ADCA388 GILLIS, Richard B. - ADAMS, Gary G. - BESONG, David T.M. - MACHOVÁ, Eva - EBRINGEROVÁ, Anna - ROWE, Arthur J. - HARDING, Stephen E. - PATEL, Trushar R. Application of novel analytical ultracentrifuge analysis to solutions of fungal mannans. In *European Biophysics Journal*, 2017, vol. 46, p. 235-245. (2016: 1.472 - IF, Q4 - JCR, 0.681 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS). ISSN 0175-7571. Dostupné na: <https://doi.org/10.1007/s00249-016-1159-5>

Ohlasy:

1. [1.1] GRUBE, Mandy - CINAR, Gizem - SCHUBERT, Ulrich S. - NISCHANG, Ivo. Incentives of Using the Hydrodynamic Invariant and Sedimentation Parameter for the Study of Naturally- and Synthetically-Based Macromolecules in Solution. In POLYMERS, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/polym12020277>., Registrované v: WOS
2. [1.1] SILVA, Aurora - SILVA, Sofia A. - LOURENCO-LOPES, C. - JIMENEZ-LOPEZ, C. - CARPENA, M. - GULLON, P. - FRAGA-CORRAL, M. - DOMINGUES, V. F. - BARROSO, M. Fatima - SIMAL-GANDARA, J. - PRIETO, M. A. Antibacterial Use of Macroalgae Compounds against Foodborne Pathogens. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9100712>., Registrované v: WOS

ADCA389 GIMÉNEZ-MASCARELL, P. - MAJTÁN, T. - OYENARTE, I. - EREÑO-ORBEA, J. - MAJTÁN, Juraj - KLAUDINY, Jaroslav - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A.**. Crystal structure of cystathionine β -synthase from honeybee *Apis mellifera*. In *Journal of Structural Biology*, 2018, vol. 202, p. 82-93. (2017: 3.433 - IF, Q2 - JCR, 3.948 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1047-8477. Dostupné na: <https://doi.org/10.1016/j.jsb.2017.12.008>

Ohlasy:

1. [1.1] DEVI, S. - TARIQUE, K.F. - ALI, M.F. - REHMAN, S.A.A. - GOURINATH, S. Identification and characterization of *Helicobacter pylori* O-acetylserine-dependent cystathionine beta-synthase, a distinct member of the PLP-II family. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, AUG 2019, vol. 112, no. 2, p. 718-739., Registrované v: WOS
2. [1.2] LAN, Jiafu - LIANG, Ye - LI, Jindu - ZENG, Dechuang - LI, Tianzi - PAN, Xingshou. Mutation of cystathionine gene in patients with carotid plaque and its correlation with clinic. In *Chinese Journal of Clinical Nutrition*. ISSN 1674635X, 2020-10-30, 28, 5, pp. 283-289., Registrované v: SCOPUS
3. [1.2] MOHAMMED, Ammar A. - ALI, Bushra H. CORRELATION STUDY BETWEEN METHIONINE SYNTHASE, CYSTATHIONINE B SYNTHASE WITH CLASSIC PARAMETERS AFTER TREATED WITH JANUVIA IN IRAQI DIABETIC PATIENT'S TYPE 2 AND COMPLICATION. In *Biochemical and Cellular Archives*. ISSN 09725075, 2020-10-01, 20, 2, pp. 6623-6628., Registrované v: SCOPUS

ADCA390 GLIGORIJEVIĆ, Nikola** - MINIĆ, Simeon - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural changes of fibrinogen as a consequence of cirrhosis. In *Thrombosis Research*, 2018, vol. 166, p. 43-49. (2017: 2.779 - IF, Q2 - JCR, 1.096 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0049-3848. Dostupné na: <https://doi.org/10.1016/j.thromres.2018.04.005>

Ohlasy:

1. [1.1] GEORGE, Joseph - TSUCHISHIMA, Mutsumi - TSUTSUMI, Mikihiro. Molecular mechanisms in the pathogenesis of N-nitrosodimethylamine induced hepatic fibrosis. In *CELL DEATH & DISEASE*. ISSN 2041-4889, 2019, vol. 10, no., pp., Registrované v: WOS
2. [1.1] ZERMATTEN, Maxime G. - FRAGA, Montserrat - MORADPOUR, Darius - BERTAGGIA CALDERARA, Debora - ALIOTTA, Alessandro - STIRNIMANN, Guido - DE GOTTARDI, Andrea - ALBERIO, Lorenzo. Hemostatic Alterations in Patients With Cirrhosis: From Primary Hemostasis to Fibrinolysis. In *HEPATOLOGY*. ISSN 0270-9139, 2020, vol. 71, no. 6, pp. 2135-2148. Dostupné na: <https://doi.org/10.1002/hep.31201>, Registrované v: WOS

ADCA391 GLIGORIJEVIĆ, Nikola** - KRIŽÁKOVÁ, Martina, Zámorová - PENEZIĆ, Ana - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural and functional changes of fibrinogen due to aging. In *International Journal of Biological Macromolecules*, 2018, vol. 108, p. 1028-1034. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.11.016>

Ohlasy:

1. [1.1] DE VRIES, Judith J. - SNOEK, Charlotte J. M. - RIJKEN, Dingeman C. - DE MAAT, Moniek P. M. Effects of Post-Translational Modifications of Fibrinogen on Clot Formation, Clot Structure, and Fibrinolysis A Systematic Review. In *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*. ISSN 1079-5642, 2020, vol. 40, no. 3, pp. 554-569. Dostupné na: <https://doi.org/10.1161/ATVBAHA.119.313626>, Registrované v: WOS

2. [1.1] CHENG, Pengzhen - LI, Donglin - GAO, Yi - CAO, Tianqing - JIANG, Huijie - WANG, Jimeng - LI, Junqin - ZHANG, Shuaishuai - SONG, Yue - LIU, Bin - WANG, Chunmei - YANG, Liu - PEI, Guoxian.

Prevascularization promotes endogenous cell-mediated angiogenesis by upregulating the expression of fibrinogen and connective tissue growth factor in tissue-engineered bone grafts. In *STEM CELL RESEARCH & THERAPY*. ISSN 1757-6512, 2018, vol. 9, no., pp., Registrované v: WOS

3. [1.1] LI, Da - ZHANG, Xiaosong - HUANG, He - ZHANG, Honggang. Association of beta-fibrinogen polymorphisms and venous thromboembolism risk A PRISMA-compliant meta-analysis. In *MEDICINE*. ISSN 0025-7974, 2019, vol. 98, no. 48, pp., Registrované v: WOS

4. [1.1] TAVASOLI, Behnaz - SAFA, Majid - DORGALALEH, Akbar - GHASEMI, Jahan B. - MAKHOURI, Farahnaz Rezaei - REZVANI, Mohammad R. - AHMADI, Abbas - TABIBIAN, Shadi - JAZEBI, Mohammad - BAGHAIPOR, Mohammad R. - ZAKER, Farhad. Molecular and clinical profile of congenital fibrinogen disorders in Iran, identification of two novel mutations. In *INTERNATIONAL JOURNAL OF LABORATORY HEMATOLOGY*. ISSN 1751-5521, 2020, vol. 42, no. 5, pp. 619-627. Dostupné na: <https://doi.org/10.1111/ijlh.13258>., Registrované v: WOS

5. [1.2] PASTUSHKOVA, L. H. - KASHIRINA, D. N. - GONCHAROVA, A. G. - ZAKHAROVA, N. B. - TIYS, E. S. - GONCHAROV, I. N. - LARINA, I. M. Characteristics of age-dependent changes in the urine's proteom composition of the of the healthy persons (experimental and theoretical study). In *Advances in gerontology = Uspekhi gerontologii*. ISSN 15619125, 2020-01-01, 33, 4, pp. 735-740., Registrované v: SCOPUS

ADCA392 GONDA, Jozef** - ŠIROKÝ, Michael - MARTINKOVÁ, Miroslava - HOMOLYA, Samuel - VILKOVÁ, Mária - BAGO PILÁTOVÁ, Martina - ŠESTÁK, Sergej. Synthesis and biological activity of diastereoisomeric octahydro-1H-indole-5,6,7-trioles, analogues of castanospermine. In *Tetrahedron*, 2019, vol. 75, p. 398-408. (2018: 2.379 - IF, Q2 - JCR, 0.709 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2018.12.008>

Ohlasy:

1. [1.1] LUO, Yi - GUO, Lingmei - YU, Xinling - DING, Haosheng - WANG, Huijing - WU, Yong. Cp*Ir-III-Catalyzed [3+2] Annulations of N-Aryl-2-aminopyrimidines with Sulfoxonium Ylides to Access 2-Alkyl Indoles Through C-H Bond Activation. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2019, vol. 2019, no. 20, pp. 3203-3207., Registrované v: WOS

ADCA393 GRABIŃSKA-ŁONIEWSKA, A. - SLÁVIKOVÁ, Elena - FURMAŃSKA, M. - SŁOMCZYŃSKI, T. Fungi in activated sludge biocenosis. In *Acta Microbiologica Polonica*, 1993, vol. 42, p. 303-313.

Ohlasy:

1. [1.1] TIGINI, Valeria - BEVIONE, Federico - PRIGIONE, Valeria - POLI, Anna - RANIERI, Lucrezia - SPENNATI, Francesco - MUNZ, Giulio - VARESE, Giovanna Cristina. Tannery mixed liquors from an ecotoxicological and mycological point of view: Risks vs potential biodegradation application. In

ADCA394 GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - STAŠKO, A. Radical scavenging capacity of lignin and its effect on processing stabilization of virgin and recycled polypropylene. In *Journal of Applied Polymer Science*, 2007, vol. 106, p. 1626-1631. (2006: 1.306 - IF, Q2 - JCR, 0.783 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.26687>

Ohlasy:

1. [1.1] BERSTIS, Laura - ELDER, Thomas - CROWLEY, Michael - BECKHAM, Gregg T. Radical Nature of C-Lignin. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5327-5335., Registrované v: WOS
2. [1.1] BOBER, Patrycja - GAVRILOV, Nemanja - KOVALCIK, Adriana - MICUSIK, Matej - UNTERWEGER, Christoph - PASTI, Igor A. - SEDENKOVA, Ivana - ACHARYA, Udit - PFLEGER, Jiri - FILIPPOV, Sergey K. - KULICEK, Jaroslav - OMASTOVA, Maria - BREITENBACH, Stefan - CIRIC-MARJANOVIC, Gordana - STEJSKAL, Jaroslav. Electrochemical properties of lignin/polypyrrole composites and their carbonized analogues. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, 2018, vol. 213, no., pp. 352-361., Registrované v: WOS
3. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Piroska - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of interactions in polypropylene/lignosulfonate blends. In *MATERIALS & DESIGN*. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v: WOS
4. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In *LIGNIN IN POLYMER COMPOSITES*, 2016, vol., no., pp. 95-118., Registrované v: WOS
5. [1.1] GADIOLI, Renan - WALDMAN, Walter Ruggeri - DE PAOLI, Marco Aurelio. Lignin as a green primary antioxidant for polypropylene. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2016, vol. 133, no. 45, pp., Registrované v: WOS
6. [1.1] GUILHEN, Augusto - GADIOLI, Renan - FERNANDES, Felipe C. - WALDMAN, Walter R. - PAOLI, Marco Aurelio De. High-density green polyethylene biocomposite reinforced with cellulose fibers and using lignin as antioxidant. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 35, pp., Registrované v: WOS
7. [1.1] HARAHAHAP, Andre Fahriz Perdana - GOZAN, Misri. Utilization of Lignin as Natural Antioxidant for Biodiesel. In *PROCEEDINGS OF THE 4TH INTERNATIONAL SYMPOSIUM ON APPLIED CHEMISTRY 2018*. ISSN 0094-243X, 2018, vol. 2024, no., pp., Registrované v: WOS
8. [1.1] IYER, Krishnan A. - TORKEKELSON, John M. Sustainable Green Hybrids of Polyolefins and Lignin Yield Major Improvements in Mechanical Properties When Prepared via Solid-State Shear Pulverization. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2015, vol. 3, no. 5, pp. 959-968., Registrované v: WOS
9. [1.1] JIANG, Yan - LIU, Xiuyu - YANG, Qiang - SONG, Xueping - QIN, Chengrong - WANG, Shuangfei - LI, Kecheng. Effects of residual lignin on

mechanical defibrillation process of cellulosic fiber for producing lignocellulose nanofibrils. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 11, pp.

6479-6494., Registrované v: WOS

10. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS

11. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS

12. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

13. [1.1] NOGUEIRA, Izabel de Menezes - AVELINO, Francisco - DE OLIVEIRA, Davi Rabelo - SOUZA, Nagila Freitas - ROSA, Morsyleide Freitas - MAZZETTO, Selma Elaine - LOMONACO, Diego. Organic solvent fractionation of acetosolv palm oil lignin: The role of its structure on the antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 122, no., pp. 1163-1172., Registrované v: WOS

14. [1.1] PARK, Shin Young - KIM, Jae-Young - YOUN, Hye Jung - CHOI, Joon Weon. Fractionation of lignin macromolecules by sequential organic solvents systems and their characterization for further valuable applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 106, no., pp. 793-802., Registrované v: WOS

15. [1.1] PIORKOWSKA, Ewa. Overview of Biobased Polymers. In THERMAL PROPERTIES OF BIO-BASED POLYMERS. ISSN 0065-3195, 2019, vol. 283, no., pp. 1-35., Registrované v: WOS

16. [1.1] SEO, Jin Ho - JEONG, Hanseob - LEE, Hyung Won - CHOI, Cheol Soon - BAE, Jin Ho - LEE, Soo Min - KIM, Yong Sik. Characterization of solvent-fractionated lignins from woody biomass treated via supercritical water oxidation. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 275, no., pp. 368-374., Registrované v: WOS

17. [1.1] YE, Dezhan - LI, Shuai - LU, Xiaomin - ZHANG, Xi - ROJAS, Orlando J. Antioxidant and Thermal Stabilization of Polypropylene by Addition of Butylated Lignin at Low Loadings. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5248-5257., Registrované v: WOS

18. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 95-118., Registrované v: SCOPUS

19. [1.2] XIA, Zhiyu - KIRATITANAVIT, Weeradech - YU, Shiran - KUMAR, Jayant - MOSURKAL, Ravi - NAGARAJAN, Ramaswamy. Fire retardants from renewable resources. In Advanced Green Composites, 2018-01-01, pp. 275-320., Registrované v: SCOPUS

Stabilization effect of lignin in natural rubber. In *Polymer Degradation and Stability*, 2006, vol. 91, p. 229-233. (2005: 1.749 - IF, Q1 - JCR, 1.226 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0141-3910.

Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2005.05.009>

Ohlasy:

1. [1.1] ABATTI, Lisandra - VIEIRA, Eleno Rodrigues - CRESPO, Janaina da Silva. Thermal evaluation of rubber compounds containing pecan nutshell powder for tire treads. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2019, vol. 138, no. 5, pp. 3673-3678., Registrované v: WOS
2. [1.1] ANTCZAK, Andrzej - RADOMSKI, Andrzej - DROZDZEK, Michal - ZAWADZKI, Janusz - ZIELENKIEWICZ, Tomasz. THERMAL AGEING OF CELLULOSE WITH NATURAL AND SYNTHETIC ANTIOXIDANTS UNDER VARIOUS CONDITIONS. In *DREWNO*. ISSN 1644-3985, 2016, vol. 59, no. 196, pp. 139-152., Registrované v: WOS
3. [1.1] DATTA, Janusz - PARCHETA, Paulina. A comparative study on selective properties of Kraft lignin-natural rubber composites containing different plasticizers. In *IRANIAN POLYMER JOURNAL*. ISSN 1026-1265, 2017, vol. 26, no. 6, pp. 453-466., Registrované v: WOS
4. [1.1] DATTA, Janusz - PARCHETA, Paulina - SUROWKA, Joanna. Softwood-lignin/natural rubber composites containing novel plasticizing agent: Preparation and characterization. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 675-685., Registrované v: WOS
5. [1.1] DENG, Lidan - ZHU, Jianxin - CHEN, Hui - WANG, Hui - SHEN, Jianyi. Microcalorimetric adsorption and infrared spectroscopic studies of supported nickel catalysts for the hydrogenation of diisopropylamine to diisopropylamine. In *JOURNAL OF CATALYSIS*. ISSN 0021-9517, 2018, vol. 362, no., pp. 35-45., Registrované v: WOS
6. [1.1] DIOP, Amadou - ADJALLE, Kokou - BOENS, Benjamin - MONTPLAISIR, Daniel - BARNABE, Simon. Synthesis and characterization of lignin-melamine-formaldehyde resin. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, 2017, vol. 30, no. 9, pp. 1255-1266., Registrované v: WOS
7. [1.1] DOMINGUEZ, J. C. - SANTOS, T. M. - RIGUAL, V. - OLIET, M. - ALONSO, M. V. - RODRIGUEZ, F. Thermal stability, degradation kinetics, and molecular weight of organosolv lignins from *Pinus radiata*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 111, no., pp. 889-898., Registrované v: WOS
8. [1.1] HARI, Jozsef - SARKOZI, Mark - FOLDES, Eniko - PUKANSZKY, Bela. Long term stabilization of PE by the controlled release of a natural antioxidant from halloysite nanotubes. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 147, no., pp. 229-236., Registrované v: WOS
9. [1.1] CHEN, Kai - YE, Dezhan - GU, Shaojin - ZHOU, Yingshan. Thermal-oxidative effect of Kraft lignin antioxidant in polypropylene: Uncovering the key factor using correlation analysis model. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 478-485., Registrované v: WOS
10. [1.1] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced

- Rubber Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 195-206., Registrované v: WOS
11. [1.1] KIRSCHWENG, Balazs - VOROS, Benedek - TATRAALJAI, Dora - ZSUGA, Miklos - FOLDES, Eniko - PUKANSZKY, Bela. Natural antioxidants as melt stabilizers for PE: Comparison of silymarin and quercetin. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 90, no., pp. 456-466., Registrované v: WOS
 12. [1.1] KIRSCHWENG, Balazs - TILINGER, Daniel Mirko - HEGELY, Bence - SAMU, Gyula - TATRAALJAI, Dora - FOLDES, Eniko - PUKANSZKY, Bela. Melt stabilization of PE with natural antioxidants: Comparison of rutin and quercetin. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2018, vol. 103, no., pp. 228-237., Registrované v: WOS
 13. [1.1] KIRSCHWENG, B. - BENCZE, K. - SARKOEZI, M. - HEGELY, B. - SAMU, Gy. - HARI, J. - TATRAALJAI, D. - FOELDES, E. - KALLAY, M. - PUKANSZKY, B. Melt stabilization of polyethylene with dihydromyricetin, a natural antioxidant. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2016, vol. 133, no., pp. 192-200., Registrované v: WOS
 14. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
 15. [1.1] LANG, Jason M. - SHRESTHA, Umesh M. - DADMUN, Mark. The effect of Plant source on the Properties of lignin-Based Polyurethanes. In FRONTIERS IN ENERGY RESEARCH. ISSN 2296-598X, 2018, vol. 6, no., pp., Registrované v: WOS
 16. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS
 17. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
 18. [1.1] LUO, Shupin - CAO, Jinzhen - SUN, Wenjing. Evaluation of Kraft Lignin as Natural Compatibilizer in Wood Flour/Polypropylene Composites. In POLYMER COMPOSITES. ISSN 0272-8397, 2017, vol. 38, no. 11, pp. 2387-2394., Registrované v: WOS
 19. [1.1] MASLOWSKI, Marcin - MIEDZIANOWSKA, Justyna - STRZELEC, Krzysztof. Natural Rubber Composites Filled with Crop Residues as an Alternative to Vulcanizates with Common Fillers. In POLYMERS, 2019, vol. 11, no. 6, pp., Registrované v: WOS
 20. [1.1] MEI, Jie - LIU, Weifeng - HUANG, Jinhao - QIU, Xueqing. Lignin-Reinforced Ethylene-Propylene-Diene Copolymer Elastomer via Hydrogen Bonding Interactions. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, 2019, vol. 304, no. 4, pp., Registrované v: WOS
 21. [1.1] NASEEM, Amina - TABASUM, Shazia - ZIA, Khalid

- Mahmood - ZUBER, Mohammad - ALI, Muhammad - NOREEN, Aqdas. Lignin-derivatives based polymers, blends and composites: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 296-313., Registrované v: WOS
22. [1.1] NOUH, S. A. - ABOU ELFADL, A. - BENTHAMI, K. - GUPTA, Renu - KESHK, Sherif M. A. S. Optical and structural properties of polyvinyl alcohol loaded with different concentrations of lignosulfonate. In JOURNAL OF VINYL & ADDITIVE TECHNOLOGY. ISSN 1083-5601, 2019, vol. 25, no. 1, pp. 85-90., Registrované v: WOS
23. [1.1] SALANTI, Anika - ZOIA, Luca - ZANINI, Stefano - ORLANDI, Marco. Synthesis and characterization of lignin-silicone hybrid polymers as possible consolidants for decayed wood. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 1, pp. 117-134., Registrované v: WOS
24. [1.1] SOUTO, Felipe - CALADO, Veronica - PEREIRA, Nei. Lignin-based carbon fiber: a current overview. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2018, vol. 5, no. 7, pp., Registrované v: WOS
25. [1.1] SUI JIAYANG - LIU XIAOYANG - QIAN MIAOMIAO - ZHU YANCHAO - XUE BEICHEN - FENG YI - TIAN YUMEI - WANG XIAOFENG. Surface Modification of Silica/carbon Black Derived from Rice Husks and Its Influence on Natural Rubber Composites. In CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE. ISSN 0251-0790, 2019, vol. 40, no. 7, pp. 1561-1570., Registrované v: WOS
26. [1.1] TIAN, Xiaofei - FANG, Zhen - SMITH, Richard L. - WU, Zhenqiang - LIU, Mingyou. Properties, Chemical Characteristics and Application of Lignin and Its Derivatives. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 3-33., Registrované v: WOS
27. [1.1] WANG, Jian - ZHANG, Kaiye - HAO, Shuai - XIA, Hesheng - LAVORGNA, Marino. Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2019, vol. 136, no. 15, pp., Registrované v: WOS
28. [1.1] WANG, K. - LOO, L. S. - GOH, K. L. A facile method for processing lignin reinforced chitosan biopolymer microfibres: optimising the fibre mechanical properties through lignin type and concentration. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2016, vol. 3, no. 3, pp., Registrované v: WOS
29. [1.1] WANG, Lei - HE, Chunxia - LI, Xiaolin - YANG, Xin. Performance Analysis of Ternary Composites with Lignin, Eucalyptus Fiber, and Polyvinyl Chloride. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 6510-6523., Registrované v: WOS
30. [1.1] XU, Ge - YAN, Guangyu - ZHANG, Jing. Lignin as coupling agent in EPDM rubber: thermal and mechanical properties. In POLYMER BULLETIN. ISSN 0170-0839, 2015, vol. 72, no. 9, pp. 2389-2398., Registrované v: WOS
31. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS

32. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoxing - XU, Weilin - ZHANG, Xi. Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS
33. [1.1] YE, Dezhan - LI, Shuai - LU, Xiaomin - ZHANG, Xi - ROJAS, Orlando J. Antioxidant and Thermal Stabilization of Polypropylene by Addition of Butylated Lignin at Low Loadings. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5248-5257., Registrované v: WOS
34. [1.1] YE, De-zhan - JIANG, Li - HU, Xiao-qin - ZHANG, Ming-hua - ZHANG, Xi. Lignosulfonate as reinforcement in polyvinyl alcohol film: Mechanical properties and interaction analysis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 83, no., pp. 209-215., Registrované v: WOS
35. [1.1] YU, Peng - HE, Hui - JIA, Yunchao - TIAN, Shenghui - CHEN, Jian - JIA, Demin - LUO, Yuanfang. A comprehensive study on lignin as a green alternative of silica in natural rubber composites. In POLYMER TESTING. ISSN 0142-9418, 2016, vol. 54, no., pp. 176-185., Registrované v: WOS
36. [1.1] ZAHER, Khlood S. Abdel - EL-SABBAGH, Salwa H. - ABDELRAZEK, Fathy M. - NAWWAR, Galal A. M. Utility of Zinc (Lignin/Silica/Fatty Acids) Complex Driven From Rice Straw as Antioxidant and Activator in Rubber Composites. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2019, vol. 59, no., pp. E196-E205., Registrované v: WOS
37. [1.1] ZHANG, Yinhang - FEI, Deng - XIN, Ge - CHO, Ur-Ryong. Surface modification of novel rice bran carbon functionalized with (3-Mercaptopropyl) trimethoxysilane and its influence on the properties of styrene-butadiene rubber composites. In JOURNAL OF COMPOSITE MATERIALS. ISSN 0021-9983, 2016, vol. 50, no. 21, pp. 2987-2999., Registrované v: WOS
38. [1.1] ZHOU, Haifeng - YANG, Dongjie - ZHU, J. Y. Molecular Structure of Sodium Lignosulfonate from Different Sources and their Properties as Dispersant of TiO₂ Slurry. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2016, vol. 37, no. 2, pp. 296-303., Registrované v: WOS
39. [1.1] ZHU, Yanchao - DI, Bing - CHEN, Hongzhuo - WANG, Xiaofeng - TIAN, Yumei. In situ synthesis of novel biomass lignin/silica based epoxy resin adhesive from renewable resources at different pHs. In JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY. ISSN 0169-4243, 2019, vol. 33, no. 16, pp. 1806-1820., Registrované v: WOS
40. [1.2] HUANG, Jin - FU, Shiyu - GAN, Lin. Lignin chemistry and applications. In Lignin Chemistry and Applications, 2019-01-31, pp. 1-276., Registrované v: SCOPUS
41. [1.2] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced Rubber Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 195-206., Registrované v: SCOPUS
42. [1.2] LUO, Bin - GUO, Chenyan - JIA, Zhuan - LI, Mingfu - ZHANG, Qingtong - WAN, Guangcong - WANG, Shuangfei - MIN, Douyong.

Progress in the application of lignin in the preparation of graphene composites. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2019-04-01, 38, 4, pp. 55-62., Registrované v: SCOPUS

43. [1.2] MO, Xianke - ZHOU, Mingsong - LOU, Hongming - YANG, Dongjie - QIU, Xueqing. Reinforcing properties of enzymatic hydrolysis lignin/carbon black composite filler system for acrylonitrile butadiene rubber. In Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering. ISSN 10007555, 2015-01-01, 31, 1, pp. 51-56., Registrované v: SCOPUS

44. [1.2] NILMINI, A. H.L.R. - SUREJ, Nuwan. Study on use of lignin as an antioxidant in SBR based tire tread compound. In International Journal of Scientific and Technology Research, 2019-08-01, 8, 8, pp. 896-902., Registrované v: SCOPUS

45. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 49-80., Registrované v: SCOPUS

ADCA396 GREGOROVÁ, Adriana - CIBULKOVÁ, Z. - KOŠÍKOVÁ, Božena - ŠIMON, P. Stabilization effect of lignin in polypropylene and recycled polypropylene. In *Polymer Degradation and Stability*, 2005, vol.89, p. 553-558. (2004: 1.685 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0141-3910. Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2005.02.007>

Ohlasy:

1. [1.1] ALEKHINA, Marina - ERDMANN, Jens - EBERT, Andreas - STEPAN, Agnes M. - SIXTA, Herbert. Physico-chemical properties of fractionated softwood kraft lignin and its potential use as a bio-based component in blends with polyethylene. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2015, vol. 50, no. 19, pp. 6395-6406., Registrované v: WOS

2. [1.1] AL-MAJALI, Yahya A. - CHIRUME, Clive T. - MARCUM, Eric P. - DARAMOLA, Damilola A. - KAPPAGANTULA, Keerti S. - TREMBLY, Jason P. Coal-Filler-Based Thermoplastic Composites as Construction Materials: A New Sustainable End-Use Application. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2019, vol. 7, no. 19, pp. 16870-16878., Registrované v: WOS

3. [1.1] ATIQUULLAH, Muhammad - CIBULKOVA, Zuzana - CERNA, Andrea - SIMON, Peter - HUSSAIN, Ikram - AL-HARTHI, Mamdouh A. - ANANTAWARASKUL, Siripon. Effects of supported metallocene catalyst active center multiplicity on antioxidant-stabilized ethylene homo- and copolymers Evaluation of melt stability by nonisothermal DSC study. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2015, vol. 119, no. 1, pp. 581-595., Registrované v: WOS

4. [1.1] BELLISARIO, D. - QUADRINI, F. - SANTO, L. - TEDDE, G. M. MANUFACTURING OF ANTIBACTERIAL ADDITIVES BY NANO-COATING FRAGMENTATION. In PROCEEDINGS OF THE ASME 13TH INTERNATIONAL MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE, 2018, VOL 2, 2018, vol., no., pp., Registrované v: WOS

5. [1.1] BORYSIAK, Sławomir - KLAPISZEWSKI, Lukasz - BULA, Karol - JESIONOWSKI, Teofil. Nucleation ability of advanced functional silica/lignin hybrid fillers in polypropylene composites. In JOURNAL OF

- THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2016, vol. 126, no. 1, pp. 251-262., Registrované v: WOS
6. [1.1] BORYSIK, Slawomir. The thermo-oxidative stability and flammability of wood/polypropylene composites. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2015, vol. 119, no. 3, pp. 1955-1962., Registrované v: WOS
7. [1.1] COLLINS, Maurice N. - NECHIFOR, Marioara - TANASA, Fulga - ZANOAGA, Madalina - MCLOUGHLIN, Anne - STROZYK, Michal A. - CULEBRAS, Mario - TEACA, Carmen-Alice. Valorization of lignin in polymer and composite systems for advanced engineering applications A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 828-849., Registrované v: WOS
8. [1.1] DAO, Anh T. N. - SHIMOKATA, Jun'ichi - TAKEUCHI, Kengo - NAKAYAMA, Koyuru - TANIKE, Toshiaki. Stabilization of recombinant spider silk in thermo-oxidative degradation: High-throughput screening for antioxidants. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2018, vol. 153, no., pp. 37-46., Registrované v: WOS
9. [1.1] DE RESENDE, Thalita Mendonca - DA COSTA, Marcelo Moreira. Biopolymers of sugarcane. In SUGARCANE BIOREFINERY, TECHNOLOGY AND PERSPECTIVES, 2020, vol., no., pp. 229-254., Registrované v: WOS
10. [1.1] DEHOUCHE, Nadjet - KACI, Mustapha - KAID, Nassima. Thermo-mechanical recycling effects on morphology and properties of ethylene vinyl acetate copolymer/olive husk flour composites. In INTERNATIONAL JOURNAL OF PLASTICS TECHNOLOGY. ISSN 0972-656X, 2019, vol. 23, no. 2, pp. 246-252., Registrované v: WOS
11. [1.1] FARIS, Abbas Hasan - RAHIM, Afidah Abdul - IBRAHIM, Mohamad Nasir Mohamad - HUSSIN, M. Hazwan - ALKURDI, Adel Mustafa - SALEHABADI, Ali. Investigation of oil palm based Kraft and auto-catalyzed organosolv lignin susceptibility as a green wood adhesives. In INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES. ISSN 0143-7496, 2017, vol. 74, no., pp. 115-122., Registrované v: WOS
12. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
13. [1.1] GONG, Sheng-Dong - HUANG, Yun - CAO, Hai-Jun - LIN, Yuan-Hua - LI, Yang - TANG, Shui-Hua - WANG, Ming-Shan - LI, Xing. A green and environment-friendly gel polymer electrolyte with higher performances based on the natural matrix of lignin. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2016, vol. 307, no., pp. 624-633., Registrované v: WOS
14. [1.1] HAMOUR, Noura - BOUKERROU, Amar - BOURMAUD, Alain - DJIDJELLI, Hocine - GROHENS, Yves. EFFECT OF ALFA FIBER TREATMENT AND MAPP COMPATIBILIZATION ON THERMAL AND MECHANICAL PROPERTIES OF POLYPROPYLENE/ALFA FIBER COMPOSITES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 9-10, pp. 1069-1076., Registrované v: WOS
15. [1.1] CHEN, Bo - CAI, Di - LUO, Zhangfeng - CHEN, Changjing - ZHANG, Changwei - QIN, Peiyong - CAO, Hui - TAN, Tianwei. Corn cob residual reinforced polyethylene composites considering the biorefinery process and the enhancement of performance. In JOURNAL OF CLEANER

- PRODUCTION. ISSN 0959-6526, 2018, vol. 198, no., pp. 452-462.,
Registrované v: WOS
16. [1.1] CHEN, Kai - YE, Dezhan - GU, Shaojin - ZHOU, Yingshan.
Thermal-oxidative effect of Kraft lignin antioxidant in polypropylene:
Uncovering the key factor using correlation analysis model. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, 2018, vol. 107, no., pp. 478-485., Registrované v: WOS
17. [1.1] CHEN, Yu - GUO, Xi - PENG, Yao - CAO, Jinzhen. Water
absorption and mold susceptibility of wood flour/polypropylene composites
modified with silane-wax emulsions. In POLYMER COMPOSITES. ISSN
0272-8397, 2019, vol. 40, no. 1, pp. 141-148., Registrované v: WOS
18. [1.1] JALALIAN, Mohammad - JIANG, Qixiang - BIROT, Marc -
DELEUZE, Herve - WOODWARD, Robert T. - BISMARCK, Alexander.
Frothed black liquor as a renewable cost effective precursor to low-density lignin
and carbon foams. In REACTIVE & FUNCTIONAL POLYMERS. ISSN
1381-5148, 2018, vol. 132, no., pp. 145-151., Registrované v: WOS
19. [1.1] JOY, Jithin - WILSON, Runcy - MATHEW, P. Lovely -
THOMAS, Sabu. NATURAL POLYMER BLENDS AND THEIR
COMPOSITES: MICRO AND NANO STRUCTURED POLYMER SYSTEMS.
In MICRO- AND NANOSTRUCTURED POLYMER SYSTEMS: FROM
SYNTHESIS TO APPLICATIONS, 2016, vol., no., pp. 1-17., Registrované v:
WOS
20. [1.1] JULINOVA, Marketa - SLAVIK, Roman - VYORALOVA,
Martina - KALEDOVA, Alena - ALEXYY, Pavol. Utilization of Waste Lignin
and Hydrolysate From Chromium Tanned Waste in Blends of Hot-Melt Extruded
PVA-Starch. In JOURNAL OF POLYMERS AND THE ENVIRONMENT.
ISSN 1566-2543, 2018, vol. 26, no. 4, pp. 1459-1472., Registrované v: WOS
21. [1.1] KABIR, Afsana S. - LI, Hongwei - YUAN, HonZhongshun -
KUBOKI, Takashi - XU, Chunbao (Charles). Effects of de-polymerized lignin
content on thermo-oxidative and thermal stability of polyethylene. In JOURNAL
OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2019, vol.
140, no., pp. 413-422., Registrované v: WOS
22. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi -
XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the
thermo-oxidative stability of polyolefins. In INDUSTRIAL CROPS AND
PRODUCTS. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované
v: WOS
23. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. -
PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In
POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol.
145, no., pp. 25-40., Registrované v: WOS
24. [1.1] KLAPISZEWSKI, Lukasz - TOMASZEWSKA, Jolanta -
SKORCZEWSKA, Katarzyna - JESIONOWSKI, Teofil. Preparation and
Characterization of Eco-Friendly Mg(OH)(2)/Lignin Hybrid Material and Its Use
as a Functional Filler for Poly(Vinyl Chloride). In POLYMERS. ISSN
2073-4360, 2017, vol. 9, no. 7, pp., Registrované v: WOS
25. [1.1] KLAPISZEWSKI, Lukasz - BULA, Karol - DOBROWOLSKA,
Anna - CZACZYK, Katarzyna - JESIONOWSKI, Teofil. A high-density
polyethylene container based on ZnO/lignin dual fillers with potential
antimicrobial activity. In POLYMER TESTING. ISSN 0142-9418, 2019, vol. 73,

no., pp. 51-59., Registrované v: WOS

26. [1.1] KOVALCIK, Adriana - MACHOVSKY, Michal - KOZAKOVA, Zuzana - KOLLER, Martin. Designing packaging materials with viscoelastic and gas barrier properties by optimized processing of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with lignin. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2015, vol. 94, no., pp. 25-34., Registrované v: WOS

27. [1.1] LAUBERTE, Liga - FABRE, Gabin - PONOMARENKO, Jevgenija - DIZHBITE, Tatiana - EVTUGUIN, Dmitry - TELYSHEVA, Galina - TROUILLAS, Patrick. Lignin Modification Supported by DFT-Based Theoretical Study as a Way to Produce Competitive Natural Antioxidants. In MOLECULES, 2019, vol. 24, no. 9, pp., Registrované v: WOS

28. [1.1] LEONZIO, Grazia - FOSCOLO, Pier Ugo - ZONDERVAN, Edwin. Sustainable utilization and storage of carbon dioxide: Analysis and design of an innovative supply chain. In COMPUTERS & CHEMICAL ENGINEERING. ISSN 0098-1354, 2019, vol. 131, no., pp., Registrované v: WOS

29. [1.1] LIANG, Xiaocong - LIU, Jun - FU, Yan - CHANG, Jie. Influence of anti-solvents on lignin fractionation of eucalyptus globulus via green solvent system pretreatment. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2016, vol. 163, no., pp. 258-266., Registrované v: WOS

30. [1.1] LIAO, Jingjing - BROSSE, Nicolas - PIZZI, Antonio - HOPPE, Sandrine - XI, Xuedong - ZHOU, Xiaojian. Polypropylene Blend with Polyphenols through Dynamic Vulcanization: Mechanical, Rheological, Crystalline, Thermal, and UV Protective Property. In POLYMERS, 2019, vol. 11, no. 7, pp., Registrované v: WOS

31. [1.1] LIAO, Jingjing - BROSSE, Nicolas - PIZZI, Antonio - HOPPE, Sandrine. Dynamically Cross-Linked Tannin as a Reinforcement of Polypropylene and UV Protection Properties. In POLYMERS. ISSN 2073-4360, 2019, vol. 11, no. 1, pp., Registrované v: WOS

32. [1.1] LI, Yingchun - JIA, Shuai - DU, Shuanli - WANG, Yafei - LV, Lida - ZHANG, Jianbin. Improved properties of recycled polypropylene by introducing the long chain branched structure through reactive extrusion. In WASTE MANAGEMENT. ISSN 0956-053X, 2018, vol. 76, no., pp. 172-179., Registrované v: WOS

33. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS

34. [1.1] LUO, Shupin - CAO, Jinzhen - MCDONALD, Armando G. Interfacial Improvements in a Green Biopolymer Alloy of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and Lignin via in Situ Reactive Extrusion. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 6, pp. 3465-3476., Registrované v: WOS

35. [1.1] LUO, Shupin - CAO, Jinzhen - SUN, Wenjing. Evaluation of Kraft Lignin as Natural Compatibilizer in Wood Flour/Polypropylene Composites. In POLYMER COMPOSITES. ISSN 0272-8397, 2017, vol. 38, no. 11, pp. 2387-2394., Registrované v: WOS

36. [1.1] LUO, Shupin - CAO, Jinzhen - MCDONALD, Armando G.

- Esterification of industrial lignin and its effect on the resulting poly(3-hydroxybutyrate-co-3-hydroxyvalerate) or polypropylene blends. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 281-291., Registrované v: WOS
37. [1.1] NAUSHAD, Md. - NAYAK, Sanjay K. - MOHANTY, Smita - KALITA, Hemjyoti - PANDA, Bishnu P. Damage tolerance behaviour of cloisite 15A incorporated recycled polypropylene nanocomposites and bionanocomposites. In JOURNAL OF EXPERIMENTAL NANOSCIENCE. ISSN 1745-8080, 2016, vol. 11, no. 14, pp. 1110-1126., Registrované v: WOS
38. [1.1] NIARAKI, Pouria Rezaee - LATIBARI, Ahmad Jahan - RASHNO, Arash - TAJDINI, Ajang. The interaction of delignification and fiber characteristics on the mechanical properties of old corrugated container fiber/polypropylene composite. In SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS. ISSN 0792-1233, 2017, vol. 24, no. 1, pp. 35-40., Registrované v: WOS
39. [1.1] NOURA, Hamour - AMAR, Boukerrou - HOCINE, Djidjelli - RABAH, Yefsah - STEPHANE, Corn - ROLAND, El Hage - ANNE, Bergeret. Effect of gamma irradiation aging on mechanical and thermal properties of alfa fiber-reinforced polypropylene composites: Role of alfa fiber surface treatments. In JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS. ISSN 0892-7057, 2018, vol. 31, no. 5, pp. 598-615., Registrované v: WOS
40. [1.1] PARPARITA, Elena - ZAHARESCU, Traian - DARIE, Raluca N. - VASILE, Cornelia. Biomass Effect on gamma-Irradiation Behavior of Some Polypropylene Biocomposites. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 8, pp. 2404-2413., Registrované v: WOS
41. [1.1] PENG, Yao - CAO, Jinzhen. Photochemical Process of Wood-Thermoplastic Composites. In PHOTOCHEMICAL BEHAVIOR OF MULTICOMPONENT POLYMERIC-BASED MATERIALS. ISSN 1869-8433, 2016, vol. 26, no., pp. 291-346., Registrované v: WOS
42. [1.1] PENG, Yao - LIU, Ru - CAO, Jinzhen. Characterization of surface chemistry and crystallization behavior of polypropylene composites reinforced with wood flour, cellulose, and lignin during accelerated weathering. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2015, vol. 332, no., pp. 253-259., Registrované v: WOS
43. [1.1] PENG, Yao - NAIR, Sandeep S. - CHEN, Heyu - YAN, Ning - CAO, Jinzhen. Effects of Lignin Content on Mechanical and Thermal Properties of Polypropylene Composites Reinforced with Micro Particles of Spray Dried Cellulose Nanofibrils. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 8, pp. 11078-11086., Registrované v: WOS
44. [1.1] PENG, Yao - WANG, Wen - CAO, Jinzhen. Preparation of Lignin-Clay Complexes and Its Effects on Properties and Weatherability of Wood Flour/Polypropylene Composites. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2016, vol. 55, no. 36, pp. 9657-9666., Registrované v: WOS
45. [1.1] PENG, Yao - WANG, Wen - CAO, Jinzhen. Preparation of Sodium Ligninsulfonate-Layered Double Hydroxide and Its Effects on Wood Flour/Polypropylene Composites During Accelerated UV Weathering. In POLYMER COMPOSITES. ISSN 0272-8397, 2018, vol. 39, no. 7, pp.

2451-2460., Registrované v: WOS

46. [1.1] QIAN, Yong - QIU, Xueqing - ZHONG, Xiaowen - ZHANG, Delang - DENG, Yonghong - YANG, Dongjie - ZHU, Shiping. Lignin Reverse Micelles for UV-Absorbing and High Mechanical Performance Thermoplastics. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 48, pp. 12025-12030., Registrované v: WOS
47. [1.1] SABARUDDIN, F. A. - PARIDAH, M. T. Effect of lignin on the thermal properties of nanocrystalline prepared from kenaf core. In WOOD AND BIOFIBER INTERNATIONAL CONFERENCE (WOBIC 2017). ISSN 1757-8981, 2018, vol. 368, no., pp., Registrované v: WOS
48. [1.1] SADEGHIFAR, Hasan - ARGYROPOULOS, Dimitris S. Correlations of the Antioxidant Properties of Softwood Kraft Lignin Fractions with the Thermal Stability of Its Blends with Polyethylene. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 2, pp. 349-356., Registrované v: WOS
49. [1.1] VAN SCHOORS, Laetitia - MINERBE, Marielle Gueguen - MOSCARDELLI, Sandrine - RABII, Hajer - DAVIES, Peter. Antioxidant properties of flax fibers in polyethylene matrix composites. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 126, no., pp. 333-339., Registrované v: WOS
50. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
51. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoxing - XU, Weilin - ZHANG, Xi. Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS
52. [1.1] YE, Dezhan - LI, Shuai - LU, Xiaomin - ZHANG, Xi - ROJAS, Orlando J. Antioxidant and Thermal Stabilization of Polypropylene by Addition of Butylated Lignin at Low Loadings. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5248-5257., Registrované v: WOS
53. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang'an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang. Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS
54. [1.1] ZHAO, Lisha - OUYANG, Xinpeng - MA, Guanfeng - QIAN, Yong - QIU, Xueqing - RUAN, Tao. Improving antioxidant activity of lignin by hydrogenolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 228-235., Registrované v: WOS
55. [1.2] DE RESENDE, Thalita Mendonça - DA COSTA, Marcelo Moreira. Biopolymers of sugarcane. In Sugarcane Biorefinery, Technology and Perspectives, 2019-01-01, pp. 229-254., Registrované v: SCOPUS
56. [1.2] DIAS, Bernardo Zandomenico - CALMON, João Luiz - DE ALVAREZ, Cristina Engel. Physical, mechanical and fire properties of thermoplastic composites produced from recycled plastic matrices and filled with

lignocellulosic residues: A review. In Journal of Solid Waste Technology and Management. ISSN 10881697, 2017-05-01, 43, 2, pp. 102-121., Registrované v: SCOPUS

57. [1.2] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 95-118., Registrované v: SCOPUS

58. [1.2] REDDY, A. Babul - MANJULA, B. - SUDHAKAR, K. - SIVANJINEYULU, V. - JAYARAMUDU, T. - SADIKU, E. R.

Polyethylene/Other Biomaterials-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 279-314., Registrované v: SCOPUS

59. [1.2] VASILE, C. - DARIE-NIȚĂ, R. N. - PĂRPĂRIȚĂ, E. Performance of biomass filled polyolefin composites. In Biocomposites: Design and Mechanical Performance, 2015-08-26, pp. 257-301., Registrované v: SCOPUS

60. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 49-80., Registrované v: SCOPUS

ADCA397 GREGOROVÁ, Adriana - CIBULKOVÁ, Z. - KOŠÍKOVÁ, Božena - ŠIMON, P. Stabilization effect of lignin in polypropylene and recycled polypropylene. In *Polymer Degradation and Stability*, 2005, vol. 89, p. 553-558. (2004: 1.685 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0141-3910.

Ohlasy:

1. [1.1] Alekhina, M (Alekhina, Marina); Erdmann, J (Erdmann, Jens); Ebert, A (Ebert, Andreas); Stepan, AM (Stepan, Agnes M.); Sixta, H (Sixta, Herbert): Physico-chemical properties of fractionated softwood kraft lignin and its potential use as a bio-based component in blends with polyethylene. In: JOURNAL OF MATERIALS SCIENCE Volume: 50 Issue: 19 Pages: 6395-6406, Registrované v: WOS

2. [1.1] Borysiak, S (Borysiak, Slawomir): The thermo-oxidative stability and flammability of wood/polypropylene composites. In: JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 119 Issue: 3 Pages: 1955-1962, Registrované v: WOS

3. [1.1] Kovalcik, A (Kovalcik, Adriana); Machovsky, M (Machovsky, Michal); Kozakova, Z (Kozakova, Zuzana); Koller, M (Koller, Martin): Designing packaging materials with viscoelastic and gas barrier properties by optimized processing of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with lignin. In: REACTIVE & FUNCTIONAL POLYMERS Volume: 94 Pages: 25-34, Registrované v: WOS

4. [1.1] Parparita, E (Parparita, Elena); Zaharescu, T (Zaharescu, Traian); Darie, RN (Darie, Raluca N.); Vasile, C (Vasile, Cornelia): Biomass Effect on gamma-Irradiation Behavior of Some Polypropylene Biocomposites. In: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 54 Issue: 8 Pages: 2404-2413, Registrované v: WOS

5. [1.1] Peng, Y (Peng, Yao); Liu, R (Liu, Ru); Cao, JZ (Cao, Jinzhen): Characterization of surface chemistry and crystallization behavior of polypropylene composites reinforced with wood flour, cellulose, and lignin during accelerated weathering. In: APPLIED SURFACE SCIENCE Volume:

332 Pages: 253-259, Registrované v: WOS

6. [1.1] Qian, Y (Qian, Yong); Qiu, XQ (Qiu, Xueqing); Zhong, XW (Zhong, Xiaowen); Zhang, DL (Zhang, Delang); Deng, YH (Deng, Yonghong); Yang, DJ (Yang, Dongjie); Zhu, SP (Zhu, Shiping): Lignin Reverse Micelles for UV-Absorbing and High Mechanical Performance Thermoplastics. In: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 54 Issue: 48 Pages: 12025-12030, Registrované v: WOS

ADCA398 GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - OSVALD, A. The study of lignin influence on properties of polypropylene composites. In *Wood Research*, 2005, vol. 50, p. 41-48. ISSN 1336-4561.

Ohlasy:

1. [1.1] LOPEZ SERNA, Daniel - ELIZONDO MARTINEZ, Perla - REYES GONZALEZ, Miguel Angel - ZALDIVAR CADENA, Antonio Alberto - ZARAGOZA CONTRERAS, Erasto Armando - SANCHEZ ANGUIANO, Maria Guadalupe. Synthesis and Characterization of a Lignin-Styrene-Butyl Acrylate Based Composite. In *POLYMERS*, 2019, vol. 11, no. 6, pp., Registrované v: WOS

2. [1.1] TRIWULANDARI, Evi - GHOZALI, Muhammad - SONDARI, Dewi - SEPTIYANTI, Melati - SAMPORA, Yulianti - MELIANA, Yenny - FAHMIATI, Sri - RESTU, Witta Kartika - HARYONO, Agus. Effect of lignin on mechanical, biodegradability, morphology, and thermal properties of polypropylene/polylactic acid/lignin biocomposite. In *PLASTICS RUBBER AND COMPOSITES*. ISSN 1465-8011, 2019, vol. 48, no. 2, pp. 82-92., Registrované v: WOS

3. [1.2] KAI, Dan - JIANG, Shan - LOW, Zhi Wei - LOH, Xian Jun. Engineering highly stretchable lignin-based electrospun nanofibers for potential biomedical applications. In *Journal of Materials Chemistry B*. ISSN 20507518, 2015-08-14, 3, 30, pp. 6194-6204., Registrované v: SCOPUS

ADCA399 GREŠÁKOVÁ, Ľubomíra - BOŘUTOVÁ, Radka - FAIX, Štefan - PLACHÁ, Iveta - ČOBANOVÁ, Klaudia - KOŠÍKOVÁ, Božena - LENG, Ľubomír. Effect of lignin on oxidative stress in chicken fed a diet contaminated with zearalenone. In *Acta Veterinaria Hungarica*, 2012, vol. 60, no. 1, p. 103-114. (2011: 0.673 - IF, Q3 - JCR, 0.420 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0236-6290. Dostupné na: <https://doi.org/10.1556/AVet.2012.009>

Ohlasy:

1. [1.1] EGRESI, Anna - SULE, Krisztina - SZENTMIHALYI, Klara - BLAZOVICS, Anna - FEHER, Erzsebet - HAGYMASI, Krisztina - FEBEL, Hedvig. Impact of milk thistle (*Silybum marianum*) on the mycotoxin caused redox-homeostasis imbalance of ducks liver. In *TOXICON*. ISSN 0041-0101, 2020, vol. 187, no., pp. 181-187. Dostupné na: <https://doi.org/10.1016/j.toxicon.2020.09.002>., Registrované v: WOS

2. [1.1] CHENG, Qun - JIANG, Shuzhen - HUANG, Libo - GE, Jinshan - WANG, Yuxi - YANG, Weiren. Zearalenone induced oxidative stress in the jejunum in postweaning gilts through modulation of the Keap1-Nrf2 signaling pathway and relevant genes. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2019, vol. 97, no. 4, pp. 1722-1733., Registrované v: WOS

3. [1.1] CHEN, Yueping - CHENG, Yefei - WEN, Chao - WANG, Wenbo - KANG, Yuru - WANG, Aiqin - ZHOU, Yanmin. The protective effects

of modified palygorskite on the broilers fed a purified zearalenone-contaminated diet. In *POULTRY SCIENCE*. ISSN 0032-5791, 2019, vol. 98, no. 9, pp. 3802-3810., Registrované v: WOS

4. [1.1] KARMANOV, Anatoly P. - KANARSKY, Albert V. - KANARSKAYA, Zosya A. - KOICHEVA, Ludmila S. - SEMENOV, Eduard I. - BOGDANOVICH, Nikolai I. - BELYY, Vladimir A. In vitro adsorption-desorption of aflatoxin B1 on Pepper's lignins isolated from grassy plants. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 144, no., pp. 111-117. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.081>., Registrované v: WOS

5. [1.1] QIN, Xunsi - CAO, Mingjun - LAI, Fangnong - YANG, Fan - GE, Wei - ZHANG, Xifeng - CHENG, Shunfeng - SUN, Xiaofeng - QIN, Guoqing - SHEN, Wei - LI, Lan. Oxidative Stress Induced by Zearalenone in Porcine Granulosa Cells and Its Rescue by Curcumin In Vitro. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 6, art. no e0127551., Registrované v: WOS

6. [1.1] SURAI, Peter F. Molecular mechanisms of selenium action: selenoproteins. In *SELENIUM IN POULTRY NUTRITION AND HEALTH*, 2018, vol., no., pp. 67-151., Registrované v: WOS

7. [1.1] SURAI, P. F. - KOCHISH, I. I. - FISININ, V. I. Glutathione peroxidases in poultry biology: Part 2. Modulation of enzymatic activities. In *WORLD POULTRY SCIENCE JOURNAL*. ISSN 0043-9339, 2018, vol. 74, no. 2, pp. 239-250., Registrované v: WOS

8. [1.1] XIAO, Yinxia - XU, Shiwen - ZHAO, Shuchen - LIU, Kexiang - LU, Zhanjun - HOU, Zhenzhong. Protective effects of selenium against zearalenone-induced apoptosis in chicken spleen lymphocyte via an endoplasmic reticulum stress signaling pathway. In *CELL STRESS & CHAPERONES*. ISSN 1355-8145, 2019, vol. 24, no. 1, pp. 77-89., Registrované v: WOS

9. [1.2] HUSSIEN, Ahmed Mohamed Saied - BADR, Ahmed Noah - NAEEM, Mohamed Ahmed. Innovative nutritious biscuits limit aflatoxin contamination. In *Pakistan Journal of Biological Sciences*. ISSN 10288880, 2019-01-01, 22, 3, pp. 133-142., Registrované v: SCOPUS

ADCA400 GREŠÍK, Miroslav - KOLAROVA, Nadežda - FARKAŠ, Vladimír.

Hyperpolarization and intracellular acidification in *Trichoderma viride* as a response to illumination. In *Journal of General Microbiology*, 1991, vol. 137, . p. 2605-2609.

Ohlasy:

1. [1.1] DARYAEI, Amir - JONES, E. Eirian - GLARE, Travis R. - FALLOON, Richard E. pH and water activity in culture media affect biological control activity of *Trichoderma atroviride* against *Rhizoctonia solani*. In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2016, vol. 92, no., pp. 24-30., Registrované v: WOS

ADCA401 GREŠÍK, Miroslav - KOLAROVA, Nadežda - FARKAŠ, Vladimír. Light stimulated phosphorylation of proteins in cell-free extracts from *Trichoderma viride*. In *FEBS Letters*, 1989, vol. 248, p. 185-187. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(89\)80458-2](https://doi.org/10.1016/0014-5793(89)80458-2)

Ohlasy:

1. [1.1] SCHMOLL, Monika et al. The Genomes of Three Uneven Siblings: Footprints of the Lifestyles of Three *Trichoderma* Species. In

ADCA402 GREŠÍK, Miroslav - KOLAROVA, Nadežda - FARKAŠ, Vladimír.

Membrane-potential, ATP, and cyclic-AMP changes induced by light in
Trichoderma viride. In *Experimental Mycology*, 1988, vol.12, p. 295-301. Dostupné
na: [https://doi.org/10.1016/0147-5975\(88\)90021-7](https://doi.org/10.1016/0147-5975(88)90021-7)

Ohlasy:

1. [1.1] HILARES, Ruly Teran - DE SOUZA, Rebeca Andrade -
MARCELINO, Paulo Franco - DA SILVA, Silvio Silverio - DRAGONE,
Giuliano - MUSSATTO, Solange I. - SANTOS, Julio Cesar. Sugarcane bagasse
hydrolysate as a potential feedstock for red pigment production by *Monascus*
ruber. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp.
786-791., Registrované v: WOS
2. [1.1] MORENO-RUIZ, Dubraska - FUCHS, Alessandro -
MISSBACH, Kristina - SCHUHMACHER, Rainer - ZEILINGER, Susanne.
Influence of Different Light Regimes on the Mycoparasitic Activity and
6-Pentyl-alpha-pyrone Biosynthesis in Two Strains of *Trichoderma atroviride*. In
PATHOGENS, 2020, vol. 9, no. 10, pp. Dostupné na:
<https://doi.org/10.3390/pathogens9100860>., Registrované v: WOS
3. [1.1] PATEL, Jaisingh - TELI, Basavaraj - BAJPAI, Raina - MEHER,
Jhumishree - RASHID, Md. Mahtab - MUKHERJEE, Arpan - YADAV, Sudheer
Kumar. *Trichoderma*-mediated biocontrol and growth promotion in plants: an
endophytic approach. In *ROLE OF PLANT GROWTH PROMOTING*
MICROORGANISMS IN SUSTAINABLE AGRICULTURE AND
NANOTECHNOLOGY, 2019, vol., no., pp. 219-239., Registrované v: WOS
4. [1.1] STAPPLER, Eva - RODRIGUEZ-IGLESIAS, Aroa -
BAZAFKAN, Hoda - LI, Guofen - SCHMOLL, Monika. Relevance of Signal
Transduction Pathways for Efficient Gene Expression in Fungi. In *GENE*
EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND
APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 309-334., Registrované
v: WOS
5. [1.2] HINTERDOBLER, Wolfgang - SCHUSTER, André - TISCH,
Doris - ÖZKAN, Ezgi - BAZAFKAN, Hoda - SCHINNERL, Johann -
BRECKER, Lothar - BÖHMDORFER, Stefan - SCHMOLL, Monika. The role of
PKAc1 in gene regulation and trichodimerol production in *Trichoderma reesei*. In
Fungal Biology and Biotechnology, 2019-09-10, 6, 1, pp., Registrované v:
SCOPUS
6. [1.2] NAKKEERAN, Sevugapperumal - RENUKADEVI, Perumal -
AIYANATHAN, K. E.A. Exploring the potential of *Trichoderma* for the
management of seed and soil-borne diseases of crops. In *Integrated Pest*
Management of Tropical Vegetable Crops, 2016-01-01, pp. 77-130.,
Registrované v: SCOPUS
7. [1.2] SCHMOLL, Monika. Regulation of plant cell wall degradation
by light in *trichoderma*. In *Fungal Biology and Biotechnology*, 2018-01-01, 5, 1,
pp. 1-20., Registrované v: SCOPUS

ADCA403 GRIESSLER, R. - SCHWARZ, A. - MUCHA, Ján. Tracking interactions that
stabilize the dimer structure of starch phosphorylase from *Corynebacterium*
callunae. Roles of Arg234 and Arg242 revealed by sequence analysis and

site-directed mutagenesis. In *European Journal of Biochemistry*, 2003, vol. 270, p. 2126-2136. (2002: 2.999 - IF, Current Contents - CCC). (2003 - Current Contents, WOS, SCOPUS). ISSN 0014-2956.

Ohlasy:

1. [1.2] CLERMONT, Lina - MACHA, Arthur - MÜLLER, Laura M. - DERYA, Sami M. - VON ZALUSKOWSKI, Philipp - ECK, Alexander - EIKMANN, Bernhard J. - SEIBOLD, Gerd M. The α -glucan phosphorylase MalP of *Corynebacterium glutamicum* is subject to transcriptional regulation and competitive inhibition by ADP-glucose. In *Journal of Bacteriology*. ISSN 00219193, 2015-01-01, 197, 8, pp. 1394-1407., Registrované v: SCOPUS

ADCA404 GROSSMANN, E. - ŠEFČOVIČ, P. - SZÁSZ, K. Picrinine in *Vinca minor*. In *Phytochemistry*, 1973, vol. 12, p. 2058-2058. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/S0031-9422\(00\)91538-3](https://doi.org/10.1016/S0031-9422(00)91538-3)

Ohlasy:

1. [1.1] LEVAC, Dylan - CAZARES, Paulo - YU, Fang - DE LUCA, Vincenzo. A Picrinine N-Methyltransferase Belongs to a New Family of gamma-Tocopherol-Like Methyltransferases Found in Medicinal Plants That Make Biologically Active Monoterpenoid Indole Alkaloids. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2016, vol. 170, no. 4, pp. 1935-1944., Registrované v: WOS

ADCA405 GUERRINI, M. - HRICOVÍNI, Miloš - TORRI, G. Interaction of heparins with fibroblast growth factors. Conformational aspects. In *Current Pharmaceutical Design*, 2007, vol.13, p. 2045-2056. (2006: 5.270 - IF, Q1 - JCR, 1.801 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 1381-6128. Dostupné na: <https://doi.org/10.2174/138161207781039733>

Ohlasy:

1. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS

2. [1.1] FUKUNISHI, Yoshiaki - TABATA, Yasuhiko. Osteogenic differentiation enhances the MC3T3-E1 secretion of glycosaminoglycans with an affinity for basic fibroblast growth factor and bone morphogenetic protein-2. In *REGENERATIVE THERAPY*. ISSN 2352-3204, 2018, vol. 8, no., pp. 58-62., Registrované v: WOS

3. [1.1] HUANG, Chahua - LIU, Yang - BEENKEN, Andrew - JIANG, Lin - GAO, Xiang - HUANG, Zhifeng - HSU, Anna - GROSS, Garrett J. - WANG, Yi-Gang - MOHAMMADI, Moosa - SCHULTZ, Jo El J. A novel fibroblast growth factor-1 ligand with reduced heparin binding protects the heart against ischemia-reperfusion injury in the presence of heparin co-administration. In *CARDIOVASCULAR RESEARCH*. ISSN 0008-6363, 2017, vol. 113, no. 13, pp. 1585-1602., Registrované v: WOS

4. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Receptor tyrosine kinases and heparan sulfate proteoglycans: Interplay providing anticancer targeting strategies and new therapeutic opportunities. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 178, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114084>., Registrované v: WOS

5. [1.1] MOURAO, Paulo A. S. - VILANOVA, Eduardo - SOARES,

Paulo A. G. Unveiling the structure of sulfated fucose-rich polysaccharides via nuclear magnetic resonance spectroscopy. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2018, vol. 50, no., pp. 33-41., Registrované v: WOS

6. [1.1] PETERSON, Erica J. - BERNERS-PRICE, Susan J. - BEZOS, Anna - BOHLMAN, Lisa - KATNER, Samantha J. - DANIEL, A. Gerard - CHANG, Chih-Wei - VON ITZSTEIN, Mark - PARISH, Christopher R. - FARRELL, Nicholas P. Antiangiogenic platinum through glycan targeting. In CANCER RESEARCH. ISSN 0008-5472, 2015, vol. 75, no., pp., Registrované v: WOS

7. [1.1] POMIN, Vitor H. Paradigms in the structural biology of the mitogenic ternary complex FGF:FGFR:heparin. In BIOCHIMIE. ISSN 0300-9084, 2016, vol. 127, no., pp. 214-226., Registrované v: WOS

8. [1.1] SECCO, Ilaria - BARILE, Lucio - TORRINI, Consuelo - ZENTILIN, Lorena - VASSALLI, Giuseppe - GIACCA, Mauro - COLLESI, Chiara. Notch pathway activation enhances cardiosphere in vitro expansion. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE, 2018, vol. 22, no. 11, pp. 5583-5595., Registrované v: WOS

9. [1.2] CHAVANTE, Suely Ferreira - BRITO, Adriana da Silva - CAVALCANTE, Rômulo dos Santos - DE ANDRADE, Julianna Paiva Viana. Unusual heparin-like compounds from marine invertebrates. In Sulfated Polysaccharides, 2015-07-01, pp. 105-120., Registrované v: SCOPUS

10. [1.2] PETERSON, Erica J. - DANIEL, A. Gerard - KATNER, Samantha J. - BOHLMANN, Lisa - CHANG, Chih Wei - BEZOS, Anna - PARISH, Christopher R. - VON ITZSTEIN, Mark - BERNERS-PRICE, Susan J. - FARRELL, Nicholas P. Antiangiogenic platinum through glycan targeting. In Chemical Science. ISSN 20416520, 2016-01-01, 8, 1, pp. 241-252., Registrované v: SCOPUS

11. [1.2] PIZZO, Salvatore V. - LUNDBLAD, Roger L. - WILLIS, Monte S. Proteolysis in the interstitial space. In Proteolysis in the Interstitial Space, 2016-08-19, pp. 1-297., Registrované v: SCOPUS

12. [1.2] POMIN, Vitor H. Marine non-glycosaminoglycan sulfated glycans as potential pharmaceuticals. In Pharmaceuticals, 2015-12-10, 8, 4, pp. 848-864., Registrované v: SCOPUS

ADCA406 GUERRINI, M. - AGULLES, T. - BISIO, A. - HRICOVÍNI, Miloš - LAY, L. - NAGGI, A. - POLETTI, L. - STURIALE, L. - TORRI, G. - CASU, B. Minimal heparin/heparan sulfate sequences for binding to fibroblast growth factor-1. In *Biochemical and biophysical research communications*, 2002, vol. 292, p. 222-230. ISSN 0006-291X. Dostupné na: <https://doi.org/10.1006/bbrc.2002.6634>

Ohlasy:

1. [1.1] ARNOLD, Katelyn - LIAO, Yi-En - LIU, Jian. Potential Use of Anti-Inflammatory Synthetic Heparan Sulfate to Attenuate Liver Damage. In BIOMEDICINES, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/biomedicines8110503>., Registrované v: WOS

2. [1.1] BEURSKENS, Danielle M. H. - HUCKRIEDE, Joram P. - SCHRIJVER, Roy - HEMKER, H. Coenraad - REUTELINGSPERGER, Chris P. - NICOLAES, Gerry A. F. The Anticoagulant and Nonanticoagulant Properties of Heparin. In THROMBOSIS AND HAEMOSTASIS. ISSN 0340-6245, 2020, vol. 120, no. 10, pp. 1371-1383. Dostupné na:

<https://doi.org/10.1055/s-0040-1715460>., Registrované v: WOS

3. [1.1] GALLAGHER, John. Fell-Muir Lecture: Heparan sulphate and the art of cell regulation: a polymer chain conducts the protein orchestra. In INTERNATIONAL JOURNAL OF EXPERIMENTAL PATHOLOGY. ISSN 0959-9673, 2015, vol. 96, no. 4, pp. 203-231., Registrované v: WOS

4. [1.1] JIN, Weihua - HE, Xinyue - WU, Wanli - BAO, Yizhong - WANG, Sanying - CAI, Min - ZHANG, Wenjing - WANG, Chunyu - ZHANG, Fuming - LINHARDT, Robert J. - MAO, Genxiang - ZHONG, Weihong. Structural analysis of a glucoglucuronan derived from laminarin and the mechanisms of its anti-lung cancer activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 776-787. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.069>., Registrované v: WOS

5. [1.1] JOSE GARCIA-JIMENEZ, Maria - GIL-CABALLERO, Sergio - CANALES, Angeles - JIMENEZ-BARBERO, Jesus - DE PAZ, Jose L. - NIETO, Pedro M. Interactions between a Heparin Trisaccharide Library and FGF-1 Analyzed by NMR Methods. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS

6. [1.1] MENEGHETTI, Maria C. Z. - HUGHES, Ashley J. - RUDD, Timothy R. - NADER, Helena B. - POWELL, Andrew K. - YATES, Edwin A. - LIMA, Marcelo A. Heparan sulfate and heparin interactions with proteins. In JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689, 2015, vol. 12, no. 110, pp., Registrované v: WOS

7. [1.1] PENG, Li-Xin - LIU, Xue-Hui - LU, Bo - LIAO, Si-Ming - ZHOU, Feng - HUANG, Ji-Min - CHEN, Dong - TROY, Frederic A. - ZHOU, Guo-Ping - HUANG, Ri-Bo. The Inhibition of Polysialyltransferase ST8SiaIV Through Heparin Binding to Polysialyltransferase Domain (PSTD). In MEDICINAL CHEMISTRY. ISSN 1573-4064, 2019, vol. 15, no. 5, pp. 486-495., Registrované v: WOS

8. [1.1] POMIN, Vitor H. Paradigms in the structural biology of the mitogenic ternary complex FGF:FGFR:heparin. In BIOCHIMIE. ISSN 0300-9084, 2016, vol. 127, no., pp. 214-226., Registrované v: WOS

9. [1.1] POMIN, Vitor H. - WANG, Xu. Synthetic Oligosaccharide Libraries and Microarray Technology: A Powerful Combination for the Success of Current Glycosaminoglycan Interactomics. In CHEMMEDCHEM. ISSN 1860-7179, 2018, vol. 13, no. 7, pp. 648-661., Registrované v: WOS

10. [1.1] SHU, Cindy C. - SMITH, Susan M. - LITTLE, Christopher B. - MELROSE, James. Elevated hypertrophy, growth plate maturation, glycosaminoglycan deposition, and exostosis formation in the Hspg2 exon 3 null mouse intervertebral disc. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2019, vol. 476, no., pp. 225-243., Registrované v: WOS

11. [1.1] SMITH, Raymond A. A. - MURALI, Sadasivam - RAI, Bina - LU, Xiaohua - LIM, Zophia Xue Hui - LEE, Jaslyn J. L. - NURCOMBE, Victor - COOL, Simon M. Minimum structural requirements for BMP-2-binding of heparin oligosaccharides. In BIOMATERIALS. ISSN 0142-9612, 2018, vol. 184, no., pp. 41-55., Registrované v: WOS

12. [1.1] ZHAO, Yuejie - SINGH, Arunima - XU, Yongmei - ZONG, Chengli - ZHANG, Fuming - BOONS, Geert-Jan - LIU, Jian - LINHARDT, Robert J. - WOODS, Robert J. - AMSTER, I. Jonathan. Gas-Phase Analysis of

the Complex of Fibroblast GrowthFactor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2017, vol. 28, no. 1, pp. 96-109., Registrované v: WOS

13. [1.1] ZHAO, Yunlong - KALTASHOV, Igor A. Evaluation of top-down mass spectrometry and ion-mobility spectroscopy as a means of mapping protein-binding motifs within heparin chains. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 8, pp. 3090-3099. Dostupné na: <https://doi.org/10.1039/d0an00097c>., Registrované v: WOS

14. [1.2] SHAO, Meng - LIU, Chun Hui. Recent Advances in Synthesis of Heparin Oligosaccharides and their Regulation Effect on Angiogenesis. In Chinese Journal of Pharmaceutical Biotechnology. ISSN 10058915, 2018-06-01, 25, 3, pp. 263-267., Registrované v: SCOPUS

ADCA407 GUGLIERI, S. - HRICOVÍNI, Miloš - RAMAN, R. - POLITO, L. - TORRI, G. - CASU, B. - SASISEKHARAN, R. - GUERRINI, M. Minimum FGF2 binding structural requirements of heparin and heparan sulfate oligosaccharides as determined by NMR spectroscopy. In *Biochemistry*, 2008, vol.47, p. 13862-13869. (2007: 3.368 - IF, Q2 - JCR, 2.441 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0006-2960. Dostupné na: <https://doi.org/10.1021/bi801007p>

Ohlasy:

1. [1.1] AHRENS, Lucas A. J. - VONWIL, Daniel - CHRISTENSEN, Jon - SHASTRI, V. Prasad. Gelatin device for the delivery of growth factors involved in endochondral ossification. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 4, pp., Registrované v: WOS

2. [1.1] ARLOV, Oystein - AACHMANN, Finn L. - FEYZI, Emadoldin - SUNDAN, Anders - SKJAK-BRAEK, Gudmund. The Impact of Chain Length and Flexibility in the Interaction between Sulfated Alginates and HGF and FGF-2. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 11, pp. 3417-3424., Registrované v: WOS

3. [1.1] ARNOLD, Katelyn - LIAO, Yi-En - LIU, Jian. Potential Use of Anti-Inflammatory Synthetic Heparan Sulfate to Attenuate Liver Damage. In BIOMEDICINES, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/biomedicines8110503>., Registrované v: WOS

4. [1.1] BECCATI, Daniela - LECH, Mirosław - OZUG, Jennifer - GUNAY, Nur Sibel - WANG, Jing - SUN, Elaine Y. - PRADINES, Joel R. - FARUTIN, Victor - SHRIVER, Zachary - KAUNDINYA, Ganesh V. - CAPILA, Ishan. An integrated approach using orthogonal analytical techniques to characterize heparan sulfate structure. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 1, pp. 107-117., Registrované v: WOS

5. [1.1] DE PASQUALE, Valeria - SAROGNI, Patrizia - PISTORIO, Valeria - CERULO, Giuliana - PALADINO, Simona - PAVONE, Luigi Michele. Targeting Heparan Sulfate Proteoglycans as a Novel Therapeutic Strategy for Mucopolysaccharidoses. In MOLECULAR THERAPY-METHODS & CLINICAL DEVELOPMENT. ISSN 2329-0501, 2018, vol. 10, no., pp. 8-16., Registrované v: WOS

6. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS. ISSN

1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS

7. [1.1] FUKUNISHI, Yoshiaki - TABATA, Yasuhiko. Osteogenic differentiation enhances the MC3T3-E1 secretion of glycosaminoglycans with an affinity for basic fibroblast growth factor and bone morphogenetic protein-2. In REGENERATIVE THERAPY. ISSN 2352-3204, 2018, vol. 8, no., pp. 58-62., Registrované v: WOS

8. [1.1] HAN, Wenwei - SONG, Lili - WANG, Yingdi - LV, Youjing - CHEN, Xiangyan - ZHAO, Xia. Preparation, Characterization, and Inhibition of Hyaluronic Acid Oligosaccharides in Triple-Negative Breast Cancer. In BIOMOLECULES, 2019, vol. 9, no. 9, pp., Registrované v: WOS

9. [1.1] HUANG, Rongrong - ZONG, Chengli - VENOT, Andre - CHIU, Yulun - ZHOU, Dandan - BOONS, Geert-Jan - SHARP, Joshua S. De Novo Sequencing of Complex Mixtures of Heparan Sulfate Oligosaccharides. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 10, pp. 5299-5307., Registrované v: WOS

10. [1.1] LIMA, Marcelo A. - CAVALHEIRO, Renan P. - VIANA, Gustavo M. - MENEGHETTI, Maria C. Z. - RUDD, Timothy R. - SKIDMORE, Mark A. - POWELL, Andrew K. - YATES, Edwin A. F-19 labelled glycosaminoglycan probes for solution NMR and non-linear (CARS) microscopy. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 405-410., Registrované v: WOS

11. [1.1] LIM, Teck Chuan - CAI, Shuting - HUBER, Roland G. - BOND, Peter J. - CHIA, Priscilla Xian Siew - KHOU, Siv Ly - GAO, Shujun - LEE, Su Seong - LEE, Song-Gil. Facile saccharide-free mimetics that recapitulate key features of glycosaminoglycan sulfation patterns. In CHEMICAL SCIENCE. ISSN 2041-6520, 2018, vol. 9, no. 41, pp. 7940-7947., Registrované v: WOS

12. [1.1] LINDSAY, Susan L. - MCCANNEY, George A. - WILLISON, Alice G. - BARNETT, Susan C. Multi-target approaches to CNS repair: olfactory mucosa-derived cells and heparan sulfates. In NATURE REVIEWS NEUROLOGY. ISSN 1759-4758, 2020, vol. 16, no. 4, pp. 229-240. Dostupné na: <https://doi.org/10.1038/s41582-020-0311-0>., Registrované v: WOS

13. [1.1] MACKIE, Alan R. - GOYCOOLEA, Francisco M. - MENCHICCHI, Bianca - CAMELLA, Carla Marcella - SAPORITO, Francesca - LEE, Seunghwan - STEPHANSEN, Karen - CHRONAKIS, Ioannis S. - HIORTH, Marianne - ADAMCZAK, Malgorzata - WALDNER, Max - NIELSEN, Hanne Morck - MARCELLONI, Luciano. Innovative Methods and Applications in Mucoadhesion Research. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2017, vol. 17, no. 8, pp., Registrované v: WOS

14. [1.1] MANIKOWSKI, Dominique - JAKOBS, Petra - JBOOR, Hamodah - GROBE, Kay. Soluble Heparin and Heparan Sulfate Glycosaminoglycans Interfere with Sonic Hedgehog Solubilization and Receptor Binding. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 8, pp., Registrované v: WOS

15. [1.1] MAZA, Susana - GANDIA-AGUADO, Noel - DE PAZ, Jose L. - NIETO, Pedro M. Fluorous-tag assisted synthesis of a glycosaminoglycan mimetic tetrasaccharide as a high-affinity FGF-2 and midkine ligand. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2018, vol. 26, no. 5, pp. 1076-1085., Registrované v: WOS

16. [1.1] MCCANNEY, George A. - LINDSAY, Susan L. - MCGRATH,

Michael A. - WILLISON, Hugh J. - MOSS, Claire - BAVINGTON, Charles - BARNETT, Susan C. The Use of Myelinating Cultures as a Screen of Glycomolecules for CNS Repair. In BIOLOGY-BASEL, 2019, vol. 8, no. 3, pp., Registrované v: WOS

17. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Rigorous analysis of free solution glycosaminoglycan dynamics using simple, new tools. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 516-527. Dostupné na:

<https://doi.org/10.1093/glycob/cwaa015>, Registrované v: WOS

18. [1.1] POMIN, Vitor H. Paradigms in the structural biology of the mitogenic ternary complex FGF:FGFR:heparin. In BIOCHIMIE. ISSN 0300-9084, 2016, vol. 127, no., pp. 214-226., Registrované v: WOS

19. [1.1] SETO, Song P. - MILLER, Tobias - TEMENOFF, Johnna S. Effect of Selective Heparin Desulfation on Preservation of Bone Morphogenetic Protein-2 Bioactivity after Thermal Stress. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2015, vol. 26, no. 2, pp. 286-293., Registrované v: WOS

20. [1.1] THIEKER, David F. - XU, Yongmei - CHAPLA, Digantkumar - NORA, Chelsea - QIU, Hong - FELIX, Thomas - WANG, Lianchun - MOREMEN, Kelley W. - LIU, Jian - ESKO, Jeffrey D. - WOODS, Robert J. Downstream Products are Potent Inhibitors of the Heparan Sulfate 2-O-Sulfotransferase. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

21. [1.2] POMIN, Vitor H. Marine non-glycosaminoglycan sulfated glycans as potential pharmaceuticals. In Pharmaceuticals, 2015-12-10, 8, 4, pp. 848-864., Registrované v: SCOPUS

22. [1.2] WALL, Jonathan S. - WILLIAMS, Angela - WOOLIVER, Craig - MARTIN, Emily B. - CHENG, Xiaolin - HEIDEL, R. Eric - KENNEL, Stephen J. Secondary structure propensity and chirality of the amyloidophilic peptide p5 and its analogues impacts ligand binding In vitro characterization. In Biochemistry and Biophysics Reports, 2016-12-01, 8, pp. 89-99., Registrované v: SCOPUS

ADCA408 GULLÓN, Patricia - GONZALEZ-MUNOZ, Maria Jesús - VAN GOOL, Martine Paula - SCHOLS, Henk Arie - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, Juan Carlos. Structural features and properties of soluble products derived from Eucalyptus globulus hemicelluloses. In *Food chemistry*, 2011, vol. 129, p. 1798-1807. (2010: 3.458 - IF, Q1 - JCR, 1.981 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2011.02.066>

Ohlasy:

1. [1.1] GHOSHAL, Gargi - SINGH, Deepinderjot. Synthesis and characterization of starch nanocellulosic films incorporated with Eucalyptus globulus leaf extract. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2020, vol. 332, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijfoodmicro.2020.108765>, Registrované v: WOS

2. [1.1] GOMEZ, Belen - MIGUEZ, Beatriz - YANEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 131-161., Registrované v: WOS

3. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
4. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
5. [1.1] MITRA, Debmalya - JENA, Aditya Kr. - DE, Arnab - DAS, Mousumi - DAS, Bhaskar - SAMANTA, Amalesh. Prebiotic potential of gum odina and its impact on gut ecology: in vitro and in vivo assessments. In FOOD & FUNCTION. ISSN 2042-6496, 2016, vol. 7, no. 7, pp. 3064-3072., Registrované v: WOS
6. [1.1] PU, Jianghua - ZHAO, Xia - WANG, Qingchi - WANG, Yingdi - ZHOU, Hui. Development and validation of a HPLC method for determination of degree of polymerization of xylo-oligosaccharides. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 213, no., pp. 654-659., Registrované v: WOS
7. [1.1] PU, Jianghua - ZHAO, Xia - WANG, Qingchi - XIAO, Lin - ZHAO, Haitao. Structural characterization of xylo-oligosaccharides from corncob residues. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2016, vol. 35, no. 6, pp. 344-354., Registrované v: WOS
8. [1.1] PU, Jianghua - ZHAO, Xia - XIAO, Lin - ZHAO, Haitao. Development and validation of a HILIC-ELSD method for simultaneous analysis of non-substituted and acetylated xylo-oligosaccharides. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2017, vol. 139, no., pp. 232-237., Registrované v: WOS
9. [1.1] RUIZ, Encarnacion - GULLON, Beatriz - MOURA, Patricia - CARVALHEIRO, Florbela - EIBES, Gemma - CARA, Cristobal - CASTRO, Eulogio. Bifidobacterial growth stimulation by oligosaccharides generated from olive tree pruning biomass. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 149-156., Registrované v: WOS
10. [1.1] SANTOS, Tamara M. - VIRGINIA ALONSO, M. - OLIET, Mercedes - DOMINGUEZ, Juan C. - RIGUAL, Victoria - RODRIGUEZ, Francisco. Effect of autohydrolysis on Pinus radiata wood for hemicellulose extraction. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 285-293., Registrované v: WOS
11. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
12. [1.2] CARVALHEIRO, F. - DUARTE, L. C. - GÍRIO, F. - MONIZ, P. Hydrothermal/Liquid Hot Water Pretreatment (Autohydrolysis): A Multipurpose Process for Biomass Upgrading. In Biomass Fractionation Technologies for a Lignocellulosic Feedstock Based Biorefinery, 2016-01-01, pp. 315-347., Registrované v: SCOPUS
13. [1.2] DONG, Jiran - YANG, Guihua - JI, Xingxiang - XU, Feng - CHEN, Jiachuan. Improvement of Xylo-oligosaccharides Content of Eucalyptus

Pre-hydrolysis Liquor with Microwave-assisted Acid Treatment. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2019-06-01, 38, 6, pp. 7-13., Registrované v: SCOPUS

14. [1.2] CHEN, Jiachuan - DONG, Jiran - YANG, Guihua - XU, Feng - JI, Xingxiang. Preparation of xylo-oligosaccharides from eucalyptus pre-hydrolysis liquor with xylanase treatment. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2019-08-01, 38, 8, pp. 1-7., Registrované v: SCOPUS

15. [1.2] PADILHA, Itácio Q.M. - VALENZUELA, Susana V. - GRISI, Teresa C.S.L. - DIAZ, Pilar - DE ARAÚJO, Demetrius A.M. - JAVIER PASTOR, Francisco I. A glucuronoxylan-specific xylanase from a new *Paenibacillus favisporus* strain isolated from tropical soil of Brazil. In International Microbiology. ISSN 11396709, 2015-01-01, 17, 3, pp. 175-184., Registrované v: SCOPUS

16. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

ADCA409 GULLÓN, P. - GONZALEZ-MUÑOZ, M.J. - VAN GOOL, M.P. - SCHOLS, H.A. - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, J.C. Production, refining, structural characterization and fermentability of rice husk xylooligosaccharides. In *Journal of agricultural and food chemistry*, 2010, vol. 58, p. 3632-3641. (2009: 2.469 - IF, 1.330 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf904508g>

Ohlasy:

1. [1.1] BASINSKIENE, Loreta - JUODEIKIENE, Grazina - VIDMANTIENE, Daiva - TENKANEN, Maija - MAKARAVICIUS, Tomas - BARTKIENE, Elena. Non-Alcoholic Beverages from Fermented Cereals with Increased Oligosaccharide Content. In *FOOD TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 1330-9862, 2016, vol. 54, no. 1, pp. 36-44., Registrované v: WOS

2. [1.1] BURUIANA, Cristian-Teodor - GOMEZ, Belen - VIZIREANU, Camelia - GARROTE, Gil. Manufacture and evaluation of xylooligosaccharides from corn stover as emerging prebiotic candidates for human health. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 77, no., pp. 449-459., Registrované v: WOS

3. [1.1] FARIAS, David de Paulo - DE ARAUJO, Fabio Fernandes - NERI-NUMA, Iramaia Angelica - PASTORE, Glaucia Maria. Prebiotics: Trends in food, health and technological applications. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2019, vol. 93, no., pp. 23-35., Registrované v: WOS

4. [1.1] GAUTERIO, Gabrielle Victoria - VIEIRA, Matheus Cardoso - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - LADEIRA SANZO, Ana Virginia - KALIL, Susana Juliano. Production of xylanolytic enzymes and xylooligosaccharides by *Aureobasidium pullulans* CCT 1261 in submerged cultivation. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 335-345., Registrované v: WOS

5. [1.1] GOMEZ, Belen - MIGUEZ, Beatriz - YANEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 131-161., Registrované v: WOS
6. [1.1] GUO, Min - DING, Guo-Bin - GUO, Songjia - LI, Zhuoyu - ZHAO, Liangqi - LI, Ke - GUO, Xiangrong. Isolation and antitumor efficacy evaluation of a polysaccharide from *Nostoc commune* Vauch. In FOOD & FUNCTION. ISSN 2042-6496, 2015, vol. 6, no. 9, pp. 3035-3044., Registrované v: WOS
7. [1.1] HERO, J. S. - ROMERO, C. M. - PISA, J. H. - PEROTTI, N. I. - OLIVARO, C. - MARTINEZ, M. A. Designing cross-linked xylanase aggregates for bioconversion of agroindustrial waste biomass towards potential production of nutraceuticals. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 229-236., Registrované v: WOS
8. [1.1] HUANG, Caoxing - WANG, Xucai - LIANG, Chen - JIANG, Xiao - YANG, Gan - XU, Jie - YONG, Qiang. A sustainable process for procuring biologically active fractions of high-purity xylooligosaccharides and water-soluble lignin from Moso bamboo prehydrolyzate. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
9. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVENT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Synthesis and characterization of functionalized 4-O-methylglucuronoxylan derivatives. In HOLZFORSCHUNG. ISSN 0018-3830, 2015, vol. 69, no. 6, pp. 713-720., Registrované v: WOS
10. [1.1] CHEN, Ming-Hsu - BOWMAN, Michael J. - COTTA, Michael A. - DIEN, Bruce S. - ITEN, Loren B. - WHITEHEAD, Terence R. - RAUSCH, Kent D. - TUMBLESON, M. E. - SINGH, Vijay. Miscanthus x giganteus xylooligosaccharides: Purification and fermentation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 96-103., Registrované v: WOS
11. [1.1] CHEN, Ming-Hsu - RAJAN, Kalavathy - CARRIER, Danielle Julie - SINGH, Vijay. Separation of xylose oligomers from autohydrolyzed *Miscanthus x giganteus* using centrifugal partition chromatography. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 95, no., pp. 125-132., Registrované v: WOS
12. [1.1] CHEN, Ming-Hsu - SWANSON, Kelly S. - FAHEY, George C. - DIEN, Bruce S. - BELOSHAPKA, Alison N. - BAUER, Laura L. - RAUSCH, Kent D. - TUMBLESON, M. E. - SINGH, Vijay. In Vitro Fermentation of Xylooligosaccharides Produced from *Miscanthus x giganteus* by Human Fecal Microbiota. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 1, pp. 262-267., Registrované v: WOS
13. [1.1] JIANG, Sui-Xin - ZHAO, Shuai - LU, Chun-Yan - XUE, Jian-Long - DUAN, Cheng-Jie - FENG, Jia-Xun. A combined process is used for efficient isolation and purification of xylobiose from xylanase-hydrolysed sugarcane bagasse xylan hydrolysate. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 637-643., Registrované v: WOS

14. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS
15. [1.1] RAHIM, Abdul - KADIR, Syahraeni - HUTOMO, Gatot Siswo - ALAM, Nur - ROSTIATI - WAHYUDI, Imam - MAEMUNAH - LAUDE, Syamsuddin - BHRUDIN - HAMID, Abdul - SANGADJI, Muhammad Nur - MADE, Usman - ADRIANTON - MONDE, Anthon. FUNCTIONAL AND PREBIOTIC PROPERTIES OF ACETYLATED ARENGA STARCHES WITH DIFFERENT DEGREE OF SUBSTITUTION. In CARPATHIAN JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 2066-6845, 2018, vol. 10, no. 2, pp. 25-36., Registrované v: WOS
16. [1.1] VITHANAGE, Lakmali Nilmini G. - BARBOSA, Aneli M. - KANKANAMGE, Gamini R. Nadu - RAKSHIT, Sudip K. - DEKKER, Robert F. H. Valorization of Hemicelluloses: Production of Bioxylitol from Poplar Wood Prehydrolyzates by *Candida guilliermondii* FTI 20037. In BIOENERGY RESEARCH. ISSN 1939-1234, 2016, vol. 9, no. 1, pp. 181-197., Registrované v: WOS
17. [1.1] WANG, Fengqin - DONG, Hongli - HASSANPOUR, Morteza - ZHANG, Ke - XIE, Hui - ZHANG, Hongsen - SONG, Andong - ZHANG, Zhanying. Glycerol-assisted one-step instant catapult steam explosion enhances enzymatic digestibility of corn stover. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 157, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112907>., Registrované v: WOS
18. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
19. [1.1] XIAO, Xiao - WEN, Jing-Yun - WANG, Yuan-Yuan - BIAN, Jing - LI, Ming-Fei - PENG, Feng - SUN, Run-Cang. NMR and ESI-MS spectrometry characterization of autohydrolysis xylo-oligosaccharides separated by gel permeation chromatography. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 303-310., Registrované v: WOS
20. [1.2] KYU, May Thin - DAR, Bay - AYE, San San - MATSUDA, Tsukasa. Prebiotic oligosaccharides prepared by enzymatic degradation of dietary fibers in rice grains. In Journal of Nutritional Science and Vitaminology. ISSN 03014800, 2019-01-01, 65, pp. S143-S147., Registrované v: SCOPUS
21. [1.2] SANTAMARÍA, Manuel Chicharro - BARAMBIO, Mónica Moreno - ARRIBAS, Alberto Sánchez. HPLC Techniques with Electrochemical Detection. In Agricultural and Food Electroanalysis, 2015-07-17, pp. 73-116., Registrované v: SCOPUS
22. [1.2] XU, Chunxun - YU, Qiang - ZHUANG, Xinshu - XU, Huijuan - QI, Wei - TAN, Xuesong - YUAN, Zhenhong. Production and purification of xylo-oligosaccharide by sugarcane bagasse hot liquid water hydrolysate. In Taiyangneng Xuebao/Acta Energetica Solaris Sinica. ISSN 02540096, 2015-01-01, 36, 10, pp. 2548-2552., Registrované v: SCOPUS

ADCA410 GUO, Boyang - SATO, Nobuaki - BIELY, Peter - AMANO, Yoshihiko - NOZAKI, Kouichi. Comparison of catalytic properties of multiple beta-glucosidases

of *Trichoderma reesei*. In *Applied Microbiology and Biotechnology*, 2016, vol. 100, p. 4959-4968. (2015: 3.376 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-016-7342-x>

Ohlasy:

1. [1.1] CASA-VILLEGAS, Mary - MARIN-NAVARRO, Julia - POLAINA, Julio. Synergies in coupled hydrolysis and fermentation of cellulose using a *Trichoderma reesei* enzyme preparation and a recombinant *Saccharomyces cerevisiae* strain. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 7, pp., Registrované v: WOS
2. [1.1] DRUZHININA, Irina S. - KUBICEK, Christian P. Genetic engineering of *Trichoderma reesei* cellulases and their production. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7915, 2017, vol. 10, no. 6, pp. 1485-1499., Registrované v: WOS
3. [1.1] GERONIMO, Inacrist - PAYNE, Christina M. - SANDGREN, Mats. Hydrolysis and Transglycosylation Transition States of Glycoside Hydrolase Family 3 beta-Glucosidases Differ in Charge and Puckering Conformation. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 41, pp. 9452-9459., Registrované v: WOS
4. [1.1] GERONIMO, Inacrist - PAYNE, Christina M. - SANDGREN, Mats. The role of catalytic residue pK(a) on the hydrolysis/transglycosylation partition in family 3 beta-glucosidases. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 2, pp. 316-324., Registrované v: WOS
5. [1.1] GERONIMO, Inacrist - NTARIMA, Patricia - PIENS, Kathleen - GUDMUNDSSON, Mikael - HANSSON, Henrik - SANDGREN, Mats - PAYNE, Christina M. Kinetic and molecular dynamics study of inhibition and transglycosylation in *Hypocrea jecorina* family 3-glucosidases. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 9, pp. 3169-3180., Registrované v: WOS
6. [1.1] HAVUKAINEN, Sami - VALKONEN, Mari - KOIVURANTA, Kari - LANDOWSKI, Christopher P. Studies on sugar transporter CRT1 reveal new characteristics that are critical for cellulase induction in *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01797-7>., Registrované v: WOS
7. [1.1] JOHNSON, Joy M. - THUERICH, Johannes - PETUTSCHNIG, Elena K. - ALTSCHMIED, Lothar - MEICHNER, Doreen - SHERAMETI, Irena - DINDAS, Julian - MROZINSKA, Anna - PAETZ, Christian - SCHOLZ, Sandra S. - FURCH, Alexandra C. U. - LIPKA, Volker - HEDRICH, Rainer - SCHNEIDER, Bernd - SVATOS, Ales - OELMUELLER, Ralf. A Poly(A) Ribonuclease Controls the Cellotriose-Based Interaction between *Piriformospora indica* and Its Host *Arabidopsis*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2496-2514., Registrované v: WOS
8. [1.1] LENZ, Florian - ZUREK, Paul - UMLAUF, Martina - TOZAKIDIS, Iasson E. P. - JOSE, Joachim. Tailor-made beta-glucosidase with increased activity at lower temperature without loss of stability and glucose tolerance. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 7, pp. 2234-2243. Dostupné na: <https://doi.org/10.1039/c9gc04166d>., Registrované v: WOS

9. [1.1] LIU, Pei - ZHANG, Guoxiu - CHEN, Yumeng - ZHAO, Jian - WANG, Wei - WEI, Dongzhi. Enhanced cellulase production by decreasing intercellular pH through H⁺-ATPase gene deletion in *Trichoderma reesei* RUT-C30. In *BIOTECHNOLOGY FOR BIOFUELS*, 2019, vol. 12, no. 1, pp., Registrované v: WOS
10. [1.1] LI, Chengcheng - LIN, Fengming - LI, Yizhen - WEI, Wei - WANG, Hongyin - QIN, Lei - ZHOU, Zhihua - LI, Bingzhi - WU, Fugen - CHEN, Zhan. A beta-glucosidase hyper-production *Trichoderma reesei* mutant reveals a potential role of cel3D in cellulase production. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
11. [1.1] LI, Chengcheng - LIN, Fengming - ZHOU, Le - QIN, Lei - LI, Bingzhi - ZHOU, Zhihua - JIN, Mingjie - CHEN, Zhan. Cellulase hyper-production by *Trichoderma reesei* mutant SEU-7 on lactose. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
12. [1.1] LI, Zhonghai - LIU, Guodong - QU, Yinbo. Improvement of cellulolytic enzyme production and performance by rational designing expression regulatory network and enzyme system composition. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 245, no., pp. 1718-1726., Registrované v: WOS
13. [1.1] MENDEZ-LITER, J. A. - GIL-MUNOZ, J. - NIETO-DOMINGUEZ, M. - BARRIUSO, J. - DE EUGENIO, L. I. - MARTINEZ, M. J. A novel, highly efficient beta-glucosidase with a cellulose-binding domain: characterization and properties of native and recombinant proteins. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
14. [1.1] OELMUELLER, Ralf. Sensing environmental and developmental signals via cellooligomers. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 229, no., pp. 1-6., Registrované v: WOS
15. [1.1] OGURO, Yoshifumi - NAKAMURA, Ayana - KURAHASHI, Atsushi. Effect of temperature on saccharification and oligosaccharide production efficiency in koji amazake. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2019, vol. 127, no. 5, pp. 570-574., Registrované v: WOS
16. [1.1] QIN, Lina - JIANG, Xianzhang - DONG, Zhiyang - HUANG, Jianzhong - CHEN, Xiuzhen. Identification of two integration sites in favor of transgene expression in *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
17. [1.1] SANDHU, Simranjeet Kaur - MATHUR, Anshu - GUPTA, Ravi - PURI, Suresh K. - ADSUL, Mukund. Cellulosic Biomass-Hydrolyzing Enzymes. In *WASTE TO WEALTH*. ISSN 2522-8366, 2018, vol., no., pp. 441-456., Registrované v: WOS
18. [1.1] SHARMA, Vivek - SALWAN, Richa. Extracellular Carbohydrate-Active Enzymes of *Trichoderma* and Their Role in the Bioconversion of Non-edible Biomass to Biofuel. In *RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 2: PERSPECTIVE FOR VALUE-ADDED PRODUCTS AND ENVIRONMENTS*. ISSN 2198-7777, 2019, vol., no., pp. 363-384., Registrované v: WOS

19. [1.1] SOBRI, Mohamad Farhan Mohamad - ABD-AZIZ, Suraini - ABU BAKAR, Farah Diba - RAMLI, Norhayati. In-Silico Characterization of Glycosyl Hydrolase Family 1 beta-Glucosidase from *Trichoderma asperellum* UPM1. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21114035>., Registrované v: WOS
20. [1.1] WANG, Hao - LIN, Xiangna - LI, Shuang - LIN, Jianlin - XIE, Chunfang - LIU, Daling - YAO, Dongsheng. Rational molecular design for improving digestive enzyme resistance of beta-glucosidase from *Trichoderma viride* based on inhibition of bound state formation. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzymictec.2019.109465>., Registrované v: WOS
21. [1.1] WANG, Xu - WU, Yanbo - ZHOU, Yu. Transglycosylation, a new role for multifunctional cellulase in overcoming product inhibition during the cellulose hydrolysis. In BIOENGINEERED. ISSN 2165-5979, 2017, vol. 8, no. 2, pp. 129-132., Registrované v: WOS
22. [1.1] WOJTUSIK, Mateusz - VERGARA, Priscilla - VILLAR, Juan C. - GARCIA-OCHOA, Felix - LADERO, Miguel. Thermal and operational deactivation of *Aspergillus fumigatus* beta-glucosidase in ethanol/water pretreated wheat straw enzymatic hydrolysis. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 292, no., pp. 32-38., Registrované v: WOS
23. [1.1] XU, Xin-Qi - HAN, Wei - WU, Xiao-Bing - XIE, Yong - LIN, Juan - CHEN, Qing-Xi. Inactivation kinetics and conformation change of *Hypocrea orientalis* beta-glucosidase with guanidine hydrochloride. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2017, vol. 124, no. 2, pp. 143-149., Registrované v: WOS
24. [1.1] ZHANG, Fei - BUNTERNGSOOK, Benjarat - LI, Jia-Xiang - ZHAO, Xin-Qing - CHAMPREDA, Verawat - LIU, Chen-Guang - BAI, Feng-Wu. Regulation and production of lignocellulolytic enzymes from *Trichoderma reesei* for biofuels production. In ADVANCES IN BIOENERGY, VOL 4. ISSN 2468-0125, 2019, vol. 4, no., pp. 79-119., Registrované v: WOS
25. [1.1] ZHAO, Jun - SHI, Dingchen - YANG, Sen - LIN, Hui - CHEN, Hongge. Identification of an intracellular beta-glucosidase in *Aspergillus niger* with transglycosylation activity. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 19, pp. 8367-8380. Dostupné na: <https://doi.org/10.1007/s00253-020-10840-4>., Registrované v: WOS
26. [1.1] ZOU, Gen - JIANG, Yanping - LIU, Rui - ZHU, Zhihua - ZHOU, Zhihua. The putative beta-glucosidase BGL3I regulates cellulase induction in *Trichoderma reesei*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

ADCA411 GURKOK, S. - SOYLER, B. - BIELY, Peter - OGEL, Z.B. Cloning and heterologous expression of the extracellular alpha-galactosidase from *Aspergillus fumigatus* in *Aspergillus sojae* under the control of *gpdA* promoter. In *Journal of Molecular Catalysis B: Enzymatic*, 2010, vol. 64, p.146-149. Dostupné na: <https://doi.org/10.1016/j.molcatb.2009.09.012>

Ohlasy:

1. [1.1] ASCI, FerruhS - AYDIN, Busra - AKKUS, Gulderen Uysal - UNAL, Arzu - ERDOGMUS, Sevim Feyza - KORCAN, Safiye Elif - JAHAN, Israt. Fatty acid methyl ester analysis of *Aspergillus fumigatus* isolated from fruit pulps for biodiesel production using GC-MS spectrometry. In BIOENGINEERED. ISSN 2165-5979, 2020, vol. 11, no. 1, pp. 408-415. Dostupné na: <https://doi.org/10.1080/21655979.2020.1739379>., Registrované v: WOS
2. [1.1] BHATIA, Sonu - SINGH, Abhinashi - BATRA, Navneet - SINGH, Jagtar. Microbial production and biotechnological applications of alpha-galactosidase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1294-1313. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.140>., Registrované v: WOS
3. [1.1] BONNIN, Estelle - LESSIRE, Michel - WACRENIER, Nathaele - ALLEMAN, Fabien. Mannose-based polymers in livestock production : the glucomannan-degrading enzymes in swine and poultry feeds. In INRA PRODUCTIONS ANIMALES. ISSN 2273-774X, 2020, vol. 33, no. 4, pp. 295-305. Dostupné na: <https://doi.org/10.20870/productions-animales.2020.33.4.4634>., Registrované v: WOS
4. [1.1] MARUTA, Akiho - YAMANE, Mirei - MATSUBARA, Midori - SUZUKI, Shiho - NAKAZAWA, Masami - UEDA, Mitsuhiro - SAKAMOTO, Tatsuji. A novel alpha-galactosidase from *Fusarium oxysporum* and its application in determining the structure of the gum arabic side chain. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 103, no., pp. 25-33., Registrované v: WOS
5. [1.1] ZHOU, Junpei - LIU, Yu - LU, Qian - ZHANG, Rui - WU, Qian - LI, Chunyan - LI, Junjun - TANG, Xianghua - XU, Bo - DING, Junmei - HAN, Nanyu - HUANG, Zunxi. Characterization of a Glycoside Hydrolase Family 27 alpha-Galactosidase from *Pontibacter* Reveals Its Novel Salt-Protease Tolerance and Transglycosylation Activity. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 11, pp. 2315-2324., Registrované v: WOS
6. [1.2] JIN, Hyun Kyung - YOON, Ki Hong. Production and characterization of α -galactosidases from two *Bacillus licheniformis* isolates. In Korean Journal of Microbiology and Biotechnology. ISSN 1598642X, 2015-01-01, 43, 3, pp. 195-203., Registrované v: SCOPUS
7. [1.2] LI, Yuanfeng - JIN, Shen - WANG, Denggang - LIANG, Shuli - ZHENG, Suiping - LIN, Ying. Constitutive display of *Candida antarctica* lipase B on the cell surface of *Aspergillus niger* and regulation of its fermentation. In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology. ISSN 10003061, 2018-07-25, 34, 7, pp. 1189-1196., Registrované v: SCOPUS

ADCA412 HAGEN, I. - ECKER, M. - LAGORCE, A. - FRANCOIS, J.M. - ŠESTÁK, Sergej - RACHEL, R. - GROSSMANN, G. - HAUSER, N.C. - HOHEISEL, J.D. - TANNER, W. - STRAHL, S. Sed1p and Srl1p are required to compensate for cell wall instability in *Saccharomyces cerevisiae* mutants defective in multiple GPI-anchored mannoproteins. In *Molecular Microbiology*, 2004, vol. 52, p.

1413-1425. ISSN 0950-382X. Dostupné na:
<https://doi.org/10.1111/j.1365-2958.2004.04064.x>

Ohlasy:

1. [1.1] BOROVÍKOVÁ, Diana - TEPARIC, Renata - MRSA, Vladimír - RAPOPORT, Alexander. Anhydrobiosis in yeast: cell wall mannoproteins are important for yeast *Saccharomyces cerevisiae* resistance to dehydration. In YEAST. ISSN 0749-503X, 2016, vol. 33, no. 8, pp. 347-353., Registrované v: WOS
2. [1.1] FORMOSA, C. - LACHAIZE, V. - GALES, C. - ROLS, M. P. - MARTIN-YKEN, H. - FRANCOIS, J. M. - DUVAL, R. E. - DAGUE, E. Mapping HA-tagged protein at the surface of living cells by atomic force microscopy. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2015, vol. 28, no. 1, pp. 1-9., Registrované v: WOS
3. [1.1] KO, Hyunjun - BAE, Jung-Hoon - SUNG, Bong Hyun - KIM, Mi-Jin - PARK, Soon-Ho - SOHN, Jung-Hoon. Direct Production of Difructose Anhydride IV from Sucrose by Co-fermentation of Recombinant Yeasts. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
4. [1.1] KUHNERT, Eric - LI, Yan - LAN, Nan - YUE, Qun - CHEN, Li - COX, Russell J. - AN, Zhiqiang - YOKOYAMA, Kenichi - BILLS, Gerald F. Enfumafungin synthase represents a novel lineage of fungal triterpene cyclases. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2018, vol. 20, no. 9, pp. 3325-3342., Registrované v: WOS
5. [1.1] NGUELA, Julie Mekoue - VERNHET, Aude - SIECZKOWSKI, Nathalie - BRILLOUET, Jean-Marc. Interactions of Condensed Tannins with *Saccharomyces cerevisiae* Yeast Cells and Cell Walls: Tannin Location by Microscopy. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 34, pp. 7539-7545., Registrované v: WOS
6. [1.1] RAPOPORT, Alexander - GOLOVINA, Elena A. - GERVAIS, Patrick - DUPONT, Sebastien - BENEY, Laurent. Anhydrobiosis: Inside yeast cells. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2019, vol. 37, no. 1, pp. 51-67., Registrované v: WOS
7. [1.1] STEWART, Graham G. The Structure and Function of the Yeast Cell Wall, Plasma Membrane and Periplasm. In BREWING AND DISTILLING YEASTS, 2017, vol., no., pp. 55-75., Registrované v: WOS
8. [1.1] VIEIRA REUWSAAT, Julia Catarina - MOTTA, Heryk - ACOSTA GARCIA, Ane Wichine - VASCONCELOS, Carolina Bettker - MARQUES, Barbara Machado - OLIVEIRA, Natalia Kronbauer - RODRIGUES, Jessica - GROHNS FERRAREZE, Patricia Aline - FRASES, Susana - LOPES, William - BARCELLOS, Vanessa Abreu - SQUIZANI, Eamim Daidre - HORTA, Jorge Andre - SCHRANK, Augusto - RODRIGUES, Marcio Lourenco - STAATS, Charley Christian - VAINSTEIN, Marilene Henning - KMETZSCH, Livia. A Predicted Mannoprotein Participates in *Cryptococcus gattii* Capsular Structure. In MSPHERE. ISSN 2379-5042, 2018, vol. 3, no. 2, pp., Registrované v: WOS
9. [3.2] Group Author(s). Uniprot Consortium. Q01589. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q01589>, Registrované v: Data Citation Index
10. [3.2] Group Author(s). Uniprot Consortium. Q12127. IN UniProt

Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q12127>, Registrované v: Data Citation Index
11. [3.2] Group Author(s). Uniprot Consortium. Q08673. IN UniProt
Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q08673>, Registrované v: Data Citation Index
12. [3.2] Group Author(s). Uniprot Consortium. Q08673. IN: UniProt
Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q08673>, Registrované v: Data Citation Index

ADCA413 HALADOVÁ, M. - EISENREICHOVÁ, E. - BUČKOVÁ, A. - TOMKO, J. - UHRÍN, Dušan. New nitrogen containing compounds in *Lilium candidum* L. In *Collection of Czechoslovak Chemical Communications*, 1988, vol. 53, p. 157-160. (1988 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] DANESHVAR ROYANDAZAGH, Shedia - PEHLIVAN, Elif Ceren. In vitro Micropropagation of *Lilium candidum* L. and Alkaloids. In *JOURNAL OF TEKIRDAG AGRICULTURE FACULTY-TEKIRDAG ZIRAAT FAKULTESI DERGISI*. ISSN 1302-7050, 2016, vol. 13, no. 3, pp. 100-110., Registrované v: WOS
2. [1.1] ILKEI, Viktor - HAZAI, Laszlo - ANTUS, Sandor - BOLCSKEI, Hedvig. Flavonoid Alkaloids: Isolation, Bioactivity, and Synthesis. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL 56, 2018, vol., no., pp. 247-285., Registrované v: WOS

ADCA414 HALAJ, Michal - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANTOVÁ, Soňa - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Biopolymer of dictyosphaerium chlorelloides - chemical characterization and biological effects. In *International Journal of Biological Macromolecules*, 2018, vol. 113, p. 1248-1257. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.03.052>

Ohlasy:

1. [1.1] CHEN, Shan - LI, Jiayuan - FENG, Wenbo - YUAN, Mingzhe - ZHANG, Wei - XU, Houtao - ZHENG, Xiaoyan - WANG, Liqing. Biochemical responses of the freshwater microalga *Dictyosphaerium* sp. upon exposure to three sulfonamides. In *JOURNAL OF ENVIRONMENTAL SCIENCES*. ISSN 1001-0742, 2020, vol. 97, no., pp. 141-148. Dostupné na: <https://doi.org/10.1016/j.jes.2020.05.018>., Registrované v: WOS
2. [1.1] NAVEED, Sadiq - LI, Chonghua - LU, Xinda - CHEN, Shuangshuang - YIN, Bin - ZHANG, Chunhua - GE, Ying. Microalgal extracellular polymeric substances and their interactions with metal(loid)s: A review. In *CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. ISSN 1064-3389, 2019, vol. 49, no. 19, pp. 1769-1802., Registrované v: WOS

ADCA415 HALAJ, Michal - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANTOVÁ, Soňa - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Extracellular biopolymers produced by *Dictyosphaerium* family - Chemical and immunomodulative properties. In *International Journal of Biological Macromolecules*, 2019, vol. 121, p. 1254-1263. (2018: 4.784 - IF, Q1 - JCR, 0.962 -

SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.10.116>

Ohlasy:

1. [1.1] NAZOS, Theocharis T. - KOKARAKIS, Emmanuel J. - VALSAMI, Eleftheria-Angeliki - STRATIGAKIS, Napoleon-Christoforos - POLONIATAKI, Eleni G. - SFENDOURAKIS, Georgios P. - GHANOTAKIS, Demetrios F. Characterization of a novel herbicide and antibiotic-resistant *Chlorella* sp. with an extensive extracellular matrix. In *PHOTOSYNTHESIS RESEARCH*. ISSN 0166-8595, 2020, vol. 143, no. 3, pp. 315-334. Dostupné na: <https://doi.org/10.1007/s11120-020-00710-5>, Registrované v: WOS

ADCA416 HALAJ, Michal - MATULOVÁ, Mária - ŠUTOVSKÁ, Martina** - BARBORÍKOVÁ, Jana - KAZIMIEROVÁ, Ivana - FRAŇOVÁ, Soňa - PŘIBYL, Pavel - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Chemico-physical and pharmacodynamic properties of extracellular Dictyosphaerium chlorelloides biopolymer. In *Carbohydrate Polymers*, 2018, vol. 198, p. 215-224. (2017: 5.158 - IF, Q1 - JCR, 1.428 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.06.018>

Ohlasy:

1. [1.1] LU, Xiaoxing - XIE, Shaoxia - WANG, Lihong - XIE, Hujun - LEI, Qunfang - FANG, Wenjun. Electrostatic-driven structural transformation in the complexation of lysozyme and kappa-carrageenan. In *CHEMICAL PHYSICS*. ISSN 0301-0104, 2020, vol. 538, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemphys.2020.110910>, Registrované v: WOS
2. [1.1] LU, Zhizhuo - WANG, Lihong - XIE, Hujun - LEI, Qunfang - FANG, Wenjun - LU, Xiaoxing. Structural transitions of ovalbumin/kappa-carrageenan complexes under the effects of pH and composition. In *CHEMICAL PHYSICS*. ISSN 0301-0104, 2020, vol. 533, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemphys.2020.110733>, Registrované v: WOS

ADCA417 HANES, Jozef - VON DER KAMMER H - KLAUDINY, Jaroslav - SCHEIT K.H. Characterization by cDNA cloning of two new human protein kinases. Evidence by sequence comparison of a new family of mammalian protein kinases. In *Journal of Molecular Biology*, 1994, vol.244, p.665-672. ISSN 0022-2836.

Ohlasy:

1. [1.1] ARTARINI, Anita - MEYER, Michael - SHIN, Yu Jin - HUBER, Kilian - HILZ, Nikolaus - BRACHER, Franz - EROS, Daniel - ORFI, Laszlo - KERI, Gyorgy - GOEDERT, Sigrid - NEUENSCHWANDER, Martin - VON KRIES, Jens - DOMOVICH-EISENBERG, Yael - DEKEL, Noa - SZABADKAI, Istvan - LEBENDIKER, Mario - HORVATH, Zoltan - DANIELIE, Tsafi - LIVNAHE, Oded - MONCORGE, Olivier - FRISE, Rebecca - BARCLAY, Wendy - MEYER, Thomas F. - KARLAS, Alexander. Regulation of influenza A virus mRNA splicing by CLK1. In *ANTIVIRAL RESEARCH*. ISSN 0166-3542, 2019, vol. 168, no., pp. 187-196., Registrované v: WOS
2. [1.1] BATES, David O. - MORRIS, Jonathan C. - OLTEAN, Sebastian - DONALDSON, Lucy F. Pharmacology of Modulators of Alternative Splicing. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2017, vol. 69, no. 1, pp. 63-79., Registrované v: WOS

3. [1.1] FAN, J. J. - TANG, X. H. - BAI, J. J. - MA, Dong-Mei - JIANG, P. Pyruvate kinase genes in grass carp *Ctenopharyngodon idella*: molecular characterization, expression patterns, and effects of dietary carbohydrate levels. In *FISH PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0920-1742, 2019, vol. 45, no. 6, pp. 1919-1931., Registrované v: WOS
4. [1.1] HATTING, Maximilian - RINES, Amy K. - LUO, Chi - TABATA, Mitsuhsa - SHARABI, Kfir - HALL, Jessica A. - VERDEGUER, Francisco - TRAUTWEIN, Christian - PUIGSERVER, Pere. Adipose Tissue CLK2 Promotes Energy Expenditure during High-Fat Diet Intermittent Fasting. In *CELL METABOLISM*. ISSN 1550-4131, 2017, vol. 25, no. 2, pp. 428-437., Registrované v: WOS
5. [1.1] LIM, Joo-Yeon - PARK, Hee-Moon. The Dual-Specificity LAMMER Kinase Affects Stress-Response and Morphological Plasticity in Fungi. In *FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY*. ISSN 2235-2988, 2019, vol. 9, no., pp., Registrované v: WOS
6. [1.1] MURAR, Miroslav - DOBIAS, Juraj - SRAMEL, Peter - ADDOVA, Gabriela - HANQUET, Gilles - BOHAC, Andrej. Novel CLK1 inhibitors based on N-aryloxazol-2-amine skeleton A possible way to dual VEGFR2 TK/CLK ligands. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2017, vol. 126, no., pp. 754-761., Registrované v: WOS
7. [1.1] PARK, Soon Young - PIAO, Yuji - THOMAS, Craig - FULLER, Gregory N. - DE GROOT, John F. Cdc2-like kinase 2 is a key regulator of the cell cycle via FOXO3a/p27 in glioblastoma. In *ONCOTARGET*, 2016, vol. 7, no. 18, pp. 26793-26805., Registrované v: WOS
8. [1.1] RUIZ-VELASCO, Mariana - KUMAR, Manjeet - LAI, Mang Ching - BHAT, Pooja - SOLIS-PINSON, Ana Belen - REYES, Alejandro - KLEINSORG, Stefan - NOH, Kyung-Min - GIBSON, Toby J. - ZAUGG, Judith B. CTCF-Mediated Chromatin Loops between Promoter and Gene Body Regulate Alternative Splicing across Individuals. In *CELL SYSTEMS*. ISSN 2405-4712, 2017, vol. 5, no. 6, pp. 628-+, Registrované v: WOS
9. [1.1] VIRGINIA, Regina Putri - JAHAN, Nusrat - OKADA, Maya - TAKEBAYASHI-SUZUKI, Kimiko - YOSHIDA, Hitoshi - NAKAMURA, Makoto - AKAO, Hajime - YOSHIMOTO, Yuta - FATCHIYAH, Fatchiyah - UENO, Naoto - SUZUKI, Atsushi. Cdc2-like kinase 2 (Clk2) promotes early neural development in *Xenopus* embryos. In *DEVELOPMENT GROWTH & DIFFERENTIATION*. ISSN 0012-1592, 2019, vol. 61, no. 6, pp. 365-377., Registrované v: WOS

ADCA418 HANES, Jozef - KLAUDINY, Jaroslav - VON DER KAMMER H - SCHEIT K.H. Characterization by cDNA cloning of the mRNA of human ribosomal protein L8. In *Biochemical and biophysical research communications*, 1993, vol. 197, p.1223-1228. ISSN 0006-291X. Dostupné na: <https://doi.org/10.1006/bbrc.1993.2607>

Ohlasy:

1. [1.1] YANG, Zongde - CHEN, Xin - ZHANG, Qiulin - CAI, Bin - CHEN, Kai - CHEN, Ziqiang - BAI, Yushu - SHI, Zhicai - LI, Ming. Dysregulated COL3A1 and RPL8, RPS16, and RPS23 in Disc Degeneration Revealed by Bioinformatics Methods. In *SPINE*. ISSN 0362-2436, 2015, vol. 40, no. 13, pp. E745-E751., Registrované v: WOS

2. [3.2] Group Author(s). Uniprot Consortium. P62917. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P62917>, Registrované v: Data Citation Index
3. [3.2] Group Author(s). Uniprot Consortium. P62917. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/P62917>, Registrované v: Data Citation Index

ADCA419 HANES, J. - VON DER KAMMER, H. - KLAUDINY, Jaroslav - SCHEIT, K.H. Characterization by CDNA cloning of 2 new human protein kinases - evidence by sequence comparison of a new family of mamalian protein kinases. In *Journal of Molecular Biology*, 1994, vol.244, p. 665-672. ISSN 0022-2836.

Ohlasy:

1. [1.1] ARTARINI, Anita - MEYER, Michael - SHIN, Yu Jin - HUBER, Kilian - HILZ, Nikolaus - BRACHER, Franz - EROS, Daniel - ORFI, Laszlo - KERI, Gyorgy - GOEDERT, Sigrid - NEUENSCHWANDER, Martin - VON KRIES, Jens - DOMOVICH-EISENBERG, Yael - DEKEL, Noa - SZABADKAI, Istvan - LEBENDIKER, Mario - HORVATH, Zoltan - DANIELIE, Tsafi - LIVNAHE, Oded - MONCORGE, Olivier - FRISE, Rebecca - BARCLAY, Wendy - MEYER, Thomas F. - KARLAS, Alexander. Regulation of influenza A virus mRNA splicing by CLK1. In *ANTIVIRAL RESEARCH*. ISSN 0166-3542, 2019, vol. 168, no., pp. 187-196., Registrované v: WOS
2. [1.1] BATES, David O. - MORRIS, Jonathan C. - OLTEAN, Sebastian - DONALDSON, Lucy F. Pharmacology of Modulators of Alternative Splicing. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2017, vol. 69, no. 1, pp. 63-79., Registrované v: WOS
3. [1.1] DEKEL, Noa - EISENBERG-DOMOVICH, Yael - KARLAS, Alexander - MEYER, Thomas F. - BRACHER, Franz - LEBENDIKER, Mario - DANIELI, Tsafi - LIVNAH, Oded. Expression, purification and crystallization of CLK1 kinase A potential target for antiviral therapy. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2020, vol. 176, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105742>., Registrované v: WOS
4. [1.1] FAN, J. J. - TANG, X. H. - BAI, J. J. - MA, Dong-Mei - JIANG, P. Pyruvate kinase genes in grass carp *Ctenopharyngodon idella*: molecular characterization, expression patterns, and effects of dietary carbohydrate levels. In *FISH PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0920-1742, 2019, vol. 45, no. 6, pp. 1919-1931., Registrované v: WOS
5. [1.1] HATTING, Maximilian - RINES, Amy K. - LUO, Chi - TABATA, Mitsuhsa - SHARABI, Kfir - HALL, Jessica A. - VERDEGUER, Francisco - TRAUTWEIN, Christian - PUIGSERVER, Pere. Adipose Tissue CLK2 Promotes Energy Expenditure during High-Fat Diet Intermittent Fasting. In *CELL METABOLISM*. ISSN 1550-4131, 2017, vol. 25, no. 2, pp. 428-437., Registrované v: WOS
6. [1.1] LIM, Joo-Yeon - PARK, Hee-Moon. The Dual-Specificity LAMMER Kinase Affects Stress-Response and Morphological Plasticity in Fungi. In *FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY*. ISSN 2235-2988, 2019, vol. 9, no., pp., Registrované v: WOS
7. [1.1] MARTIN MOYANO, Paula - NEMEC, Vaclav - PARUCH, Kamil. Cdc-Like Kinases (CLKs): Biology, Chemical Probes, and Therapeutic Potential. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207549>.,

Registrované v: WOS

8. [1.1] MURAR, Miroslav - DOBIAS, Juraj - SRAMEL, Peter - ADDOVA, Gabriela - HANQUET, Gilles - BOHAC, Andrej. Novel CLK1 inhibitors based on N-aryloxazol-2-amine skeleton A possible way to dual VEGFR2 TK/CLK ligands. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 126, no., pp. 754-761., Registrované v: WOS

9. [1.1] PARK, Soon Young - PIAO, Yuji - THOMAS, Craig - FULLER, Gregory N. - DE GROOT, John F. Cdc2-like kinase 2 is a key regulator of the cell cycle via FOXO3a/p27 in glioblastoma. In ONCOTARGET. ISSN 1949-2553, 2016, vol. 7, no. 18, pp. 26793-26805., Registrované v: WOS

10. [1.1] RUIZ-VELASCO, Mariana - KUMAR, Manjeet - LAI, Mang Ching - BHAT, Pooja - SOLIS-PINSON, Ana Belen - REYES, Alejandro - KLEINSORG, Stefan - NOH, Kyung-Min - GIBSON, Toby J. - ZAUGG, Judith B. CTCF-Mediated Chromatin Loops between Promoter and Gene Body Regulate Alternative Splicing across Individuals. In CELL SYSTEMS. ISSN 2405-4712, 2017, vol. 5, no. 6, pp. 628-+, Registrované v: WOS

11. [1.1] VIRGINIA, Regina Putri - JAHAN, Nusrat - OKADA, Maya - TAKEBAYASHI-SUZUKI, Kimiko - YOSHIDA, Hitoshi - NAKAMURA, Makoto - AKAO, Hajime - YOSHIMOTO, Yuta - FATCHIYAH, Fatchiyah - UENO, Naoto - SUZUKI, Atsushi. Cdc2-like kinase 2 (Cdk2) promotes early neural development in Xenopus embryos. In DEVELOPMENT GROWTH & DIFFERENTIATION. ISSN 0012-1592, 2019, vol. 61, no. 6, pp. 365-377., Registrované v: WOS

12. [3.2] Author(s). Uniprot Consortium. P22518. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P22518>, Registrované v: Data Citation Index

13. [3.2] Group Author(s). Uniprot Consortium. P49760. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P49760>, Registrované v: Data Citation Index

14. [3.2] Group Author(s). Uniprot Consortium. P49759. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P49759>, Registrované v: Data Citation Index

15. [3.2] Group Author(s). Uniprot Consortium. P49761. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P49761>, Registrované v: Data Citation Index

ADCA420 HANES, J. - ŠIMÚTH, Jozef. Identification and partial characterization of the major royal jelly protein of the honey bee (*Apis mellifera*). In *Journal of Apicultural Research*, 1992, vol. 31, p. 22-26. ISSN 0021-8839. Dostupné na: <https://doi.org/10.1080/00218839.1992.11101256>

Ohlasy:

1. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikuji - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS

2. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana

- Paula - PARPINELLI, Rejane Stubbs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 63-75., Registrované v: WOS
3. [1.1] DOBRITZSCH, Dirk - AUMER, Denise - FUSZARD, Matthew - ERLER, Silvio - BUTTSTEDT, Anja. The rise and fall of major royal jelly proteins during a honeybee (*Apis mellifera*) workers' life. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2019, vol. 9, no. 15, pp. 8771-8782., Registrované v: WOS
4. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
5. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele - CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In ONCOLOGY REPORTS. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrované v: WOS
6. [1.1] GUO YU - SU SONG-KUN - CHEN SHENG-LU - ZHANG SHAO-WU - CHEN RUN-SHENG. The Function of lncRNAs in The Caste Determination of The Honeybee. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2015, vol. 42, no. 8, p. 750-757., Registrované v: WOS
7. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three *Apis* species with long amplicon sequencing. In DNA RESEARCH. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287., Registrované v: WOS
8. [1.1] HU, Fu-Liang - BILIKOVA, Katarina - CASABIANCA, Herve - DANIELE, Gaelle - ESPINDOLA, Foued Salmen - FENG, Mao - GUAN, Cui - HAN, Bin - KRAKOVA, Tatiana Kristof - LI, Jian-Ke - LI, Li - LI, Xing-An - SIMUTH, Jozef - WU, Li-Ming - WU, Yu-Qi - XUE, Xiao-Feng - XUE, Yun-Bo - YAMAGUCHI, Kikuji - ZENG, Zhi-Jiang - ZHENG, Huo-Qing - ZHOU, Jin-Hui. Standard methods for *Apis mellifera* royal jelly research. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2019, vol. 58, no. 2, pp., Registrované v: WOS
9. [1.1] KURTH, T. - KRETSCHMAR, S. - BUTTSTEDT, A. Royal jelly in focus. In INSECTES SOCIAUX. ISSN 0020-1812, 2019, vol. 66, no. 1, pp. 81-89., Registrované v: WOS
10. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS
11. [1.1] MURESAN, Carmen - BUTTSTEDT, Anja. pH-dependent stability of honey bee (*Apis mellifera*) major royal jelly proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

12. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
13. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
14. [1.1] SIMA, Michal - NOVOTNY, Marian - PRAVDA, Lukas - SUMOVA, Petra - ROHOUSOVA, Iva - VOLF, Petr. The Diversity of Yellow-Related Proteins in Sand Flies (Diptera: Psychodidae). In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS
15. [1.1] VALACHOVA, Ivana - BUCEKOVA, Marcela - MAJTAN, Juraj. Quantification of Bee-Derived Peptide Defensin-1 in Honey by Competitive Enzyme-Linked Immunosorbent Assay, a New Approach in Honey Quality Control. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2016, vol. 34, no. 3, p. 233-243., Registrované v: WOS
16. [1.1] WILDE, Jerzy - FRACZEK, Regina J. - SIUDA, Maciej - BAK, Beata - HATJINA, Fani - MISZCZAK, Artur. The influence of sublethal doses of imidacloprid on protein content and proteolytic activity in honey bees (*Apis mellifera* L.). In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2016, vol. 55, no. 2, p. 212-220., Registrované v: WOS
17. [1.1] ZAHMATKESH, Ensieh - NAJAFI, Gholamreza - NEJATI, Vahid. Protective Effect of Royal Jelly on In Vitro Fertilization (IVF) in Male Mice Treated with Oxymetholone. In CELL JOURNAL. ISSN 2228-5806, 2015, vol. 17, no. 3, pp. 569-575., Registrované v: WOS
18. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
19. [1.2] HADI, Roaa F. - TAIMOOZ, Sulaf Hamid. Effect of aquatic extract of chili pepper and honey extracts on fungus isolated from muscadomestica and some patients. In Plant Archives. ISSN 09725210, 2018-01-01, 18, 1, pp. 775-780., Registrované v: SCOPUS

ADCA421 HANSEN, Steen Uldall - BARÁTH, Marek - SALAMEH, Bader A.B. - PRITCHARD, Robin G. - STIMPSON, William T. - GARDINER, John M. - JAYSON, Gordon C. Scalable Synthesis of L-Iduronic Acid Derivatives via Stereocontrolled Cyanohydrin Reaction for Synthesis of Heparin-Related Disaccharides. Bader A.B. Salameh, Robin G. Pritchard, William T. Stimpson, John M. Gardiner, Gordon C. Jayson. In *Organic Letters*, 2009, vol.11, no.20, pp.4528-4531. Dostupné na: <https://doi.org/10.1021/ol901723m>

Ohlasy:

1. [1.1] BARATH, M. - KOOS, M. - TVAROSKA, I. - HIRSCH, J.

- Synthesis of potential inhibitors of glycosyltransferases representing UDP-GlcNAc. In *CHEMICAL PAPERS*. ISSN 0366-6352, FEB 2015, vol. 69, no. 2, p. 339-347., Registrované v: WOS
2. [1.1] CAO, Xuefeng - LV, Qingqing - LI, Dongmei - YE, Hui - YAN, Xu - YANG, Xiande - GAN, Hao - ZHAO, Wei - JIN, Lan - WANG, Peng - SHEN, Jie. Direct C5-Isomerization Approach to L-Iduronic Acid Derivatives. In *ASIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 2193-5807, 2015, vol. 4, no. 9, pp. 899-902., Registrované v: WOS
3. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS
4. [1.1] HERCZEG, Mihaly - DEMETER, Fruzsina - BALOGH, Timea - KELEMEN, Viktor - BORBAS, Aniko. Rapid Synthesis of l-Idosyl Glycosyl Donors from Thioglucosides for the Preparation of Heparin Disaccharides. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 25, pp. 3312-3316., Registrované v: WOS
5. [1.1] MOHAMED, Shifaza - FERRO, Vito. Synthetic Approaches to L-Iduronic Acid and L-Idose: Key Building Blocks for the Preparation of Glycosaminoglycan Oligosaccharides. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 72*. ISSN 0065-2318, 2015, vol. 72, no., pp. 21-61., Registrované v: WOS
6. [1.1] MULANI, Shaheen K. - CHENG, Kuang-Chun - MONG, Kwok-Kong T. General Homologation Strategy for Synthesis of L-glycero- and D-glycero-Heptopyranoses. In *ORGANIC LETTERS*. ISSN 1523-7060, 2015, vol. 17, no. 22, pp. 5536-5539., Registrované v: WOS
7. [1.1] PAWAR, Nitin J. - WANG, Lei - HIGO, Takuya - BHATTACHARYA, Chandrabali - KANCHARLA, Pavan K. - ZHANG, Fuming - BARYAL, Kedar - HUO, Chang-Xin - LIU, Jian - LINHARDT, Robert J. - HUANG, Xuefei - HSIEH-WILSON, Linda C. Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2019, vol. 58, no. 51, pp. 18577-18583., Registrované v: WOS
8. [1.1] PICHON, Maeva M. - STAUFFERT, Fabien - ADDANTE-MOYA, Luis G. - BODLENNER, Anne - COMPAIN, Philippe. Metal-Free Iodine-Mediated Deoxygenation of Alcohols in the Position to Electron-Withdrawing Groups. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 13, pp. 1538-1545., Registrované v: WOS
9. [1.1] SAWANT, Ratnadeep C. - LIAO, Ying-Ju - LIN, Yi-Jyun - BADSARA, Satpal Singh - LUO, Shun-Yuan. Formal synthesis of a disaccharide repeating unit (IdoA-GlcN) of heparin and heparan sulfate. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 25, pp. 19027-19033., Registrované v: WOS
10. [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio- α -D-cellobioside for preparation of heparin thiodisaccharide building blocks. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS
11. [1.2] ZULUETA, Medel Manuel L. - LIN, Shu Yi - HU, Yu Peng - HUNG, Shang Cheng. Synthesis of glycosaminoglycans. In *Glycochemical*

Synthesis: Strategies and Applications, 2015-01-01, pp. 235-261., Registrované v: SCOPUS

12. [4] ROCHA, Hugo Alexandre Oliveira. Heparan/heparin polysaccharide synthesis: Visiting the chemoenzymatic synthesis. In Sulfated Polysaccharides, 2015-07-01, pp. 121-134., Registrované v: SCOPUS

ADCA422 HANSEN, Steen Uldall - DALTON, Charlotte E. - BARÁTH, Marek - KWAN, Glenn - RAFTERY, James - JAYSON, Gordon Charles - MILLER, Gavin John - GARDINER, John Michael. Synthesis of L-iduronic acid derivatives via [3.2.1] and [2.2.2] L-iduronic lactones from bulk glucose-derived cyanohydrin hydrolysis: A reversible conformationally-switched super-disarmed/re-armed lactone route to heparin disaccharides. In *Journal of Organic Chemistry*, 2015, vol. 80, p. 3777-3789. (2014: 4.721 - IF, Q1 - JCR, 2.007 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0022-3263. Dostupné na: <https://doi.org/10.1021/jo502776f>

Ohlasy:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS
2. [1.1] JEANNERET, Robin A. - JOHNSON, Simon E. - GALAN, M. Carmen. Conformationally Constrained Glycosyl Donors as Tools to Control Glycosylation Outcomes. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15801-15826. Dostupné na: <https://doi.org/10.1021/acs.joc.0c02045>., Registrované v: WOS
3. [1.1] MOHAMED, Shifaza - FERRO, Vito. Synthetic Approaches to L-Iduronic Acid and L-Idose: Key Building Blocks for the Preparation of Glycosaminoglycan Oligosaccharides. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 72. ISSN 0065-2318, 2015, vol. 72, no., pp. 21-61., Registrované v: WOS
4. [1.1] MULANI, Shaheen K. - CHENG, Kuang-Chun - MONG, Kwok-Kong T. General Homologation Strategy for Synthesis of L-glycero- and D-glycero-Heptopyranoses. In ORGANIC LETTERS. ISSN 1523-7060, 2015, vol. 17, no. 22, pp. 5536-5539., Registrované v: WOS
5. [1.1] PAWAR, Nitin J. - WANG, Lei - HIGO, Takuya - BHATTACHARYA, Chandrabali - KANCHARLA, Pavan K. - ZHANG, Fuming - BARYAL, Kedar - HUO, Chang-Xin - LIU, Jian - LINHARDT, Robert J. - HUANG, Xuefei - HSIEH-WILSON, Linda C. Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2019, vol. 58, no. 51, pp. 18577-18583., Registrované v: WOS
6. [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio-alpha-D-cellobioside for preparation of heparin thiodisaccharide building blocks. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS
7. [1.1] SHEPPARD, Daniel J. - CAMERON, Scott A. - TYLER, Peter

C. - SCHWORER, Ralf. Comparison of disaccharide donors for heparan sulfate synthesis: uronic acids vs. their pyranose equivalents. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 25, pp. 4728-4733. Dostupné na: <https://doi.org/10.1039/d0ob00671h>., Registrované v: WOS

ADCA423 HANSEN, Steen U. - MILLER, Gavin J. - BARÁTH, Marek - BROBERG, Karl R. - AVIZIENYTE, Egle - HELLIWELL, Madeleine - RAFTERY, James - JAYSON, Gordon C. - GARDINER, John M. Synthesis and scalable conversion of L-iduronamides to heparin-related di- and tetrasaccharides. In *Journal of Organic Chemistry*, 2012, vol. 77, p. 7823-7843. (2011: 4.450 - IF, Q1 - JCR, 2.265 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0022-3263. Dostupné na: <https://doi.org/10.1021/jo300722y>

Ohlasy:

1. [1.1] BARATH, M. - KOOS, M. - TVAROSKA, I. - HIRSCH, J. Synthesis of potential inhibitors of glycosyltransferases representing UDP-GlcNAc. In *CHEMICAL PAPERS*. ISSN 0366-6352, FEB 2015, vol. 69, no. 2, p. 339-347., Registrované v: WOS
2. [1.1] CAPUTO, Hannah E. - STRAUB, John E. - GRINSTAFF, Mark W. Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. In *CHEMICAL SOCIETY REVIEWS*. ISSN 0306-0012, 2019, vol. 48, no. 8, pp. 2338-2365., Registrované v: WOS
3. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS
4. [1.1] LI, Jiakun - DAI, Yuanwei - LI, Wei - LAVAL, Stephane - XU, Peng - YU, Biao. Effective Synthesis of alpha-D-GlcN-(1>4)-D-GlcA/L-IdoA Glycosidic Linkage under Gold(I) Catalysis. In *ASIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 2193-5807, 2015, vol. 4, no. 8, pp. 756-762., Registrované v: WOS
5. [1.1] MENDE, Marco - BEDNAREK, Christin - WAWRYSZYN, Mirella - SAUTER, Paul - BISKUP, Moritz B. - SCHEPERS, Ute - BRAESE, Stefan. Chemical Synthesis of Glycosaminoglycans. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2016, vol. 116, no. 14, pp. 8193-8255., Registrované v: WOS
6. [1.1] MOHAMED, Shifaza - FERRO, Vito. Synthetic Approaches to L-Iduronic Acid and L-Idose: Key Building Blocks for the Preparation of Glycosaminoglycan Oligosaccharides. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY*, VOL 72. ISSN 0065-2318, 2015, vol. 72, no., pp. 21-61., Registrované v: WOS
7. [1.1] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2016, vol. 68, no. 1, pp. 76-141., Registrované v: WOS
8. [1.1] SHANTHAMURTHY, Chethan D. - KIKKERI, Raghavendra. Linear Synthesis of De novo Oligo-Iduronic Acid. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2019, vol. 2019, no. 18, pp. 2950-2953., Registrované v: WOS
9. [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio-alpha-D-cellobioside for preparation of heparin

thiodisaccharide building blocks. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS

10. [1.1] WANG, A-Peng - LIU, Chao - YANG, Shuang - ZHAO, Zhehui - LEI, Pingsheng. An efficient method to synthesize novel 5-O-(6'-modified)-mycaminose 14-membered ketolides. In TETRAHEDRON. ISSN 0040-4020, 2016, vol. 72, no. 2, pp. 285-297., Registrované v: WOS

11. [1.1] WANG, Liming - ZHANG, Yongzhen - OVERKLEEF, Herman S. - VAN DER MAREL, Gijsbert A. - CODEE, Jeroen D. C. Reagent Controlled Glycosylations for the Assembly of Well-Defined Pel Oligosaccharides. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15872-15884. Dostupné na: <https://doi.org/10.1021/acs.joc.0c00703>., Registrované v: WOS

12. [1.1] XU, Peng - LAVAL, Stephane - GUO, Zheng - YU, Biao. Microwave-assisted simultaneous O,N-sulfonation in the synthesis of heparin-like oligosaccharides. In ORGANIC CHEMISTRY FRONTIERS. ISSN 2052-4129, 2016, vol. 3, no. 1, pp. 103-109., Registrované v: WOS

13. [1.2] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In Pharmacological Reviews. ISSN 00316997, 2015-01-01, 68, 1, pp. 76-141., Registrované v: SCOPUS

14. [1.2] ZULUETA, Medel Manuel L. - LIN, Shu Yi - HU, Yu Peng - HUNG, Shang Cheng. Synthesis of glycosaminoglycans. In Glycochemical Synthesis: Strategies and Applications, 2015-01-01, pp. 235-261., Registrované v: SCOPUS

ADCA424 HEINRICHOVÁ, K. - WOJCIECHOWICZ, M. - ZIOLECKI, A. An exo-D-galacturonase of *Butyrivibrio fibrisolvens* from the bovine rumen. In *Journal of General Microbiology*, 1985, vol. 131, p. 2053-2058.

Ohlasy:

1. [1.1] LI, Ke - MENG, Kun - PAN, Xia - MA, Rui - YANG, Peilong - HUANG, Huoqing - YAO, Bin - SU, Xiaoyun. Two thermophilic fungal pectinases from *Neosartorya fischeri* P1: Gene cloning, expression, and biochemical characterization. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 118, no., pp. 70-78., Registrované v: WOS

ADCA425 HERMANN, M.C. - VRŠANSKÁ, Mária - JURÍČKOVÁ, M. - HIRSCH, Ján - BIELY, Peter - KUBICEK, C.P. The beta-D-xylosidase of *Trichoderma reesei* is a multifunctional beta-D-xylan xylohydrolase. In *Biochemical Journal*, 1997, vol. 321, p. 375-381. ISSN 0264-6021.

Ohlasy:

1. [1.1] DUQUE, Estrella - DADDAOUA, Abdelali - CORDERO, Baldo F. - UDAONDO, Zulema - MOLINA-SANTIAGO, Carlos - ROCA, Amalia - SOLANO, Jennifer - MOLINA-ALCAIDE, Eduarda - SEGURA, Ana - RAMOS, Juan-Luis. Ruminant metagenomic libraries as a source of relevant hemicellulolytic enzymes for biofuel production. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, 2018, vol. 11, no. 4, pp. 781-787., Registrované v: WOS

2. [1.1] GRAMANY, Vashni - KHAN, Faez Iqbal - GOVENDER, Algasan - BISETTY, Krishna - SINGH, Suren - PERMAUL, Kugenthiren.

Cloning, expression, and molecular dynamics simulations of a xylosidase obtained from *Thermomyces lanuginosus*. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2016, vol. 34, no. 8, pp. 1681-1692., Registrované v: WOS

3. [1.1] HIRASAWA, Hiroki - SHIOYA, Koki - FURUKAWA, Takanori - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - SHIDA, Yosuke - OGASAWARA, Wataru. Engineering of the *Trichoderma reesei* xylanase3 promoter for efficient enzyme expression. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2737-2752., Registrované v: WOS

4. [1.1] CHOENGPANYA, Khuanjarat - ARTHOMTHURASUK, Siriphan - WATTANA-AMORN, Pakorn - HUANG, Wan-Ting - PLENGMUANKHAE, Wandee - LI, Yaw-Kuen - KONGSAEREE, Prachumporn T. Cloning, expression and characterization of beta-xylosidase from *Aspergillus niger* ASKU28. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2015, vol. 115, no., pp. 132-140., Registrované v: WOS

5. [1.1] INOUE, Hiroyuki - KITAO, Chiaki - YANO, Shinichi - SAWAYAMA, Shigeki. Production of beta-xylosidase from *Trichoderma asperellum* KIF125 and its application in efficient hydrolysis of pretreated rice straw with fungal cellulase. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2016, vol. 32, no. 11, pp., Registrované v: WOS

6. [1.1] JAIN, Ira - KUMAR, Vikash - SATYANARAYANA, T. Xylooligosaccharides: an economical prebiotic from agroresidues and their health benefits. In INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0019-5189, 2015, vol. 53, no. 3, pp. 131-142., Registrované v: WOS

7. [1.1] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the beta-xyl1 gene in *Trichoderma orientalis* EU7-22. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 8, no., pp., Registrované v: WOS

8. [1.1] MHETRAS, Nutan - LIDDELL, Susan - GOKHALE, Digambar. Purification and characterization of an extracellular beta-xylosidase from *Pseudozyma hubeiensis* NCIM 3574 (PhXyl), an unexplored yeast. In AMB EXPRESS. ISSN 2191-0855, 2016, vol. 6, no., pp., Registrované v: WOS

9. [1.1] NIETO-DOMINGUEZ, Manuel - DE EUGENIO, Laura I. - BARRIUSO, Jorge - PRIETO, Alicia - FERNANDEZ DE TORO, Beatriz - CANALES-MAYORDOMO, Angeles - JESUS MARTINEZ, Maria. Novel pH-Stable Glycoside Hydrolase Family 3 beta-Xylosidase from *Talaromyces amestolkiae*: an Enzyme Displaying Regioselective Transxylosylation. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 18, pp. 6380-6392., Registrované v: WOS

10. [1.1] ROHMAN, Ali - DIJKSTRA, Bauke W. - PUSPANINGSIH, Ni Nyoman Tri. beta-Xylosidases: Structural Diversity, Catalytic Mechanism, and Inhibition by Monosaccharides. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 22, pp., Registrované v: WOS

11. [1.1] ROHMAN, Ali - VAN OOSTERWIJK, Niels - PUSPANINGSIH, Ni Nyoman Tri - DIJKSTRA, Bauke W. Structural basis of product inhibition by arabinose and xylose of the thermostable GH43

- beta-1,4-xylosidase from *Geobacillus thermoleovorans* IT-08. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS
12. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
13. [1.2] KUMAR, Santhosh - ARUMUGAM, Nanthakumar - PERMAUL, Kugenthiren - SINGH, Suren. Thermostable enzymes and their industrial applications. In Microbial Biotechnology: An Interdisciplinary Approach, 2016-12-01, pp. 115-162., Registrované v: SCOPUS
14. [1.2] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the β -xyl1 gene in *Trichoderma orientalis* EU7-22. In 3 Biotech. ISSN 2190572X, 2018-01-01, 8, 1, pp., Registrované v: SCOPUS

ADCA426 HIRSCH, Ján - KOVÁČ, Pavol - PETRÁKOVÁ, Eva. An approach to the systematic synthesis of (1)-beta-D-xylooligosaccharides-. In *Carbohydrate Research*, 1982, vol. 106, p. 203-216. ISSN 0008-6215.

Ohlasy:

1. [1.1] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 17, pp. 11337-11405., Registrované v: WOS
2. [1.1] PAL, Rita - DAS, Anupama - JAYARAMAN, Narayanaswamy. One-pot oligosaccharide synthesis: latent-active method of glycosylations and radical halogenation activation of allyl glycosides. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2019, vol. 91, no. 9, pp. 1451-1470., Registrované v: WOS
3. [1.1] PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS

ADCA427 HIRSCH, Ján - KOŮŠ, Miroslav - KOVÁČ, P. Improved synthesis of an aldobiouronic acid related to hardwood xylans and preparation of a derivate thereof suitable for linking to proteins. In *Carbohydrate Research*, 1998, vol.310, p. 145-149. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] BIELY, Peter - MALOVIKOVA, Anna - UHLIARIKOVA, Iveta - LI, Xin-Liang - WONG, Dominic W. S. Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 18, pp. 2334-2339., Registrované v: WOS
2. [1.1] CHRISTENSEN, Helle M. - OSCARSON, Stefan - JENSEN, Henrik H. Common side reactions of the glycosyl donor in chemical glycosylation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 408, no., pp. 51-95., Registrované v: WOS
3. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON,

Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS

ADCA428 HIRSCH, Ján - PETRÁKOVÁ, Eva - SCHRAML, Jozef. Stereoselective synthesis and ¹³C-N.m.r. spectra of two isomeric methyl β-glycosides of trisaccharides related to arabinoxylan. In *Carbohydrate Research*, 1984, vol. 131, p. 219-226. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(84\)85243-X](https://doi.org/10.1016/0008-6215(84)85243-X)

Ohlasy:

1. [1.1] UNDERLIN, Emilie N. - BOHM, Maximilian - MADSEN, Robert. Synthesis of Arabinoxylan Oligosaccharides by Preactivation-Based Iterative Glycosylations. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2019, vol. 84, no. 24, pp. 16036-16054., Registrované v: WOS
2. [1.2] ARAB-JAZIRI, Faten - BISSARO, Bastien - TELLIER, Charles - DION, Michel - FAURÉ, Régis - O'DONOHUE, Michael J. Enhancing the chemoenzymatic synthesis of arabinosylated xylo-oligosaccharides by GH51 α-l-arabinofuranosidase. In *Carbohydrate Research*. ISSN 00086215, 2015-01-12, 401, pp. 64-72., Registrované v: SCOPUS

ADCA429 HIRSCH, Ján - KOVÁČ, P. - ALFOLDI, Juraj - MIHÁLOV, Vincent. Synthesis of an aldotriouronic acid derivatives related to (4-O-methylglucurono)xylans. In *Carbohydrate Research*, 1981, vol.88, p. 146-152. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)84609-1](https://doi.org/10.1016/S0008-6215(00)84609-1)

Ohlasy:

1. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

ADCA430 HIRSCH, Ján - LANGER, V. - KOŮŠ, Miroslav. Synthesis and molecular structure of methyl 4-o-methyl-alfa-D-glucopyranuronate. In *Molecules*, 2005, vol. 10, p. 251-258. ISSN 1420-3049.

Ohlasy:

1. [1.1] BIELY, Peter. Microbial Glucuronoyl Esterases: 10 Years after Discovery. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2016, vol. 82, no. 24, pp. 7014-7018., Registrované v: WOS

ADCA431 HIRSCH, Ján - MOSSINE, V.V. - FEATHER, M.S. The detection of some dicarbonyl intermediates arising from the degradation of Amadori compounds (the Maillard reaction). In *Carbohydrate Research*, 1995, vol. 273, p. 171-177. (1995 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] GREIFENHAGEN, Uta - FROLOV, Andrej - BLUEHER, Matthias - HOFFMANN, Ralf. Plasma Proteins Modified by Advanced Glycation End Products (AGEs) Reveal Site-specific Susceptibilities to Glycemic Control in Patients with Type 2 Diabetes. In *JOURNAL OF BIOLOGICAL*

CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 18, pp. 9610-+.,
Registrované v: WOS

ADCA432 HIRSCH, Ján - PETŘÁKOVÁ, Eva - FEATHER, M.S. The reaction of some dicarbonyl sugars with aminoguanidine. In *Carbohydrate Research*, 1992, vol. 232, p. 125-130. (1991: 1.299 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)90999-6](https://doi.org/10.1016/S0008-6215(00)90999-6)

Ohlasy:

1. [1.1] HENNING, Christian - GLOMB, Marcus A. Pathways of the Maillard reaction under physiological conditions. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2016, vol. 33, no. 4, pp. 499-512., Registrované v: WOS
2. [1.1] KATHURIA, Deepika - CHOURASIYA, Sumit S. - MANDAL, Sanjay K. - CHAKRABORTI, Asit K. - BEIFUSS, Uwe - BHARATAM, Prasad V. Ring-chain isomerism in conjugated guanyldiazones: Experimental and theoretical study. In *TETRAHEDRON*. ISSN 0040-4020, 2018, vol. 74, no. 23, pp. 2857-2864., Registrované v: WOS
3. [1.1] LUND, Marianne N. - RAY, Colin A. Control of Maillard Reactions in Foods: Strategies and Chemical Mechanisms. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 23, pp. 4537-4552., Registrované v: WOS
4. [1.1] PARK, Chan Hum - XU, Feng Hao - ROH, Seong-Soo - SONG, Yeong Ok - UEBABA, Kazuo - NOH, Jeong Sook - YOKOZAWA, Takako. Astaxanthin and Corni Fructus Protect Against Diabetes-Induced Oxidative Stress, Inflammation, and Advanced Glycation End Product in Livers of Streptozotocin-Induced Diabetic Rats. In *JOURNAL OF MEDICINAL FOOD*. ISSN 1096-620X, 2015, vol. 18, no. 3, pp. 337-344., Registrované v: WOS

ADCA433 HLASOVÁ, Zuzana - KOŠÍK, Ivan - ONDREJOVIČ, Miroslav - MIERTUŠ, Stanislav - KATRLÍK, Jaroslav**. Methods and current trends in determination of neuraminidase activity and evaluation of neuraminidase inhibitors. In *Critical Reviews in Analytical Chemistry*, 2019, vol. 49, p. 350-367. (2018: 4.325 - IF, Q1 - JCR, 0.852 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1040-8347. Dostupné na: <https://doi.org/10.1080/10408347.2018.1531692>

Ohlasy:

1. [1.1] YUAN, Lei - ZHAO, Yu - SUN, Xue-Long. Sialidase substrates for Sialdiase assays-activity, specificity, quantification and inhibition. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 5, pp. 513-531. Dostupné na: <https://doi.org/10.1007/s10719-020-09940-0>., Registrované v: WOS

ADCA434 HOFER, M. - POSPÍŠIL, M. - VILKICKÁ, Š. - PÍPALOVÁ, I. - HOLÁ, J. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Effects of postirradiation carboxymethylglucan administration in mice. In *International Journal of Immunopharmacology*, 1995, vol. 17, p.167-174. Dostupné na: [https://doi.org/10.1016/0192-0561\(95\)00002-J](https://doi.org/10.1016/0192-0561(95)00002-J)

Ohlasy:

1. [1.1] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no.,

pp. 572-579., Registrované v: WOS

2. [1.1] MIHAILOVIC, Mirjana - JOVANOVIĆ, Jelena Arambasic - USKOKOVIC, Aleksandra - GRDOVIC, Nevena - DINIC, Svetlana - VIDOVIĆ, Senka - POZNANOVIC, Goran - MUJIC, Ibrahim - VIDA KOVIĆ, Melita. Protective Effects of the Mushroom *Lactarius deterrimus* Extract on Systemic Oxidative Stress and Pancreatic Islets in Streptozotocin-Induced Diabetic Rats. In JOURNAL OF DIABETES RESEARCH. ISSN 2314-6745, 2015, vol., no., pp., Registrované v: WOS

ADCA435 HOFER, M. - POSPÍŠIL, M. - PÍPALOVÁ, J. - HOLÁ, J. - ŠANDULA, Jozef. Haemopoiesis-enhancing effects of repeatedly administered carboxymethylglucan in mice exposed to fractionated irradiation. In *Folia Biologica - Krakow*, 1995, vol. 41, p. 249-256. ISSN 0015-5497.

Ohlasy:

1. [1.2] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In International Journal of Biological Macromolecules. ISSN 01418130, 2018-08-01, 115, pp. 572-579., Registrované v: SCOPUS

ADCA436 HOLLINGER, G. - KUNIAK, Ľudovít - MARCHSSAULT, R.H. Thermodynamic aspects of the gelatinization and swelling of crosslinked starch. In *Biopolymers*, 1974, vol. 13, p. 879-890. ISSN 0006-3525. Dostupné na: <https://doi.org/10.1002/bip.1974.360130504>

Ohlasy:

1. [1.1] JANG, Sun Ho - LI, Xiang Xu - CHO, Ur Ryong. Manufacture and Properties of SBR/Starch/Bamboo Charcoal Composites. In POLYMER-KOREA. ISSN 0379-153X, 2018, vol. 42, no. 1, pp. 29-34., Registrované v: WOS

2. [1.1] ZHU, Jianjun - SUN, Wenzhong - MENG, Zhiyun - ZHU, Xiaoxia - GAN, Hui - GU, Ruolan - WU, Zhuona - DOU, Guifang. Preparation and characterization of a new type of porous starch microspheres (PSM) and effect of physicochemical properties on water uptake rate. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 707-714., Registrované v: WOS

ADCA437 HORVÁTHOVÁ, Eva** - MASTIHUBOVÁ, Mária - KARNIŠOVÁ POTOCKÁ, Elena - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - KLAPÁKOVÁ, Martina - HUNÁKOVÁ, Ľuba - MASTIHUBA, Vladimír. Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells culture in vitro. In *Toxicology in vitro : the official journal of the European Society for Toxicology in Vitro*, 2019, vol. 61, art.no. 104646. (2018: 3.067 - IF, Q2 - JCR, 0.895 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0887-2333. Dostupné na: <https://doi.org/10.1016/j.tiv.2019.104646>

Ohlasy:

1. [1.1] SHU, Penghua - ZHANG, Lingxiang - LIU, Anqi - LI, Junping - LIU, Qing - SUN, Na - ZHANG, Yanling - WEI, Xialan - CUI, Mengyao - JU, Zhiyu - XU, Zhihong. Six Natural Phenylethanoid Glycosides: Total Synthesis, Antioxidant and Tyrosinase Inhibitory Activities. In CHEMISTRYSELECT.

ISSN 2365-6549, 2020, vol. 5, no. 35, pp. 10817-10820. Dostupné na:
<https://doi.org/10.1002/slct.202002608>., Registrované v: WOS
2. [1.1] SHU, P.H. - ZHANG, L.X. - LIU, A.Q. - LI, J.P. - LIU, Q. -
SUN, N. - ZHANG, Y.L. - WEI, X.L. - CUI, M.Y. - JU, Z.Y. - XU, Z.H. Six
Natural Phenylethanoid Glycosides: Total Synthesis, Antioxidant and Tyrosinase
Inhibitory Activities. In CHEMISTRYSELECT. ISSN 2365-6549, SEP 22 2020,
vol. 5, no. 35, p. 10817-10820., Registrované v: WOS

ADCA438 HORVÁTHOVÁ, Marta - ŠOLTÉS, Ladislav - MISLOVIČOVÁ, Danica -
ŽÚBOR, V. - FUGEDI, A. High-performance gel permeation chromatography of
water-soluble β -1,3-glucans. In *Journal of Chromatography A : international
Journal on Chromatography, Electrophoresis and Related Methods*, 1990, vol.509,
no.1, p.213-218. ISSN 0021-9673. Dostupné na:
[https://doi.org/10.1016/S0021-9673\(01\)93255-8](https://doi.org/10.1016/S0021-9673(01)93255-8)
Ohlasy:
1. [1.1] SHOAIB, M. - QUADRI, S.M.R. - WANI, O.B. - BOBICKI, E.
- GARRIDO, G.I. - ELKAMEL, A. - ABDALA, A. Adsorption of enhanced oil
recovery polymer, schizophyllan, over carbonate minerals. In
CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, art. no.
116263., Registrované v: WOS

ADCA439 HORVÁTHOVÁ, Marta - MISLOVIČOVÁ, Danica - ŠOLTÉS, Ladislav -
TUZAR, Z. - GEMEINER, Peter - ŽÚBOR, V. Preparation and molecular
characterization of carboxymethylglucan fractions. In *Carbohydrate Polymers*,
1991, vol. 15, no.1, p. 79-87. ISSN 0144-8617. Dostupné na:
[https://doi.org/10.1016/0144-8617\(91\)90021-4](https://doi.org/10.1016/0144-8617(91)90021-4)
Ohlasy:
1. [1.1] TAUBNER, T. - MAROUNEK, M. - SYNITSYA, A.
Preparation and characterization of hydrophobic and hydrophilic amidated
derivatives of carboxymethyl chitosan and carboxymethyl beta-glucan. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, NOV 15 2020, vol. 163, p. 1433-1443., Registrované v: WOS

ADCA440 HOSANG, K. - KNOKE, I. - KLAUDINY, Jaroslav - WEMPE, F. -
WUTTKE, W. - SCHEIT, K.H. Porcine luteal cells express monocyte
chemoattractant protein-1 (MCP-1) - analysis by polymerase chain reaction and
CDNA cloning. In *Biochemical and biophysical research communications*, 1994,
vol. 199, p. 962-968. ISSN 0006-291X.
Ohlasy:
1. [1.1] NIO-KOBAYASHI, Junko - KUDO, Masataka - SAKURAGI,
Noriaki - KIMURA, Shunsuke - IWANAGA, Toshihiko - DUNCAN, W. Colin.
Regulated C-C motif ligand 2 (CCL2) in luteal cells contributes to macrophage
infiltration into the human corpus luteum during luteolysis. In MOLECULAR
HUMAN REPRODUCTION, 2015, vol. 21, no. 8, pp. 645-654., Registrované v:
WOS
2. [3.2] Group Author(s). Uniprot Consortium. P42831. IN UniProt
Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/P42831>, Registrované v: Data Citation Index

ADCA441 HOSANG, K. - KNOKE, I. - KLAUDINY, Jaroslav - WEMPE, F. - WUTTKE, W. - SCHEIT, K.H. Porcine luteal cells express monocyte chemoattractant protein-2 (MCP-2) - analysis by CDNA cloning and Northern analysis. In *Biochemical and biophysical research communications*, 1994, vol. 205, p. 148-153. ISSN 0006-291X. Dostupné na: <https://doi.org/10.1006/bbrc.1994.2642>

Ohlasy:

1. [3.2] Group Author(s). Uniprot Consortium. P49873. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/P49873>, Registrované v: Data Citation Index

ADCA442 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RAPTA, P. - ŠOLTÉS, Ladislav. Alternative standard for TEAC estimation based on thiol antioxidants. Comparative ABTS decolorization and rotational viscometry study regarding hyaluronan degradation. In *Chemistry and Biodiversity*, 2010, vol. 7, p. 2191-2200. (2009: 1.926 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1612-1872.

Ohlasy:

1. [1.1] ANKAMAH, Emmanuel - SEBAG, J. - NG, Eugene - NOLAN, John M. Vitreous Antioxidants, Degeneration, and Vitreo-Retinopathy: Exploring the Links. In *ANTIOXIDANTS*, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/antiox9010007>., Registrované v: WOS
2. [1.1] ZHU, Zuohua - SHI, Zhigang - XIE, Chunliang - GONG, Wenbing - HU, Zhenxiu - PENG, Yuande. A novel mechanism of Gamma-aminobutyric acid (GABA) protecting human umbilical vein endothelial cells (HUVECs) against H2O2-induced oxidative injury. In *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY*. ISSN 1532-0456, 2019, vol. 217, no., pp. 68-75., Registrované v: WOS

ADCA443 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RAPTA, Peter - ŠOLTÉS, Ladislav. An alternative standard for Trolox-equivalent antioxidant-capacity estimation base on thiol antioxidants. Comparative 2,2'-azinobis[3-ethylbenzothiazoline-6-sulfonic acid] decolorization and rotational viscometry study regarding hyaluronan degradation. In *Chemistry & biodiversity*, 2010, vol. 7, no. 9, p. 2191-2200. (2009: 1.926 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.201000019>

Ohlasy:

1. [1.1] ANKAMAH, E. - SEBAG, J. - NG, E. - NOLAN, J.M. Vitreous Antioxidants, Degeneration, and Vitreo-Retinopathy: Exploring the Links. In *ANTIOXIDANTS*. eISSN: 2076-3921, 2020, vol. 9, no. 1, art. no. 7., Registrované v: WOS
2. [1.1] JIANG, J. - ZANG, S. - LI, D. - WANG, K. - TIAN, S. - YU, A. - ZHANG, Z. Determination of antioxidant capacity of thiol-containing compounds by electron spin resonance spectroscopy based on Cusup2+/supion reduction. In *TALANTA*. ISSN 0039-9140, 2018, vol. 184, p. 23-28., Registrované v: WOS
3. [1.1] LIANG, Y. - LIN, Q.L. - HUANG, P. - WANG, Y.G. - LI, J.J. - ZHANG, L. - CAO, J.Z. Rice Bioactive Peptide Binding with TLR4 To Overcome H2O2-Induced Injury in Human Umbilical Vein Endothelial Cells

through NF-kappa B Signaling. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 2, p. 440-448., Registrované v: WOS

4. [1.1] ZHU, Zuohua - SHI, Zhigang - XIE, Chunliang - GONG, Wenbing - HU, Zhenxiu - PENG, Yuande. A novel mechanism of Gamma-aminobutyric acid (GABA) protecting human umbilical vein endothelial cells (HUVECs) against H₂O₂-induced oxidative injury. In COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY. ISSN 1532-0456, 2019, vol. 217, p. 68-75., Registrované v: WOS

5. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS

6. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

7. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA444 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: evaluation of antioxidative effect of cysteine-derived compounds. In *Chemistry & biodiversity*, 2012, vol. 9, no. 2, p. 309-317. (2011: 1.804 - IF, Q2 - JCR, 0.597 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1612-1872. ITMS-26220120054. Dostupné na: <https://doi.org/10.1002/cbdv.201100046>

Ohlasy:

1. [1.1] HSU, L.J. - CHIANG, M.F. - SZE, C.I. - SU, W.P. - YAP, Y.V. - LEE, I.T. - KUO, H.L. - CHANG, N.S. HYAL-2-WWOX-SMAD4 Signaling in Cell Death and Anticancer Response. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X (Electronic), 2016, vol. 4, art. no. UNSP 141., Registrované v: WOS

2. [1.1] CHENG, T. - ORTIZ, R. F. - VEDANTHAM, K. - NACCACHE, R. - VETRONE, F. - MARKS, R. S. - STEELE, T. W. J. Tunable Chemical Release from Polyester Thin Film by Photocatalytic Zinc Oxide and Doped LiYF₄ Upconverting Nanoparticles. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 1, p. 364-373., Registrované v: WOS

3. [1.1] LALL, R.K. - SYED, D.N. - KHAN, M.I. - ADHAMI, V.M. - GONG, Y. - LUCEY, J.A. - MUKHTAR, H. Dietary flavonoid fisetin increases abundance of high-molecular-mass hyaluronan conferring resistance to prostate

oncogenesis. In CARCINOGENESIS. ISSN 0143-3334, 2016, vol. 37, no. 9, p. 918-928., Registrované v: WOS

4. [1.1] MENDE, M. - BEDNAREK, C. - WAWRYSZYN, M. - SAUTER, P. - BISKUP, M.B. - SCHEPERS, U. - BRASE, S. Chemical Synthesis of Glycosaminoglycans. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 14, p. 8193-8255., Registrované v: WOS

5. [1.1] MISRA, S. - HASCALL, V.C. - MARKWALD, R.R. - GHATAK, S. Interactions between hyaluronan and its receptors (CD44, RHAMM) regulate the activities of inflammation and cancer. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2015, vol. 6, article number 201., Registrované v: WOS

6. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

7. [1.2] PIZZO, S.V. - LUNDBLAD, R.L. - WILLIS, M.S. Proteolysis in the interstitial space. (Book Chapter). In PROTEOLYSIS IN THE INTERSTITIAL SPACE. CRC Press, 2016, p. 1-297. ISBN 978-146657208-9;978-146657207-2, Registrované v: SCOPUS

8. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

9. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

10. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA445 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - RAPTA, Peter - SASINKOVÁ, Vlasta - MALÍKOVÁ, Marta - ŠOLTĚS, Ladislav.

High-molar-mass hyaluronan degradation by Weissberger's system: Pro- and anti-oxidative effects of some thiol compounds. In *Polymer Degradation and Stability*, 2009, vol. 94, no. 10, p. 1867-1875. (2008: 2.320 - IF, Q1 - JCR, 1.284 - SJR, Q1 - SJR). ISSN 0141-3910. Dostupné na:

<https://doi.org/10.1016/j.polymdegradstab.2009.05.007>

Ohlasy:

1. [1.1] PARSONS, B. J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, pp. 618-632., Registrované v: WOS

2. [1.2] ESMAEILI, E.- SOLEIMANI, M.- GHIASS, M.A.- HATAMIE,

- S.- VAKILIAN, S.- ZOMORROD, M.S.-, SADEGHZADEH, N.- VOSSOUGH, M.- HOSSEINZADEH, S. Magnetoelectric nanocomposite scaffold for high yield differentiation of mesenchymal stem cells to neural-like cells. (2019) *Journal of Cellular Physiology*, 234 (8), p. 13617-13628., Registrované v: SCOPUS
3. [1.2] GADOMSKA-GAJADHUR, Agnieszka - WRZECIONEK, Michał - MATYSZCZAK, Grzegorz - PIETOWSKI, Piotr - WIECŁAW, Michał - RUŠKOWSKI, Paweł. Optimization of Poly(glycerol sebacate) Synthesis for Biomedical Purposes with the Design of Experiments. In *Organic Process Research and Development*. ISSN 10836160, 2018-12-21, 22, 12, pp. 1793-1800., Registrované v: SCOPUS
4. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS
5. [1.2] SANDER, Marcela Mantese - FERREIRA, Carlos Arthur. Synthesis and characterization of a conductive and self-healing composite. In *Synthetic Metals*. ISSN 03796779, 2018-09-01, 243, pp. 58-66., Registrované v: SCOPUS
6. [1.2] SANI, Noor Faezah Mohd - WAHIT, Mat Uzir - THAM, Weng Hong - MAJID, Noor Aishatun Abd. Biodegradable poly(xylitol sebacate dodecanoate)/nano-hydroxyapatite composite for potential use in biomedical applications. In *AIP Conference Proceedings*. ISSN 0094243X, 2018-07-13, 1985, art. no. 020001., Registrované v: SCOPUS
7. [1.2] TANG, H.- XIANG, S.- LI, X.- ZHOU, J.- KUANG, C. Preparation and in vitro performance evaluation of resveratrol for oral self-microemulsion. (2019) *PLoS ONE*, 14 (4), art. no. e0214544, Registrované v: SCOPUS
8. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
9. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA446 HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTÉS, Ladislav. Peroxynitrite: in vivo and in vitro synthesis and oxidant degradative action on biological systems regarding biomolecular injury and inflammatory processes. In *Chemical papers*, 2007, vol. 61, no. 6, p. 417-437. (2006: 0.360 - IF, Q4 - JCR, 0.186 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-007-0058-8>

Ohlasy:

1. [1.1] BAYACHOU, Mekki - ALTAWALLBEH, Ghaith - KALIL, Haitham - WOJCIECHOWSKI, Sarah - BOSE, Tiyash. Methods of Peroxynitrite Synthesis in the Context of the Development and Validation of Peroxynitrite Sensors. In PEROXYNITRITE DETECTION IN BIOLOGICAL MEDIA: CHALLENGES AND ADVANCES. ISSN 2052-3068, 2016, vol. 7, no., pp. 48-62., Registrované v: WOS
2. [1.1] JOROLAN, Joel H. - BUTTITTA, Lisa Ann - CHEAH, Cheryl - MIRANDA, Katrina M. Comparison of the chemical reactivity of synthetic peroxynitrite with that of the autoxidation products of nitroxyl or its anion. In NITRIC OXIDE-BIOLOGY AND CHEMISTRY. ISSN 1089-8603, 2015, vol. 44, no., pp. 39-46., Registrované v: WOS
3. [1.1] PISKAREV, Igor M. Production Under Plasma Radiation of a Long Living Complex That Decays to Peroxynitrite and Peroxynitrous Acid. In RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2015, vol. 6, no. 6, pp. 1136-1149., Registrované v: WOS
4. [1.2] ABALENIKHINA, Yu V. - KOSMACHEVSKAYA, O. V. - TOPUNOV, A. F. Peroxynitrite: Toxic Agent and Signaling Molecule (Review). In Applied Biochemistry and Microbiology. ISSN 00036838, 2020-11-01, 56, 6, pp. 611-623., Registrované v: SCOPUS
5. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
6. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
7. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA447 HRABÁROVÁ, Eva - RYCHLÝ, Jozef - SASINKOVÁ, Vlasta - VALACHOVÁ, Katarína - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Structural characterisation of thiol-modified hyaluronans. In *Cellulose*, 2012, vol. 19, no. 6, p. 2093-2104. (2011: 3.600 - IF, Q1 - JCR, 1.351 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0969-0239. VEGA 1/0529/09, VEGA 1/0145/10, VEGA 2/0147/12, ITMS 26220120054. Dostupné na: <https://doi.org/10.1007/s10570-012-9775-4>

Ohlasy:

1. [1.1] NAKAGAWA, Y. - NAKASAKO, S. - OHTA, S. - ITO, T. A biocompatible calcium salt of hyaluronic acid grafted with polyacrylic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, p. 43-53.,

Registrované v: WOS

2. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632, Registrované v: WOS

ADCA448 HRADILOVÁ, Ludmila - POLÁKOVÁ, Monika - DVOŘÁKOVÁ, Barbora - HAJDÚCH, Marián - PETRUŠ, Ladislav. Synthesis and cytotoxicity of some D-mannose click conjugates with aminobenzoic acid derivatives. In *Carbohydrate Research*, 2012, vol. 361, p. 1-6. (2011: 2.332 - IF, Q2 - JCR, 0.762 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2012.08.001>

Ohlasy:

1. [1.1] BOBOVSKA, Adela - TVAROSKA, Igor - KONA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi alpha-Mannosidase II. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2016, vol. 66, no., pp. 47-57., Registrované v: WOS

2. [1.1] BREHOVA, Petra - SMIDKOVA, Marketa - SKACEL, Jan - DRACINSKY, Martin - MERTLIKOVA-KAISEROVA, Helena - VELASQUEZ, Monica P. Soto - WATTS, Val J. - JANEBA, Zlatko. Design and Synthesis of Fluorescent Acyclic Nucleoside Phosphonates as Potent Inhibitors of Bacterial Adenylate Cyclases. In *CHEMMEDCHEM*. ISSN 1860-7179, 2016, vol. 11, no. 22, pp. 2534-2546., Registrované v: WOS

3. [1.1] HALAY, Erkan - AY, Emriye - SALVA, Emine - AY, Kadir - KARAYILDIRIM, Tamer. Syntheses of 1,2,3-triazole-bridged pyranose sugars with purine and pyrimidine nucleobases and evaluation of their anticancer potential. In *NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS*. ISSN 1525-7770, 2017, vol. 36, no. 9, pp. 598-619., Registrované v: WOS

4. [1.1] HE, Xiao-Peng - ZENG, Ya-Li - ZANG, Yi - LI, Jia - FIELD, Robert A. - CHEN, Guo-Rong. Carbohydrate CuAAC click chemistry for therapy and diagnosis. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 429, no., pp. 1-22., Registrované v: WOS

5. [1.1] KRATKY, Martin - KONECNA, Klara - JANOUSEK, Jiri - BRABLIKOVA, Michaela - JAND'OUREK, Ondrej - TREJTAR, Frantisek - STOLARIKOVA, Jirina - VINSOVA, Jarmila. 4-Aminobenzoic Acid Derivatives: Converting Folate Precursor to Antimicrobial and Cytotoxic Agents. In *BIOMOLECULES*, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.3390/biom10010009>., Registrované v: WOS

6. [1.1] MANGSANG, Wadchara - SIRION, Uthaiwan - SAEENG, Rungrapha. Convenient one-pot synthesis of triazolelethyl-2,3-unsaturated-O-glycoside derivatives. In *TETRAHEDRON*. ISSN 0040-4020, 2015, vol. 71, no. 45, pp. 8593-8600., Registrované v: WOS

7. [1.1] STEFLOVA, Jana - STORCH, Golo - WIESNER, Sarah - STOCKINGER, Skrollan - BERG, Regina - TRAPP, Oliver. Investigation of Strain-Promoted Azide-Alkyne Cycloadditions in Aqueous Solutions by Capillary Electrophoresis. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 2, pp. 604-613., Registrované v: WOS

8. [1.1] THAKUR, Kratima - KHARE, Naveen K. Synthesis of glycoconjugate mimics by 'click chemistry'. In *CARBOHYDRATE*

- RESEARCH. ISSN 0008-6215, 2019, vol. 484, no., pp., Registrované v: WOS
9. [1.1] TIWARI, Sanjay. Mannosylated Constructs as a Platform for Cell-Specific Delivery of Bioactive Agents. In CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS. ISSN 0743-4863, 2018, vol. 35, no. 2, pp. 157-194., Registrované v: WOS
10. [1.1] TIWARI, Vinod K. - MISHRA, Bhuwan B. - MISHRA, Kunj B. - MISHRA, Nidhi - SINGH, Anoop S. - CHEN, Xi. Cu-Catalyzed Click Reaction in Carbohydrate Chemistry. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 5, pp. 3086-3240., Registrované v: WOS
11. [1.1] WU, Shaoping - YANG, Lili - SUN, Wenji - SI, Longlong - XIAO, Sulong - WANG, Qi - DECHOUX, Luc - THORIMBERT, Serge - SOLLOGOUB, Matthieu - ZHOU, Demin - ZHANG, Yongmin. Design, synthesis and biological evaluation of gentiopicroside derivatives as potential antiviral inhibitors. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 130, no., pp. 308-319., Registrované v: WOS
12. [1.2] JAHAGIRDAR, Priyanka - LOKHANDE, Amit S. - DANDEKAR, Prajakta - DEVARAJAN, Padma V. Mannose Receptor and Targeting Strategies. In AAPS Advances in the Pharmaceutical Sciences Series. ISSN 22107371, 2019-01-01, 39, pp. 433-456., Registrované v: SCOPUS
13. [1.2] SINGH, Anoop S. - MISHRA, Kunj B. - MISHRA, Amrita - TIWARI, Vinod K. Synthesis of Diverse Carbohydrate-Based Molecules using Click Chemistry. In Click Reactions in Organic Synthesis, 2016-08-29, pp. 161-201., Registrované v: SCOPUS

ADCA449 HRICOVÍNI, Michal** - MAZUR, Milan - SIRBU, Angela - PALMARCIUC, Oleg - ARION, Vladimír - BREZOVÁ, Vlasta. Copper(II) Thiosemicarbazone Complexes and Their Proligands upon UVA Irradiation: An EPR and Spectrophotometric Steady-State Study. In *Molecules*, 2018, vol. 23, art. no. 721, [17] p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules23040721>

Ohlasy:

1. [1.1] ELAMATHI, C. - FRONCZEK, Frank R. - MADANKUMAR, A. - PRABHAKARAN, R. Synthesis and spectral characterizations of water soluble Cu(ii) complexes containing N-heterocyclic chelates: cell-proliferation, antioxidant and nucleic acid/serum albumin interactions. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 10, pp. 4158-4170. Dostupné na: <https://doi.org/10.1039/c9nj04136b>., Registrované v: WOS
2. [1.1] EL-SAWAF, Ayman K. - ANOUAR, El Hassane. Nano-synthesis, spectroscopic characterization, quantum chemical calculations, thermal properties and antimicrobial activity of (E)-N'-(2-hydroxybenzylidene)morpholine-4-carbothiohydrazide ligand and its metal complexes. In INORGANICA CHIMICA ACTA. ISSN 0020-1693, 2020, vol. 500, no., pp. Dostupné na: <https://doi.org/10.1016/j.ica.2019.119221>., Registrované v: WOS
3. [1.1] KOVAC, Tihomir - SARKANJ, Bojan - CREVAR, Biljana - KOVAC, Marija - LONCARIC, Ante - STRELEC, Ivica - EZEKIEL, Chibundu N. - SULYOK, Michael - KRŠKA, Rudolf. Aspergillus flavus NRRL 3251 Growth, Oxidative Status, and Aflatoxins Production Ability In Vitro under

Different Illumination Regimes. In TOXINS. ISSN 2072-6651, 2018, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/toxins10120528>., Registrované v: WOS

4. [1.1] MURINOV, Yu. I. - GRABOVSKII, S. A. - KABAL'NOVA, N. N. Pro- and antioxidant properties of uracil derivatives. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2019, vol. 68, no. 5, pp. 946-954.

Dostupné na: <https://doi.org/10.1007/s11172-019-2505-4>., Registrované v: WOS

5. [1.2] OHUI, Kateryna - BABAK, Maria V. - DARVASIOVA, Denisa - ROLLER, Alexander - VEGH, Daniel - RAPTA, Peter - GUAN, Grace Rui Shi - OU, Yi Hsuan - PASTORIN, Giorgia - ARION, Vladimir B. Redox-Active Organoruthenium(II)- and Organoosmium(II)-Copper(II) Complexes, with an Amidrazone-Morpholine Hybrid and [CusupI/supClnf2/inf]sup-/sup as Counteranion and Their Antiproliferative Activity. In Organometallics. ISSN 02767333, 2019-05-28, 38, 10, pp. 2307-2318. Dostupné na:

<https://doi.org/10.1021/acs.organomet.9b00229>., Registrované v: SCOPUS

6. [1.2] WAHEED, Enass J. - JAAFAR, Wurood A. - AHMED, Awf A.R. VARIOUS APPLICATIONS OF CARBAZONE DERIVATIVES AND THEIR METAL COMPLEXES : A REVIEW. In Biochemical and Cellular Archives. ISSN 09725075, 2019-10-01, 19, 2, pp. 4365-4377. Dostupné na: <https://doi.org/10.35124/bca.2019.19.2.4365>., Registrované v: SCOPUS

ADCA450 HRICOVÍNI, Michal - HRICOVÍNI, Miloš. Photochemically-induced anti-syn isomerization of quinazolinone derived Schiff's bases: EPR, NMR and DFT analysis. In *Tetrahedron*, 2017, vol. 73, p. 252-261. (2016: 2.651 - IF, Q2 - JCR, 0.910 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2016.12.011>

Ohlasy:

1. [1.1] BEYAZIT, Neslihan - CAKMAK, Didem - DEMETGUL, Cahit. Chromone-based Schiff base metal complexes as catalysts for catechol oxidation: Synthesis, kinetics and electrochemical studies. In TETRAHEDRON. ISSN 0040-4020, 2017, vol. 73, no. 19, pp. 2774-2779., Registrované v: WOS

2. [1.1] KHAN, Salman A. - ASIRI, Abdullah M. Physicochemical properties of novel methyl 2-((E)-[(2-hydroxynaphthalen-1-yl)methylidene]amino)-4,5,6,7-tetrahydro-1-benzothiophene-3-carboxylate as turn-off fluorometric chemosensor for detection Fe³⁺ ion. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 243, no., pp. 85-90., Registrované v: WOS

3. [1.1] SYKULA, Anna - KOWALSKA-BARON, Agnieszka - DZEIKALA, Aliaksandr - BODZIOCH, Agnieszka - LODYGA-CHRUSCINSKA, Elzbieta. An experimental and DFT study on free radical scavenging activity of hesperetin Schiff bases. In CHEMICAL PHYSICS. ISSN 0301-0104, 2019, vol. 517, no., pp. 91-103., Registrované v: WOS

ADCA451 HRICOVÍNI, Michal - DVORANOVÁ, Dana - BARBIERIKOVÁ, Zuzana - JANTOVÁ, Soňa - BELLA, Maroš - ŠORAL, Michal - BREZOVÁ, Vlasta. 6-Nitroquinolones in dimethylsulfoxide: Spectroscopic characterization and photoactivation of molecular oxygen. In *Journal of Photochemistry and Photobiology. A: Chemistry*, 2017, vol. 332, p. 112-121. (2016: 2.625 - IF, Q2 - JCR, 0.749 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1010-6030. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2016.08.016>

Ohlasy:

1. [1.1] GONCALVES, Pablo J. - BEZZERRA, Fabio C. - TELES, Amanda - MENEZES, Lucas B. - ALVES, Kamilla M. - ALONSO, Lais - ALONSO, Antonio - ANDRADE, Maria A. - BORISSEVITCH, Iouri E. - SOUZA, Guilherme R. L. - IGLESIAS, Bernardo A. Photoinactivation of *Salmonella enterica* (serovar Typhimurium) by tetra-cationic porphyrins containing peripheral [Ru(bpy)(2)Cl](+) units. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2020, vol. 391, no., pp. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2020.112375>., Registrované v: WOS

ADCA452 HRICOVÍNI, Miloš - GUERRINI, M. - BISIO, A. - TORRI, G. - NAGGI, A. - CASU, B. Active conformations of glycosaminoglycans. NMR determination of the conformation of heparin sequences complexed with antithrombin and fibroblast growth factors in solution. In *Seminars in Thrombosis and Hemostasis*, 2002, vol. 28, p. 325-334. ISSN 0094-6176.

Ohlasy:

1. [1.1] DEVLIN, Anthony - MYCROFT-WEST, Courtney - PROCTER, Patricia - COOPER, Lynsay - GUIMOND, Scott - LIMA, Marcelo - YATES, Edwin - SKIDMORE, Mark. Tools for the Quality Control of Pharmaceutical Heparin. In MEDICINA-LITHUANIA. ISSN 1010-660X, 2019, vol. 55, no. 10, pp., Registrované v: WOS

2. [1.1] HETTIARATCHI, M. H. - GULDBERG, R. E. - MCDEVITT, T. C. Biomaterial strategies for controlling stem cell fate via morphogen sequestration. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2016, vol. 4, no. 20, pp. 3464-3481., Registrované v: WOS

3. [1.1] KRIEGER, J. R. - OGLE, M. E. - MCFALINE-FIGUEROA, J. - SEGAR, C. E. - TEMENOFF, J. S. - BOTCHWEY, E. A. Spatially localized recruitment of anti-inflammatory monocytes by SDF-1 alpha-releasing hydrogels enhances microvascular network remodeling. In BIOMATERIALS. ISSN 0142-9612, 2016, vol. 77, no., pp. 280-290., Registrované v: WOS

4. [1.1] MOURIER, Pierre A. J. - AGUT, Christophe - SOUAIFI-AMARA, Hajer - HERMAN, Frederic - VISKOV, Christian. Analytical and statistical comparability of generic enoxaparin from the US market with the originator product. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2015, vol. 115, no., pp. 431-442., Registrované v: WOS

5. [1.1] SATTELLE, Benedict M. - SHAKERI, Javad - CLIFF, Matthew J. - ALMOND, Andrew. Proteoglycans and Their Heterogeneous Glycosaminoglycans at the Atomic Scale. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 3, pp. 951-961., Registrované v: WOS

ADCA453 HRICOVÍNI, Miloš - SCHOLTZOVÁ, Eva - BÍZIK, F. B3LYP/6-311++G** study of structure and spin-spin coupling constant in heparin disaccharide. In *Carbohydrate Research*, 2007, vol. 342, no. 10, p. 1350-1356. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.03.020>

Ohlasy:

1. [1.1] BESTAOUI-BERREKHCHI-BERRAHMA, N. - SPRINGBORG, M. - BERREKHCHI-BERRAHMA, C. A. - SEKKAL-RAHAL,

M. DFT and MP2 conformational study of 3,6-anhydro- α -D-galactose in gas phase and in aqueous solvent. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1126, no., pp. 44-53., Registrované v: WOS

ADCA454 HRICOVÍNI, Miloš. B3LYP/6-311++G** study of structure and spin-spin constant in methyl 2-O-sulfo- α -L-iduronate. In *Carbohydrate Research*, 2006, vol. 341, p. 2575-2580. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.07.010>

Ohlasy:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS
2. [1.1] SAMSONOV, Sergey A. - BICHMANN, Leon - PISABARRO, M. Teresa. Coarse-Grained Model of Glycosaminoglycans. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2015, vol. 55, no. 1, pp. 114-124., Registrované v: WOS
3. [1.1] WHITFIELD, Dennis M. In a glycosylation reaction how does a hydroxylic nucleophile find the activated anomeric carbon? In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 403, no., pp. 69-89., Registrované v: WOS

ADCA455 HRICOVÍNI, Miloš - MALKINA, Olga - BÍZIK, F. - TURI NAGY, L. - MALKIN, Vladimír. Calculation of NMR chemical shifts and spin-spin coupling constants in the monosaccharide methyl- β -D-xylopyranoside using a density functional theory approach. In *Journal of physical chemistry. A. Molecules, spectroscopy, kinetics, environment, and general theory*, 1997, vol. 101, no. 50, p. 9756-9762. ISSN 1089-5639.

Ohlasy:

1. [1.1] GERBST, Alexey G. - KRYLOV, Vadim B. - ARGUNOV, Dmitry A. - SOLOVEV, Arsenii S. - DMITRENOK, Andrey S. - SHASHKOV, Alexander S. - NIFANTIEV, Nikolay E. Ring distortion in pyranosides caused by per-O-sulfation. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 436, no., pp. 20-24., Registrované v: WOS
2. [1.1] NAVARRO, Gabriel - CUMMINGS, Susie - LEE, John - MOSS, Nathan - GLUKHOV, Evgenia - VALERIOTE, Frederick A. - GERWICK, Lena - GERWICK, William H. Isolation of Polycavernoside D from a Marine Cyanobacterium. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*. ISSN 2328-8930, 2015, vol. 2, no. 7, pp. 166., Registrované v: WOS
3. [1.1] RUSAKOVA, Irina L. - RUSAKOV, Yurii Yu - KRIVDIN, Leonid B. Theoretical grounds of relativistic methods for calculation of spin spin coupling constants in nuclear magnetic resonance spectra. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2016, vol. 85, no. 4, pp. 356., Registrované v: WOS

ADCA456 HRICOVÍNI, Miloš - GUERRINI, M. - BISIO, O. - TORRI, G. - PETITOU, M. - CASU, B. Conformation of heparin pentasaccharide bound to antithrombin III. In *Biochemical Journal*, 2001, vol. 359, p. 265-272. ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/0264-6021:3590265>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BRYCE, Richard A. Ring Puckering Landscapes of Glycosaminoglycan-Related Monosaccharides from Molecular Dynamics Simulations. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2019, vol. 59, no. 11, pp. 4729-4741., Registrované v: WOS
2. [1.1] DE WILDT, William - KOOIJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. Extended Physicochemical Characterization of the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS
3. [1.1] DEMETER, Fruzsina - GYONGYOSI, Tamas - BERECHKY, Zsuzsanna - KOVER, Katalin E. - HERCZEG, Mihaly - BORBAS, Aniko. Replacement of the L-iduronic acid unit of the anticoagulant pentasaccharide idraparinux by a 6-deoxy-L-talopyranose Synthesis and conformational analysis. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
4. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
5. [1.1] GORLE, Anil Kumar - KATNER, Samantha J. - JOHNSON, Wyatt E. - LEE, Daniel E. - DANIEL, A. Gerard - GINSBURG, Eric P. - VON ITZSTEIN, Mark - BERNERS-PRICE, Susan J. - FARRELL, Nicholas P. Substitution-Inert Polynuclear Platinum Complexes as Metalloshielding Agents for Heparan Sulfate. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 25, pp. 6606-6616., Registrované v: WOS
6. [1.1] GULBERTI, Sandrine - MAO, Xianqing - BUI, Catherine - FOURNEL-GIGLEUX, Sylvie. The role of heparan sulfate maturation in cancer: A focus on the 3O-sulfation and the enigmatic 3O-sulfotransferases (HS3STs). In *SEMINARS IN CANCER BIOLOGY*. ISSN 1044-579X, 2020, vol. 62, no., pp. 68-85. Dostupné na: <https://doi.org/10.1016/j.semcancer.2019.10.009>., Registrované v: WOS
7. [1.1] KALTNER, Herbert - ABAD-RODRIGUEZ, Jose - CORFIELD, Anthony P. - KOPITZ, Juergen - GABIUS, Hans-Joachim. The sugar code: letters and vocabulary, writers, editors and readers and biosignificance of functional glycan-lectin pairing. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2019, vol. 476, no., pp. 2623-2655., Registrované v: WOS
8. [1.1] KITIC, Nikola - GSCHWANDTNER, Martha - DERLER, Rupert - GERLZA, Tanja - KUNGL, Andreas J. Preparation and Characterization of Glycosaminoglycan Chemokine Coreceptors. In *CHEMOKINES*. ISSN 0076-6879, 2016, vol. 570, no., pp. 517-538., Registrované v: WOS
9. [1.1] MOURIER, Pierre A. J. - AGUT, Christophe - SOUAIFI-AMARA, Hajer - HERMAN, Frederic - VISKOV, Christian.

Analytical and statistical comparability of generic enoxaparins from the US market with the originator product. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2015, vol. 115, no., pp. 431-442., Registrované v: WOS

10. [1.1] MOURIER, Pierre A. J. - GUICHARD, Olivier Y. - HERMAN, Frederic - SIZUN, Philippe - VISKOV, Christian. New Insights in Thrombin Inhibition Structure-Activity Relationships by Characterization of Octadecasaccharides from Low Molecular Weight Heparin. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS

11. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Perspective on computational simulations of glycosaminoglycans. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS

12. [1.1] PETERSON, Erica J. - BERNERS-PRICE, Susan J. - BEZOS, Anna - BOHLMAN, Lisa - KATNER, Samantha J. - DANIEL, A. Gerard - CHANG, Chih-Wei - VON ITZSTEIN, Mark - PARISH, Christopher R. - FARRELL, Nicholas P. Antiangiogenic platinum through glycan targeting. In CANCER RESEARCH. ISSN 0008-5472, 2015, vol. 75, no., pp., Registrované v: WOS

13. [1.1] QIAO, Meng - LIN, Lei - XIA, Ke - LI, Jun - ZHANG, Xing - LINHARDT, Robert J. Recent advances in biotechnology for heparin and heparan sulfate analysis. In TALANTA. ISSN 0039-9140, 2020, vol. 219, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121270>., Registrované v: WOS

14. [1.1] SATTELLE, Benedict M. - SHAKERI, Javad - CLIFF, Matthew J. - ALMOND, Andrew. Proteoglycans and Their Heterogeneous Glycosaminoglycans at the Atomic Scale. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 3, pp. 951-961., Registrované v: WOS

15. [1.1] SCHWARZ, Markus - SKRINJAR, Philipp - FINK, Michael J. - KRONISTER, Stefan - MECHTLER, Thomas - KOUKOS, Panagiotis - BONVIN, Alexandre M. J. J. - KASPER, David C. - MIKULA, Hannes. A click-flipped enzyme substrate boosts the performance of the diagnostic screening for Hunter syndrome. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 47, pp. Dostupné na: <https://doi.org/10.1039/d0sc04696e>., Registrované v: WOS

16. [1.1] WANG, Xu. NMR Studies of Protein-Glycosaminoglycan Interactions. In NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 2044-253X, 2017, vol. 10, no., pp. 250-268., Registrované v: WOS

17. [1.1] YANG, Jiyuan - CHI, Lianli. Characterization of structural motifs for interactions between glycosaminoglycans and proteins. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 54-63., Registrované v: WOS

18. [1.2] PETERSON, Erica J. - DANIEL, A. Gerard - KATNER, Samantha J. - BOHLMANN, Lisa - CHANG, Chih Wei - BEZOS, Anna - PARISH, Christopher R. - VON ITZSTEIN, Mark - BERNERS-PRICE, Susan J. - FARRELL, Nicholas P. Antiangiogenic platinum through glycan targeting. In Chemical Science. ISSN 20416520, 2016-01-01, 8, 1, pp. 241-252., Registrované v: SCOPUS

ADCA457 HRICOVÍNI, Miloš - SHAH, R. N. - CARVER, J. P. Detection of internal motions in oligosaccharides by ¹H relaxation measurements at different magnetic fields. In *Biochemistry*, 1992, vol. 31, .p. 10018-10023. ISSN 0006-2960. Dostupné na: <https://doi.org/10.1021/bi00156a022>

Ohlasy:

1. [1.1] VIDAL, Paloma - JIMENEZ-BARBERO, Jesus - ESPINOSA, Juan F. Conformational flexibility around the Gal-beta-(1> 3)-Glc linkage: Experimental evidence for the existence of the anti-psi conformation in aqueous solution. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 433, no., pp. 36-40., Registrované v: WOS

ADCA458 HRICOVÍNI, Miloš - TORRI, G. Dynamics in aqueous solutions of pentasaccharide corresponding to the binding site of heparin for antithrombin III studied by NMR relaxation measurement. In *Carbohydrate Research*, 1995, vol. 268, p. 159-175. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00334-C](https://doi.org/10.1016/0008-6215(94)00334-C)

Ohlasy:

1. [1.1] ELLI, Stefano - STANCANELLI, Eduardo - WANG, Zhangjie - PETITOU, Maurice - LIU, Jian - GUERRINI, Marco. Degeneracy of the Antithrombin Binding Sequence in Heparin: 2-O-Sulfated Iduronic Acid Can Replace the Critical Glucuronic Acid. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2020, vol. 26, no. 51, pp. 11814-11818. Dostupné na: <https://doi.org/10.1002/chem.202001346>., Registrované v: WOS

2. [1.1] MILLER, Rebecca L. - WEI, Wei - SCHWOERER, Ralf - ZUBKOVA, Olga V. - TYLER, Peter C. - TURNBULL, Jeremy E. - LEARY, Julie A. Composition, sequencing and ion mobility mass spectrometry of heparan sulfate-like octasaccharide isomers differing in glucuronic and iduronic acid content. In *EUROPEAN JOURNAL OF MASS SPECTROMETRY*. ISSN 1469-0667, 2015, vol. 21, no. 3, pp. 245-254., Registrované v: WOS

3. [1.1] SCHNUR, Einat - RUDD, Timothy R. The interaction between oxytocin and heparin. In *RSC ADVANCES*, 2020, vol. 10, no. 47, pp. 28300-28313. Dostupné na: <https://doi.org/10.1039/d0ra04204h>., Registrované v: WOS

4. [1.1] SINGH, Arunima - TESSIER, Matthew B. - PEDERSON, Kari - WANG, Xiacong - VENOT, Andre P. - BOONS, Geert-Jan - PRESTEGARD, James H. - WOODS, Robert J. Extension and validation of the GLYCAM force field parameters for modeling glycosaminoglycans. In *CANADIAN JOURNAL OF CHEMISTRY*. ISSN 0008-4042, 2016, vol. 94, no. 11, pp. 927-935., Registrované v: WOS

5. [1.1] ZHANG, Yiran - ZHANG, Meng - TAN, Lijuan - PAN, Nana - ZHANG, Lijuan. The clinical use of Fondaparinux: A synthetic heparin pentasaccharide. In *GLYCANS AND GLYCOSAMINOGLYCANS AS CLINICAL BIOMARKERS AND THERAPEUTICS*, PT B. ISSN 1877-1173, 2019, vol. 163, no., pp. 41-53., Registrované v: WOS

6. [1.2] DÍAZ, Dolores - CANALES-MAYORDOMO, Angeles - JAVIER CAÑADA, F. - JIMÉNEZ-BARBERO, Jesús. Solution conformation of carbohydrates: A view by using NMR assisted by modeling. In *Methods in Molecular Biology*. ISSN 10643745, 2015-01-01, 1273, pp. 261-287., Registrované v: SCOPUS

ADCA459 HRICOVÍNI, Miloš. Effect of solvent and counterions upon structure and NMR spin - spin coupling constants in heparin disaccharide. In *Journal of physical chemistry B*. Materials, surfaces, interfaces, and biophysical, 2011, vol. 115, p. 1503-1511. (2010: 3.603 - IF, Q2 - JCR, 1.881 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp1098552>

Ohlasy:

1. [1.1] ALIPOUR, Mojtaba - FALLAHZADEH, Parisa. First principles optimally tuned range-separated density functional theory for prediction of phosphorus-hydrogen spin-spin coupling constants. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2016, vol. 18, no. 27, pp. 18431-18440., Registrované v: WOS
2. [1.1] ALIPOUR, Mojtaba. How reliable are Minnesota density functionals for modeling phosphorus-hydrogen NMR spin-spin coupling constants? In THEORETICAL CHEMISTRY ACCOUNTS. ISSN 1432-881X, 2017, vol. 137, no. 1, pp., Registrované v: WOS
3. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
4. [1.1] GHIASI, Mina - KAMALINAHAD, Saeedeh. Conformational Analysis of Topiramate and Related Anion in the Solution and Interaction Between the Most Stable Conformer of Topiramate with Active Center of Carbonic Anhydrase Enzyme. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2015, vol. 34, no. 2, pp. 80-102., Registrované v: WOS
5. [1.1] MENEGHETTI, Maria C. Z. - HUGHES, Ashley J. - RUDD, Timothy R. - NADER, Helena B. - POWELL, Andrew K. - YATES, Edwin A. - LIMA, Marcelo A. Heparan sulfate and heparin interactions with proteins. In JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689, 2015, vol. 12, no. 110, pp., Registrované v: WOS
6. [1.1] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In PHARMACOLOGICAL REVIEWS. ISSN 0031-6997, 2016, vol. 68, no. 1, pp. 76-141., Registrované v: WOS
7. [1.1] REMKO, Milan - BROER, Ria - REMKOVA, Anna - VAN DUIJNEN, Piet Th. How strong are Ca²⁺-heparin and Zn²⁺-heparin interactions? In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, 2015, vol. 621, no., pp. 12-17., Registrované v: WOS
8. [1.1] SOARES, Paulo A. G. - QUEIROZ, Ismael N. L. - SANTOS, Gustavo R. C. - MOURAO, Paulo A. S. - POMIN, Vitor H. NMR-based conformation and dynamics of a tetrasaccharide-repeating sulfated fucan substituted by different counterions. In BIOPOLYMERS. ISSN 0006-3525, 2016, vol. 105, no. 11, pp. 840-851., Registrované v: WOS
9. [1.1] YATES, Edwin A. - RUDD, Timothy R. Recent innovations in the structural analysis of heparin. In INTERNATIONAL JOURNAL OF CARDIOLOGY. ISSN 0167-5273, 2016, vol. 212, no., pp. S5-S9., Registrované v: WOS
10. [1.2] ALIPOUR, Mojtaba. How reliable are Minnesota density functionals for modeling phosphorus-hydrogen NMR spin-spin coupling

constants? In Theoretical Chemistry Accounts. ISSN 1432881X, 2018-01-01, 137, 1, pp., Registrované v: SCOPUS

ADCA460 HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Oľga. NMR and DFT analysis of trisaccharide from heparin repeating sequence. In *Journal of Physical Chemistry B*, 2014, vol. 118, no. 41, p. 11931-11942. (2013: 3.377 - IF, Q2 - JCR, 1.494 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp508045n>

Ohlasy:

1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2018, vol. 50, no., pp. 58-64., Registrované v: WOS
2. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
3. [1.1] HUANG, Teng-Yi - IRENE, Deli - ZULUETA, Medel Manuel L. - TAI, Tzu-Jui - LAIN, Shih-Han - CHENG, Cheng-Po - TSAI, Ping-Xi - LIN, Shu-Yi - CHEN, Zhi-Geng - KU, Chiao-Chu - HSIAO, Chwan-Deng - CHYAN, Chia-Lin - HUNG, Shang-Cheng. Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2017, vol. 56, no. 15, pp. 4192-4196., Registrované v: WOS
4. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS
5. [1.1] MOHAMED, Slim Hadj - TRABELSI, Mahmoud - CHAMPAGNE, Benoit. Assigning the stereochemistry of syn and anti beta-trimethylsiloxy-alpha-trimethylsilyl alkanoic acid silyl esters using GIAO H-1 NMR chemical shift calculations. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2017, vol. 1141, no., pp. 436-440., Registrované v: WOS
6. [1.1] MOHAMED, Slim Hadj - QUERTINMONT, Jean - DELBAERE, Stephanie - SANGUINET, Lionel - CHAMPAGNE, Benoit. Assessing the Structure of Octastate Molecular Switches Using H-1 NMR Density Functional Theory Calculations. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, 2018, vol. 122, no. 3, pp. 1800-1808., Registrované v: WOS
7. [1.1] PANDEY, Poonam - AYTENFISU, Asaminew H. - MACKERELL, Alexander D. - MALLAJOSYULA, Sairam S. Drude Polarizable Force Field Parametrization of Carboxylate and N-Acetyl Amine Carbohydrate Derivatives. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2019, vol. 15, no. 9, pp. 4982-5000., Registrované v: WOS
8. [1.1] RUBINSON, Kenneth A. - CHEN, Yin - CRESS, Brady F. - ZHANG, Fuming - LINHARDT, Robert J. Heparin's solution structure determined by small-angle neutron scattering. In BIOPOLYMERS. ISSN

0006-3525, 2016, vol. 105, no. 12, pp. 905., Registrované v: WOS

9. [1.1] YATES, Edwin A. - RUDD, Timothy R. Recent innovations in the structural analysis of heparin. In *INTERNATIONAL JOURNAL OF CARDIOLOGY*. ISSN 0167-5273, 2016, vol. 212, no., pp. S5-S9., Registrované v: WOS

ADCA461 HRICOVÍNÍ, Miloš - BÍZIK, F. Relationship between structure and three-bond proton-proton coupling constants in glycosaminoglycans. In *Carbohydrate Research*, 2007, vol.342, p.779-783. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.01.003>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BRYCE, Richard A. Ring Puckering Landscapes of Glycosaminoglycan-Related Monosaccharides from Molecular Dynamics Simulations. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2019, vol. 59, no. 11, pp. 4729-4741., Registrované v: WOS

2. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS

3. [1.1] HE, Qi Qi - TRIM, Paul J. - SNEL, Marten F. - HOPWOOD, John J. - FERRO, Vito. Synthesis and mass spectrometric analysis of disaccharides from methanolysis of heparan sulfate. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 45, pp. 8791-8803., Registrované v: WOS

4. [1.1] HE, Qi Qi - TRIM, Paul J. - LAU, Adeline A. - KING, Barbara M. - HOPWOOD, John J. - HEMSLEY, Kim M. - SNEL, Marten F. - FERRO, Vito. Synthetic Disaccharide Standards Enable Quantitative Analysis of Stored Heparan Sulfate in MPS IIIA Murine Brain Regions. In *ACS CHEMICAL NEUROSCIENCE*. ISSN 1948-7193, 2019, vol. 10, no. 8, pp. 3847-3858., Registrované v: WOS

5. [1.1] HUANG, Teng-Yi - IRENE, Deli - ZULUETA, Medel Manuel L. - TAI, Tzu-Jui - LAIN, Shih-Han - CHENG, Cheng-Po - TSAI, Ping-Xi - LIN, Shu-Yi - CHEN, Zhi-Geng - KU, Chiao-Chu - HSIAO, Chwan-Deng - CHYAN, Chia-Lin - HUNG, Shang-Cheng. Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2017, vol. 56, no. 15, pp. 4192-4196., Registrované v: WOS

ADCA462 HRICOVÍNÍ, Miloš. Solution structure of heparin pentasaccharide: NMR and DFT analysis. In *Journal of Physical Chemistry B*, 2015, vol. 119, p. 12397-12409. (2014: 3.302 - IF, Q2 - JCR, 1.449 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcb.5b07046>

Ohlasy:

1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In *CURRENT*

OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2018, vol. 50, no., pp. 58-64., Registrované v: WOS

2. [1.1] BAMRUNGSAP, Suwussa - CHERNGSUWANWONG, Jarumeth - SRISURAT, Petpimon - CHONIRAT, Jaruwan - SANGSING, Natcha - WIRIYACHAIPORN, Natpapas. Visual colorimetric sensing system based on the self-assembly of gold nanorods and graphene oxide for heparin detection using a polycationic polymer as a molecular probe. In ANALYTICAL METHODS. ISSN 1759-9660, 2019, vol. 11, no. 10, pp. 1387-1392., Registrované v: WOS

3. [1.1] CAPUTO, Hannah E. - STRAUB, John E. - GRINSTAFF, Mark W. Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2019, vol. 48, no. 8, pp. 2338-2365., Registrované v: WOS

4. [1.1] DE WILDT, William - KOOIJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. Extended Physicochemical Characterization of the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS

5. [1.1] DEVLIN, Anthony - MYCROFT-WEST, Courtney - PROCTER, Patricia - COOPER, Lynsay - GUIMOND, Scott - LIMA, Marcelo - YATES, Edwin - SKIDMORE, Mark. Tools for the Quality Control of Pharmaceutical Heparin. In MEDICINA-LITHUANIA. ISSN 1010-660X, 2019, vol. 55, no. 10, pp., Registrované v: WOS

6. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS

7. [1.1] HSIEH, Po-Hung - THIEKER, David F. - GUERRINI, Marco - WOODS, Robert J. - LIU, Jian. Uncovering the Relationship between Sulphation Patterns and Conformation of Iduronic Acid in Heparan Sulphate. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

8. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS

9. [1.1] CHASHMNIAM, Saeed - TAFAZZOLI, Mohsen. NMR investigation and theoretical calculations of the solvent effect on the conformation of valsartan. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2017, vol. 1148, no., pp. 73-80., Registrované v: WOS

10. [1.1] CHASHMNIAM, Saeed - TAFAZZOLI, Mohsen. Conformation of repaglinide: A solvent dependent structure. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2017, vol. 1143, no., pp. 388-396., Registrované v: WOS

11. [1.1] CHASHMNIAM, S. - TAFAZZOLI, M. Conformation of gemcitabine: An experimental NMR and theoretical DFT study. In SCIENTIA IRANICA. ISSN 1026-3098, 2018, vol. 25, no. 3, pp. 1354-1363., Registrované

v: WOS

12. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Perspective on computational simulations of glycosaminoglycans. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS

13. [1.1] PANDEY, Poonam - AYTFENFISU, Asaminew H. - MACKERELL, Alexander D. - MALLAJOSYULA, Sairam S. Drude Polarizable Force Field Parametrization of Carboxylate and N-Acetyl Amine Carbohydrate Derivatives. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2019, vol. 15, no. 9, pp. 4982-5000., Registrované v: WOS

14. [1.1] STELLING, Mariana P. - MOTTA, Juliana M. - MASHID, Marjon - JOHNSON, Wyatt E. - PAVAO, Mauro S. - FARRELL, Nicholas P. Metal ions and the extracellular matrix in tumor migration. In FEBS JOURNAL. ISSN 1742-464X, 2019, vol. 286, no. 15, pp. 2950-2964., Registrované v: WOS

15. [1.1] YATES, Edwin A. - RUDD, Timothy R. Recent innovations in the structural analysis of heparin. In INTERNATIONAL JOURNAL OF CARDIOLOGY. ISSN 0167-5273, 2016, vol. 212, no., pp. S5-S9., Registrované v: WOS

ADCA463 HRICOVÍNI, Miloš** - HRICOVÍNI, Michal. Solution conformation of heparin tetrasaccharide. DFT analysis of structure and spin-spin Coupling constants. In *Molecules*, 2018, vol. 23, art. no. 3042, 12s. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules23113042>

Ohlasy:

1. [1.1] TOWNSEND, David - FULLWOOD, Nigel J. - YATES, Edwin A. - MIDDLETON, David A. Aggregation Kinetics and Filament Structure of a Tau Fragment Are Influenced by the Sulfation Pattern of the Cofactor Heparin. In BIOCHEMISTRY. ISSN 0006-2960, 2020, vol. 59, no. 41, pp. 4003-4014.

Dostupné na: <https://doi.org/10.1021/acs.biochem.0c00443>., Registrované v: WOS

2. [1.1] YATES, Edwin A. - GALLAGHER, John T. - GUERRINI, Marco. Introduction to the Molecules Special Edition Entitled 'Heparan Sulfate and Heparin: Challenges and Controversies': Some Outstanding Questions in Heparan Sulfate and Heparin Research. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 7, pp., Registrované v: WOS

ADCA464 HRICOVÍNI, Miloš. Structural aspects of carbohydrates and the relation with their biological properties. In *Current Medicinal Chemistry*, 2004, vol. 11, p. 2565-2583. ISSN 0929-8673. Dostupné na: <https://doi.org/10.2174/0929867043364414>

Ohlasy:

1. [1.1] PILLEGOWDA, Manohar - PERIYASAMY, Ganga. DFT studies on interaction between bimetallic [Au₂M] clusters and cellobiose. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2018, vol. 1129, no., pp. 26-36., Registrované v: WOS

2. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21,

no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>., Registrované v: WOS

3. [1.1] STROYLOV, Victor - PANOVA, Maria - TOUKACH, Philip. Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 20, pp. Dostupné na:

<https://doi.org/10.3390/ijms21207626>., Registrované v: WOS

4. [1.2] LIU, Xian wei - LI, Lei - GAO, Hai tao - DANG, Li jun - WANG, Peng George. Synthesis and modification of carbohydrates via metabolic pathway engineering in microorganisms. In *Handbook of Carbohydrate-Modifying Biocatalysts*, 2016-07-11, 2, pp. 657-682., Registrované v: SCOPUS

5. [1.2] WANG, Lidan - ZHU, Xiaomin - HONG, Changye - CHEN, Zhaoyang - HUANG, Lixin. The Characteristics and the Application in Steamed Bread of Corn Starch Sugar. In *Journal of the Chinese Cereals and Oils Association*. ISSN 10030174, 2018-09-25, 33, 9, pp. 42-47., Registrované v: SCOPUS

ADCA465 HRICOVÍNI, Miloš. Structural aspects of carbohydrates and their relation with their biological properties. In *Current Medicinal Chemistry*, 2004, vol. 11, p. 2565-2583. ISSN 0929-8673.

Ohlasy:

1. [1.1] EGOROVA, K. S. - KALINCHUK, N. A. - KNIREL, Yu. A. - TOUKACH, Ph. V. Carbohydrate Structure Database (CSDB): new features. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2015, vol. 64, no. 5, pp. 1205-1210., Registrované v: WOS

2. [1.1] VITNIK, Zeljko J. - FABIAN, Walter M. F. Ring- and side-group conformational properties of di-O-acylated xylopyranosides: A computational study. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2015, vol. 1051, no., pp. 104-109., Registrované v: WOS

3. [1.2] SCHILLER, J. - BECHER, J. - MÖLLER, S. - LEMMNITZER, K. - RIEMER, T. - SCHNABELRAUCH, M. Characterization and chemical modification of glycosaminoglycans of the extracellular matrix. In *Sulfated Polysaccharides*, 2015-07-01, pp. 73-106., Registrované v: SCOPUS

4. [1.2] TOUKACH, Philip - EGOROVA, Ksenia. Bacterial, plant, and fungal carbohydrate structure database (Csdb). In *Glycoscience: Biology and Medicine*, 2015-01-01, pp. 241-250., Registrované v: SCOPUS

ADCA466 HRICOVÍNI, Miloš - GUERRINI, M. - BISIO, A. Structure of heparin-derived tetrasaccharide complexed to the plasma protein antithrombin derived from NOEs, J-couplings and chemical shifts. In *European Journal of Biochemistry*, 1999, vol. 261, p. 789-801. (1998: 3.249 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0014-2956. Dostupné na: <https://doi.org/10.1046/j.1432-1327.1999.00335.x>

Ohlasy:

1. [1.1] CHOLLET, Lucas - SABOURAL, Pierre - CHAUVIERRE, Cedric - VILLEMIN, Jean-Noel - LETOURNEUR, Didier - CHAUBET, Frederic. Fucoidans in Nanomedicine. In *MARINE DRUGS*. ISSN 1660-3397, 2016, vol. 14, no. 8, pp., Registrované v: WOS

2. [1.1] MOTHERE, Mouna - SINGABRAYA, Dominique - DRIGUEZ, Pierre-Alexandre - SENERIZ, Fernando - PAPY-GARCIA, Dulce. Poly(ethylene glycol acrylate)-functionalized hydrogels for heparan sulfate oligosaccharide recognition. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2017, vol. 30, no. 3, pp., Registrované v: WOS

ADCA467 HRICOVÍNIOVÁ, Jana - ŠEVČOVIČOVÁ, Andrea - HRICOVÍNIOVÁ, Zuzana^{**}. Evaluation of the genotoxic, DNA-protective and antioxidant profile of synthetic alkyl gallates and gallotannins using in vitro assays. In *Toxicology in Vitro : the official journal of the European Society for Toxicology in Vitro*, 2020, vol. 65, art. no. 104789 [11] p. (2019: 2.959 - IF, Q2 - JCR, 0.799 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0887-2333. Dostupné na: <https://doi.org/10.1016/j.tiv.2020.104789>

Ohlasy:

1. [1.1] KOSTYUK, Svetlana V. - PROSKURNINA, Elena V. - SAVINOVA, Ekaterina A. - ERSHOVA, Elizaveta S. - KRAEVAYA, Olga A. - KAMENEVA, Larisa V. - UMRUYKHIN, Pavel E. - DOLGIKH, Olga A. - KUTSEV, Sergey I. - TROSHIN, Pavel A. - VEIKO, Natalia N. Effects of Functionalized Fullerenes on ROS Homeostasis Determine Their Cytoprotective or Cytotoxic Properties. In NANOMATERIALS, 2020, vol. 10, no. 7, pp. 1405, Registrované v: WOS
2. [1.2] AL ZAHIRANI, Nourah A. - EL-SHISHTAWY, Reda M. - ASIRI, Abdullah M. Recent developments of gallic acid derivatives and their hybrids in medicinal chemistry: A review. In European Journal of Medicinal Chemistry. ISSN 02235234, 2020-10-15, 204, pp., Registrované v: SCOPUS

ADCA468 HRICOVÍNIOVÁ, Zuzana. A new approach to Amadori ketoses via Mo VI-catalyzed stereospecific isomerization of 2-C-branched sugars bearing azido function in a microwave field. In *Tetrahedron : Asymmetrie*, 2010, vol. 21, p. 2238-2243. (2009: 2.625 - IF, Q2 - JCR, 1.294 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2010.07.027>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
2. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA469 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš. A new type of rearrangement in branched-chain carbohydrates: isomerization of 3-C-branched aldoses. In *Carbohydrate Research*, 2012, vol. 370, p. 1-8. (2011: 2.332 - IF, Q2 - JCR, 0.762 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2012.12.014>

Ohlasy:

1. [1.1] KONDOR, Zoltan - HERCZEG, Mihaly - BORBAS, Aniko -

PATONAY, Tamas - KONYA, Krisztina. Application of Carbohydrates with Methylene or Vinyl Groups in Heck-Mizoroki Cross-Coupling Reactions with O-Heterocycles. In SYNLETT. ISSN 0936-5214, 2016, vol. 27, no. 19, pp. 2709-2715., Registrované v: WOS

ADCA470 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš. An efficient of novel L-rhamnose based non-ionic surfactants under controlled microwave irradiation. In *Tetrahedron : Asymmetry*, 2014, vol. 25, p. 1008-1014. (2013: 2.165 - IF, Q2 - JCR, 0.965 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2014.05.012>

Ohlasy:

1. [1.1] ROBINEAU, Mathilde - LE GUENIC, Sarah - SANCHEZ, Lisa - CHAVERIAT, Ludovic - LEQUART, Vincent - JOLY, Nicolas - CALONNE, Maryline - JACQUARD, Cedric - DECLERCK, Stephane - MARTIN, Patrick - DOREY, Stephan - BARKA, Essaid Ait. Synthetic Mono-Rhamnolipids Display Direct Antifungal Effects and Trigger an Innate Immune Response in Tomato against Botrytis Cinerea. In MOLECULES, 2020, vol. 25, no. 14, pp. Dostupné na: <https://doi.org/10.3390/molecules25143108>., Registrované v: WOS

ADCA471 HRICOVÍNIOVÁ, Zuzana. Isomerization as a route to rare ketoses: the beneficial effect of microwave irradiation on Mo(VI)- catalyzed stereospecific rearrangement. In *Tetrahedron : Asymmetrie*, 2008, vol. 19, p. 204-208. (2007: 2.634 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2007.11.025>

Ohlasy:

1. [1.1] LORILLIERE, Marion - DUMOULIN, Romain - L'ENFANT, Melanie - RAMBOURDIN, Agnes - THERY, Vincent - NAUTON, Lionel - FESSNER, Wolf-Dieter - CHARMANTRAY, Franck - HECQUET, Laurence. Evolved Thermostable Transketolase for Stereoselective Two-Carbon Elongation of Non-Phosphorylated Aldoses to Naturally Rare Ketoses. In ACS CATALYSIS. ISSN 2155-5435, 2019, vol. 9, no. 6, pp. 4754-4763., Registrované v: WOS

2. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA472 HRICOVÍNIOVÁ, Zuzana - ZALIBERA, M. - HRICOVÍNÍ, Miloš. Microwave-assisted regioselective synthesis and isomerization of 6-O-iso-vanillyl hexoses and studies of their activities as radical scavengers by EPR spectroscopy. In *Tetrahedron : Asymmetrie*, 2010, vol. 21, p. 756-761. (2009: 2.625 - IF, Q2 - JCR, 1.294 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2010.04.020>

Ohlasy:

1. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA473 HRICOVÍNIOVÁ, Zuzana. Microwave-assisted stereospecific intramolecular rearrangement of (1-6)-linked disaccharides catalyzed by Mo(VI). In *Tetrahedron : Asymmetrie*, 2008, vol19., p. 1853-1856. (2007: 2.634 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR). ISSN 0957-4166.

Ohlasy:

- [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA474 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Michal - BREZOVÁ, Vlasta - MAGDOLEN, Peter. New series of N-aryl- and N-heteroaryl-D-glucuronamides as potential anticancer agents: synthesis and spectroscopic analysis. In *Tetrahedron : Asymmetry*, 2016, vol. 27, p. 361-368. (2015: 2.108 - IF, Q2 - JCR, 0.769 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2016.02.015>

Ohlasy:

- [1.1] HAO, Shuang - LIN, Shuai - WANG, Xin - AN, Ran - GUO, Mengbi - WANG, Yuanxin - CHENG, Xue - XU, Hang - YANG, Xiaoguang - HOU, Zhuang - GUO, Chun. Sequential one-pot synthesis of (1> 6) amide-linked oligosaccharide mimetics under mild conditions. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2020, vol. 39, no. 5-6, pp. 267-287. Dostupné na: <https://doi.org/10.1080/07328303.2020.1798456>., Registrované v: WOS

ADCA475 HRICOVÍNIOVÁ, Zuzana. Rapid, one pot preparation of D-mannose and D-mannitol starch: the effect of microwave irradiation and Mo VI catalyst. In *Tetrahedron : Asymmetrie*, 2011, vol. 22, p. 1184-1188. (2010: 2.484 - IF, Q2 - JCR, 1.301 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2011.06.006>

Ohlasy:

- [1.1] DAS, Subrata - BANIK, Rupak - KUMAR, Brajesh - ROY, Subhadip - NOORUSSABAH - AMHAD, Khursheed - SUKUL, Pradip K. A Green Approach for Organic Transformations Using Microwave Reactor. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2019, vol. 16, no. 5, pp. 730-764., Registrované v: WOS
- [1.1] DELIDOVICH, Irina - PALKOVITS, Regina. Catalytic Isomerization of Biomass-Derived Aldoses: A Review. In *CHEMSUSCHEM*. ISSN 1864-5631, 2016, vol. 9, no. 6, pp. 547-561., Registrované v: WOS
- [1.1] HU, Xing - SHI, Yaning - ZHANG, Peng - MIAO, Ming - ZHANG, Tao - JIANG, Bo. d-Mannose: Properties, Production, and Applications: An Overview. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2016, vol. 15, no. 4, pp. 773-785., Registrované v: WOS
- [1.1] KHLESTKIN, Vadim K. - PELTEK, Sergey E. - KOLCHANOV, Nikolay A. Review of direct chemical and biochemical transformations of starch. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 460-476., Registrované v: WOS
- [1.1] MOHAMAD, Rozyanti - AKI, Tsunehiro - NAKASHIMADA, Yutaka - OKAMURA, Yoshiko - TAJIMA, Takahisa - MATSUMURA,

Yukihiko. Decomposition Kinetics of Mannose, Its Sugar Alcohol, and Its Uronic Acid under Hydrothermal Condition. In JOURNAL OF CHEMICAL ENGINEERING OF JAPAN. ISSN 0021-9592, 2016, vol. 49, no. 7, pp. 663-667., Registrované v: WOS

6. [1.1] MOHAMAD, Rozyanti - AKI, Tsunehiro - NAKASHIMADA, Yutaka - OKAMURA, Yoshiko - TAJIMA, Takahisa - MATSUMURA, Yukihiko. Kinetics of Sorbitol Decomposition under Hydrothermal Condition. In JOURNAL OF THE JAPAN PETROLEUM INSTITUTE. ISSN 1346-8804, 2016, vol. 59, no. 4, pp. 149-154., Registrované v: WOS

7. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA476 HRICOVÍNIOVÁ, Zuzana. Surfactants of biological origin: The role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In *Carbohydrate Polymers*, 2016, vol. 144, p. 297-304. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.02.070>

Ohlasy:

1. [1.1] MANHAS, Sanjay - TAYLOR, Mark S. Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 21, pp. 11406-11417., Registrované v: WOS

2. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. Synthesis and characterization of biofunctional quaternized xylan-Fe₂O₃ core/shell nanocomposites and modification with polylysine and folic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS

3. [1.2] DU, Ze Ji - CHANG, Chun - LI, Hong Liang - BAI, Jing - LI, Pan - CHEN, Jun Ying - HAN, Xiu Li - FANG, Shu Qi. Preparation and application of alkyl polyglycoside surfactants based on biomass. In Xiandai Huagong/Modern Chemical Industry. ISSN 02534320, 2019-04-20, 39, 4, pp. 45-48., Registrované v: SCOPUS

ADCA477 HRICOVÍNIOVÁ, Zuzana. The effect of microwave irradiation on Mo(VI) catalyzed transformations of reducing saccharides. In *Carbohydrate Research*, 2006, vol. 341, p. 2131-2134. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.05.007>

Ohlasy:

1. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS

2. [1.1] SPASOVA, Berta - KUESTERS, Christof - STENGEL, Bruno - BRANDNER, Juergen J. Investigation of process conditions for catalytic conversion of carbohydrates by epimerization using a microstructured reactor. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2016, vol. 105, no., pp. 103-109., Registrované v: WOS

3. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHANSSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS
4. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA478 HRICOVÍNIOVÁ, Zuzana. The influence of microwave irradiation on stereospecific Mo(VI).catalyzed transformation of deoxysugars. In *Tetrahedron : Asymmetrie*, 2009, vol.20, pp.1239-1242. (2008: 2.796 - IF, Q2 - JCR, 1.511 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2009.05.010>

Ohlasy:

1. [1.1] Frihed, TG (Frihed, Tobias Gylling); Bols, M (Bols, Mikael); Pedersen, CM (Pedersen, Christian Marcus): Synthesis of L-Hexoses. In: CHEMICAL REVIEWS Volume: 115 Issue: 9 Pages: 3615-3676, Registrované v: WOS
2. [1.1] Harvey, DJ (Harvey, David J.): ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In: MASS SPECTROMETRY REVIEWS Volume: 34 Issue: 3 Pages: 268-422, Registrované v: WOS
3. [1.2] Niova, Z. H. (2015). Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Ramawat, K. G., Mérillon, J. M. (Eds.) Polysaccharides: Bioactivity and Biotechnology (Springer, pp. 1319-1371), Registrované v: SCOPUS

ADCA479 HRICOVÍNIOVÁ, Zuzana. Xylans are a valuable alternative resource: Production of D-xylose, D-lyxose and furfural under microwave irradiation. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2013, vol. 98, p. 1416-1421. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.07.066>

Ohlasy:

1. [1.1] DELBECQ, Frederic - WANG, Yantao - MURALIDHARA, Anitha - EL OUARDI, Karim - MARLAIR, Guy - LEN, Christophe. Hydrolysis of Hemicellulose and Derivatives-A Review of Recent Advances in the Production of Furfural. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
2. [1.1] LE GUENIC, Sarah - DELBECQ, Frederic - CEBALLOS, Claire - LEN, Christophe. Microwave-assisted dehydration of D-xylose into furfural by diluted inexpensive inorganic salts solution in a biphasic system. In JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL. ISSN 1381-1169, 2015, vol. 410, no., pp. 1-7., Registrované v: WOS
3. [1.1] LOU, Hongming - YUAN, Long - QIU, Xueqing - QIU, Kexian - FU, Jinguo - PANG, Yuxia - HUANG, Jinhao. Enhancing enzymatic hydrolysis of xylan by adding sodium lignosulfonate and long-chain fatty alcohols. In

BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 200, no., pp. 48-54., Registrované v: WOS

4. [1.1] PADILLA-RASCON, Carmen - ROMERO-GARCIA, Juan Miguel - RUIZ, Encarnacion - CASTRO, Eulogio. Optimization with Response Surface Methodology of Microwave-Assisted Conversion of Xylose to Furfural. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na:

<https://doi.org/10.3390/molecules25163574>., Registrované v: WOS

5. [1.1] PELETEIRO, Susana - GALLETTI, Anna Maria Raspolli - ANTONETTI, Claudia - SANTOS, Valentin - CARLOS PARAJO, Juan. Manufacture of Furfural from Xylan-containing Biomass by Acidic Processing of Hemicellulose-Derived Saccharides in Biphasic Media Using Microwave Heating. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2018, vol. 38, no. 3, pp. 198-213., Registrované v: WOS

6. [1.1] VAZ, Silvio - DONATE, Paulo Marcos. Microwave-Assisted Green Production of Furfural from D-xylose of Sugarcane Bagasse. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 4, pp. 8168-8180., Registrované v: WOS

7. [1.1] WANG, Yantao - ZHAO, Deyang - RODRIGUEZ-PADRON, Daily - LEN, Christophe. Recent Advances in Catalytic Hydrogenation of Furfural. In CATALYSTS, 2019, vol. 9, no. 10, pp., Registrované v: WOS

8. [1.1] XIOURAS, Christos - RADACSI, Norbert - STURM, Guido - STEFANIDIS, Georgios D. Furfural Synthesis from d-Xylose in the Presence of Sodium Chloride: Microwave versus Conventional Heating. In CHEMSUSCHEM. ISSN 1864-5631, 2016, vol. 9, no. 16, pp. 2159-2166., Registrované v: WOS

9. [1.1] XU, C. - PAONE, E. - RODRIGUEZ-PADRON, D. - LUQUE, R. - MAURIELLO, F. Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2020, vol. 49, no. 13, pp. 4273-4306. Dostupné na: <https://doi.org/10.1039/d0cs00041h>., Registrované v: WOS

10. [1.2] NIOVA, Zuzana Hricová. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1319-1371., Registrované v: SCOPUS

ADCA480 HRMOVÁ, Mária - FARKAŠ, Vladimír - LAHNSTEIN, J. - FINCHER, G.B. A barley xyloglucan xyloglucosyl transferase covalently links xyloglucan, cellulosic substrates, and (1,3/1,4)-beta-D-glucans. In *Journal of Biological Chemistry*, 2007, vol. 282, p. 12951-12962. (2006: 5.808 - IF, Q1 - JCR, 4.352 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M611487200>

Ohlasy:

1. [1.1] BARNES, William J. - ANDERSON, Charles T. Release, Recycle, Rebuild: Cell-Wall Remodeling, Autodegradation, and Sugar Salvage for New Wall Biosynthesis during Plant Development. In MOLECULAR PLANT. ISSN 1674-2052, 2018, vol. 11, no. 1, pp. 31-46., Registrované v: WOS

2. [1.1] COSGROVE, Daniel J. Diffuse Growth of Plant Cell Walls. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 1, pp. 16-27., Registrované v: WOS

3. [1.1] DAI, Y.T. - SUN, L. - YIN, X.L. - GAO, M. - ZHAO, Y.T. - JIA, P.S. - YUAN, X.H. - FU, Y.P. - LI, Y. *Pleurotus eryngii* Genomes Reveal Evolution and Adaptation to the Gobi Desert Environment. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, SEP 3 2019, vol. 10., Registrované v: WOS
4. [1.1] DECOU, R. - LABROUSSE, P. - BERE, E. - FLEURAT-LESSARD, P. - KRAUSZ, P. Structural features in tension wood and distribution of wall polymers in the G-layer of in vitro grown poplars. In *PROTOPLASMA*. ISSN 0033-183X, JAN 2020, vol. 257, no. 1, p. 13-29., Registrované v: WOS
5. [1.1] DOLAN, G.K. - CARTWRIGHT, B. - BONILLA, M.R. - GIDLEY, M.J. - STOKES, J.R. - YAKUBOV, G.E. Probing adhesion between nanoscale cellulose fibres using AFM lateral force spectroscopy: The effect of hemicelluloses on hydrogen bonding. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, MAR 15 2019, vol. 208, p. 97-107., Registrované v: WOS
6. [1.1] DOLAN, G.K. - YAKUBOV, G.E. - STOKES, J.R. BIO-TRIBOLOGY AND BIO-LUBRICATION OF PLANT CELL WALLS. In *ANNUAL PLANT REVIEWS ONLINE*. NOV 2018, vol. 1, no. 3, p. 805-846., Registrované v: WOS
7. [1.1] FAN, Mingzhu - HERBURGER, Klaus - JENSEN, Jacob K. - ZEMELIS-DURFEE, Starla - BRANDIZZI, Federica - FRY, Stephen C. - WILKERSON, Curtis G. A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1207-1221., Registrované v: WOS
8. [1.1] FRANCIN-ALLAMI, Mathilde - LOLLIER, Virginie - PAVLOVIC, Marija - SAN CLEMENTE, Helene - ROGNIAUX, Helene - JAMET, Elisabeth - GUILLON, Fabienne - LARRE, Colette. Understanding the Remodelling of Cell Walls during Brachypodium distachyon Grain Development through a Sub-Cellular Quantitative Proteomic Approach. In *PROTEOMES*, 2016, vol. 4, no. 3, pp., Registrované v: WOS
9. [1.1] FRANKOVA, L. - FRY, S.C. A general method for assaying homo- and hetero-transglycanase activities that act on plant cell-wall polysaccharides. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, APR 2015, vol. 57, no. 4, SI, p. 411-428., Registrované v: WOS
10. [1.1] FRANKOVA, L. - FRY, S.C. Activity and Action of Cell-Wall Transglycanases. In *PLANT CELL WALL, 2 EDITION: Methods and Protocols*. ISSN 1064-3745, 2020, vol. 2149, p. 165-192., Registrované v: WOS
11. [1.1] HERBURGER, K. - FRANKOVA, L. - PICMANOVA, M. - LOH, J.W. - VALENZUELA-ORTEGA, M. - MEULEWAETER, F. - HUDSON, A.D. - FRENCH, C.E. - FRY, S.C. Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In *MOLECULAR PLANT*. ISSN 1674-2052, JUL 6 2020, vol. 13, no. 7, p. 1047-1062., Registrované v: WOS
12. [1.1] HERBURGER, K. - FRANKOVA, L. - SANHUEZA, D. - ROIG-SANCHEZ, S. - MEULEWAETER, F. - HUDSON, A. - THOMSON, A. - LAROMAIN, A. - BUDTOVA, T. - FRY, S.C. Enzymically attaching oligosaccharide-linked 'cargoes' to cellulose and other commercial polysaccharides via stable covalent bonds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, DEC 1 2020, vol.

164, p. 4359-4369., Registrované v: WOS

13. [1.1] HOLLAND, C. - SIMMONS, T.J. - MEULEWAETER, F. - HUDSON, A. - FRY, S.C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, AUG 2020, vol. 251., Registrované v: WOS

14. [1.1] CHORMOVA, D. - FRANKOVA, L. - DEFRIES, A. - CUTLER, S.R. - FRY, S.C. Discovery of small molecule inhibitors of xyloglucan endotransglucosylase (XET) activity by high-throughput screening. In PHYTOCHEMISTRY. ISSN 0031-9422, SEP 2015, vol. 117, p. 220-236., Registrované v: WOS

15. [1.1] KARIMI, R. - AZIZI, M.H. - XU, Q. Effect of different enzymatic extractions on molecular weight distribution, rheological and microstructural properties of barley bran beta-glucan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, APR 1 2019, vol. 126, p. 298-309., Registrované v: WOS

16. [1.1] KUSHWAH, S. - BANASIAK, A. - NISHIKUBO, N. - DERBA-MACELUCH, M. - MAJDA, M. - ENDO, S. - KUMAR, V. - GOMEZ, L. - GORZSAS, A. - MCQUEEN-MASON, S. - BRAAM, J. - SUNDBERG, B. - MELLEROWICZ, E.J. Arabidopsis XTH4 and XTH9 Contribute to Wood Cell Expansion and Secondary Wall Formation(1)([OPEN]). In PLANT PHYSIOLOGY. ISSN 0032-0889, APR 2020, vol. 182, no. 4, p. 1946-1965., Registrované v: WOS

17. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. The Role of Auxin in Cell Wall Expansion. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS

18. [1.1] MCGREGOR, Nicholas - YIN, Victor - TUNG, Ching-Chieh - VAN PETEGEM, Filip - BRUMER, Harry. Crystallographic insight into the evolutionary origins of xyloglucan endotransglycosylases and endohydrolases. In PLANT JOURNAL. ISSN 0960-7412, 2017, vol. 89, no. 4, pp. 651-670., Registrované v: WOS

19. [1.1] NGUYEN-PHAN, T.C. - FRY, S.C. Functional and chemical characterization of XAF: a heat-stable plant polymer that activates xyloglucan endotransglucosylase/hydrolase (XTH). In ANNALS OF BOTANY. ISSN 0305-7364, JUN 28 2019, vol. 124, no. 1, p. 131-147., Registrované v: WOS

20. [1.1] OTULAK-KOZIEL, Katarzyna - KOZIEL, Edmund - BUJARSKI, Jozef J. Spatiotemporal Changes in Xylan-1/Xyloglucan and Xyloglucan Xyloglucosyl Transferase (XTH-Xet5) as a Step-In of Ultrastructural Cell Wall Remodelling in Potato-Potato Virus Y (PVYNTN) Hypersensitive and Susceptible Reaction. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2018, vol. 19, no. 8, pp., Registrované v: WOS

21. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS

22. [1.1] SHARPLES, Sandra C. - NGUYEN-PHAN, Tu C. - FRY, Stephen C. Xyloglucan endotransglucosylase/hydrolases (XTHs) are inactivated by binding to glass and cellulosic surfaces, and released in active form by a heat-stable polymer from cauliflower florets. In JOURNAL OF PLANT

PHYSIOLOGY. ISSN 0176-1617, 2017, vol. 218, no., pp. 135-143.,

Registrované v: WOS

23. [1.1] SHINOHARA, Naoki - SUNAGAWA, Naoki - TAMURA, Satoru - YOKOYAMA, Ryusuke - UEDA, Minoru - IGARASHI, Kiyohiko - NISHITANI, Kazuhiko. The plant cell-wall enzyme AtXTH3 catalyses covalent cross-linking between cellulose and cello-oligosaccharide. In SCIENTIFIC

REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

24. [1.1] SIMMONS, T.J. - MOHLER, K.E. - HOLLAND, C. - GOUBET, F. - FRANKOVA, L. - HOUSTON, D.R. - HUDSON, A.D. - MEULEWAETER, F. - FRY, S.C. Hetero-trans--glucanase, an enzyme unique to Equisetum plants, functionalizes cellulose. In PLANT JOURNAL. ISSN 0960-7412, SEP 2015, vol. 83, no. 5, p. 753-769., Registrované v: WOS

25. [1.1] SINGH, M. - PAHAL, V. - AHUJA, D. Isolation and characterization of microfibrillated cellulose and nanofibrillated cellulose with "biomechanical hotspots". In CARBOHYDRATE POLYMERS. ISSN 0144-8617, APR 15 2020, vol. 234., Registrované v: WOS

26. [1.1] SINGH, Ruchi - PANDEY, Neha - KUMAR, Anil - SHIRKE, Pramod A. Physiological performance and differential expression profiling of genes associated with drought tolerance in root tissue of four contrasting varieties of two Gossypium species. In PROTOPLASMA. ISSN 0033-183X, 2016, vol. 253, no. 1, pp. 163-174., Registrované v: WOS

27. [1.1] SKENDI, Adriana - BILIADERIS, Costas G. Gelation of wheat arabinoxylans in the presence of Cu²⁺ and in aqueous mixtures with cereal beta-glucans. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 203, no., pp. 267-275., Registrované v: WOS

28. [1.1] TUCKER, Matthew R. - LOU, Haoyu - AUBERT, Matthew K. - WILKINSON, Laura G. - LITTLE, Alan - HOUSTON, Kelly - PINTO, Sara C. - SHIRLEY, Neil J. Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. In PLANTS-BASEL. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS

29. [1.1] VISSER, E.A. - WEGRZYN, J.L. - STEENKAMP, E.T. - MYBURG, A.A. - NAIDOO, S. Dual RNA-Seq Analysis of the Pine-Fusarium circinatum Interaction in Resistant (Pinus tecunumanii) and Susceptible (Pinus patula) Hosts. In MICROORGANISMS. SEP 2019, vol. 7, no. 9., Registrované v: WOS

30. [1.1] WITASARI, L.D. - HUANG, F.C. - HOFFMANN, T. - ROZHON, W. - FRY, S.C. - SCHWAB, W. Higher expression of the strawberry xyloglucan endotransglucosylase/hydrolase genes FvXTH9 and FvXTH6 accelerates fruit ripening. In PLANT JOURNAL. ISSN 0960-7412, DEC 2019, vol. 100, no. 6, p. 1237-1253., Registrované v: WOS

31. [1.1] YOKOYAMA, R. A Genomic Perspective on the Evolutionary Diversity of the Plant Cell Wall. In PLANTS-BASEL. SEP 2020, vol. 9, no. 9., Registrované v: WOS

32. [1.1] ZHANG, Qisen - ZHANG, Xiaoqi - PETTOLINO, Filomena - ZHOU, Gaofeng - LI, Chengdao. Changes in cell wall polysaccharide composition, gene transcription and alternative splicing in germinating barley embryos. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 191, no., pp. 127-139., Registrované v: WOS

ADCA481 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária. Cellulose degrading and xylan-degrading enzymes of *Aspergillus terreus* and *Aspergillus niger*. In *Enzyme and Microbial Technology*, 1989, vol. 11, p. 610-616. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/0141-0229\(89\)90090-2](https://doi.org/10.1016/0141-0229(89)90090-2)

Ohlasy:

1. [1.1] AGUIAR SILVA, Jassica Barros - FRANTZ, Suelen Caroline - MARQUES, Anelise Kappes - COELHO, Cristiane Martins - DE MORAIS, Paula Benevides. Production of extracellular enzymes by fungi associated to the decomposition of plant materials in streams. In *JOURNAL OF BIOENERGY AND FOOD SCIENCE*. ISSN 2359-2710, 2015, vol. 2, no. 4, pp. 208-212., Registrované v: WOS
2. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - GRZYMEK, Marek - LIPOK, Jacek. Evaluation of wood-polyethylene composites biodegradability caused by filamentous fungi. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2017, vol. 118, no., pp. 10-18., Registrované v: WOS
3. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - LIPOK, Jacek. Resistance of Conifer Needle Polyolefin Composites (CNPCs) Against Biodecomposition Caused by Fungi. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1179-1193., Registrované v: WOS
4. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
5. [1.1] LI, Zhe - GUO, Xiaoxiao - FENG, Xudong - LI, Chun. An environment friendly and efficient process for xylitol bioconversion from enzymatic corncob hydrolysate by adapted *Candida tropicalis*. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2015, vol. 263, no., pp. 249-256., Registrované v: WOS
6. [1.1] MUZAKHAR, Kahar. A Consortium of Three Enzymes: Xylanase, Arabinofuranosidase, and Cellulase from *Aspergillus* sp. which liquefied Coffee Pulp Wastes. In *9TH ANNUAL BASIC SCIENCE INTERNATIONAL CONFERENCE 2019 (BASIC 2019)*. ISSN 1757-8981, 2019, vol. 546, no., pp., Registrované v: WOS
7. [1.1] SINGH, Shalini. White-Rot Fungal Xylanases for Applications in Pulp and Paper Industry. In *FUNGAL BIOREFINERIES*. ISSN 2198-7777, 2018, vol., no., pp. 47-63., Registrované v: WOS
8. [1.1] TERESA ALVAREZ-ZUNIGA, Maria - SANTIAGO-HERNANDEZ, Alejandro - RODRIGUEZ-MENDOZA, Johan - CAMPOS, Jorge E. - PAVON-OROZCO, Patricia - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. Taxonomic identification of the thermotolerant and fast-growing fungus *Lichtheimia ramosa* H71D and biochemical characterization of the thermophilic xylanase LrXynA. In *AMB EXPRESS*. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA482 HRMOVÁ, Mária - BURTON, R.A. - BIELY, Peter - LAHNSTEIN, J. - FINCHER, G.B. Hydrolysis of (1,4)-beta-D-mannans in barley (*Hordeum vulgare* L.) is mediated by the concerted action of (1,4)-beta-mannan endohydrolase and beta-D-mannosidase. In *Biochemical Journal*, 2006, vol. 399, p. 77-90. (2005: 4.224 - IF, Q1 - JCR, 2.607 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20060170>

Ohlasy:

1. [1.1] CAIRNS, James R. Ketudat - MAHONG, Bancha - BAIYA, Supaporn - JEON, Jong-Seong. beta-Glucosidases: Multitasking, moonlighting or simply misunderstood? In *PLANT SCIENCE*. ISSN 0168-9452, 2015, vol. 241, no., pp. 246-259., Registrované v: WOS
2. [1.1] GONZALEZ-CALLE, Virginia - BARRERO-SICILIA, Cristina - CARBONERO, Pilar - IGLESIAS-FERNANDEZ, Raquel. Mannans and endo-beta-mannanases (MAN) in *Brachypodium distachyon*: expression profiling and possible role of the BdMAN genes during coleorhiza-limited seed germination. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2015, vol. 66, no. 13, pp. 3753-3764., Registrované v: WOS
3. [1.1] IGLESIAS-FERNANDEZ, Raquel - PASTOR-MORA, Elena - VICENTE-CARBAJOSA, Jesus - CARBONERO, Pilar. A Possible Role of the Aleurone Expressed Gene HvMAN1 in the Hydrolysis of the Cell Wall Mannans of the Starchy Endosperm in Germinating *Hordeum vulgare* L. Seeds. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2019.01706>., Registrované v: WOS
4. [1.1] KUMAR, Avinash - SIMMI, P. S. - GIRIDHAR, Parvatam. Cell wall remodelling involving galactomannan de-branching influence *Agrobacterium tumefaciens*-mediated transformation of *Coffea canephora* somatic embryos. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2018, vol. 134, no. 3, pp. 369-382., Registrované v: WOS
5. [1.1] LI, Miaomiao - DU, Jinhua - HAN, Yingying - LI, Jie - BAO, Jiao - ZHANG, Kaili. Non-starch polysaccharides in commercial beers on China market: Mannose polymers content and its correlation with beer physicochemical indices. In *JOURNAL OF FOOD COMPOSITION AND ANALYSIS*. ISSN 0889-1575, 2019, vol. 79, no., pp. 122-127., Registrované v: WOS
6. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl manno oligosides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS
7. [1.1] OUYANG, Hanlin - XU, Feng. The Role and Applications of beta-Glucosidases in Biomass Degradation and Bioconversion. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 47-75., Registrované v: WOS
8. [1.1] TORIKI, M. - MIRZAEI, M. - HABIBIAN, M. Effects of Barley Cultivar and Dietary Supplemental enzyme on Performance, Egg Quality Traits, and Selected Blood Parameters of Laying Hens. In *POULTRY SCIENCE JOURNAL*. ISSN 2345-6604, 2016, vol. 4, no. 1, pp. 1-12., Registrované v: WOS

9. [1.1] VOSS-FELS, Kai P. - QIAN, Lunwen - PARRA-LONDONO, Sebastian - UPTMOOR, Ralf - FRISCH, Matthias - KEEBLE-GAGNERE, Gabriel - APPELS, Rudi - SNOWDON, Rod J. Linkage drag constrains the roots of modern wheat. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2017, vol. 40, no. 5, pp. 717-725., Registrované v: WOS
10. [1.1] WANG, Bo - ZHANG, Weimin - BAI, Xinpeng - LI, Congfa - XIANG, Dong. Rheological and physicochemical properties of polysaccharides extracted from stems of *Dendrobium officinale*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105706>., Registrované v: WOS
11. [1.1] WANG, Yang - AZHAR, Shoaib - GANDINI, Rosaria - DIVNE, Christina - EZCURRA, Ines - ASPEBORG, Henrik. Biochemical characterization of the novel endo-beta-mannanase AtMan5-2 from *Arabidopsis thaliana*. In PLANT SCIENCE. ISSN 0168-9452, 2015, vol. 241, no., pp. 151-163., Registrované v: WOS
12. [1.1] ZHANG, Guo-Qiang - XU, Qing - BIAN, Chao - TSAI, Wen-Chieh - YEH, Chuan-Ming - LIU, Ke-Wei - YOSHIDA, Kouki - ZHANG, Liang-Sheng - CHANG, Song-Bin - CHEN, Fei - SHI, Yu - SU, Yong-Yu - ZHANG, Yong-Qiang - CHEN, Li-Jun - YIN, Yayi - LIN, Min - HUANG, Huixia - DENG, Hua - WANG, Zhi-Wen - ZHU, Shi-Lin - ZHAO, Xiang - DENG, Cao - NIU, Shan-Ce - HUANG, Jie - WANG, Meina - LIU, Guo-Hui - YANG, Hai-Jun - XIAO, Xin-Ju - HSIAO, Yu-Yun - WU, Wan-Lin - CHEN, You-Yi - MITSUDA, Nobutaka - OHME-TAKAGI, Masaru - LUO, Yi-Bo - VAN DE PEER, Yves - LIU, Zhong-Jian. The *Dendrobium catenatum* Lindl. genome sequence provides insights into polysaccharide synthase, floral development and adaptive evolution. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

ADCA483 HRMOVÁ, Mária - PETRÁKOVÁ, Eva - BIELY, Peter. Induction of cellulose-degrading and xylan-degrading enzyme systems in *Aspergillus terreus* by homodisaccharides and heterodisaccharides composed of glucose and xylose. In *Journal of General Microbiology*, 1991, vol. 137, p. 541-547.

Ohlasy:

1. [1.1] ADAV, Sunil S. - RAVINDRAN, Anita - SZE, Siu Kwan. Quantitative proteomic study of *Aspergillus Fumigatus* secretome revealed deamidation of secretory enzymes. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2015, vol. 119, no., pp. 154-168., Registrované v: WOS
2. [1.1] BENOCCI, Tiziano - AGUILAR-PONTES, Maria Victoria - ZHOU, Miaomiao - SEIBOTH, Bernhard - DE VRIES, Ronald P. Regulators of plant biomass degradation in ascomycetous fungi. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
3. [1.1] ELAHI, Amina - REHMAN, Abdul. Bioconversion of hemicellulosic materials into ethanol by yeast, *Pichia kudriavzevii* 2-KLP1, isolated from industrial waste. In REVISTA ARGENTINA DE MICROBIOLOGIA. ISSN 0325-7541, 2018, vol. 50, no. 4, pp. 417-425., Registrované v: WOS
4. [1.1] GHIMIRE, Prakriti Sharma - JIN, Cheng. Genetics, Molecular, and Proteomics Advances in Filamentous Fungi. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2017, vol. 74, no. 10, pp. 1226-1236., Registrované v: WOS

5. [1.1] IDDER-IGHILI, H. - AGUSTIAN, A. - IDDER, M. A. - GUILLAUMIN, J. J. - WIPF, D. - BOTTON, B. Production of beta-glucosidases by European *Armillaria* species. In *FOREST PATHOLOGY*. ISSN 1437-4781, 2020, vol. 50, no. 5, pp. Dostupné na: <https://doi.org/10.1111/efp.12624>., Registrované v: WOS
6. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99., Registrované v: WOS
7. [1.1] MASSONNET, Melanie - MORALES-CRUZ, Abraham - FIGUEROA-BALDERAS, Rosa - LAWRENCE, Daniel P. - BAUMGARTNER, Kendra - CANTU, Dario. Condition-dependent co-regulation of genomic clusters of virulence factors in the grapevine trunk pathogen *Neofusicoccum parvum*. In *MOLECULAR PLANT PATHOLOGY*. ISSN 1464-6722, 2018, vol. 19, no. 1, pp. 21-34., Registrované v: WOS
8. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
9. [1.1] TERESA ALVAREZ-ZUNIGA, Maria - SANTIAGO-HERNANDEZ, Alejandro - RODRIGUEZ-MENDOZA, Johan - CAMPOS, Jorge E. - PAVON-OROZCO, Patricia - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. Taxonomic identification of the thermotolerant and fast-growing fungus *Lichtheimia ramosa* H71D and biochemical characterization of the thermophilic xylanase LrXynA. In *AMB EXPRESS*. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
10. [1.1] VASINA, Daria V. - PAVLOV, Andrey R. - KOROLEVA, Olga V. Extracellular proteins of *Trametes hirsuta* st. 072 induced by copper ions and a lignocellulose substrate. In *BMC MICROBIOLOGY*. ISSN 1471-2180, 2016, vol. 16, no., pp., Registrované v: WOS

ADCA484 HRMOVÁ, Mária - DROBNICA, L. Induction of mycelial type of development in *Candida albicans* by the antibiotic monorden and N-acetyl-D-glucosamine. In *Mycopathologia*, 1982, vol. 76, p. 55-64. ISSN 0301-486X. Dostupné na: <https://doi.org/10.1007/BF00636183>

Ohlasy:

1. [1.1] PATAKI, Emese - SIPICZKI, Matthias - MIKLOS, Ida. Schizosaccharomyces pombe rsv1 Transcription Factor and its Putative Homologues Preserved their Functional Homology and are Evolutionarily Conserved. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2017, vol. 74, no. 6, pp. 710-717., Registrované v: WOS

ADCA485 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária - PETRAKOVÁ, Eva. Induction of cellulose- and xylan-degrading enzyme complex in the yeast *Trichosporon cutaneum*. In *Archives of Microbiology*, 1984, vol. 138, p. 371-376. ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/BF00410906>

Ohlasy:

1. [1.1] AYADI, Ines - BELGHITH, Hafedh - GARGOURI, Ali -

- GUERFALI, Mohamed. Screening of new oleaginous yeasts for single cell oil production, hydrolytic potential exploitation and agro-industrial by-products valorization. In *PROCESS SAFETY AND ENVIRONMENTAL PROTECTION*. ISSN 0957-5820, 2018, vol. 119, no., pp. 104-114., Registrované v: WOS
2. [1.1] BASU, Moumita - KUMAR, Vishal - SHUKLA, Pratyosh. Recombinant Approaches for Microbial Xylanases: Recent Advances and Perspectives. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 87-99., Registrované v: WOS
3. [1.1] DOSTALKOVA, Jitka - PROCHAZKOVA, Gita - JIRKU, Vladimir - KRIKLAVOVA, Lucie - LEDERER, Tomas - SUCHANEK, Miloslav - BRANYIK, Tomas. Physicochemical aspects of *Trichosporon cutaneum* CCY 30-5-10 adhesion and biofilm formation potential on cellophane. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2015, vol. 69, no. 3, pp. 425-432., Registrované v: WOS
4. [1.1] GARG, Sarika. Xylanase: Applications in Biofuel Production. In *CURRENT METABOLOMICS*. ISSN 2213-235X, 2016, vol. 4, no. 1, p. 23-37., Registrované v: WOS
5. [1.1] GHIMIRE, Prakriti Sharma - JIN, Cheng. Genetics, Molecular, and Proteomics Advances in Filamentous Fungi. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2017, vol. 74, no. 10, pp. 1226-1236., Registrované v: WOS
6. [1.1] CHATTOPADHYAY, Atrayee - MAITI, Mrinal K. Efficient xylose utilization leads to highest lipid productivity in *Candida tropicalis* SY005 among six yeast strains grown in mixed sugar medium. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 7, pp. 3133-3144. Dostupné na: <https://doi.org/10.1007/s00253-020-10443-z>., Registrované v: WOS
7. [1.1] NAJJARZADEH, Nasim - MATSAKAS, Leonidas - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Effect of Oligosaccharide Degree of Polymerization on the Induction of Xylan-Degrading Enzymes by *Fusarium oxysporum* f. sp. *Lycopersici*. In *MOLECULES*, 2020, vol. 25, no. 24, pp. Dostupné na: <https://doi.org/10.3390/molecules25245849>., Registrované v: WOS
8. [1.1] RODRIGUES, Alexandre Gomes. Endo-beta-1,4-xylanase: An Overview of Recent Developments. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 125-149., Registrované v: WOS
9. [1.2] ANNIE DEBORAH HARRIS, S. - RAMALINGAM, C. Production of xylanase from watermelon rind by *Bacillus weihenstephanensis* strain ANR1. In *International Journal of ChemTech Research*. ISSN 09744290, 2015-01-01, 8, 5, pp. 1-5., Registrované v: SCOPUS
10. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
11. [1.2] RAHNAMA, N. - SHAH, U. K.M. - FOO, H. L. - RAHMAN, N. A.A. - ARIFF, A. B. Production and characterisation of cellulase from solid state fermentation of rice straw by *Trichoderma harzianum* SNRS3. In *Pertanika Journal of Tropical Agricultural Science*. ISSN 15113701, 2016-01-01, 39, 4, pp. 507-531., Registrované v: SCOPUS
12. [1.2] SHRIVASTAVA, Smriti - KUMAR, Vishal - BAWEJA, Mehak

- SHUKLA, Pratyosh. Enhanced xylanase production from *Thermomyces lanuginosus* NCIM 1374/DSM 28966 using statistical analysis. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-09-01, 10, 3, pp. 2225-2230., Registrované v: SCOPUS

ADCA486 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária. Specificity of cellulase and beta-xylanase induction in *Trichoderma reesei* QM 9414. In *Archives of Microbiology*, 1986, vol. 144, p. 307-311. ISSN 0302-8933.

Ohlasy:

1. [1.1] BOSETTO, Adilson - JUSTO, Priscila Innocenti - ZANARDI, Bruna - VENZON, Simoni Spohr - GRACIANO, Luciana - DOS SANTOS, Elaine Luzia - GARCIA SIMAO, Rita de Cassia. Research Progress Concerning Fungal and Bacterial beta-Xylosidases. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2016, vol. 178, no. 4, pp. 766-795., Registrované v: WOS

ADCA487 HRMOVÁ, Mária - FARKAŠ, Vladimír - HARVEY, A.J. - LAHNSTEIN, J. - WISCHMANN, B. - KAEWTHAI, N. - EZCURRA, I. - TEERI, T.T. - FINCHER, G.B. Substrate specificity and catalytic mechanism of a xyloglucan xyloglucosyl transferase HvXET6 from barley (*Hordeum vulgare* L.). In *FEBS Journal*, 2009, vol. 276, p. 437-456. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2008.06791.x>

Ohlasy:

1. [1.1] BLUEMKE, Antje - SODE, Bjoern - ELLINGER, Dorothea - VOIGT, Christian A. Reduced susceptibility to *Fusarium* head blight in *Brachypodium distachyon* through priming with the *Fusarium* mycotoxin deoxynivalenol. In *MOLECULAR PLANT PATHOLOGY*. ISSN 1464-6722, 2015, vol. 16, no. 5, pp. 472-483., Registrované v: WOS

2. [1.1] FAN, Mingzhu - HERBURGER, Klaus - JENSEN, Jacob K. - ZEMELIS-DURFEE, Starla - BRANDIZZI, Federica - FRY, Stephen C. - WILKERSON, Curtis G. A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1207-1221., Registrované v: WOS

3. [1.1] FU, Man-Man - LIU, Chen - WU, Feibo. Genome-Wide Identification, Characterization and Expression Analysis of Xyloglucan Endotransglucosylase/Hydrolase Genes Family in Barley (*Hordeum vulgare*). In *MOLECULES*. ISSN 1420-3049, 2019, vol. 24, no. 10, pp., Registrované v: WOS

4. [1.1] HURA, Tomasz - DZIURKA, Michal - HURA, Katarzyna - OSTROWSKA, Agnieszka - DZIURKA, Kinga - GADZINOWSKA, Joanna. Wheat and rye genome confer specific phytohormone profile features and interplay under water stress in two phenotypes of triticale. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 118, no., pp. 494-509., Registrované v: WOS

5. [1.1] MORALES-QUINTANA, Luis - CARRASCO-ORELLANA, Cristian - BELTRAN, Dina - ALEJANDRA MOYA-LEON, Maria - HERRERA, Raul. Molecular insights of a xyloglucan endo-transglycosylase/hydrolase of radiata pine (PrXTH1) expressed in response to inclination: Kinetics and

computational study. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2019, vol. 136, no., pp. 155-161., Registrované v: WOS

6. [1.1] SHI, Yuan Zhi - ZHU, Xiao Fang - MILLER, Janice G. - GREGSON, Timothy - ZHENG, Shao Jian - FRY, Stephen C. Distinct catalytic capacities of two aluminium-repressed Arabidopsis thaliana xyloglucan endotransglucosylase/hydrolases, XTH15 and XTH31, heterologously produced in Pichia. In PHYTOCHEMISTRY. ISSN 0031-9422, 2015, vol. 112, no., pp. 160-169., Registrované v: WOS

7. [1.1] WITASARI, Lucia D. - HUANG, Fong-Chin - HOFFMANN, Thomas - ROZHON, Wilfried - FRY, Stephen C. - SCHWAB, Wilfried. Higher expression of the strawberry xyloglucan endotransglucosylase/hydrolase genes FvXTH9 and FvXTH6 accelerates fruit ripening. In PLANT JOURNAL. ISSN 0960-7412, 2019, vol. 100, no. 6, pp. 1237-1253., Registrované v: WOS

8. [1.1] ZHANG, Qisen - ZHANG, Xiaoqi - PETTOLINO, Filomena - ZHOU, Gaofeng - LI, Chengdao. Changes in cell wall polysaccharide composition, gene transcription and alternative splicing in germinating barley embryos. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 191, no., pp. 127-139., Registrované v: WOS

9. [1.2] COSGROVE, Daniel J. Catalysts of plant cell wall loosening. In F1000Research. ISSN 20461402, 2016-01-01, 5, pp., Registrované v: SCOPUS

ADCA488 HRMOVÁ, Mária - MACGREGOR, E.A. - BIELY, Peter - STEWART, R.J. - FINCHER, G.B. Substrate binding and catalytic mechanism of a barley beta-D-glucosidase/(1,4)-D-glucan exohydrolase. In *Journal of Biological Chemistry*, 1998, vol. 273, p. 11134-11143. (1997: 6.963 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.273.18.11134>

Ohlasy:

1. [1.1] AIRIANAH, Othman B. - VREEBURG, Robert A. M. - FRY, Stephen C. Pectic polysaccharides are attacked by hydroxyl radicals in ripening fruit: evidence from a fluorescent fingerprinting method. In ANNALS OF BOTANY. ISSN 0305-7364, 2016, vol. 117, no. 3, pp. 441-455., Registrované v: WOS

2. [1.1] ESPINDOLA MATEOS, Sergio - MATIAS CERVANTES, Carlos Alberto - ZENTENO, Edgar - SLOMIANNY, Marie-Christine - ALPUCHE, Juan - HERNANDEZ-CRUZ, Pedro - MARTINEZ-CRUZ, Ruth - PINA CANSECO, Maria del Socorro - PEREZ-CAMPOS, Eduardo - SANCHEZ RUBIO, Manuel - PEREZ-CAMPOS MAYORAL, Laura - MARTINEZ-CRUZ, Margarito. Purification and Partial Characterization of beta-Glucosidase in Chayote (*Sechium edule*). In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 19372-19392., Registrované v: WOS

3. [1.1] EZEILO, Uchenna Regina - ZAKARIA, Iffah Izzati - HUYOP, Fahrul - WAHAB, Roswanira Abdul. Enzymatic breakdown of lignocellulosic biomass: the role of glycosyl hydrolases and lytic polysaccharide monoxygenases. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2017, vol. 31, no. 4, pp. 647-662., Registrované v: WOS

4. [1.1] GUDMUNDSSON, Mikael - HANSSON, Henrik - KARKEHABADI, Saeid - LARSSON, Anna - STALS, Ingeborg - KIM, Steve - SUNUX, Sergio - FUJDALA, Meredith - LARENAS, Edmund - KAPER, Thijs -

SANDGREN, Mats. Structural and functional studies of the glycoside hydrolase family 3 beta-glucosidase Cel3A from the moderately thermophilic fungus *Rasamsonia emersonii*. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2016, vol. 72, no., pp. 860-870., Registrované v: WOS

5. [1.1] CHUKHCHIN, Dmitry G. - BOLOTOVA, Ksenia - SINELNIKOV, Igor - CHURILOV, Dmitry - NOVOZHILOV, Evgeniy. Exosomes in the phloem and xylem of woody plants. In PLANTA. ISSN 0032-0935, 2020, vol. 251, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00425-019-03315-y>., Registrované v: WOS

6. [1.1] KUUSK, Silja - VALJAMAE, Priit. When substrate inhibits and inhibitor activates: implications of beta-glucosidases. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

7. [1.1] MELLO, Gerson Ritzmann - PEREIRA, Aline Bescrovaine - PEDERSEN VOLL, Fernando Augusto - KRIEGER, Nadia - MITCHELL, David Alexander. Fingerprinting processive beta-amylases. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 137, no., pp. 334-343., Registrované v: WOS

8. [1.1] OUYANG, Hanlin - XU, Feng. The Role and Applications of beta-Glucosidases in Biomass Degradation and Bioconversion. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 47-75., Registrované v: WOS

9. [1.1] PEREIRA, Aline Bescrovaine - KRIEGER, Nadia - MITCHELL, Alexander. Fingerprinting of oligosaccharide-hydrolyzing enzymes that catalyze branched reaction schemes. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2016, vol. 113, no., pp. 93-101., Registrované v: WOS

10. [1.1] SINHA, Sushant K. - GOSWAMI, Shubhasish - DAS, Shibashis - DATTA, Supratim. Exploiting non-conserved residues to improve activity and stability of *Halothermothrix orenii* beta-glucosidase. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1455-1463., Registrované v: WOS

11. [1.2] KHAIRUDIN, Nurulbahiyah Ahmad - SHAMELI, Kamyar - MIYAKE, Mikio - MAZLAN, Nur Shima Fadhilah. Insight into cellopentaose binding mode in glycone and aglycone binding site of Beta-Glucosidase B: A molecular dynamics approach. In Journal of Engineering and Applied Sciences. ISSN 1816949X, 2017-01-01, 12, specialissue12, pp. 9440-9443., Registrované v: SCOPUS

ADCA489 HRMOVÁ, Mária - TAFT, C.S. - SELITRENNIKOFF, C.P. (1,3)- β -Glucan synthase of *Neurospora crassa*. Partial purification and characterization of solubilized enzyme activity. In *Experimental Mycology*, 1989, vol. 13, p. 129-139. ISSN 0147-5975.

Ohlasy:

1. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal beta-Glucans. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS
2. [1.2] VERDÍN, Jorge - SÁNCHEZ-LEÓN, Eddy - RICO-RAMÍREZ, Adriana M. - MARTÍNEZ-NÚÑEZ, Leonora - FAJARDO-SOMERA, Rosa A. - RIQUELME, Meritxell. Off the wall: The rhyme and reason of *Neurospora*

crassa hyphal morphogenesis. In *Cell Surface*, 2019-12-01, 5, pp., Registrované v: SCOPUS

ADCA490 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P.

Comparison of classical and ultrasound-assisted extraction of polysaccharides from *Salvia officinalis* L. In *Ultrasonics Sonochemistry*, 1999, vol. 5, p. 163-168. (1998: 1.000 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(98\)00046-7](https://doi.org/10.1016/S1350-4177(98)00046-7)

Ohlasy:

1. [1.1] ALZORQI, Ibrahim - SUDHEER, Surya - LU, Ting-Jang - MANICKAM, Sivakumar. Ultrasonically extracted beta-D-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 35, no., pp. 531-540., Registrované v: WOS
2. [1.1] BABAMORADI, Nastaran - YOUSEFI, Shima - ZIARATI, Parisa. Optimization of ultrasound-assisted extraction of functional polysaccharides from common mullein (*Verbascum thapsus* L.) flowers. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2018, vol. 41, no. 7, pp., Registrované v: WOS
3. [1.1] BAHMANI, Leila - ABOONAJMI, Mohammad - ARABHOSSEINI, Akbar - MIRSAEEDGHAZI, Hossein. Effects of ultrasound pre-treatment on quantity and quality of essential oil of tarragon (*Artemisia dracunculus* L.) leaves. In *JOURNAL OF APPLIED RESEARCH ON MEDICINAL AND AROMATIC PLANTS*. ISSN 2214-7861, 2018, vol. 8, no., pp. 47-52., Registrované v: WOS
4. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
5. [1.1] EL ASBAHANI, A. - MILADI, K. - BADRI, W. - SALA, M. - ADDI, E. H. Ait - CASABIANCA, H. - EL MOUSADIK, A. - HARTMANN, D. - JILALE, A. - RENAUD, F. N. R. - ELAISSARI, A. Essential oils: From extraction to encapsulation. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2015, vol. 483, no. 1-2, pp. 220-243., Registrované v: WOS
6. [1.1] FABRE, Jean-Francois - LACROUX, Eric - VALENTIN, Romain - MOULOINGUI, Zephirin. Ultrasonication as a highly efficient method of flaxseed mucilage extraction. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 65, no., pp. 354-360., Registrované v: WOS
7. [1.1] HASHEMINYA, Seyedeh-Maryam - DEHGANNYA, Jalal. Novel ultrasound-assisted extraction of kefiran biomaterial, a prebiotic exopolysaccharide, and investigation of its physicochemical, antioxidant and antimicrobial properties. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, 2020, vol. 243, no., pp. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2020.122645>., Registrované v: WOS
8. [1.1] CHEN, Jialun - CHEN, Lei - LIN, Shaoling - LIU, Chaoran -

- CHEUNG, Peter C. K. Preparation and structural characterization of a partially depolymerized beta-glucan obtained from *Poria cocos sclerotium* by ultrasonic treatment. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 46, no., pp. 1-9., Registrované v: WOS
9. [1.1] CHEN, Yun - YAO, Fangke - MING, Ke - WANG, Deyun - HU, Yuanliang - LIU, Jiaguo. Polysaccharides from Traditional Chinese Medicines: Extraction, Purification, Modification, and Biological Activity. In *MOLECULES*. ISSN 1420-3049, 2016, vol. 21, no. 12, pp., Registrované v: WOS
10. [1.1] KULCZYNSKI, Bartosz - KOBUS-CISOWSKA, Joanna - KMIĘCIK, Dominik - GRAMZA-MICHALOWSKA, Anna - GOLCZAK, Dorota - KORCZAK, Jozef. ANTIRADICAL CAPACITY AND POLYPHENOL COMPOSITION OF ASPARAGUS SPEARS VARIETIES CULTIVATED UNDER DIFFERENT SUNLIGHT CONDITIONS. In *ACTA SCIENTIARUM POLONORUM-TECHNOLOGIA ALIMENTARIA*. ISSN 1644-0730, 2016, vol. 15, no. 3, pp. 267-279., Registrované v: WOS
11. [1.1] KWAK, Dongwook - LEE, Changwoo - KONG, Inseong - LEE, JaeChul - CHOI, Donghee - NA, Changsu. Comparison of the Spasmolytic Effects of Jakyak-Gamcho Decoctions Derived via Different Extractants. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2015, vol., no., pp., Registrované v: WOS
12. [1.1] LE THAO MY, Phan - VAN LUC, Tran - DO DAT, Tran - HOAI THANH, Vuong - KHANH DUY, Huynh - THANH PHONG, Mai - MINH NAM, Hoang - HUU HIEU, Nguyen. Optimization of Flavonoids Extraction from Vietnamese Male Papaya (*Carica papaya*, L.) Flowers by Ultrasound-Assisted Method and Testing Bioactivities of the Extract. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2020, vol. 5, no. 42, pp. 13407-13416. Dostupné na: <https://doi.org/10.1002/slct.202002723>., Registrované v: WOS
13. [1.1] LI, Shijie - XIONG, Qingping - LAI, Xiaoping - LI, Xia - WAN, Mianjie - ZHANG, Jingnian - YAN, Yajuan - CAO, Man - LU, Lun - GUAN, Jiemin - ZHANG, Danyan - LIN, Ying. Molecular Modification of Polysaccharides and Resulting Bioactivities. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2016, vol. 15, no. 2, pp. 237-250., Registrované v: WOS
14. [1.1] MAJI, Biswajit. Introduction to natural polysaccharides. In *FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS*. ISSN 2049-9485, 2019, vol., no., pp. 1-31., Registrované v: WOS
15. [1.1] MAZLITA, Y. - LEE, H. V. - HAMID, S. B. A. Preparation of Cellulose Nanocrystals Bio-Polymer From Agro-Industrial Wastes: Separation and Characterization. In *POLYMERS & POLYMER COMPOSITES*. ISSN 0967-3911, 2016, vol. 24, no. 9, pp. 719-728., Registrované v: WOS
16. [1.1] MUATASIM, Rahma - MA, Haile - YANG, Xue. Effect of multimode ultrasound assisted extraction on the yield of crude polysaccharides from *Lycium Barbarum* (Goji). In *FOOD SCIENCE AND TECHNOLOGY*. ISSN 0101-2061, 2018, vol. 38, no., pp. 160-166., Registrované v: WOS
17. [1.1] OHORO, C. R. - ADENIJI, A. O. - OKOH, A. I. - OKOH, O. O. Distribution and Chemical Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in the Environmental Systems: A Review. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*. ISSN 1661-7827, 2019, vol. 16, no. 17, pp., Registrované v:

WOS

18. [1.1] OMRI, Med Amin - TRIKI, A. - GUICHA, M. - BEN HASSEN, Med - AROUS, M. - EL HAMZAOU, H. Ahmed - BULO, A. Adhesion analysis of non-woven natural fibres in unsaturated polyester resin. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, 2015, vol. 118, no. 3, pp. 1067-1078., Registrované v: WOS
19. [1.1] SHEN, Shuang-Fei - ZHU, Li-Fang - WU, Zijing - WANG, Guangkun - AHMAD, Zeeshan - CHANG, Ming-Wei. Production of triterpenoid compounds from *Ganoderma lucidum* spore powder using ultrasound-assisted extraction. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2020, vol. 50, no. 3, pp. 302-315. Dostupné na: <https://doi.org/10.1080/10826068.2019.1692218>., Registrované v: WOS
20. [1.1] TOHTAHON, Zeynep - ZHANG, Lu - HAN, Jianxin - XIE, Xing - TU, Zongcai - YUAN, Tao. Extraction optimization, structural characterization and bioactivity evaluation of triterpenoids from hawthorn (*Crataegus cuneata*) fruits. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2017, vol. 41, no. 4, pp., Registrované v: WOS
21. [1.1] TRIKI, A. - DITTMER, J. - BEN HASSEN, Med - AROUS, M. - BULO, A. - GARGOURI, Med. Spectroscopy analyses of hybrid unsaturated polyester composite reinforced by Alfa, wool, and thermo-binder fibres. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2016, vol. 58, no. 2, pp. 255-264., Registrované v: WOS
22. [1.1] WANG, Juan - LU, He Dong - MUHAMMAD, Umair - HAN, Jin Zhi - WEI, Zhao Hui - LU, Zhao Xin - BIE, Xiao Mei - LU, Feng Xia. Ultrasound-assisted extraction of polysaccharides from *Artemisia selengensis* Turcz and its antioxidant and anticancer activities. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2016, vol. 53, no. 2, pp. 1025-1034., Registrované v: WOS
23. [1.1] XIAO, Yanhong - CHEN, Long - FAN, Yanfang - YAN, Peng - LI, Suting - ZHOU, Xiaohui. The effect of boletus polysaccharides on diabetic hepatopathy in rats. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2019, vol. 308, no., pp. 61-69., Registrované v: WOS
24. [1.1] XU, Ji-Kun - LI, Ming-Fei - SUN, Run-Cang. Identifying the impact of ultrasound-assisted extraction on polysaccharides and natural antioxidants from *Eucommia ulmoides* Oliver. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 3, pp. 473-481., Registrované v: WOS
25. [1.1] YAN, Yajuan - LI, Xia - WAN, Mianjie - CHEN, Jingping - LI, Shijie - CAO, Man - ZHANG, Danyan. Effect of extraction methods on property and bioactivity of water-soluble polysaccharides from *Amomum villosum*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 632-635., Registrované v: WOS
26. [1.1] YILDIRIM, Ali - ONER, Mehmet D. Electrical Conductivity, Water Absorption, Leaching, and Color Change of Chickpea (*Cicer arietinum* L.) during Soaking with Ultrasound Treatment. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2015, vol. 18, no. 6, pp. 1359-1372., Registrované v: WOS
27. [1.1] YIP, Ka-Man - XU, Jun - TONG, Wing-Sum - ZHOU, Shan-Shan - YI, Tao - ZHAO, Zhong-Zhen - CHEN, Hu-Biao. Ultrasound-Assisted Extraction May Not Be a Better Alternative Approach than Conventional Boiling for Extracting Polysaccharides from Herbal Medicines. In

MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

28. [1.1] YOU, Qinghong - YIN, Xiulian - XU, Hong. ENHANCED COMPOUND-ENZYMES-ASSISTED EXTRACTION OF POLYSACCHARIDES FROM *Cornus officinalis*. In CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY. ISSN 1451-9372, 2015, vol. 21, no. 1, pp. 123-130., Registrované v: WOS

29. [1.1] ZHANG, Ting - QU, Zhipeng - LI, Bin - YANG, Zhaoguang. Simultaneous Determination of Atrazine, Pendimethalin, and Trifluralin in Fish Samples by QuEChERS Extraction Coupled With Gas Chromatography-Electron Capture Detection. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2019, vol. 12, no. 5, pp. 1179-1186., Registrované v: WOS

30. [1.2] ALZORQI, Ibrahim - MANICKAM, Sivakumar. Ultrasonic process intensification for the efficient extraction of nutritionally active ingredients of polysaccharides from bioresources #42. In Handbook of Ultrasonics and Sonochemistry, 2016-01-01, pp. 1271-1286., Registrované v: SCOPUS

31. [1.2] AYOUBI, Saman - HASHEMZADEH, Mohammad Sadegh - MAJDI, Ali - KOJURI, Saba Amiri - PAHLAVAN, Mahin - MIRTAJANI, Bashir - AGHAJANI, Jafar - LATIFI, Zahra - RAMZANIAN, Roya - SHAHIDZADEH, Roya - TAT, Mehdi - DOROSTKAR, Ruhollah. Effect of Sage Herb (*Salvia officinalis*) on *Candida albicans* and *F. hpatitca*. In Der Pharmacia Lettre, 2016-01-01, 8, 5, pp. 158-163., Registrované v: SCOPUS

32. [1.2] KAO, Tsai Hua - CHEN, Bing Huei. Functional components in *Zizyphus* with emphasis on polysaccharides. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 795-827., Registrované v: SCOPUS

33. [1.2] MARTINS, Rodrigo M. - FREITAS, Luis Victor D. - MONTES, Ana Carolina R. - FREITAS, Luis Alexandre P. The extraction of bioactives from plants. In Recent Developments in Phytomedicine Technology, 2017-01-01, pp. 93-123., Registrované v: SCOPUS

34. [1.2] TRIKI, A. - OMRI, Med Amin - HASSEN, Med Ben - AROUS, M. Spectroscopic analysis of unsaturated polyester resin-based composites and nanocomposites. In Unsaturated Polyester Resins: Fundamentals, Design, Fabrication, and Applications, 2019-01-01, pp. 313-366., Registrované v: SCOPUS

35. [1.2] WU, Yanfang - WANG, Xinsheng - FAN, Enguo. Extraction, structure, and bioactivities of the polysaccharides from *Fructus*. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1585-1607., Registrované v: SCOPUS

ADCA491 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Comparison of conventional and ultrasound-assisted extraction of phenolics-rich heteroxylans from wheat bran. In *Ultrasonics Sonochemistry*, 2008, vol.15, p. 1062-1068. (2007: 2.434 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). ISSN 1350-4177. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2008.04.008>

Ohlasy:

1. [1.1] ABORAGAH, Ahmed - EMBABY, Mohammed - GUNAL, Mevlut - ABUGHAZALEH, Amer. Effect of alkaline and sonication pretreatments on the rumen degradability of date palm seeds. In TROPICAL ANIMAL HEALTH AND PRODUCTION. ISSN 0049-4747, 2020, vol. 52, no.

- 2, pp. 771-776. Dostupné na: <https://doi.org/10.1007/s11250-019-02068-w>, Registrované v: WOS
2. [1.1] ALVARADO-MARTINEZ, Zabdiel - ADITYA, Arpita - BISWAS, Debabrata. Plant antioxidants, extraction strategies, and their application in meat. In MEAT QUALITY ANALYSIS: ADVANCED EVALUATION METHODS, TECHNIQUES, AND TECHNOLOGIES, 2020, vol., no., pp. 241-264., Registrované v: WOS
3. [1.1] ALVARADO-MARTINEZ, Zabdiel - ADITYA, Arpita - BISWAS, Debabrata. Plant antioxidants, extraction strategies, and their application in meat. In MEAT QUALITY ANALYSIS: ADVANCED EVALUATION METHODS, TECHNIQUES, AND TECHNOLOGIES, 2020, vol., no., pp. 241-264. Dostupné na: <https://doi.org/10.1016/B978-0-12-819233-7.00014-8>, Registrované v: WOS
4. [1.1] AMID, Mehrnoush - MURSHID, Fara Syazana - MANAP, Mohd Yazid - ISLAM SARKER, Zaidul. Optimization of ultrasound-assisted extraction of pectinase enzyme from guava (Psidium guajava) peel: Enzyme recovery, specific activity, temperature, and storage stability. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2016, vol. 46, no. 1, pp. 91-99., Registrované v: WOS
5. [1.1] AMIRKHANI, Hadi - YUNUS, Robiah - RASHID, Umer - SALLEH, Shanti Faridah - RADHIAH, A. B. Dayang - SYAM, Syafiie. Low-Temperature Dilute Acid Hydrolysis of Oil Palm Frond. In CHEMICAL ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2015, vol. 202, no. 9, pp. 1235-1244.
6. [1.1] BEN ROMDHANE, Molka - KRICHEN, Fatma - GHAZALA, Imen - ELLOUZ-CHAABOUNI, Semia - HADDAR, Anissa. EFFECT OF EXTRACTION METHODS ON CHEMICAL COMPOSITION, ANGIOTENSIN I-CONVERTING ENZYME INHIBITORY AND ANTIOXIDANT ACTIVITY OF COFFEE RESIDUE. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
7. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (Euterpe oleraceae). In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS
8. [1.1] CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi - PALANISAMY, Subramanian - TALAPPHET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>, Registrované v: WOS
9. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Wheat chaff utilization: Evaluation of antioxidant capacity of waste streams generated by different pretreatments. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 94, no., pp. 649-657., Registrované v: WOS
10. [1.1] EGOROVA, E. Yu. - KHMELEV, V. N. - MOROZHENKO, Yu. V. - REZNICHENKO, I. Yu. PRODUCTION OF VEGETABLE "MILK" FROM OIL CAKES USING ULTRASONIC CAVITATION. In FOODS AND

RAW MATERIALS. ISSN 2308-4057, 2017, vol. 5, no. 2, pp. 24-35.,

Registrované v: WOS

11. [1.1] FAN, Ling - MA, Sen - WANG, Xiaoxi - ZHENG, Xueling. Improvement of Chinese noodle quality by supplementation with arabinoxylans from wheat bran. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2016, vol. 51, no. 3, pp. 602-608.,

Registrované v: WOS

12. [1.1] FRITSCH, Caroline - STAEBLER, Andreas - HAPPEL, Anton - CUBERO MARQUEZ, Miguel Angel - AGUILO-AGUAYO, Ingrid - ABADIAS, Maribel - GALLUR, Miriam - CIGOGNINI, Ilaria Maria - MONTANARI, Angela - JOSE LOPEZ, Maria - SUAREZ-ESTRELLA, Francisca - BRUNTON, Nigel - LUENGO, Elisa - SISTI, Laura - FERRI, Maura - BELOTTI, Gianluca. Processing, Valorization and Application of Bio-Waste Derived Compounds from Potato, Tomato, Olive and Cereals: A Review. In SUSTAINABILITY. ISSN 2071-1050, 2017, vol. 9, no. 8, pp., Registrované v: WOS

13. [1.1] ISCIMEN, E. M. - HAYTA, M. Optimisation of ultrasound assisted extraction of rice bran proteins: effects on antioxidant and antiproliferative properties. In QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS. ISSN 1757-8361, 2018, vol. 10, no. 2, pp. 165-174.,

Registrované v: WOS

14. [1.1] IZYDORCZYK, Marta S. Dietary Arabinoxylans in Grains and Grain Products. In CEREAL GRAIN-BASED FUNCTIONAL FOODS: CARBOHYDRATE AND PHYTOCHEMICAL COMPONENTS. ISSN 2398-0656, 2019, vol. 6, no., pp. 167-203., Registrované v: WOS

15. [1.1] JIN, Xuchen - HU, Zhenhua - WU, Shufang - SONG, Tao - YUE, Fengxia - XIANG, Zhouyan. Promoting the material properties of xylan-type hemicelluloses from the extraction step. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 235-245., Registrované v: WOS

16. [1.1] KAYA, Esra - TUNCEL, Necati Baris - TUNCEL, Nese Yilmaz. The effect of ultrasound on some properties of pulse hulls. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 9, pp. 2779-2788., Registrované v: WOS

17. [1.1] KHOSRAVI, Azin - RAZAVI, Seyed Hadi - FADDA, Anna Maria. Advanced assessments on innovative methods to improve the bioaccessibility of polyphenols in wheat. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 88, no., pp. 1-14. Dostupné na: <https://doi.org/10.1016/j.procbio.2019.09.005>., Registrované v: WOS

18. [1.1] LIAO, Ningbo - ZHONG, Jianjun - YE, Xingqian - LU, Shan - WANG, Wenjun - ZHANG, Ronghua - XU, Jian - CHEN, Shiguo - LIU, Donghong. Ultrasonic-assisted enzymatic extraction of polysaccharide from Corbicula fluminea: Characterization and antioxidant activity. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 60, no. 2, pp. 1113-1121., Registrované v: WOS

19. [1.1] LI, Kexin - MA, Haile - LI, Shujun - ZHANG, Cunsheng - DAI, Chunhua. Effect of Ultrasound on Alkali Extraction Protein from Rice Dreg Flour. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2017, vol. 40, no. 2, pp., Registrované v: WOS

20. [1.1] LI, Li - MA, Sen - FAN, Ling - ZHANG, Chi - PU, Xiaoqing -

- ZHENG, Xueling - WANG, Xiaoxi. The influence of ultrasonic modification on arabinoxylans properties obtained from wheat bran. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2016, vol. 51, no. 11, pp. 2338-2344., Registrované v: WOS
21. [1.1] LI, Ya - CAO, Shi-Yu - LIN, Sheng-Jun - ZHANG, Jia-Rong - GAN, Ren-You - LI, Hua-Bin. Polyphenolic Profile and Antioxidant Capacity of Extracts from *Gordonia axillaris* Fruits. In *ANTIOXIDANTS*, 2019, vol. 8, no. 6, pp., Registrované v: WOS
22. [1.1] LUTHRIA, Deuanand L. - LU, Yingjian - JOHN, K. M. Maria. Bioactive phytochemicals in wheat: Extraction, analysis, processing, and functional properties. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2015, vol. 18, no., pp. 910-925., Registrované v: WOS
23. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using response surface methodology. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
24. [1.1] OBAROAKPO, Joy Ujiroghene - LIU, Lu - ZHANG, Shuwen - LU, Jing - LIU, Liu - PANG, Xiaoyang - LV, Jiaping. In vitro modulation of glucagon-like peptide release by DPP-IV inhibitory polyphenol-polysaccharide conjugates of sprouted quinoa yoghurt. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 324, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126857>., Registrované v: WOS
25. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS
26. [1.1] SALIH, G. A. - AHMAD-RAUS, R. - SHABAN, M. N. - ABDULLAH, N. Extraction and purification of cytotoxic compounds from *Premna serratifolia* L. (bebuas) for human breast cancer treatment. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2017, vol. 24, no., pp. S281-S286., Registrované v: WOS
27. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS
28. [1.1] SCHMIDT, Michele M. - PRESTES, Rosa C. - KUBOTA, Ernesto H. - SCAPIN, Gabrielle - MAZUTTI, Marcio A. Evaluation of antioxidant activity of extracts of banana inflorescences (*Musa cavendishii*). In *CYTA-JOURNAL OF FOOD*. ISSN 1947-6337, 2015, vol. 13, no. 4, pp. 498-505., Registrované v: WOS
29. [1.1] SCHMIDT, Michele M. - PRESTES, Rosa C. - KUBOTA, Ernesto H. - SCAPIN, Gabrielle - MAZUTTI, Marcio A. Evaluation of antioxidant activity of extracts of banana inflorescences (*Musa cavendishii*). In *CYTA-JOURNAL OF FOOD*. ISSN 1947-6337, 2015, vol. 13, no. 4, pp. 498-505., Registrované v: WOS
30. [1.1] WANG, C. C. - MA, S. - LI, L. - ZHENG, X. L. - WANG, X.

- X. Effect of modified dietary fibre from wheat bran on the quality of noodle. In QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS. ISSN 1757-8361, 2018, vol. 10, no. 1, pp. 61-68., Registrované v: WOS
31. [1.1] WANG, Junqiao - HU, Shuzhen - NIE, Shaoping - YU, Qiang - XIE, Mingyong. Reviews on Mechanisms of In Vitro Antioxidant Activity of Polysaccharides. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS
32. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS
33. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. MODELING AND OPTIMIZATION OF ULTRASOUND ASSISTED EXTRACTION PARAMETERS USING RESPONSE SURFACE METHODOLOGY FOR WATER SOLUBLE POLYSACCHARIDE EXTRACTION FROM HAZELNUT SKIN. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
34. [1.1] YUSOF, Arief Huzaimi Md - ABD GANI, Siti Salwa - ZAIDAN, Uswatun Hasanah - HALMI, Mohd Izuan Effendi - ZAINUDIN, Badrul Hisyam. Optimization of an Ultrasound-Assisted Extraction Condition for Flavonoid Compounds from Cocoa Shells (*Theobroma cacao*) Using Response Surface Methodology. In MOLECULES, 2019, vol. 24, no. 4, pp., Registrované v: WOS
35. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS
36. [1.1] ZHUANG, Xuhui - YIN, Tie - HAN, Wei - ZHANG, Xiaolin. Nutritional Ingredients and Active Compositions of Defatted Rice Bran. In RICE BRAN AND RICE BRAN OIL: CHEMISTRY, PROCESSING AND UTILIZATION, 2019, vol., no., pp. 247-270., Registrované v: WOS
37. [1.2] DAS, Amit K. - ADSARE, Sachin R. - DAS, Madhuchhanda - KULTHE, Pankaj S. - GANESAN, P. Advanced techniques in extraction of phenolics from cereals, pulses, fruits, and vegetables. In Plant Secondary Metabolites: Volume II: Stimulation, Extraction, and Utilization, 2017-01-01, pp. 27-76., Registrované v: SCOPUS
38. [1.2] FAN, Ling - MA, Sen - WANG, Xiaoxi - WANG, Rui - CHEN, Cheng. Effect of addition level and particle size of wheat bran on fermented dough properties. In Journal of the Chinese Cereals and Oils Association. ISSN 10030174, 2016-07-25, 31, 7, pp. 19-24., Registrované v: SCOPUS
39. [1.2] MA, Zhi Yu - LV, Yan Na. Study on Alkaline Extraction of Hemicelluloses from Bagasse Pith with Ultrasound-assisted. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2018-01-01, 37, 1, pp. 19-25., Registrované v: SCOPUS
40. [1.2] MD YUSOF, A. H. - ABD GANI, S. S. - ZAIDAN, U. H. - HALMI, M. I.E. - ABDUL WAHAB, N. Optimization of central composite design of ferric reducing antioxidant power from cocoa (*Theobroma cacao*) shell using ultrasound-assisted technique. In International Journal of Recent

Technology and Engineering, 2019-07-01, 8, 2 Special Issue 2, pp. 80-85.,
Registrované v: SCOPUS

41. [1.2] NAVYA, Pagolu - KHORA, Samantha S. Ultrasonic-enhanced and hot water extraction of antioxidant sulfated polysaccharides from *Codium tomentosum* stockhouse, 1797. In Biomedical Research (India). ISSN 0970938X, 2017-01-01, 28, 20, pp. 8616-8623., Registrované v: SCOPUS

42. [1.2] ONIVOGUI, Gbago - SONG, Yuanda. Isolation process of antimicrobial compounds from plants. In High Value Processing Technologies, 2016-01-01, pp. 143-162., Registrované v: SCOPUS

43. [1.2] WANG, Xiaoxi - FAN, Ling - MA, Sen - WANG, Rui - CHEN, Cheng. Effects of phenolic xylans from wheat bran on fermented dough properties and qualities of steamed bread. In Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering. ISSN 10026819, 2015-01-01, 31, 17, pp. 302-307., Registrované v: SCOPUS

44. [1.2] Xu, Y., Sun, X. S., & Wang, D. (2019). Wheat. In Integrated Processing Technologies for Food and Agricultural By-Products (pp. 3-20), Registrované v: SCOPUS

45. [1.2] YOO, Sang Hun - CHANG, Yoon Hyuk. Effects of extraction methods on in vitro biological capacities and rheological properties of polysaccharides from red pepper stems. In Preventive Nutrition and Food Science. ISSN 22871098, 2017-09-01, 22, 3, pp. 223-230., Registrované v: SCOPUS

46. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2017-10-16, pp. 173-191., Registrované v: SCOPUS

47. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2018-01-01, pp. 173-191., Registrované v: SCOPUS

48. [1.2] ŽLABUR, Jana - VOĆA, Sandra - BRNČIĆ, Mladen - RIMAC-BRNČIĆ, Suzana. New Trends in Food Technology for Green Recovery of Bioactive Compounds From Plant Materials. In Role of Materials Science in Food Bioengineering, 2018-04-02, pp. 1-36., Registrované v: SCOPUS

ADCA492 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - ŠANDULA, Jozef - HRÍBALOVÁ, V. - OMELKOVÁ, Jiřina. Influence of the drying method on the physical properties and immunomodulatory activity of the particulate (1-3)-beta-D-glucan from *Saccharomyces cerevisiae*. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2003, vol. 51, p. 9-15. (2002: 1.655 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] BAKIR, Gorkem - GIROUARD, Benoit E. - JOHNS, Robert W. - FINDLAY, Catherine R.J. - BECHTEL, Hans A. - EISELE, Max - KAMINSKYJ, Susan G. W. - DAHMS, Tanya E. S. - GOUGH, Kathleen M. Ultrastructural and SINS analysis of the cell wall integrity response of *Aspergillus nidulans* to the absence of galactofuranose. In ANALYST. ISSN

- 0003-2654, 2019, vol. 144, no. 3, pp. 928-934., Registrované v: WOS
2. [1.1] BORCHANI, Chema - FONTEYN, Fabienne - JAMIN, Guilhem - PAQUOT, Michel - THONART, Philippe - BLECKER, Christophe. Physical, functional and structural characterization of the cell wall fractions from baker's yeast *Saccharomyces cerevisiae*. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 194, no., pp. 1149-1155., Registrované v: WOS
3. [1.1] BZDUCHA-WROBEL, Anna - BRYLA, Marcin - GIENTKA, Iwona - BLAZEJAK, Stanislaw - JANOWICZ, Monika. Candida utilis ATCC 9950 Cell Walls and (1,3)/(1,6)-Glucan Preparations Produced Using Agro-Waste as a Mycotoxins Trap. In TOXINS. ISSN 2072-6651, 2019, vol. 11, no. 4, pp., Registrované v: WOS
4. [1.1] CEBIN, Aleksandra Vojvodic - PETRAVIC-TOMINAC, Vlatka - DJAKOVIC, Senka - SRECEC, Sinisa - ZECHNER-KRPAN, Vesna - PILJAC-ZEGARAC, Jasenka - ISIKHUEMHEN, Omoanghe S. Polysaccharides and Antioxidants from Culinary-Medicinal White Button Mushroom, *Agaricus bisporus* (Agaricomycetes), Waste Biomass. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 8, pp. 797-808., Registrované v: WOS
5. [1.1] DONG, Ji-Lin - YANG, Mei - SHEN, Rui-Ling - ZHAI, Ya-Fei - YU, Xiao - WANG, Zhen. Effects of thermal processing on the structural and functional properties of soluble dietary fiber from whole grain oats. In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, 2019, vol. 25, no. 4, pp. 282-294., Registrované v: WOS
6. [1.1] LIEPINS, Janis - KOVACOVA, Elena - SHVIRKSTS, Karlis - GRUBE, Mara - RAPOPORT, Alexander - KOGAN, Grigorij. Drying enhances immunoactivity of spent brewer's yeast cell wall beta-D-glucans. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2015, vol. 206, no., pp. 12-16., Registrované v: WOS
7. [1.1] NGUELA, J. Mekoue - SIECZKOWSKI, N. - ROI, S. - VERNHET, A. Sorption of Grape Proanthocyanidins and Wine Polyphenols by Yeasts, Inactivated Yeasts, and Yeast Cell Walls. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 2, pp. 660-670., Registrované v: WOS
8. [1.1] PELTZER, M. A. - SALVAY, A. G. - DELGADO, J. F. - DE LA OSA, O. - WAGNER, J. R. Use of Residual Yeast Cell Wall for New Biobased Materials Production: Effect of Plasticization on Film Properties. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 11, pp. 1995-2007., Registrované v: WOS
9. [1.1] PIOTROWSKA, Malgorzata - MASEK, Anna. *Saccharomyces Cerevisiae* Cell Wall Components as Tools for Ochratoxin A Decontamination. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 4, pp. 1151-1162., Registrované v: WOS
10. [1.1] ROSCH, Christiane - MEIJERINK, Marjolein - DELAHAIJE, Roy J. B. M. - TAVERNE, Nico - GRUPPEN, Harry - WELLS, Jerry M. - SCHOLS, Henk A. Immunomodulatory properties of oat and barley beta-glucan populations on bone marrow derived dendritic cells. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2016, vol. 26, no., pp. 279-289., Registrované v: WOS
11. [1.1] ROTREKL, Dominik - DEVRIENDT, Bert - COX, Eric - KAVANOVA, Lenka - FALDYNA, Martin - SALAMUNOVA, Petra - BAD'O,

- Zuzana - PROKOPEC, Vadym - STEPANEK, Frantisek - HANUS, Jaroslav - HOSEK, Jan. Glucan particles as suitable carriers for the natural anti-inflammatory compounds curcumin and diplacone Evaluation in an ex vivo model. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2020, vol. 582, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2020.119318>., Registrované v: WOS
12. [1.1] RUPHUY, Gabriela - SALON, Ivan - TOMAS, Jan - SALAMUNOVA, Petra - HANUS, Jaroslav - STEPANEK, Frantisek. Encapsulation of poorly soluble drugs in yeast glucan particles by spray drying improves dispersion and dissolution properties. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2020, vol. 576, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2019.118990>., Registrované v: WOS
13. [1.1] SHAO, Yujing - WANG, Zhong - TIAN, Xiangyu - GUO, Yuming - ZHANG, Haibo. Yeast beta-D-glucans induced antimicrobial peptide expressions against Salmonella infection in broiler chickens. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 85, no., pp. 573-584., Registrované v: WOS
14. [1.1] TAKALLOO, Zeinab - NIKKHAH, Mohsen - NEMATI, Robabeh - JALILIAN, Nezam - SAJEDI, Reza H. Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (*Saccharomyces cerevisiae*): a comparative study. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02840-3>., Registrované v: WOS
15. [1.1] VARELAS, Vassileios - LIOUNI, Maria - CALOKERINOS, Antony C. - NERANTZIS, Elias T. An evaluation study of different methods for the production of D-glucan from yeast biomass. In DRUG TESTING AND ANALYSIS. ISSN 1942-7603, 2016, vol. 8, no. 1, pp. 46-56., Registrované v: WOS
16. [1.1] VEVERKA, Miroslav - MURANYI, Andrej - BAKOS, Dusan - KOCHAN, Jan - JORIK, Vladimir - OMASTOVA, Maria. Arabinogalactan:beta-glucan as novel biodegradable carriers for recombinant human thrombin. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2016, vol. 27, no. 3, pp. 202-217., Registrované v: WOS
17. [1.1] VEVERKA, Miroslav - DUBAJ, Tibor - VEVERKOVA, Eva - SIMON, Peter. Natural oil emulsions stabilized by beta-glucan gel. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2018, vol. 537, no., pp. 390-398., Registrované v: WOS
18. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
19. [1.1] YOON, S. A. - CHA, S. H. - JUN, S. W. - PARK, S. J. - PARK, J-Y - LEE, S. - KIM, H. S. - AHN, Y. H. Identifying different types of microorganisms with terahertz spectroscopy. In BIOMEDICAL OPTICS EXPRESS. ISSN 2156-7085, 2020, vol. 11, no. 1, pp. 406-416. Dostupné na: <https://doi.org/10.1364/BOE.376584>., Registrované v: WOS

20. [1.2] ABADI, F. A. - NASER, J. M. Improving the sensory and qualitative properties of barley bread using broken wheat wet gluten. In IOP Conference Series: Earth and Environmental Science. ISSN 17551307, 2019-12-06, 388, 1, pp., Registrované v: SCOPUS

ADCA493 HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - VRCHOTOVÁ, Nadežda - EBRINGEROVÁ, Anna. Non- cellulosic polysaccharides from the leaves of small balsam (*Impatiens parviflora* DC.). In *Carbohydrate Research*, 2014, vol. 389, p. 147-153. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] BALA, Esha - SINGHA, Siddhartha - PATRA, Sanjukta. Polysaccharides from leafy vegetables: chemical, nutritional and medicinal properties. In *NATURAL POLYSACCHARIDES IN DRUG DELIVERY AND BIOMEDICAL APPLICATIONS*, 2019, vol., no., pp. 567-588., Registrované v: WOS
2. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER, Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Gastroprotective effects and structural characterization of a pectic fraction isolated from *Artemisia campestris* subsp *maritima*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS
3. [1.1] FU, Genque - YUE, Panpan - HU, Yajie - LI, Nan - SHI, Zhengjun - PENG, Feng. Fractionation of DMSO-Extracted and NaOH-Extracted Hemicelluloses by Gradient Ethanol Precipitation from *Neosinocalamus affinis*. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
4. [1.1] GRABOWSKA, Karolina - PODOLAK, Irma - GALANTY, Agnieszka - ZMUDZKI, Pawel - KOCZURKIEWICZ, Paulina - PISKA, Kamil - PEKALA, Elzbieta - JANECKO, Zbigniew. Two new triterpenoid saponins from the leaves of *Impatiens parviflora* DC. and their cytotoxic activity. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 96, no., pp. 71-79., Registrované v: WOS
5. [1.1] GRABOWSKA, Karolina - WROBEL, Dagmara - ZMUDZKI, Pawel - PODOLAK, Irma. Anti-inflammatory activity of saponins from roots of *Impatiens parviflora* DC. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2020, vol. 34, no. 11, pp. 1581-1585. Dostupné na: <https://doi.org/10.1080/14786419.2018.1519708>., Registrované v: WOS
6. [1.1] GUO, Min - DING, Guo-Bin - GUO, Songjia - LI, Zhuoyu - ZHAO, Liangqi - LI, Ke - GUO, Xiangrong. Isolation and antitumor efficacy evaluation of a polysaccharide from *Nostoc commune* Vauch. In *FOOD & FUNCTION*. ISSN 2042-6496, 2015, vol. 6, no. 9, pp. 3035-3044., Registrované v: WOS
7. [1.1] HE, Shudong - WANG, Xin - ZHANG, Yi - WANG, Jing - SUN, Hanju - WANG, Junhui - CAO, Xiaodong - YE, Yongkang. Isolation and prebiotic activity of water-soluble polysaccharides fractions from the bamboo shoots (*Phyllostachys praecox*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 151, no., pp. 295-304., Registrované v: WOS
8. [1.1] HUANG, Chao - CAO, Xiyue - CHEN, Xingfu - FU, Yuping -

- ZHU, Yingguo - CHEN, Zhengli - LUO, Qihui - LI, Lixia - SONG, Xu - JIA, Renyong - YIN, Zhongqiong - FENG, Bin - ZOU, Yuanfeng. A pectic polysaccharide from *Ligusticum chuanxiong* promotes intestine antioxidant defense in aged mice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 915-922., Registrované v: WOS
9. [1.1] JUROVA, Jana - MATOUSKOVA, Martina - WAJS-BONIKOWSKA, Anna - KALEMBA, Danuta - RENCO, Marek - SEDLAK, Vincent - GOGAL'OVA, Zuzana - PORACOVA, Janka - SALAMUN, Peter - GRUL'OVA, Daniela. Potential Phytotoxic Effect of Essential Oil of Non-Native Species *Impatiens parviflora* DC. In *PLANTS-BASEL*, 2019, vol. 8, no. 7, pp., Registrované v: WOS
10. [1.1] LI, Shuhong - GAO, Ang - DONG, Shuang - CHEN, Ye - SUN, Shuang - LEI, Zhongfang - ZHANG, Zhenya. Purification, antitumor and immunomodulatory activity of polysaccharides from soybean residue fermented with *Morchella esculenta*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 96, no., pp. 26-34., Registrované v: WOS
11. [1.1] LI, Shuhong - TANG, Dong - WEI, Rui - ZHAO, Shuang - MU, Wanju - QIANG, Siqi - ZHANG, Zhenya - CHEN, Ye. Polysaccharides production from soybean curd residue via *Morchella esculenta*. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2019, vol. 43, no. 4, pp., Registrované v: WOS
12. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo *Phyllostachys aurea*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS
13. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - MATULOVA, Maria - CAPEK, Peter - GANCARZ, Roman. Polyphenolic-polysaccharide conjugates of *Sanguisorba officinalis* L. with anticoagulant activity mediated mainly by heparin cofactor II. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 93, no., pp. 1019-1029., Registrované v: WOS
14. [1.1] SZEWCZYK, Katarzyna. Phytochemistry of the genus *impatiens* (Balsaminaceae): A review. In *BIOCHEMICAL SYSTEMATICS AND ECOLOGY*. ISSN 0305-1978, 2018, vol. 80, no., pp. 94-121., Registrované v: WOS
15. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS
16. [1.1] WANG YIYU - LIU JIAWEI - SIMA ZHENHUA - SONG HOUPAN - LI RULIU - CAI JIAZHONG - CHEN WEIWEN. Isolation, Structural Characterization and IEC-6 Cell Migration Activities of Polysaccharides From *Atractylodes Macrocephala* Koidz. In *CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE*. ISSN 0251-0790, 2015, vol. 36, no. 2, pp. 299-305., Registrované v: WOS

17. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W.
Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS
18. [1.1] ZHU, Xiaolan - XU, Yingbo - ZHOU, Shun - YANG, Jun - GAO, Yun. Simultaneous Structural and Quantitative Analysis of Starch from Flue-Cured Tobacco Leaves by C-13 CP/MAS NMR Spectroscopy. In *CURRENT ANALYTICAL CHEMISTRY*. ISSN 1573-4110, 2018, vol. 14, no. 2, pp. 166-173., Registrované v: WOS
19. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingild - INNGJERDINGEN, Kari Tvete - HUANG, Chao - LEI, Fei-Yi - SONG, Xu - LI, Lixia - YE, Gang - ETICHA, Lemlem Dugassa - YIN, Zhongqiong - PAULSEN, Berit Smestad. Polysaccharides with immunomodulating activity from roots of *Gentiana crassicaulis*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 172, no., pp. 306-314., Registrované v: WOS
20. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingild - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI, Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of *Ligusticum chuanxiong*. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS
21. [1.1] ZOU, Yuan-Feng - ZHANG, Yan-Yun - PAULSEN, Berit Smestad - RISE, Frode - CHEN, Zheng-Li - JIA, Ren-Yong - LI, Li-Xia - SONG, Xu - FENG, Bin - TANG, Hua-Qiao - HUANG, Chao - YIN, Zhong-Qiong. Structural features of pectic polysaccharides from stems of two species of *Radix Codonopsis* and their antioxidant activities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 159, no., pp. 704-713. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.083>., Registrované v: WOS
22. [1.2] SZEWCZYK, Katarzyna - HEISE, Esther Marie - PIWOWARSKI, Jakub P. Preliminary Characterization and Bioactivities of Some *Impatiens* L. Water-Soluble Polysaccharides. In *Molecules*, 2018-01-01, 23, 3, pp., Registrované v: SCOPUS

ADCA494 HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - POLOVKA, Martin - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Structural features of two heteroxylan polysaccharide fractions from wheat bran with anti-complementary and antioxidant activities. In *Carbohydrate Polymers*, 2013, vol. 93, p. 22-30. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.05.021>

Ohlasy:

1. [1.1] BIJALWAN, Vandana - ALI, Usman - KESARWANI, Atul Kumar - YADAV, Kamalendra - MAZUMDER, Koushik. Hydroxycinnamic acid bound arabinoxylans from millet brans-structural features and antioxidant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 88, no., pp. 296-305.,

Registrované v: WOS

2. [1.1] CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi - PALANISAMY, Subramanian - TALAPPET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>, Registrované v: WOS

3. [1.1] CROWLEY, Damian - O'CALLAGHAN, Yvonne - O'BRIEN, Nora M. The Immunomodulatory Potential of Cereal Grains. In CURRENT NUTRITION & FOOD SCIENCE. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 183-196., Registrované v: WOS

4. [1.1] DO NASCIMENTO, Georgia Erdmann - BAGGIO, Cristiane H. - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Arabinoxylan from Mucilage of Tomatoes (*Solanum lycopersicum* L.): Structure and Antinociceptive Effect in Mouse Models. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 6, pp. 1239-1244., Registrované v: WOS

5. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS

6. [1.1] FENG, Lei - YIN, Junyi - NIE, Shaoping - WAN, Yiqun - XIE, Mingyong. Fractionation, physicochemical property and immunological activity of polysaccharides from *Cassia obtusifolia*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 946-953., Registrované v: WOS

7. [1.1] FRITSCH, Caroline - STAEBLER, Andreas - HAPPEL, Anton - CUBERO MARQUEZ, Miguel Angel - AGUILO-AGUAYO, Ingrid - ABADIAS, Maribel - GALLUR, Miriam - CIGOGNINI, Ilaria Maria - MONTANARI, Angela - JOSE LOPEZ, Maria - SUAREZ-ESTRELLA, Francisca - BRUNTON, Nigel - LUENGO, Elisa - SISTI, Laura - FERRI, Maura - BELOTTI, Gianluca. Processing, Valorization and Application of Bio-Waste Derived Compounds from Potato, Tomato, Olive and Cereals: A Review. In SUSTAINABILITY. ISSN 2071-1050, 2017, vol. 9, no. 8, pp., Registrované v: WOS

8. [1.1] GOMES, Helder A. R. - MOREIRA, Leonora R. S. - FILHO, Edivaldo X. F. Enzymes and Food Industry: A Consolidated Marriage. In ADVANCES IN BIOTECHNOLOGY FOR FOOD INDUSTRY, 2018, vol. 14, no., pp. 55-89., Registrované v: WOS

9. [1.1] GUADALUPE PEREZ-FLORES, Jestis - CONTRERAS-LOPEZ, Elizabeth - CASTANEDA-OVANDO, Araceli - PEREZ-MORENO, Fidel - AGUILAR-ARTEAGA, Karina - ALVAREZ-ROMERO, Giaan A. - TELLEZ-JURADO, Alejandro. Physicochemical characterization of an arabinoxylan-rich fraction from brewers' spent grain and its application as a release matrix for caffeine. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 116, no., pp. 1020-1030., Registrované v: WOS

10. [1.1] GUO, Rui - XU, Zhongxiang - WU, Shengfang - LI, Xujiao - LI, Jinan - HU, Hao - WU, Yan - AI, Lianzhong. Molecular properties and

- structural characterization of an alkaline extractable arabinoxylan from hull-less barley bran. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 218, no., pp. 250-260., Registrované v: WOS
11. [1.1] HAN, Wenfang - LI, Jiangtao - DING, Yuqin - XIONG, Shanbai - ZHAO, Siming. Structural Features, Antitumor and Antioxidant Activities of Rice Bran Polysaccharides Using Different Extraction Methods. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2017, vol. 82, no. 10, pp. 2403-2410., Registrované v: WOS
12. [1.1] HERRERA-BALANDRANO, Daniela D. - BAEZ-GONZALEZ, Juan G. - CARVAJAL-MILLAN, Elizabeth - MUY-RANGEL, Dolores - URIAS-ORONA, Vania - MARTINEZ-LOPEZ, Ana L. - MARQUEZ-ESCALANTE, Jorge A. - HEREDIA, Jose B. - BETA, Trust - NINO-MEDINA, Guillermo. Alkali-Extracted Feruloylated Arabinoxylans from Nixtamalized Maize Bran Byproduct: A Synonymous with Soluble Antioxidant Dietary Fiber. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 2, pp. 403-409. Dostupné na: <https://doi.org/10.1007/s12649-018-0462-z>., Registrované v: WOS
13. [1.1] HUO, Jiangyan - LU, Yan - JIAO, Yukun - CHEN, Daofeng. Structural characterization and anticomplement activity of an acidic polysaccharide from *Hedyotis diffusa*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1553-1560. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.132>., Registrované v: WOS
14. [1.1] JABLONSKY, Michal - MAJOVA, Veronika - STRIZINCOVA, Petra - SIMA, Jozef - JABLONSKY, Jozef. Investigation of Total Phenolic Content and Antioxidant Activities of Spruce Bark Extracts Isolated by Deep Eutectic Solvents. In CRYSTALS. ISSN 2073-4352, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/cryst10050402>., Registrované v: WOS
15. [1.1] KIM, Hoon - HONG, Hee-Do - SHIN, Kwang-Soon. Structure elucidation of an immunostimulatory arabinoxylan-type polysaccharide prepared from young barley leaves (*Hordeum vulgare* L.). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 282-293., Registrované v: WOS
16. [1.1] LI, Jie - DU, Jinhua - WU, Xiaoying - ZHANG, Zhao'An - ZHANG, Kaili. Changes in crude arabinoxylan during cloudy wheat beer brewing on a production scale. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 2, pp. 192-198., Registrované v: WOS
17. [1.1] LI, Jie - DU, Jinhua. Molecular Characterization of Arabinoxylan from Wheat Beer, Beer Foam and Defoamed Beer. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 7, pp., Registrované v: WOS
18. [1.1] LI, Lin-Yan - WANG, Yu-Xiao - ZHANG, Ting - ZHANG, Jian-Fang - PAN, Meng - HUANG, Xiao-Jun - YIN, Jun-Yi - NIE, Shao-Ping. Structural characteristics and rheological properties of alkali-extracted arabinoxylan from dehulled barley kernel. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 249, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116813>., Registrované v: WOS
19. [1.1] LI, Qian - YUAN, Xue-Jiao - JIA, Hong-Jiao - ZHANG, Yi - WANG, Wen-Hang. New Polysaccharides from Rice Bran Fermented with

Monascus anka and Auricularia auricular. In PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE ON MEDICINE AND BIOPHARMACEUTICALS, 2016, vol., no., pp. 1467-1478., Registrované v: WOS

20. [1.1] LI, Wenmei - WANG, Yajun - WEI, Hailian - ZHANG, Yubao - GUO, Zhihong - QIU, Yang - WEN, Lingrong - XIE, Zhongkui. Structural characterization of Lanzhou lily (*Lilium davidiivar.unicolor*) polysaccharides and determination of their associated antioxidant activity. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2020, vol. 100, no. 15, pp. 5603-5616. Dostupné na: <https://doi.org/10.1002/jsfa.10613>., Registrované v: WOS

21. [1.1] LORENZO, M. - PINEDO, M. L. - EQUIZA, M. A. - FERNANDEZ, P. V. - CIANCIA, M. - GANEM, D. G. - TOGNETTI, J. A. Changes in apoplastic peroxidase activity and cell wall composition are associated with cold-induced morpho-anatomical plasticity of wheat leaves. In PLANT BIOLOGY. ISSN 1435-8603, 2019, vol. 21, no., pp. 84-94., Registrované v: WOS

22. [1.1] LUNA-VALDEZ, Jesus G. - BALANDRAN-QUINTANA, Rene R. - AZAMAR-BARRIOS, Jose A. - RAMOS CLAMONT-MONTFORT, Gabriela - MENDOZA-WILSON, Ana M. - MADERA-SANTANA, Tomas J. - RASCON-CHU, Agustin - CHAQUILLA-QUILCA, Guadalupe. Assembly of biopolymer particles after thermal conditioning of wheat bran proteins contained in a 21-43 kDa size exclusion chromatography fraction. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 94, no., pp. 144-151., Registrované v: WOS

23. [1.1] MALUNGA, Lovemore Nkhata - BETA, Trust. Antioxidant capacity of arabinoxylan oligosaccharide fractions prepared from wheat aleurone using *Trichoderma viride* or *Neocallimastix patriciarum* xylanase. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 167, no., pp. 311-319., Registrované v: WOS

24. [1.1] MARQUEZ-ESCALANTE, Jorge A. - CARVAJAL-MILLAN, Elizabeth. Feruloylated Arabinoxylans from Maize Distiller's Dried Grains with Solubles: Effect of Feruloyl Esterase on their Macromolecular Characteristics, Gelling, and Antioxidant Properties. In SUSTAINABILITY, 2019, vol. 11, no. 22, pp., Registrované v: WOS

25. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS

26. [1.1] MARTINEZ-LOPEZ, A. L. - CARVAJAL-MILLAN, E. - SOTELO-CRUZ, N. - MICARD, V. - RASCON-CHU, A. - LOPEZ-FRANCO, Y. L. - LIZARDI-MENDOZA, J. - CANETT-ROMERO, R. Enzymatically cross-linked arabinoxylan microspheres as oral insulin delivery system. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, no., pp. 952-959., Registrované v: WOS

27. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - RASCON-CHU, Agustin - ASTIAZARAN-GARCIA, Humberto -

- VALENCIA-RIVERA, Dora E. - BROWN-BOJORQUEZ, Francisco - ALDAY, Efrain - VELAZQUEZ, Carlos. Arabinoxylan-Based Particles: In Vitro Antioxidant Capacity and Cytotoxicity on a Human Colon Cell Line. In *MEDICINA-LITHUANIA*. ISSN 1010-660X, 2019, vol. 55, no. 7, pp., Registrované v: WOS
28. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - YADAV, Madhav P. - LOPEZ-FRANCO, Yolanda L. - RASCON-CHU, Agustin - LIZARDI-MENDOZA, Jaime - BROWN-BOJORQUEZ, Francisco - SILVA-CAMPA, Erika - PEDROZA-MONTERO, Martin. Partial removal of protein associated with arabinoxylans: Impact on the viscoelasticity, crosslinking content, and microstructure of the gels formed. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2019, vol. 136, no. 15, pp., Registrované v: WOS
29. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - ORTEGA-GARCIA, Jesus - SANTIAGO-GOMEZ, Lubitza B. - DE ANDA-FLORES, Yubia - MARTINEZ-ROBINSON, Karla G. - VALENCIA-RIVERA, Dora E. Effect of Ultrasound-Treated Arabinoxylans on the Oxidative Stability of Soybean Oil. In *ANTIOXIDANTS*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/antiox9020147>., Registrované v: WOS
30. [1.1] MENDIS, Mihiri - LECLERC, Estelle - SIMSEK, Senay. Arabinoxylans, gut microbiota and immunity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 139, no., pp. 159-166., Registrované v: WOS
31. [1.1] PAVLOVICH-ABRIL, Alan - ROUZAUD-SANDEZ, Ofelia - CARVAJAL-MILLAN, Elizabeth - ELENA NAVARRO, Rosa - MARIBEL ROBLES-SANCHEZ, Rosario - MANUEL BARRON-HOYOS, Jesus. Molecular characterization of water extractable arabinoxylans isolated from wheat fine bran and their effect on dough viscosity. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2016, vol. 74, no., pp. 484-492., Registrované v: WOS
32. [1.1] ROSICKA-KACZMAREK, Justyna - KOMISARCZYK, Aleksandra - NEBESNY, Ewa - MAKOWSKI, Bartlomiej. The influence of arabinoxylans on the quality of grain industry products. In *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. ISSN 1438-2377, 2016, vol. 242, no. 3, pp. 295-303., Registrované v: WOS
33. [1.1] ROSICKA-KACZMAREK, Justyna - KOMISARCZYK, Aleksandra - NEBESNY, Ewa. Heteropolysaccharide preparations from rye and wheat bran as sources of antioxidants. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2018, vol. 81, no., pp. 37-43., Registrované v: WOS
34. [1.1] SHEN, Ting - WANG, Gongcheng - YOU, Long - ZHANG, Liang - REN, Haiwei - HU, Weicheng - QIANG, Qian - WANG, Xinfeng - JIA, Lilian - GU, Zhengzhong - ZHAO, Xiangxiang. Polysaccharide from wheat bran induces cytokine expression via the toll-like receptor 4-mediated p38 MAPK signaling pathway and prevents cyclophosphamide-induced immunosuppression in mice. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2017, vol. 61, no., pp., Registrované v: WOS
35. [1.1] SKULCOVA, A. - HASCICOVA, Z. - HRDLICKA, L. - SIMA, J. - JABLONSKY, M. GREEN SOLVENTS BASED ON CHOLINE CHLORIDE FOR THE EXTRACTION OF SPRUCE BARK (PICEA ABIES). In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2018,

vol. 52, no. 3-4, pp. 171-179., Registrované v: WOS

36. [1.1] SONG, Juyi - CHEN, Hui - WEI, Yafeng - LIU, Jian. Synthesis of carboxymethylated beta-glucan from naked barley bran and its antibacterial activity and mechanism against *Staphylococcus aureus*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 242, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116418>., Registrované v: WOS

37. [1.1] SRINIVASAN, Aswini - EKAMBARAM, Sanmuga Priya - PERUMAL, Senthamil Selvan - ARULDHAS, Jenifer - ERUSAPPAN, Thamizharasi. Chemical characterization and immunostimulatory activity of phenolic acid bound arabinoxylans derived from foxtail and barnyard millets. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 2, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13116>., Registrované v: WOS

38. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953.

Dostupné na: <https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS

39. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS

40. [1.1] VIRGINIA FERNANDEZ, Paula - MARTIN ZELAYA, Victor - COBELLO, Lucila - SUSANA VEGA, Andrea - CIANCIA, Marina.

Glucuronoarabinoxylans and other cell wall polysaccharides from shoots of *Guadua chacoensis* obtained by extraction in different conditions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 226, no., pp., Registrované v: WOS

41. [1.1] WANG, Junqiao - HU, Shuzhen - NIE, Shaoping - YU, Qiang - XIE, Mingyong. Reviews on Mechanisms of In Vitro Antioxidant Activity of Polysaccharides. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS

42. [1.1] WANG, Yuan - WANG, Ruifang - HAO, Xiran - HU, Yuchao - GUO, Tao - ZHANG, Jia - WANG, Wenwen - SHI, Xinyu - AN, Xiaoping - QI, Jingwei. Growth performance, nutrient digestibility, immune responses and antioxidant status of lambs supplemented with humic acids and fermented wheat bran polysaccharides. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2020, vol. 269, no., pp. Dostupné na:

<https://doi.org/10.1016/j.anifeedsci.2020.114644>., Registrované v: WOS

43. [1.1] WANG, Zhi-Jun - XIE, Jian-Hua - NIE, Shao-Ping - XIE, Ming-Yong. Review on cell models to evaluate the potential antioxidant activity of polysaccharides. In FOOD & FUNCTION. ISSN 2042-6496, 2017, vol. 8, no. 3, pp. 915-926., Registrované v: WOS

44. [1.1] YANG HUI - HUA JUN-LI - WANG CHUANG.

Anti-oxidation and anti-aging activity of polysaccharide from *Malus micromalus* Makino fruit wine. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, no., pp. 1203-1212., Registrované v: WOS

45. [1.1] YANG, Tao - ZHANG, Shaopeng - WANG, Rufeng - LI, Danping - HU, Yuanhua - NIE, Jing - ZHAO, Xiaolong - WANG, Qi - CHEN, Yan - ZHENG, Yonglian - CHEN, Ping. Polysaccharides from Rhizoma Panacis Majoris and its anti-oxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 86, no., pp. 756-763., Registrované v: WOS
46. [1.1] YAN, Xiaoguang - YE, Ran - CHEN, Ye. Blasting extrusion processing: The increase of soluble dietary fiber content and extraction of soluble-fiber polysaccharides from wheat bran. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 180, no., pp. 106-115., Registrované v: WOS
47. [1.2] BITUYKOVA, Anna - AMELKINA, Aleksandra - EVTEEV, Aleksandr - VOROBIEVA, Daria - EVDOKIMOV, Ivan - BANNIKOVA, Anna. Advanced technology of oat bran biotransformation into functional ingredients. In Journal of Hygienic Engineering and Design, 2019-01-01, 28, pp. 51-60., Registrované v: SCOPUS
48. [1.2] HU, Shuzhen - YIN, Junyi - NIE, Shaoping - WANG, Junqiao - PHILLIPS, Glyn O. - XIE, Mingyong - CUI, Steve W. In vitro evaluation of the antioxidant activities of carbohydrates. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2016-04-01, 7, 2, pp. 19-27., Registrované v: SCOPUS
49. [1.2] SINGH, Ramkrishna D. - BANERJEE, Jhumur - ARORA, Amit. Prebiotic potential of oligosaccharides: A focus on xylan derived oligosaccharides. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2015-01-01, 5, 1, pp. 19-30., Registrované v: SCOPUS
50. [1.2] WANG, Li - XUE, Lamei - LI, Yan - QIAN, Haifeng - ZHANG, Hui - QI, Xiguang - WU, Gangcheng. Research progress of physiological activities of xylooligosaccharide. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 6, pp. 561-571., Registrované v: SCOPUS

ADCA495 HROMÁDKOVÁ, Zdenka - KOVÁČIKOVÁ, J. - EBRINGEROVÁ, Anna. Study of the classical and ultrasound-assisted extraction of the corn cob xylan. In *Industrial crops and products : An international journal*, 1999, vol. 9, p. 101-109. ISSN 0926-6690. Dostupné na: [https://doi.org/10.1016/S0926-6690\(98\)00020-X](https://doi.org/10.1016/S0926-6690(98)00020-X)

Ohlasy:

1. [1.1] ARSHADI, Mehrdad - ATTARD, Thomas M. - LUKASIK, Rafal M. - BRNCIC, Mladen - LOPES, Andre M. da Costa - FINELL, Michael - GELADI, Paul - NOEMI GERSCHENSON, Lia - GOGUS, Fahrettin - HERRERO, Miguel - HUNT, Andrew J. - IBANEZ, Elena - KAMM, Birgit - MATEOS-APARICIO, Inmaculada - MATIAS, Ana - MAVROUDIS, Nikolaos E. - MONTONERI, Enzo - MORAIS, Ana Rita C. - NILSSON, Calle - PAPAIOANNOU, Emmanouil H. - RICHEL, Aurore - RUPEREZ, Pilar - SKRBIC, Biljana - SOLAROV, Marija Bodroza - SVARC-GAJIC, Jaroslava - WALDRON, Keith W. - YUSTE-CORDOBA, F. J. Pre-treatment and extraction techniques for recovery of added value compounds from wastes throughout the agri-food chain. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 23, pp. 6160-6204., Registrované v: WOS
2. [1.1] CAI, Weirong - CHEN, Qiao - XIE, Liangliang - YANG, Lei - ZHANG, Rufe. Extraction, sulfonation and anticoagulant activity of xylan from corncob. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 240, no. 5, pp. 969-975., Registrované v: WOS

3. [1.1] DOERING, Clemens - JEKLE, Mario - BECKER, Thomas. Technological and Analytical Methods for Arabinoxylan Quantification from Cereals. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2016, vol. 56, no. 6, pp. 999-1011., Registrované v: WOS
4. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS
5. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS
6. [1.1] DREVELEGKA, Ioanna - GOULA, Athanasia M. Recovery of grape pomace phenolic compounds through optimized extraction and adsorption processes. In CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION. ISSN 0255-2701, 2020, vol. 149, no., pp. Dostupné na: <https://doi.org/10.1016/j.cep.2020.107845>., Registrované v: WOS
7. [1.1] FARAHANI, G. Taghizadeh - AZARI, P. Yosefi. Improving the oil yield of Iranian Jatropha curcas seeds by optimising ultrasound-assisted ethanolic extraction process: a response surface method. In QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS. ISSN 1757-8361, 2016, vol. 8, no. 1, pp. 95-104., Registrované v: WOS
8. [1.1] GAO, Cundian - REN, Junli - KONG, Weiqing - SUN, Runcang - CHEN, Qifeng. Comparative study on temperature/pH sensitive xylan-based hydrogels: their properties and drug controlled release. In RSC Advances. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 90671-90681., Registrované v: WOS
9. [1.1] GOULA, Athanasia M. - THYMIATIS, Konstantinos - KADERIDES, Kyriakos. Valorization of grape pomace: Drying behavior and ultrasound extraction of phenolics. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2016, vol. 100, no., pp. 132-144., Registrované v: WOS
10. [1.1] GUTTE, Krishna B. - SAHOO, Akshaya K. - RANVEER, Rahul C. Effect of ultrasonic treatment on extraction and fatty acid profile of flaxseed oil. In OCL-OILSEEDS AND FATS CROPS AND LIPIDS. ISSN 1258-8210, 2015, vol. 22, no. 6, pp., Registrované v: WOS
11. [1.1] HU, Huawen - LIANG, Weixin - ZHANG, Yuyuan - WU, Siyong - YANG, Quannu - WANG, Yunbo - ZHANG, Min - LIU, Qianjun. Multipurpose Use of a Corncob Biomass for the Production of Polysaccharides and the Fabrication of a Biosorbent. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 3830-3839., Registrované v: WOS
12. [1.1] CHEMAT, Smain - AISSA, Abdallah - BOUMECHHOUR, Abdenour - AROUS, Omar - AIT-AMAR, Hamid. Extraction mechanism of ultrasound assisted extraction and its effect on higher yielding and purity of artemisinin crystals from Artemisia annua L. leaves. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2017, vol. 34, no., pp. 310-316., Registrované v: WOS
13. [1.1] JADHAV, Ananda J. - HOLKAR, Chandrakant R. - GOSWAMI, Abhijeet D. - PANDIT, Aniruddha B. - PINJARI, Dipak V.

- Acoustic Cavitation as a Novel Approach for Extraction of Oil from Waste Date Seeds. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 8, pp. 4256-4263., Registrované v: WOS
14. [1.1] KADERIDES, Kyriakos - GOULA, Athanasia M. - ADAMOPOULOS, Konstantinos G. A process for turning pomegranate peels into a valuable food ingredient using ultrasound-assisted extraction and encapsulation. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2015, vol. 31, no., pp. 204-215., Registrované v: WOS
15. [1.1] KALAMARA, Eleni - GOULA, Athanasia M. - ADAMOPOULOS, Konstantinos G. An integrated process for utilization of pomegranate wastes Seeds. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2015, vol. 27, no., pp. 144-153., Registrované v: WOS
16. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
17. [1.1] LEE, C. M. - GAN, Y. L. - CHAN, Y. L. - YAP, K. L. - TANG, T. K. - TAN, C. P. - LAI, O. M. Physicochemical and sensory analyses of high fibre bread incorporated with corncob powder. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2019, vol. 26, no. 5, pp. 1609-1616., Registrované v: WOS
18. [1.1] LITTUNEN, Kuisma - KILPELAINEN, Petri - JUNKKA, Karoliina - SIPPONEN, Mika - MASTER, Emma R. - SEPPALA, Jukka. Effect of Xylan Structure on Reactivity in Graft Copolymerization and Subsequent Binding to Cellulose. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 4, pp. 1102-1111., Registrované v: WOS
19. [1.1] LI, Kexin - MA, Haile - LI, Shujun - ZHANG, Cunsheng - DAI, Chunhua. Effect of Ultrasound on Alkali Extraction Protein from Rice Dreg Flour. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2017, vol. 40, no. 2, pp., Registrované v: WOS
20. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS
21. [1.1] LOUIS, Antony Catherine Flora - VENKATACHALAM, Sivakumar. Energy efficient process for valorization of corn cob as a source for nanocrystalline cellulose and hemicellulose production. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 260-269. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.276>., Registrované v: WOS
22. [1.1] MOHAMMADPOUR, Hossein - SADRAMELI, Seyed Mojtaba - ESLAMI, Fatemeh - ASOODEH, Ali. Optimization of ultrasound-assisted extraction of Moringa peregrina oil with response surface methodology and comparison with Soxhlet method. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 131, no., pp. 106-116., Registrované v: WOS
23. [1.1] MORADI, Negin - RAHIMI, Masoud. Effect of simultaneous

- ultrasound/pulsed electric field pretreatments on the oil extraction from sunflower seeds. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2018, vol. 53, no. 13, pp. 2088-2099., Registrované v: WOS
24. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHAP, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In *HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS*, 2016, vol., no., pp. 305-339., Registrované v: WOS
25. [1.1] NIPHADKAR, Sonali S. - RATHOD, Virendra K. Extraction of acetyl 11-keto-beta-boswellic acids (AKBA) from *Boswellia serrata* using ultrasound. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2017, vol. 52, no. 6, pp. 997-1005., Registrované v: WOS
26. [1.1] OZOGUL, Yesim - UCAR, Yilmaz - TAKADAS, Fethiye - DURMUS, Mustafa - KOESKER, Ali R. - POLAT, Abdurahman. Comparison of Green and Conventional Extraction Methods on Lipid Yield and Fatty Acid Profiles of Fish Species. In *EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY*. ISSN 1438-7697, 2018, vol. 120, no. 12, pp., Registrované v: WOS
27. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. Characterization of xylan from rice bran and finger millet seed coat for functional food applications. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2017, vol. 75, no., pp. 296-305., Registrované v: WOS
28. [1.1] PEREIRA, Marlene G. - HAMERSKI, Fabiane - ANDRADE, Eriel F. - SCHEER, Agnes de P. - CORAZZA, Marcos L. Assessment of subcritical propane, ultrasound-assisted and Soxhlet extraction of oil from sweet passion fruit (*Passiflora alata* Curtis) seeds. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2017, vol. 128, no., pp. 338-348., Registrované v: WOS
29. [1.1] POODI, Yasaman - BIMAKR, Mandana - GANJLOO, Ali - ZARRINGHALAMI, Soheila. Intensification of bioactive compounds extraction from Feijoa (*Feijoa sellowiana* Berg.) leaves using ultrasonic waves. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2018, vol. 108, no., pp. 37-50., Registrované v: WOS
30. [1.1] QIAN, Shi-Quan - ZHOU, Lan-Feng - SHI, Ya-Zhong - WU, Ya-Hua - XU, Hui - LU, Zhao-Xin. SODIUM HYDROXIDE-INDUCED PROCESS FOR EFFICIENT XYLAN EXTRACTION FROM CORN STRAWS. In *CURRENT TOPICS IN NUTRACEUTICAL RESEARCH*. ISSN 1540-7535, 2016, vol. 14, no. 1, pp. 73-80., Registrované v: WOS
31. [1.1] RANVEER, Rahul C. Lycopene: A Natural Red Pigment. In *NATURAL AND ARTIFICIAL FLAVORING AGENTS AND FOOD DYES*, 2018, vol. 7, no., pp. 427-456., Registrované v: WOS
32. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS
33. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN, Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. In *GREEN CHEMISTRY*.

- ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS
34. [1.1] SAFIN, Ruslan R. - NAZIPOVA, Farida V. - ZIATDINOV, Radis R. - KHASANSHIN, Ruslan R. - BELIAKOVA, Elena A. ULTRASONIC INTENSIFICATION OF ALKALINE TREATMENT OF FILLER IN THE PRODUCTION OF WOOD-PLASTIC COMPOSITE. In ENERGY AND CLEAN TECHNOLOGIES CONFERENCE PROCEEDINGS, SGEM 2016, VOL I. ISSN 1314-2704, 2016, vol., no., pp. 777-783., Registrované v: WOS
35. [1.1] TAKADA, Masatsugu - NIU, Rui - MINAMI, Eiji - SAKA, Shiro. Characterization of three tissue fractions in corn (*Zea mays*) cob. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 115, no., pp. 130-135., Registrované v: WOS
36. [1.1] UNLU, Cuneyt H. - KUTLU, Meltem - ATICI, Oya Galioglu. Mannich reaction of polysaccharides: Xylan functionalization in aqueous basic medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 19-27., Registrované v: WOS
37. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
38. [1.1] WANG, Baobin - RAN, Miao - FANG, Guigan - WU, Ting - NI, Yonghao. Biochars from Lignin-rich Residue of Furfural Manufacturing Process for Heavy Metal Ions Remediation. In MATERIALS, 2020, vol. 13, no. 5, pp. Dostupné na: <https://doi.org/10.3390/ma13051037>., Registrované v: WOS
39. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against *Escherichia coli* Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS
40. [1.1] YASEMI, Mahnaz - HEYDARINASAB, Amir - RAHIMI, Masoud - ARDJMAND, Mehdi. Microchannel as a Green Processes, Compared to Conventional Methods for Extraction of Quercitannin. In JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. ISSN 0253-5106, 2018, vol. 40, no. 1, pp. 33-42., Registrované v: WOS
41. [1.2] MOHD ABDUL ALIM, Nur Aimi Syairah - SULAIMAN, A. Z. - AJIT, Azilah. Application of ultrasound on the extraction of Vitexin from *Ficus deltoidea* leaves. In ARPN Journal of Engineering and Applied Sciences, 2016-01-01, 11, 4, pp. 2199-2204., Registrované v: SCOPUS
42. [1.2] OZOGUL, Yesim - UCAR, Yılmaz - TAKADAŞ, Fethiye - DURMUS, Mustafa - KÖŞKER, Ali R. - POLAT, Abdurrahman. Comparision of Green and Conventional Extraction Methods on Lipid Yield and Fatty Acid Profiles of Fish Species. In European Journal of Lipid Science and Technology. ISSN 14387697, 2018-12-01, 120, 12, pp., Registrované v: SCOPUS
43. [1.2] SAFIN, Ruslan R. - NAZIPOVA, Farida V. - KHASANSHIN, Ruslan R. - VORONIN, Alexander E. Pre-treatment of vegetable waste in the production of composite materials. In Key Engineering Materials. ISSN 10139826, 2017-01-01, 743 KEM, pp. 53-57., Registrované v: SCOPUS

44. [3.1] Costa, G.; Plazanet, I. (2016). Plant cell wall, a challenge for its characterisation. *Advances in Biological Chemistry*, 6(3), 70-105. D

ADCA496 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna. The structural, molecular and functional properties of lignin-containing beechwood glucuronoxylan. In *Macromolecular Symposia*, 2006, vol. 232, p. 19-26. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551403>

Ohlasy:

1. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS
2. [1.1] MARTINEZ, Patricia Murciano - APPELDOORN, Maaïke M. - GRUPPEN, Harry - KABEL, Mirjam A. The two *Rasamsonia emersonii* alpha-glucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
3. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS

ADCA497 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Ultrasonic extraction of plant materials-investigation of hemicellulose release from buckwheat hulls. In *Ultrasonics Sonochemistry*, 2003, vol.10, p. 127-133. ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(03\)00094-4](https://doi.org/10.1016/S1350-4177(03)00094-4)

Ohlasy:

1. [1.1] AMIRKHANI, Hadi - YUNUS, Robiah - RASHID, Umer - SALLEH, Shanti Faridah - RADHIAH, A. B. Dayang - SYAM, Syafie. Low-Temperature Dilute Acid Hydrolysis of Oil Palm Frond. In *CHEMICAL ENGINEERING COMMUNICATIONS*. ISSN 0098-6445, 2015, vol. 202, no. 9, pp. 1235-1244., Registrované v: WOS
2. [1.1] BORCHANI, Chema - FONTEYN, Fabienne - JAMIN, Guilhem - DESTAIN, Jacqueline - WILLEMS, Luc - PAQUOT, Michel - BLECKER, Christophe - THONART, Philippe. Structural Characterization, Technological Functionality, and Physiological Aspects of Fungal beta-D-glucans: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2016, vol. 56, no. 10, pp. 1746-1752., Registrované v: WOS
3. [1.1] BRENIAUX, Marion - RENAULT, Philippe - MEUNIER, Fabrice - GHIDOSI, Remy. Study of High Power Ultrasound for Oak Wood Barrel Regeneration: Impact on Wood Properties and Sanitation Effect. In *BEVERAGES*. ISSN 2306-5710, 2019, vol. 5, no. 1, pp., Registrované v: WOS
4. [1.1] BURLINI, Ilaria - SACCHETTI, Gianni. Secondary Bioactive Metabolites from Plant-Derived Food Byproducts through Ecopharmacognostic Approaches: A Bound Phenolic Case Study. In *PLANTS-BASEL*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091060>., Registrované v: WOS

5. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
6. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS
7. [1.1] DZAH, Courage Sedem - DUAN, Yuqing - ZHANG, Haihui - GOLLY, Moses Kwaku - MA, Haile. Enhanced screening of key ultrasonication parameters: total phenol content and antioxidant activity assessment of Tartary buckwheat (*Fagopyrum tataricum*) water extract. In SEPARATION SCIENCE AND TECHNOLOGY. ISSN 0149-6395, 2020, vol. 55, no. 17, pp. 3242-3251. Dostupné na: <https://doi.org/10.1080/01496395.2019.1675704>., Registrované v: WOS
8. [1.1] HE, Yue - SHIM, Youn Young - MUSTAFA, Rana - MEDA, Venkatesh - REANEY, Martin J. T. Chickpea Cultivar Selection to Produce Aquafaba with Superior Emulsion Properties. In FOODS, 2019, vol. 8, no. 12, pp., Registrované v: WOS
9. [1.1] IM, Hee Jin - YOON, Kyung Young. Production and Characterisation of Alcohol-Insoluble Dietary Fibre as a Potential Source for Functional Carbohydrates Produced by Enzymatic Depolymerisation of Buckwheat Hulls. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2015, vol. 33, no. 5, pp. 449-457., Registrované v: WOS
10. [1.1] IVETIC, Darjana Z. - OMORJAN, Radovan P. - DORDEVIC, Tatjana R. - ANTOV, Mirjana G. The Impact of Ultrasound Pretreatment on the Enzymatic Hydrolysis of Cellulose from Sugar Beet Shreds: Modeling of the Experimental Results. In ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY. ISSN 1944-7442, 2017, vol. 36, no. 4, pp. 1164-1172., Registrované v: WOS
11. [1.1] JACQUEMIN, Leslie - MOGNI, Assad - ZEITOUN, Rawan - GUINOT, Cecile - SABLAYROLLES, Caroline - SAULNIER, Luc - PONTALIER, Pierre-Yves. Performance evaluation of a semi-industrial production process of arabinoxylans from wheat bran. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 4, pp. 605-613., Registrované v: WOS
12. [1.1] JACQUEMIN, Leslie - MOGNI, Assad - ZEITOUN, Rawan - GUINOT, Cecile - SABLAYROLLES, Caroline - SAULNIER, Luc - PONTALIER, Pierre-Yves. Comparison of different twin-screw extraction conditions for the production of arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 86-94., Registrované v: WOS
13. [1.1] JIANG, Xiang - KUANG, Fei - KONG, Fansheng - YAN, Chunyan. Prediction of the antiglycation activity of polysaccharides from *Benincasa hispida* using a response surface methodology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 358-363., Registrované

v: WOS

14. [1.1] JIN, Xuchen - HU, Zhenhua - WU, Shufang - SONG, Tao - YUE, Fengxia - XIANG, Zhouyan. Promoting the material properties of xylan-type hemicelluloses from the extraction step. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 235-245., Registrované v: WOS

15. [1.1] KADERIDES, Kyriakos - GOULA, Athanasia M. - ADAMOPOULOS, Konstantinos G. A process for turning pomegranate peels into a valuable food ingredient using ultrasound-assisted extraction and encapsulation. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2015, vol. 31, no., pp. 204-215., Registrované v: WOS

16. [1.1] KIM, Hyun Kyung - KIM, Young Ho - KIM, Young Eon - JUNG, Sung Keun - LEE, Nam Hyouck - SONG, Kyung-Mo. Effects of salts on ultrasonic extraction of protein from porcine myocardium. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2018, vol. 108, no., pp. 12-17., Registrované v: WOS

17. [1.1] LEE, Han-Saem - HUR, Jin - SHIN, Hyun-Sang. Enhancing the total organic carbon measurement efficiency for water samples containing suspended solids using alkaline and ultrasonic pretreatment methods. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2020, vol. 90, no., pp. 20-28. Dostupné na: <https://doi.org/10.1016/j.jes.2019.11.010>., Registrované v: WOS

18. [1.1] LIAO, Ningbo - ZHONG, Jianjun - YE, Xingqian - LU, Shan - WANG, Wenjun - ZHANG, Ronghua - XU, Jian - CHEN, Shiguo - LIU, Donghong. Ultrasonic-assisted enzymatic extraction of polysaccharide from Corbicula fluminea: Characterization and antioxidant activity. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 60, no. 2, pp. 1113-1121., Registrované v: WOS

19. [1.1] LIU, Mengpei - LU, Wang - KU, Kang-mo - ZHANG, Lihua - LEI, Lili - ZONG, Wei. Ultrasonic-assisted extraction and antioxidant activity of polysaccharides from Eucommia ulmoides leaf. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2020, vol. 33, no. 2, pp. 581-588. Dostupné na: <https://doi.org/10.36721/PJPS.2020.33.2.REG.581-588.1>., Registrované v: WOS

20. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS

21. [1.1] LI, Han-Yin - SUN, Shao-Ni - ZHOU, Xia - PENG, Feng - SUN, Run-Cang. Structural characterization of hemicelluloses and topochemical changes in Eucalyptus cell wall during alkali ethanol treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 123, no., pp. 17-26., Registrované v: WOS

22. [1.1] MARTINEZ-SANZ, Marta - GOMEZ-MASCARAQUE, Laura G. - ROSA BALLESTER, Ana - MARTINEZ-ABAD, Antonio - BRODKORB, Andre - LOPEZ-RUBIO, Amparo. Production of unpurified agar-based extracts from red seaweed Gelidium sesquipedale by means of simplified extraction protocols. In ALGAL RESEARCH-BIOMASS BIOFUELS AND

- BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 38, no., pp., Registrované v: WOS
23. [1.1] MARZUKI, Nur Haziqah Che - HAMID, Mariani Abdul - WAHAB, Roswanira Abdul. Assessment of fatty acid composition and response surface optimization of ultrasonic-assisted extraction of phenolic compounds from *Pouteria campechiana* pulp. In MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES. ISSN 2289-5981, 2018, vol. 14, no. 2, pp. 269-277., Registrované v: WOS
24. [1.1] MEDLEJ, Mohammad Kazem - CHERRI, Batoul - NASSER, Ghassan - ZAVISKA, Francois - HIJAZI, Akram - LI, Suming - POCHAT-BOHATIER, Celine. Optimization of polysaccharides extraction from a wild species of *Ornithogalum* combining ultrasound and maceration and their anti-oxidant properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 958-968. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.021>., Registrované v: WOS
25. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using response surface methodology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
26. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
27. [1.1] OHORO, C. R. - ADENIJI, A. O. - OKOH, A. I. - OKOH, O. O. Distribution and Chemical Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in the Environmental Systems: A Review. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. ISSN 1661-7827, 2019, vol. 16, no. 17, pp., Registrované v: WOS
28. [1.1] REIS, Sofia F. - COELHO, Elisabete - COIMBRA, Manuel A. - ABU-GHANNAM, Nissreen. Improved efficiency of brewer's spent grain arabinoxylans by ultrasound-assisted extraction. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2015, vol. 24, no., pp. 155-164., Registrované v: WOS
29. [1.1] SAID, P. P. - ARYA, O. P. - PRADHAN, R. C. - SINGH, R. S. - RAI, B. N. SEPARATION OF OLEORESIN FROM GINGER RHIZOME POWDER USING GREEN PROCESSING TECHNOLOGIES. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2015, vol. 38, no. 2, pp. 107-114., Registrované v: WOS
30. [1.1] SOURKI, Abdollah Hematian - KOOCHKEI, Arash - ELAHI, Mohammad. Ultrasound-assisted extraction of beta-D-glucan from hull-less barley: Assessment of physicochemical and functional properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 462-475., Registrované v: WOS
31. [1.1] TANZEEL-UR-REHMAN - ARSHAD, Muhammad Umair - AHMAD, Rabia Shabir - RASOOL, Bilal - HUSSAIN, Ghulam - SAEED, Farhan - SHAHBAZ, Muhammad - AHMED, Aftab - IMRAN, Muhammad - KHAN, Muhammad Asif - FAIZ, Furukh - BANO, Yasmin - MUNIR, Rizwan - NADEEM, Muhammad - JABEEN, Farhat - IMRAN, Ali. Reconnoitring the

- impact of different extraction techniques on ginger bioactive moieties extraction, antioxidant characterization and physicochemical properties for their therapeutic effect. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2019, vol. 32, no. 5, pp. 2223-2236., Registrované v: WOS
32. [1.1] TAVAKOLPOUR, Yousef - MOOSAVI-NASAB, Marzieh - NIAKOUSARI, Mehrdad - HAGHIGHI-MANESH, Soroush. Influence of extraction methods on antioxidant and antimicrobial properties of essential oil from *Thymus danensis* subsp. *lancifolius*. In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, 2016, vol. 4, no. 2, pp. 156-162., Registrované v: WOS
33. [1.1] TAVAKOLPOUR, Yousef - MOOSAVI-NASAB, Marzieh - NIAKOUSARI, Mehrdad - HAGHIGHI-MANESH, Soroush - HASHEMI, Seyed Mohammad Bagher - KHANEGHAH, Amin Mousavi. COMPARISON OF FOUR EXTRACTION METHODS FOR ESSENTIAL OIL FROM *THYMUS DAENENSIS* SUBSP *LANCIFOLIUS* AND CHEMICAL ANALYSIS OF EXTRACTED ESSENTIAL OIL. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2017, vol. 41, no. 4, pp., Registrované v: WOS
34. [1.1] VAICKELIONIS, Giedrius - VALANCIENE, Virginija. Lightweight Concrete with an Agricultural Waste Buckwheat Husk. In *MATERIALS SCIENCE-MEDZIAGOTYRA*. ISSN 1392-1320, 2016, vol. 22, no. 1, pp. 98-104., Registrované v: WOS
35. [1.1] WANG, Kunli - LI, Mo - WEN, Xin - CHEN, Xiaosong - HE, Zhengyu - NI, Yuanying. Optimization of ultrasound-assisted extraction of okra (*Abelmoschus esculentus* (L.) Moench) polysaccharides based on response surface methodology and antioxidant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 114, no., pp. 1056-1063., Registrované v: WOS
36. [1.1] WANG, Mengdan - GU, Qun - LUO, Yanlong - BUKHVALOV, Danil - MA, Xiaofeng - ZHU, Lijun - LI, Gefei - LUO, Zhenyang. Understanding Mechanism of Adsorption in the Decolorization of Aqueous Methyl Violet (6B) Solution by Okra Polysaccharides: Experiment and Theory. In *ACS OMEGA*. ISSN 2470-1343, 2019, vol. 4, no. 18, pp. 17880-17889., Registrované v: WOS
37. [1.1] WANG, Xiaoli - WANG, Fan - JING, Yanjun - WANG, Yonggang - LIN, Peng - YANG, Lin. Application of Orthogonal Design to Optimize Extraction of Polysaccharide from *Cynomorium songaricum* Rupr (*Cynomoriaceae*). In *TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 1596-5996, 2015, vol. 14, no. 7, pp. 1175-1181., Registrované v: WOS
38. [1.1] WANG, Yonggang - WANG, Fan - MA, Xueqing - SUN, Shangchen - LENG, Feifan - ZHANG, Weijie - WANG, Xiaoli. Extraction, purification, characterization and antioxidant activity of polysaccharides from *Piteguo* fruit. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 77, no., pp. 467-475., Registrované v: WOS
39. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In *POLYMERS*, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
40. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang.

- Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from *Eucalyptus grandis*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS
41. [1.1] YASEMI, Mahnaz - HEYDARINASAB, Amir - RAHIMI, Masoud - ARDJMAND, Mehdi. Microchannel as a Green Processes, Compared to Conventional Methods for Extraction of Quercitannin. In JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. ISSN 0253-5106, 2018, vol. 40, no. 1, pp. 33-42., Registrované v: WOS
42. [1.1] YILDIRIM, Ali - ONER, Mehmet D. Electrical Conductivity, Water Absorption, Leaching, and Color Change of Chickpea (*Cicer arietinum* L.) during Soaking with Ultrasound Treatment. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2015, vol. 18, no. 6, pp. 1359-1372., Registrované v: WOS
43. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS
44. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. MODELING AND OPTIMIZATION OF ULTRASOUND ASSISTED EXTRACTION PARAMETERS USING RESPONSE SURFACE METHODOLOGY FOR WATER SOLUBLE POLYSACCHARIDE EXTRACTION FROM HAZELNUT SKIN. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
45. [1.1] ZDANOWSKA, Paulina - DROZDZ, Bogdan - JANAKOWSKI, Slawomir - DEREWIKA, Dorota. Impact of preliminary ultrasound treatment of rape seeds on the pressing process and selected oil characteristics. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 138, no., pp., Registrované v: WOS
46. [1.1] ZHANG, Wei - YAO, Jiming - HUANG, Peng - XING, Shuai. Aqueous extraction of buckwheat hull and its functional application in eco-friendly dyeing for wool fabric. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2020, vol. 90, no. 5-6, pp. 641-654. Dostupné na: <https://doi.org/10.1177/0040517519877465>., Registrované v: WOS
47. [1.1] ZHAO YUYING - WANG ERBING. STUDY ON FUNDAMENTAL PROCESS OF CODONOPSIS PILOSULA DESULFURIZATION AND IN VITRO ANTIBACTERIAL ACTIVITY OF ITS POLYSACCHARIDE EXTRACT ON ESCHERICHIA COLI. In PHARMACEUTICAL CHEMISTRY JOURNAL. ISSN 0091-150X, 2016, vol. 49, no. 11, pp. 782-787., Registrované v: WOS
48. [1.1] ZHAO, Zhan-Yi - ZHANG, Qiang - LI, Ya-Fang - DONG, Lu-Lu - LIU, Shu-Lin. Optimization of ultrasound extraction of *Alisma orientalis* polysaccharides by response surface methodology and their antioxidant activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 119, no., pp. 101-109., Registrované v: WOS
49. [1.1] ZHENG, Quan - REN, Daoyuan - YANG, Nana - YANG, Xingbin. Optimization for ultrasound-assisted extraction of polysaccharides with chemical composition and antioxidant activity from the *Artemisia sphaerocephala* Krasch seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 856-866.,

Registrované v: WOS

50. [1.1] ZHU, Fan. Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 248, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116819>., Registrované v: WOS

51. [1.2] CRAVOTTO, G. - BINELLO, A. Low-Frequency, High-Power Ultrasound-Assisted Food Component Extraction. In Innovative Food Processing Technologies: Extraction, Separation, Component Modification and Process Intensification, 2016-08-02, pp. 3-29., Registrované v: SCOPUS

52. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

53. [1.2] SUBHEDAR, P. B. - GOGATE, P. R. Use of Ultrasound for Pretreatment of Biomass and Subsequent Hydrolysis and Fermentation. In Biomass Fractionation Technologies for a Lignocellulosic Feedstock Based Biorefinery, 2016-01-01, pp. 127-149., Registrované v: SCOPUS

54. [1.2] YUYING, Zhao - ERBING, Wang. Study on Fundamental Process of Codonopsis pilosula Desulfurization and In Vitro Antibacterial Activity of its Polysaccharide Extract on Escherichia coli. In Pharmaceutical Chemistry Journal. ISSN 0091150X, 2016-02-01, 49, 11, pp. 782-787., Registrované v: SCOPUS

55. [3.1] Afsharian Torghabe S, Sheikholeslami Z, Ataye Salehi E. (2016). Effect of orange peel essential oils as a natural preservative on rheological, sensory and microbial properties of cup cake. Iranian Journal of Food Science and Technology (2008-8787), 13(50), 133-143

ADCA498 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P. Ultrasound-assisted extraction of water-soluble polysaccharides from the roots of valerian (*Valeriana officinalis* L.). In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 37-44. ISSN 1350-4177. Dostupné na:

[https://doi.org/10.1016/S1350-4177\(01\)00093-1](https://doi.org/10.1016/S1350-4177(01)00093-1)

Ohlasy:

1. [1.1] ARSHADI, Mehrdad - ATTARD, Thomas M. - LUKASIK, Rafal M. - BRNCIC, Mladen - LOPES, Andre M. da Costa - FINELL, Michael - GELADI, Paul - NOEMI GERSCHENSON, Lia - GOGUS, Fahrettin - HERRERO, Miguel - HUNT, Andrew J. - IBANEZ, Elena - KAMM, Birgit - MATEOS-APARICIO, Inmaculada - MATIAS, Ana - MAVROUDIS, Nikolaos E. - MONTONERI, Enzo - MORAIS, Ana Rita C. - NILSSON, Calle - PAPAIOANNOU, Emmanouil H. - RICHEL, Aurore - RUPEREZ, Pilar - SKRBIC, Biljana - SOLAROV, Marija Bodroza - SVARC-GAJIC, Jaroslava - WALDRON, Keith W. - YUSTE-CORDOBA, F. J. Pre-treatment and extraction techniques for recovery of added value compounds from wastes throughout the agri-food chain. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 23, pp. 6160-6204., Registrované v: WOS

2. [1.1] BABAMORADI, Nastaran - YOUSEFI, Shima - ZIARATI, Parisa. Optimization of ultrasound-assisted extraction of functional polysaccharides from common mullein (*Verbascum thapsus* L.) flowers. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2018, vol.

- 41, no. 7, pp., Registrované v: WOS
3. [1.1] ESKANDARI, Meghdad - SAMAVATI, Vahid. Sono-assisted extraction of alcohol-insoluble extract from *Althaea rosea*: Purification and chemical analysis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 347-355., Registrované v: WOS
4. [1.1] FABRE, Jean-Francois - LACROUX, Eric - VALENTIN, Romain - MOULOUGUI, Zephirin. Ultrasonication as a highly efficient method of flaxseed mucilage extraction. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 65, no., pp. 354-360., Registrované v: WOS
5. [1.1] FENG, Yuqin - ZHANG, Jixian - WEN, Chaoting - DZAH, Courage Sedem - JULIET, Igbokwe Chidimma - DUAN, Yuqing - ZHANG, Haihui. Recent advances in *Agaricus bisporus* polysaccharides: Extraction, purification, physicochemical characterization and bioactivities. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 94, no., pp. 39-50. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.010>., Registrované v: WOS
6. [1.1] GE, Rui Hong - WANG, Hui. Nutrient components and bioactive compounds in tartary buckwheat bran and flour as affected by thermal processing. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2020, vol. 23, no. 1, pp. 127-137. Dostupné na: <https://doi.org/10.1080/10942912.2020.1713151>., Registrované v: WOS
7. [1.1] CHENG, Zhenyu - SONG, Haiyan - YANG, Yingjie - LIU, Yan - LIU, Zhigang - HU, Haobin - ZHANG, Yang. Optimization of microwave-assisted enzymatic extraction of polysaccharides from the fruit of *Schisandra chinensis* Bail. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 76, no., pp. 161-168., Registrované v: WOS
8. [1.1] CHEN, Pei - LIU, Hui-Ping - JI, Hai-Hu - SUN, Na-Xin - FENG, Ying-Ying. A cold-water soluble polysaccharide isolated from *Grifola frondosa* induces the apoptosis of HepG2 cells through mitochondrial passway. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 1232-1241., Registrované v: WOS
9. [1.1] CHEN, Rui-Zhan - TAN, Li - JIN, Chen-Guang - LU, Juan - TIAN, Li - CHANG, Qing-Quan - WANG, Ke. Extraction, isolation, characterization and antioxidant activity of polysaccharides from *Astragalus membranaceus*. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 77, no., pp. 434-443., Registrované v: WOS
10. [1.1] JIANG, Yuan-yuan - YU, Jun - LI, Ya-bo - WANG, Long - HU, Liang - ZHANG, Li - ZHOU, Yong-hong. Extraction and antioxidant activities of polysaccharides from roots of *Arctium lappa* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 123, no., pp. 531-538., Registrované v: WOS
11. [1.1] JI, Hai-yu - CHEN, Pei - YU, Juan - FENG, Ying-ying - LIU, An-jun. Effects of Heat Treatment on the Structural Characteristics and Antitumor Activity of Polysaccharides from *Grifola frondosa*. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 188, no. 2, pp. 481-490., Registrované v: WOS
12. [1.1] KIA, Ala Ghasemi - GANJLOO, Ali - BIMAKR, Mandana. A Short Extraction Time of Polysaccharides from Fenugreek (*Trigonella foencem*

graecum) Seed Using Continuous Ultrasound Acoustic Cavitation: Process Optimization, Characterization and Biological Activities. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 12, pp. 2204-2216., Registrované v: WOS

13. [1.1] LANEZ, Touhami - BEN HAOUA, Khaoula. THE EFFECT OF SOXHLET AND ULTRASONIC-ASSISTED EXTRACTION ON ANTIOXIDANT COMPONENTS AND ANTIOXIDANT PROPERTIES OF SELECTED SOUTH ALGERIAN RED POTATOES CULTIVARS. In SCIENTIFIC STUDY AND RESEARCH-CHEMISTRY AND CHEMICAL ENGINEERING BIOTECHNOLOGY FOOD INDUSTRY. ISSN 1582-540X, 2017, vol. 18, no. 4, pp. 435-448., Registrované v: WOS

14. [1.1] LE, Bao - GOLOKHVAST, Kirill S. - YANG, Seung Hwan - SUN, Sangmi. Optimization of Microwave-Assisted Extraction of Polysaccharides from *Ulva pertusa* and Evaluation of Their Antioxidant Activity. In ANTIOXIDANTS, 2019, vol. 8, no. 5, pp., Registrované v: WOS

15. [1.1] LIAO, Ningbo - ZHONG, Jianjun - YE, Xingqian - LU, Shan - WANG, Wenjun - ZHANG, Ronghua - XU, Jian - CHEN, Shiguo - LIU, Donghong. Ultrasonic-assisted enzymatic extraction of polysaccharide from *Corbicula fluminea*: Characterization and antioxidant activity. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 60, no. 2, pp. 1113-1121., Registrované v: WOS

16. [1.1] LIU, An-jun - YU, Juan - JI, Hai-yu - ZHANG, Hong-cui - ZHANG, Yan - LIU, Hui-ping. Extraction of a Novel Cold-Water-Soluble Polysaccharide from *Astragalus membranaceus* and Its Antitumor and Immunological Activities. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS

17. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS

18. [1.1] LIU, Chao - JI, Hai-yu - WU, Peng - YU, Juan - LIU, An-jun. The preparation of a cold-water soluble polysaccharide from *Grifola frondosa* and its inhibitory effects on MKN-45 cells. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2020, vol. 37, no. 4, pp. 413-422. Dostupné na: <https://doi.org/10.1007/s10719-020-09932-0>., Registrované v: WOS

19. [1.1] LUU, Trong Q. - LE, Phat T. - LE, Khoa C. M. - PHAN, An H. T. - ZITZMANN, Kim - NGUYEN, Kim T. - PHAN, Nam V. H. - NGUYEN, Khoi T. Improving the quality of *Vernonia amygdalina* extract by ultrasound-assisted extraction coupled with gas bubble flotation. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2019, vol. 42, no. 8, pp., Registrované v: WOS

20. [1.1] MARTINEZ-SANZ, Marta - GOMEZ-MASCARAQUE, Laura G. - ROSA BALLESTER, Ana - MARTINEZ-ABAD, Antonio - BRODKORB, Andre - LOPEZ-RUBIO, Amparo. Production of unpurified agar-based extracts from red seaweed *Gelidium sesquipedale* by means of simplified extraction protocols. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 38, no., pp., Registrované v: WOS

21. [1.1] NURMAMAT, Eliyas - XIAO, Hongxing - ZHANG, Yan - JIAO, Ziwei. Effects of Different Temperatures on the Chemical Structure and Antitumor Activities of Polysaccharides from *Cordyceps militaris*. In

- POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 4, pp., Registrované v: WOS
22. [1.1] OHORO, C. R. - ADENIJI, A. O. - OKOH, A. I. - OKOH, O. O. Distribution and Chemical Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in the Environmental Systems: A Review. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. ISSN 1661-7827, 2019, vol. 16, no. 17, pp., Registrované v: WOS
23. [1.1] TAGHOUTI, Meriem - MARTINS-GOMES, Carlos - SCHAEFER, Judith - FELIX, Luis M. - SANTOS, Joao A. - BUNZEL, Mirko - NUNES, Fernando M. - SILVA, Amelia M. Thymus pulegioides L. as a rich source of antioxidant, anti-proliferative and neuroprotective phenolic compounds. In FOOD & FUNCTION. ISSN 2042-6496, 2018, vol. 9, no. 7, pp. 3617-3629., Registrované v: WOS
24. [1.1] VUONG, Quan V. - VAN TANG NGUYEN - DANG TRUNG THANH - BHUYAN, Deep Jyoti - GOLDSMITH, Chloe D. - SADEQZADEH, Elham - SCARLETT, Christopher J. - BOWYER, Michael C. Optimization of ultrasound-assisted extraction conditions for euphol from the medicinal plant, Euphorbia tirucalli, using response surface methodology. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 63, no., pp. 197-202., Registrované v: WOS
25. [1.1] WANG, Juan - LU, He Dong - MUHAMMAD, Umair - HAN, Jin Zhi - WEI, Zhao Hui - LU, Zhao Xin - BIE, Xiao Mei - LU, Feng Xia. Ultrasound-assisted extraction of polysaccharides from Artemisia selengensis Turcz and its antioxidant and anticancer activities. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2016, vol. 53, no. 2, pp. 1025-1034., Registrované v: WOS
26. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS
27. [1.1] WANG, Yuanyuan - WANG, Xueyu - XIONG, Ying - FAN, Junfu - ZHENG, Zhihua - LI, Yafang - DONG, Lulu - ZHAO, Zhanyi. Extraction optimization, separation and antioxidant activity of Luffa cylindrica polysaccharides. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2019, vol. 116, no., pp. 98-104., Registrované v: WOS
28. [1.1] YANG, Na - ZHANG, Nannan - JIN, Yamei - JIN, Zhengyu - XU, Xueming. Development of a fluidic system for efficient extraction of mulberry leaves polysaccharide using induced electric fields. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 172, no., pp. 318-325., Registrované v: WOS
29. [1.1] YANG, Shangying - LI, Ying - JIA, Dongying - YAO, Kai - LIU, Weijuan. The synergy of Box-Behnken designs on the optimization of polysaccharide extraction from mulberry leaves. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 70-78., Registrované v: WOS
30. [1.1] YIP, Ka-Man - XU, Jun - TONG, Wing-Sum - ZHOU, Shan-Shan - YI, Tao - ZHAO, Zhong-Zhen - CHEN, Hu-Biao. Ultrasound-Assisted Extraction May Not Be a Better Alternative Approach than

Conventional Boiling for Extracting Polysaccharides from Herbal Medicines. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

31. [1.1] ZHANG, Jixian - CHEN, Meng - WEN, Chaoting - ZHOU, Jie - GU, Jinyan - DUAN, Yuqing - ZHANG, Haihui - REN, Xiaofeng - MA, Haile. Structural characterization and immunostimulatory activity of a novel polysaccharide isolated with subcritical water from *Sagittaria sagittifolia* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 133, no., pp. 11-20., Registrované v: WOS

32. [1.1] ZHANG, Jixian - WEN, Chaoting - QIN, Wei - QIN, Piaoyan - ZHANG, Haihui - DUAN, Yuqing. Ultrasonic-enhanced subcritical water extraction of polysaccharides by two steps and its characterization from *Lentinus edodes*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2269-2277., Registrované v: WOS

33. [1.1] ZHANG, Jixian - WEN, Chaoting - CHEN, Meng - GU, Jinyan - ZHOU, Jie - DUAN, Yuqing - ZHANG, Haihui - MA, Haile. Antioxidant activities of *Sagittaria sagittifolia* L. polysaccharides with subcritical water extraction. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 134, no., pp. 172-179., Registrované v: WOS

34. [1.1] ZHANG, Xiaonan - BAN, Qingfeng - WANG, Xibo - WANG, Zhongjiang. Green and Efficient PEG-Based Ultrasonic-Assisted Extraction of Polysaccharides from Tree Peony Pods and the Evaluation of Their Antioxidant Activity In Vitro. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2018, vol., no., pp., Registrované v: WOS

35. [1.1] ZHANG, Yi - WANG, Hongxin - WANG, Peng - MA, ChaoYang - HE, GuoHua - RAHMAN, Md Ramim Tanver. Optimization of PEG-based extraction of polysaccharides from *Dendrobium nobile* Lindl. and bioactivity study. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 92, no., pp. 1057-1066., Registrované v: WOS

36. [1.1] ZHAO, Yong-Ming - YANG, Jian-ming - LIU, Ying-hui - ZHAO, Ming - WANG, Jin. Ultrasound assisted extraction of polysaccharides from *Lentinus edodes* and its anti-hepatitis B activity in vitro. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2217-2223., Registrované v: WOS

37. [1.1] ZHAO, Zhan-Yi - ZHANG, Qiang - LI, Ya-Fang - DONG, Lu-Lu - LIU, Shu-Lin. Optimization of ultrasound extraction of *Alisma orientalis* polysaccharides by response surface methodology and their antioxidant activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 119, no., pp. 101-109., Registrované v: WOS

38. [1.1] ZHOU, J. - DU, X-H. - DONG, L-M. Separation and identification of esters from ultrasonic extraction of Shengli lignite in a toluene/ethanol mixed solvent. In ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS. ISSN 1556-7036, 2017, vol. 39, no. 11, pp. 1097-1101., Registrované v: WOS

39. [1.1] ZHOU, J. - SHI, C-L. Ultrasonic extraction of Xinjiang Changyan coal and GC/MS analysis of its soluble compounds. In ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL

EFFECTS. ISSN 1556-7036, 2017, vol. 39, no. 5, pp. 514-519., Registrované v: WOS

40. [1.2] ALZORQI, Ibrahim - MANICKAM, Sivakumar. Ultrasonic process intensification for the efficient extraction of nutritionally active ingredients of polysaccharides from bioresources #42. In Handbook of Ultrasonics and Sonochemistry, 2016-01-01, pp. 1271-1286., Registrované v: SCOPUS

41. [1.2] ANWAR, Mylene - BEKHIT, Alaa El Din. Water-soluble Non-starch Polysaccharides: Update on Current Extraction and Purification Techniques. In Modern Food Science and Technology. ISSN 16739078, 2019-09-20, 35, 9, pp. 1-21., Registrované v: SCOPUS

42. [1.2] CUI, Ting Ting - HUANG, Qing Wen - LI, Xin Yu - CHEN, Wen. Optimization of total sugar extraction from Cynomorii Herba by using quadratic orthogonal rotation regression combination design. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2016-11-28, 47, 22, pp. 4003-4008., Registrované v: SCOPUS

43. [1.2] LANEZ, Touhami - BEN HAOUA, Khaoula. The effect of soxhlet and ultrasonic-assisted extraction on antioxidant components and antioxidant properties of selected south Algerian red potatoes cultivars. In Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry. ISSN 1582540X, 2017-01-01, 18, 4, pp. 435-448., Registrované v: SCOPUS

44. [1.2] NANDHINI, Sundaresan - NARAYANAN, Kasthuri Bai - ILANGO, Kaliappan. Valeriana officinalis: A review of its traditional uses, phytochemistry and pharmacology. In Asian Journal of Pharmaceutical and Clinical Research. ISSN 09742441, 2018-01-01, 11, 1, pp. 36-41., Registrované v: SCOPUS

ADCA499 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Zur Isolierung von Hemicellulosen der Roggenkleie. In *Nahrung/Food*, 1987, vol. 31, p. 149-156. ISSN 0027-769X.

Ohlasy:

1. [1.1] RAINAKARI, Aliko-Ilona - RITA, Hannu - PUTKONEN, Tiina - PASTELL, Helena. New dietary fibre content results for cereals in the Nordic countries using AOAC 2011.25 method. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2016, vol. 51, no., pp. 1-8., Registrované v: WOS

2. [1.2] DÖRING, Clemens - JEKLE, Mario - BECKER, Thomas. Technological and Analytical Methods for Arabinoxylan Quantification from Cereals. In Critical Reviews in Food Science and Nutrition. ISSN 10408398, 2016-04-25, 56, 6, pp. 999-1011., Registrované v: SCOPUS

ADCA500 HRONSKÁ, Helena - MASTIHUBA, Vladimír - TOKOŠOVÁ, Silvia - ROSENBERG, Michal. Semicontinual synthesis of alkyl galactosides using β -galactosidase entrapped in polyvinylalcohol hydrogel. In *Biocatalysis and Biotransformation*, 2016, vol. 34, p. 219-225. (2015: 0.892 - IF, Q4 - JCR, 0.296 - SJR, Q3 - SJR). ISSN 1024-2422. Dostupné na: <https://doi.org/10.1080/10242422.2016.1247827>

Ohlasy:

1. [1.1] AHUMADA, Diego - ARENAS, Felipe -

- MARTINEZ-GOMEZ, Fabian - GUERRERO, Cecilia - ILLANES, Andres - VERA, Carlos. Synthesis of Butyl-beta-D-Galactoside in the Ternary System: Acetone/1-Butanol/Aqueous Solution. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00859>., Registrované v: WOS
2. [1.1] BABAVATAN, Ece Ozdemir - YILDIRIM, Deniz - PEKSEL, Aysegul - BINAY, Baris. Immobilization of Rhizomucor miehei lipase onto montmorillonite K-10 and polyvinyl alcohol gel. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2020, vol. 38, no. 4, pp. 274-282. Dostupné na: <https://doi.org/10.1080/10242422.2019.1701660>., Registrované v: WOS
3. [1.1] CHEN, Hanchi - JIN, Xiao - ZHU, Linjiang - LU, Yuele - MA, Zhi - LIU, Shijie - CHEN, Xiaolong. Glycosyl hydrolase catalyzed glycosylation in unconventional media. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 22, pp. 9523-9534. Dostupné na: <https://doi.org/10.1007/s00253-020-10924-1>., Registrované v: WOS
4. [1.1] OGAWA, Shigesaburo - TAKAHASHI, Isao - KOGA, Maito - ASAKURA, Kouichi - OSANAI, Shuichi. Effect of Freeze-Thaw Treatment on the Precipitation of Octyl beta-D-Galactoside Hemihydrate Crystal from the Aqueous Solution. In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2018, vol. 67, no. 5, pp. 627-637., Registrované v: WOS
5. [1.1] TODEA, Anamaria - BOERIU, Carmen G. - PETER, Francisc - BIRO, Emese. IMMOBILIZED beta-D-GALACTOSIDASES FOR IMPROVED SYNTHESIS OF SHORT-CHAIN GALACTO-OLIGOSACCHARIDES. In BIOTECHNOLOGICAL PROGRESS AND BEVERAGE CONSUMPTION, 2020, vol. 19, no., pp. 71-110. Dostupné na: <https://doi.org/10.1016/B978-0-12-816678-9.00003-5>., Registrované v: WOS
6. [1.1] VERA, Carlos - GUERRERO, Cecilia - WILSON, Lorena - ILLANES, Andres. Optimization of reaction conditions and the donor substrate in the synthesis of hexyl-beta-D-galactoside LE. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 128-136., Registrované v: WOS
7. [1.1] VERA, Carlos - GUERRERO, Cecilia - ABURTO, Carla - CORDOVA, Andres - ILLANES, Andres. Conventional and non-conventional applications of beta-galactosidases. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2020, vol. 1868, no. 1, pp. Dostupné na: <https://doi.org/10.1016/j.bbapap.2019.140271>., Registrované v: WOS
8. [1.1] WOJCIECHOWSKA, Aleksandra - KLEWICKI, Robert - SOJKA, Michal. Glucoheptonic acid derivative as a new transgalactosylation product. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2019, vol. 37, no. 1, pp. 44-52., Registrované v: WOS

ADCA501 HUCÍK, M. - BUČKO, Marek - GEMEINER, Peter - ŠTEFUCA, V. - VIKARTOVSKÁ, Alica - MIHOVILOVIČ, M.D. - RUDROFF, F. - IQBAL, N. - CHORVÁT, Dušan Jr. - LACÍK, Igor. Encapsulation of recombinant E. coli expressing cyclopentanone monooxygenase in polyelectrolyte complex capsules for Baeyer-Villiger biooxidation of 8-oxabicyclo (3.2.1)oct-6-en-3-one. In *Biotechnology Letters*, 2010, vol. 32, p. 675-680. (2009: 1.636 - IF, Q3 - JCR, 0.704

- SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-010-0203-2>

Ohlasy:

1. [1.1] CORTEZ, S. - NICOLAU, A. - FLICKINGER, M.C. - MOTA, M. Biocoatings: A new challenge for environmental biotechnology. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, MAY 15 2017, vol. 121, p. 25-37., Registrované v: WOS
2. [1.1] KRASNAN, Vladimir - STLOUKAL, Radek - ROSENBERG, Michal - REBROS, Martin. Immobilization of cells and enzymes to LentiKats (R). In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 6, pp. 2535-2553., Registrované v: WOS
3. [1.1] VANDAMME, Thierry F. - GBASSI, Gildas K. - THI TRINH LAN NGUYEN - LI, Xiang. Microencapsulating Bioactives for Food. In BENEFICIAL MICROBES IN FERMENTED AND FUNCTIONAL FOODS, 2015, vol., no., pp. 255-271., Registrované v: WOS

ADCA502 HUDEC, Jozef - KOCHANOVÁ, Radka - BURDOVÁ, Mária - KOBIDA, Ľubomír - KOGAN, Grigorij - TURIANICA, Ivan - CHLEBO, Peter - HANÁČKOVÁ, Eva - SLAMKA, Pavol. Regulation of the phenolic profile of berries can increase their antioxidant activity. Mária Burdová, Ľubomír Kobida, Grigorij Kogan, Ivan Turianica, Peter Chlebo, Eva Hanáčková, Pavol Slamka. In *J Agricult Food Chem*, 2009, vol.57, pp.2022-2029. Dostupné na: <https://doi.org/10.1021/jf803185g>

Ohlasy:

1. [1.1] LU, Yue-hong - TIAN, Cheng-rui - GAO, Chun-yan - ZHANG, Run-guang - GUO, Qi - MU, Chang-lei. Nutritional profiles, phenolics, and DNA damage protective effect of *Lycopus lucidus* Turcz. root at different harvest times. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2018, vol. 20, no., pp. S3062-S3077., Registrované v: WOS

ADCA503 HUDEC, J. - BURDOVÁ, M. - KOPIDA, Ľ. - KOMORA, L. - MACHO, V. - KOGAN, Grigorij - TURIANICA, Ivan - KOCHANOVÁ, R. - LOŽEK, Otto - HABÁN, M. - CHLEBO, Peter. Antioxidant capacity changes and phenolic profile of *Echinacea purpurea*, nettle (*Urtica dioica* L.), and dandelion (*Taraxacum officinale*) after application of polyamine and phenolic biosynthesis regulators. In *Journal of agricultural and food chemistry*, 2007, vol. 55, p. 5689-5696. (2006: 2.322 - IF, Q1 - JCR, 1.367 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf070777c>

Ohlasy:

1. [1.1] ABBAS, Wafaa T. - AWAD, Elham. Effect of leek (*Allium ampeloprasum* L.) extract on biotransformation enzymes and innate immunity of catfish (*Clarias gariepinus*) exposed to Benzo[a] Pyrene. In RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2016, vol. 7, no. 6, pp. 2211-2224., Registrované v: WOS
2. [1.1] AHMAD, Mushtaq - KHAN, Muhammad Pukhtoon Zada - MUKHTAR, Anam - ZAFAR, Muhammad - SULTANA, Shazia - JAHAN, Sarwat. Ethnopharmacological survey on medicinal plants used in herbal drinks among the traditional communities of Pakistan. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2016, vol. 184, no., pp.

154-186., Registrované v: WOS

3. [1.1] AWAD, Elham - AUSTIN, Dawn - LYNDON, Alastair - AWAAD, Amani. Possible effect of hala extract (*Pandanus tectorius*) on immune status, anti-tumour and resistance to *Yersinia ruckeri* infection in rainbow trout (*Oncorhynchus mykiss*). In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2019, vol. 87, no., pp. 620-626., Registrované v: WOS

4. [1.1] AWAD, Elham - AWAAD, Amani S. - ESTEBAN, M. Angeles. Effects of dihydroquercetin obtained from deodar (*Cedrus deodara*) on immune status of gilthead seabream (*Sparus aurata* L.). In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2015, vol. 43, no. 1, pp. 43-50., Registrované v: WOS

5. [1.1] AWAD, Elham - AWAAD, Amani. Role of medicinal plants on growth performance and immune status in fish. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2017, vol. 67, no., pp. 40-54., Registrované v: WOS

6. [1.1] AWAD, Elham - CEREZUELA, Rebeca - ANGELES ESTEBAN, M. Effects of fenugreek (*Trigonella foenum graecum*) on gilthead seabream (*Sparus aurata* L.) immune status and growth performance. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2015, vol. 45, no. 2, pp. 454-464., Registrované v: WOS

7. [1.1] BAI, Yidan - MA, Jian - ZHU, Wanfang - WANG, Lei - QU, Wei - SU, Shengzhi - ZHAI, Weiwei - FENG, Feng - LIU, Wenyuan - ZHANG, Jie. Highly selective separation and purification of chicoric acid from *Echinacea purpurea* by quality control methods in macroporous adsorption resin column chromatography. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2019, vol. 42, no. 5, pp. 1027-1036., Registrované v: WOS

8. [1.1] BILAL, Muhammad - IQBAL, Muhammad S. - SHAH, Syed B. - RASHEED, Tahir - IQBAL, Hafiz M. N. Diabetic Complications and Insight into Antidiabetic Potentialities of Ethno-Medicinal Plants: A Review. In *RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY*. ISSN 1872-213X, 2018, vol. 12, no. 1, pp. 7-23., Registrované v: WOS

9. [1.1] BILAL, Muhammad - RASHEED, Tahir - IQBAL, Hafiz M. N. - HU, Hongbo - WANG, Wei - ZHANG, Xuehong. Macromolecular agents with antimicrobial potentialities: A drive to combat antimicrobial resistance. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 554-574., Registrované v: WOS

10. [1.1] BRUNI, Renato - BRIGHENTI, Virginia - CAESAR, Lindsay K. - BERTELLI, Davide - CECH, Nadja B. - PELLATI, Federica. Analytical methods for the study of bioactive compounds from medicinally used *Echinacea* species. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 160, no., pp. 443-477., Registrované v: WOS

11. [1.1] DERMESONLUOGLU, Efimia - FILERI, Kalliopi - ORFANOUDAKI, Argiro - TSEVDIOU, Maria - TSIRONI, Theofania - TAOUKIS, Petros. Modelling the microbial spoilage and quality decay of pre-packed dandelion leaves as a function of temperature. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2016, vol. 184, no., pp. 21-30., Registrované v: WOS

12. [1.1] ERSOY, Seyda Karaman - TUTEM, Esmâ - BASKAN, Kevser

Sozgen - APAK, Resat - NERGIZ, Cevdet. Preparation, characterization and usage of molecularly imprinted polymer for the isolation of quercetin from hydrolyzed nettle extract. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2016, vol. 1017, no., pp. 89-100., Registrované v: WOS

13. [1.1] GOBI, Narayanan - RAMYA, Chinnu - VASEEHARAN, Baskaralingam - MALAIKOZHUNDAN, Balasubramanian - VIJAYAKUMAR, Sekar - MURUGAN, Kadarkarai - BENELLI, Giovanni. Oreochromis mossambicus diet supplementation with Psidium guajava leaf extracts enhance growth, immune, antioxidant response and resistance to Aeromonas hydrophila. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2016, vol. 58, no., pp. 572-583., Registrované v: WOS

14. [1.1] GRAUSO, Laura - EMRICK, Stefano - DE FALCO, Bruna - LANZOTTI, Virginia - BONANOMI, Giuliano. Common dandelion: a review of its botanical, phytochemical and pharmacological profiles. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2019, vol. 18, no. 4, pp. 1115-1132., Registrované v: WOS

15. [1.1] HFAIEDH, Mbarka - BRAHMI, Dalel - ZOURGUI, Lazhar. Hepatoprotective effect of Taraxacum officinale leaf extract on sodium dichromate-induced liver injury in rats. In ENVIRONMENTAL TOXICOLOGY. ISSN 1520-4081, 2016, vol. 31, no. 3, pp. 339-349., Registrované v: WOS

16. [1.1] IBRAHIM, Muhammad - REHMAN, Kanwal - RAZZAQ, Aneeza - HUSSAIN, Iqbal - FAROOQ, Tahir - HUSSAIN, Amjad - AKASH, Muhammad Sajid Hamid. Investigations of Phytochemical Constituents and Their Pharmacological Properties Isolated from the Genus Urtica: Critical Review and Analysis. In CRITICAL REVIEWS IN EUKARYOTIC GENE EXPRESSION. ISSN 1045-4403, 2018, vol. 28, no. 1, pp. 25-66., Registrované v: WOS

17. [1.1] IVANOV, Ivan - PETKOVA, Nadezhda - TUMBARSKI, Julian - DINCHEVA, Ivayla - BADJAKOV, Ilian - DENEV, Panteley - PAVLOV, Atanas. GC-MS characterization of n-hexane soluble fraction from dandelion (Taraxacum officinale Weber ex FH Wigg.) aerial parts and its antioxidant and antimicrobial properties. In ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES. ISSN 0939-5075, 2018, vol. 73, no. 1-2, pp. 41-47., Registrované v: WOS

18. [1.1] JAHANIAN, Elaheh - JAHANIAN, Rahman - RAHMANI, Hamid-Reza - ALIKHANI, Masoud. Dietary supplementation of Echinacea purpurea powder improved performance, serum lipid profile, and yolk oxidative stability in laying hens. In JOURNAL OF APPLIED ANIMAL RESEARCH. ISSN 0971-2119, 2017, vol. 45, no. 1, pp. 45-51., Registrované v: WOS

19. [1.1] JEDREJEK, Dariusz - KONTEK, Bogdan - LIS, Bernadetta - STOCHMAL, Anna - OLAS, Beata. Evaluation of antioxidant activity of phenolic fractions from the leaves and petals of dandelion in human plasma treated with H₂O₂ and H₂O₂/Fe. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2017, vol. 262, no., pp. 29-37., Registrované v: WOS

20. [1.1] KARIMI, Narges - BEHBAHANI, Mandana - DINI, Ghasem - RAZMJOU, Amir. Anticancer effects of Echinacea purpurea extracts, treated with green synthesized ZnO nanoparticles on human breast cancer (MCF-7) and

- PBMCs proliferation. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2019, vol. 6, no. 9, pp., Registrované v: WOS
21. [1.1] KHALID, Muhammad - BILAL, Muhammad - HASSANI, Danial - ZAMAN, Shah - HUANG, Danfeng. Characterization of ethno-medicinal plant resources of karamar valley Swabi, Pakistan. In JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES. ISSN 1687-8507, 2017, vol. 10, no. 2, pp. 152-163., Registrované v: WOS
22. [1.1] KIM, Jong-Hui - BAIK, Sang-Ho. Preparation and characterization of fermented dandelion (*Taraxacum officinale*) beverage using *Lactobacillus acidophilus* F46 having cinnamoyl esterase activity. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, 2015, vol. 24, no. 2, pp. 583-593., Registrované v: WOS
23. [1.1] LEMA-RUMINSKA, Justyna - KULUS, Dariusz - TYMOSZUK, Alicja - VAREJAO, Jorge M. T. B. - BAHCEVANDZIEV, Kiril. Profile of secondary metabolites and genetic stability analysis in new lines of *Echinacea purpurea* (L.) Moench micropropagated via somatic embryogenesis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 142, no., pp., Registrované v: WOS
24. [1.1] LIS, Bernadetta - JEDREJEK, Dariusz - STOCHMAL, Anna - OLAS, Beata. Assessment of effects of phenolic fractions from leaves and petals of dandelion in selected components of hemostasis. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 107, no., pp. 605-612., Registrované v: WOS
25. [1.1] LU, Yue-hong - HUANG, Ju-hua - LI, Yun-cheng - MA, Ting-ting - SANG, Peng - WANG, Wen-jing - GAO, Chun-yan. Variation in nutritional compositions, antioxidant activity and microstructure of *Lycopus lucidus* Turcz. root at different harvest times. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 183, no., pp. 91-100., Registrované v: WOS
26. [1.1] MAGGINI, Valentina - DE LEO, Marinella - GRANCHI, Carlotta - TUCCINARDI, Tiziano - MENGONI, Alessio - GALLO, Eugenia Rosaria - BIFFI, Sauro - FANI, Renato - PISTELLI, Luisa - FIRENZUOLI, Fabio - BOGANI, Patrizia. The influence of *Echinacea purpurea* leaf microbiota on chicoric acid level. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
27. [1.1] MAHMUDZADEH, Mahsa - YARI, Hossein - RAMEZANZADEH, Bahram - MANDAVIAN, Mohammad. Highly potent radical scavenging-anti-oxidant activity of biologically reduced graphene oxide using Nettle extract as a green bio-genic amines-based reductants source instead of hazardous hydrazine hydrate. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2019, vol. 371, no., pp. 609-624., Registrované v: WOS
28. [1.1] MUDANNAYAKE, Deshani C. - WIMALASIRI, Kuruppu M. S. - SILVA, Kahandage F. S. T. - AJLOUNI, Said. Comparison of Properties of New Sources of Partially Purified Inulin to Those of Commercially Pure Chicory Inulin. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2015, vol. 80, no. 5, pp. C950-C960., Registrované v: WOS
29. [1.1] OMUR, Ali Dogan - APAYDIN YILDIRIM, Betul - KANDEMIR, Fatih Mehmet - AKMAN, Orhan - AKTAS SENOCAK, Esra - AKSU, Emrah Hicazi. Can *Taraxacum officinale* (Dandelion) Extract be an Alternative of Paracetamol in Inflammatory and Painful Cases? An Evaluation

with Regard to Biochemical and Reproductive Parameters. In KAFKAS UNIVERSITETI VETERINER FAKULTESI DERGISI. ISSN 1300-6045, 2017, vol. 23, no. 1, pp. 47-54., Registrované v: WOS

30. [1.1] QURESHI, S. - ADIL, S. - ABD EL-HACK, M. E. - ALAGAWANY, M. - FARAG, M. R. Beneficial uses of dandelion herb (*Taraxacum officinale*) in poultry nutrition. In WORLDS POULTRY SCIENCE JOURNAL. ISSN 0043-9339, 2017, vol. 73, no. 3, pp. 591-602., Registrované v: WOS

31. [1.1] SHARIFI-RAD, Mehdi - ROBERTS, Thomas H. - MATTHEWS, Karl R. - BEZERRA, Camila F. - MORAIS-BRAGA, Maria Flaviana B. - COUTINHO, Henrique D. M. - SHAROPOV, Farukh - SALEHI, Bahare - YOUSAF, Zubaida - SHARIFI-RAD, Majid - DEL MAR CONTRERAS, Maria - VARONI, Elena Maria - VERMA, Deepa R. - IRITI, Marcello - SHARIFI-RAD, Javad. Ethnobotany of the genus *Taraxacum*-Phytochemicals and antimicrobial activity. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2018, vol. 32, no. 11, pp. 2131-2145., Registrované v: WOS

32. [1.1] WIJESUNDARA, Niluni M. - RUPASINGHE, H. P. Vasantha. Bactericidal and Anti-Biofilm Activity of Ethanol Extracts Derived from Selected Medicinal Plants against *Streptococcus pyogenes*. In MOLECULES, 2019, vol. 24, no. 6, pp., Registrované v: WOS

33. [1.1] XUE, Yansong - ZHANG, Shuming - DU, Min - ZHU, Mei-Jun. Dandelion extract suppresses reactive oxidative species and inflammasome in intestinal epithelial cells. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 29, no., pp. 10-18., Registrované v: WOS

34. [1.1] ZEKOVIC, Zoran - CVETANOVIC, Aleksandra - SVARC-GAJIC, Jaroslava - GORJANOVIC, Stanislava - SUZNJEVIC, Desanka - MASKOVIC, Pavle - SAVIC, Sasa - RADOJKOVIC, Marija - DUROVIC, Sasa. Chemical and biological screening of stinging nettle leaves extracts obtained by modern extraction techniques. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 108, no., pp. 423-430., Registrované v: WOS

35. [1.2] BENIWAL, Priyanka - JOOD, Sudesh - ARORA, Suhani. Mango seed kernel: Physico-chemical properties, nutritional composition and antioxidant activity. In Annals of Agri Bio Research. ISSN 09719660, 2016-12-01, 21, 2, pp. 179-182., Registrované v: SCOPUS

36. [1.2] CHEN, Zi Han - JIANG, Ji Hong - JU, Xiu Yun - LIU, Jin Juan. Induction of apoptosis and mechanism of MDA-MB-231 cells by water extract of dandelion root. In Chinese Pharmacological Bulletin. ISSN 10011978, 2019-01-01, 35, 3, pp. 353-358., Registrované v: SCOPUS

37. [1.2] VANNI, G. - CARDELLI, R. - MARCHINI, F. - SAVIOZZI, A. - GUIDI, L. Are the physiological and biochemical characteristics in dandelion plants growing in an urban area (Pisa, Italy) indicative of soil pollution? In Water, Air, and Soil Pollution. ISSN 00496979, 2015-03-31, 226, 4, pp. 1-15., Registrované v: SCOPUS

ADCA504 HUMENÍK, K. - KUTSCHKY, P. - VALKOVÁ, K. - HORVÁTH, B. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. Synthesis of β -D-glucopyranosides of 6-substituted 2-(indol-3-yl)benzothiazoles. In *Collection of Czechoslovak Chemical*

Communications, 1975, vol. 70, p. 72-84. ISSN 0010-0765. Dostupné na:
<https://doi.org/10.1135/cccc20050072>

Ohlasy:

1. [1.1] HUA, Min - WANG, Chunqin - LIU, Qixing - CHEN, Danyi - FU, Hao - ZHOU, Haifeng. SILVER-MEDIATED 2-ARYLATION/ALKYLATION/ACYLATION OF BENZOTHAZOLES WITH ALDEHYDES IN WATER. In *HETEROCYCLES*. ISSN 0385-5414, 2018, vol. 96, no. 7, pp. 1226-1237., Registrované v: WOS
2. [1.1] LIMA, David B. - PENTEADO, Filipe - VIEIRA, Marcelo M. - ALVES, Diego - PERIN, Gelson - SANTI, Claudio - LENARDAO, Eder J. alpha-Keto Acids as Acylating Agents in the Synthesis of 2-Substituted Benzothiazoles and Benzoselenazoles. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2017, vol., no. 26, pp. 3830-3836., Registrované v: WOS

ADCA505 HUMENÍK, M. - KUTSCHY, P. - VÁLKOVÁ, K. - HORVÁTH, B. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. Synthesis of b-D-glucopyranosides of 6-substituted 2-(indol-3yl) benzoythiazoles. In *Collection of Czechoslovak Chemical Communications*, 2005, vol. 70, p. 72-84. (2004: 1.062 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.2] SAYYAH, Soheil - SHABANI, Sara - GHASEMI, Sara - AZIN, Atena - HASANI, Seyyed Morteza. Magnetic ionic liquid [bmim][FeCl₄] as an efficient catalyst for the synthesis of 2-Aryl benzimidazoles and 2-aryl benzothiazoles derivatives. In *Oriental Journal of Chemistry*. ISSN 0970020X, 2015-09-10, 31, 3, pp. 1773-1778., Registrované v: SCOPUS

ADCA506 HUMENÍK, M. - KUTSCHY, P. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. 1,2-Anhydrosaccharides and 1,2-cyclic sulfites in saccharide donors in convergent synthesis of glucopyranosyl-, mannopyranosyl- and ribofuranosylbenzocamalexinl. In *Collection of Czechoslovak Chemical Communications*, 2005, vol. 70, p. 487-506. (2004: 1.062 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] ROUDIAS, Majdouline - VALLEE, Frederic - MARTEL, Julien - PAQUIN, Jean-Francois. Use of XtalFluor-E as an Alternative to POCl₃ in the Vilsmeier Haack Formylation of C-2-Glycols. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 15, pp. 8731-8738., Registrované v: WOS

ADCA507 HURAN, Jozef - VALOVIČ, Albín - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - BORZAKOV, S.B. - KLEINOVÁ, Angela - SEKÁČOVÁ, Mária - ARBET, Juraj - SASINKOVÁ, Vlasta. The effect of neutron irradiation on the properties of SiC and SiC(N) layer prepared by plasma enhanced chemical vapor deposition. In *Applied Surface Science*, 2013, vol. 269, p. 88-91. (2012: 2.112 - IF, Q1 - JCR, 0.913 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na:
<https://doi.org/10.1016/j.apsusc.2012.10.162>

Ohlasy:

1. [1.1] BASKAR, Sam - AZAM, Abu Bakr - AKSHAY, S. -

- THOMAS, Nikhil S. - DEVESH, M. - HARIPRASATH, B. - NALINI, R. Pratibha. Effect of thermal annealing on the structural, optical and microstructural properties of a-SiC thin films. In ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES. ISSN 2374-068X, 2019, vol. 5, no. 3, pp. 438-444., Registrované v: WOS
2. [1.1] BASKAR, S. - GOURLILLEAU, F. - NALINI, R.P. Synthesis and Characterization of a-SxCy Thin Films Prepared by RF Magnetron Co-Sputtering Technique. In JOURNAL OF SURFACE SCIENCE AND TECHNOLOGY. ISSN 0970-1893, DEC 2019, vol. 35, no. 3-4, p. 107-113., Registrované v: WOS
3. [1.1] BASKAR, S. - NALINI, P. Influence of In-Situ Annealing of Si-Rich Silicon Carbide Thin Films. In JOURNAL OF SURFACE SCIENCE AND TECHNOLOGY. DEC 2018, vol. 34, no. 3-4, p. 116-120., Registrované v: WOS
4. [1.1] SU, Qing - WANG, Tianyao - GIGAX, Jonathan - SHAO, Lin - LANFORD, William A. - NASTASI, Michael - LI, Liyi - BHATTARAI, Gyanendra - PAQUETTE, Michelle M. - KING, Sean W. Influence of topological constraints on ion damage resistance of amorphous hydrogenated silicon carbide. In ACTA MATERIALIA. ISSN 1359-6454, 2019, vol. 165, no., pp. 587-602., Registrované v: WOS
5. [1.1] WANG, B. - EICHFIELD, S.M. - WANG, D. - ROBINSON, J.A. - HAQUE, M.A. In NANOSCALE. 2015, vol. 7, no. 34, p. 14489-14495., Registrované v: WOS
6. [1.1] WANG, R.X. - LI, W.Y. - ZHANG, C. - REN, C.Y. - OSTRIKOV, K. - SHAO, T. In PLASMA PROCESSES AND POLYMERS. JUL 2017, vol. 14, no. 7., Registrované v: WOS
7. [1.1] YOSHIMURA, S. - SUGIMOTO, S. - TAKEUCHI, T. - MURAI, K. - KIUCHI, M. Identification of fragment ions produced from hexamethyldisilazane and production of low-energy mass-selected fragment ion beam. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. SEP 1 2018, vol. 430, p. 1-5., Registrované v: WOS
8. [1.2] BASKAR, Sam - NALINI, R. Pratibha. Spectroscopic ellipsometry as a non-destructive tool for rapid investigation of si rich sic thin films. In International Journal of Mechanical Engineering and Technology. ISSN 09766340, 2017-09-01, 8, 9, pp. 250-256., Registrované v: SCOPUS
9. [1.2] BASKAR, Sam - PRATIBHA NALINI, R. - RAINA, Gargi. A comparative analysis on process dependent structural and optical properties of si-rich silicon carbide thin films. In International Journal of Engineering and Advanced Technology, 2019-06-01, 8, 5, pp. 787-791., Registrované v: SCOPUS

ADCA508 HUSÁROVÁ, Slavomíra - VAITILINGOM, Mickael - DEGUILLAUME, Laurent - TRAIKIA, Mounir - VINATIER, Virginie - SANCELME, Martine - AMATO, Pierre - MATULOVÁ, Mária - DELORT, Anne-Marie. Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. In *Atmospheric Environment*, 2011, vol. 45, p. 6093-6102. (2010: 3.226 - IF, Q1 - JCR, 1.907 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1352-2310. Dostupné na: <https://doi.org/10.1016/j.atmosenv.2011.06.035>

Ohlasy:

1. [1.1] DU, Pengrui - DU, Rui - REN, Weishan - LU, Zedong - FU, Pingqing. Seasonal variation characteristic of inhalable microbial communities in PM_{2.5} in Beijing city, China. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 610, no., pp. 308-315., Registrované v: WOS
2. [1.1] FANKHAUSER, Alison M. - ANTONIO, Dexter D. - KRELL, Asher - ALSTON, Simone J. - BANTA, Scott - MCNEILL, V. Faye. Constraining the Impact of Bacteria on the Aqueous Atmospheric Chemistry of Small Organic Compounds. In *ACS EARTH AND SPACE CHEMISTRY*. ISSN 2472-3452, 2019, vol. 3, no. 8, pp. 1485-1491., Registrované v: WOS
3. [1.1] HENDERSON, Tery J. - SALEM, Hary. The Atmosphere: Its Developmental History and Contributions to Microbial Evolution and Habitat. In *AEROBIOLOGY: THE TOXICOLOGY OF AIRBORNE PATHOGENS AND TOXINS*. ISSN 1757-7179, 2016, vol. 25, no., pp. 1-41., Registrované v: WOS
4. [1.1] HERRMANN, Hartmut - SCHAEFER, Thomas - TILGNER, Andreas - STYLER, Sarah A. - WELLER, Christian - TEICH, Monique - OTTO, Tobias. Tropospheric Aqueous-Phase Chemistry: Kinetics, Mechanisms, and Its Coupling to a Changing Gas Phase. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 10, pp. 4259-4334., Registrované v: WOS
5. [1.1] CHINH NHU BAO NGUYEN - HIEN TO THI - FUJII, Yusuke - TAKENAKA, Norimichi. Formaldehyde in Rainwater in Sakai City, Japan: Continuous Observation, Concentration, and Aqueous Photoproduction. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2020, vol. 231, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s11270-020-4444-y>., Registrované v: WOS
6. [1.1] MIURA, Karin - IDE, Sachiko - NAITO, Toyohiro - SHIMADA, Taisuke - YASUI, Takao - BABA, Yoshinobu - KAJI, Noritada. Analysis and Survey of PM_{2.5} from a Biological Viewpoint at Kyushu University Ito Campus. In *BUNSEKI KAGAKU*. ISSN 0525-1931, 2020, vol. 69, no. 12, pp. 741-746., Registrované v: WOS
7. [1.1] XU, Yu - XIAO, Huayun - WU, Daishe - LONG, Chaojun. Abiotic and Biological Degradation of Atmospheric Proteinaceous Matter Can Contribute Significantly to Dissolved Amino Acids in Wet Deposition. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2020, vol. 54, no. 11, pp. 6551-6561. Dostupné na: <https://doi.org/10.1021/acs.est.0c00421>., Registrované v: WOS
8. [1.1] YAN, Ge - KIM, Guebuem - KIM, Jeonghyun - JEONG, Yu-Sik - IL KIM, Young. Dissolved total hydrolyzable enantiomeric amino acids in precipitation: Implications on bacterial contributions to atmospheric organic matter. In *GEOCHIMICA ET COSMOCHIMICA ACTA*. ISSN 0016-7037, 2015, vol. 153, no., pp. 1-14., Registrované v: WOS

ADCA509 HUSÁROVÁ, Slavomíra - MATULOVÁ, Mária - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. Exopolysacharidy produkované *Bacillus* sp 3B6, baktériou izolovanou z oblačnej vody. In *Chemické Listy*, 2011, vol. 105, p. 397. (2010: 0.620 - IF, Q4 - JCR, 0.170 - SJR, Q3 - SJR, Current Contents - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] FEDOROVA, Monika - PROKES, Marian - PISTL, Juraj - NEMCOVA, Radomira. Exopolysaccharides as Important Probiotic Products. In

ADCA510 HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. An ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In *Chemical Communication*, 2015, vol. 51, p. 7474-7477. (2014: 6.834 - IF, Q1 - JCR, 2.692 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/c5cc00922g>

Ohlasy:

1. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In *SENSORS*. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS
2. [1.1] AYDIN, Elif Burcu - AYDIN, Muhammet - SEZGINTURK, Mustafa Kemal. Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 beta in human serum and saliva. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 270, no., pp. 18-27., Registrované v: WOS
3. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
4. [1.1] BLEL, Nesrine - FOURATI, Najla - SOUIRI, Mina - ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In *CURRENT TOPICS IN MEDICINAL CHEMISTRY*. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS
5. [1.1] CUI, Feiyun - XU, Yi - WANG, Renjie - LIU, Haitao - CHEN, Li - ZHANG, Qing - MU, Xiaojing. Label-free impedimetric glycan biosensor for quantitative evaluation interactions between pathogenic bacteria and mannose. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 103, no., pp. 94-98., Registrované v: WOS
6. [1.1] DI IORIO, Daniele - HUSKENS, Jurriaan. Surface Modification with Control over Ligand Density for the Study of Multivalent Biological Systems. In *CHEMISTRYOPEN*. ISSN 2191-1363, 2020, vol. 9, no. 1, pp. 53-66. Dostupné na: <https://doi.org/10.1002/open.201900290>., Registrované v: WOS
7. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS
8. [1.1] DZIABOWSKA, Karolina - CZACZYK, Elzbieta - NIDZWORSKI, Dawid. Detection Methods of Human and Animal Influenza

- Virus-Current Trends. In BIOSENSORS-BASEL. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
9. [1.1] D'AURELIO, Roberta - CHIANELLA, Iva - GOODE, Jack A. - TOTHILL, Ibtisam E. Molecularly Imprinted Nanoparticles Based Sensor for Cocaine Detection. In BIOSENSORS-BASEL, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/bios10030022>., Registrované v: WOS
10. [1.1] FEI, Yiyan - SUN, Yung-Shin - LI, Yanhong - YU, Hai - LAU, Kam - LANDRY, James P. - LUO, Zeng - BAUMGARTH, Nicole - CHEN, Xi - ZHU, Xiangdong. Characterization of Receptor Binding Profiles of Influenza A Viruses Using An Ellipsometry-Based Label-Free Glycan Microarray Assay Platform. In BIOMOLECULES. ISSN 2218-273X, 2015, vol. 5, no. 3, pp. 1480-1498., Registrované v: WOS
11. [1.1] HASSAN, Sammer-ul - DONIA, Ahmed - SIAL, Usman - ZHANG, Xunli - BOKHARI, Habib. Glycoprotein- and Lectin-Based Approaches for Detection of Pathogens. In PATHOGENS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pathogens9090694>., Registrované v: WOS
12. [1.1] HE, Xiao-Peng - ZENG, Ya-Li - TANG, Xin-Ying - LI, Na - ZHOU, Dong-Ming - CHEN, Guo-Rong - TIAN, He. Rapid Identification of the Receptor-Binding Specificity of InfluenzaA Viruses by Fluorogenic Glycofoldamers. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 45, pp. 13995-13999., Registrované v: WOS
13. [1.1] HORSLEY, John R. - YU, Jingxian - WEGENER, Kate L. - HOPPMANN, Christian - RUECK-BRAUN, Karola - ABELL, Andrew D. Photoswitchable peptide-based 'on-off' biosensor for electrochemical detection and control of protein-protein interactions. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 118, no., pp. 188-194., Registrované v: WOS
14. [1.1] CHAUDHARY, Preeti Madhukar - GADE, Madhuri - YELLIN, Rina Arad - SANGABATHUNI, Sivakoti - KIKKERI, Raghavendra. Targeting label free carbohydrate-protein interactions for biosensor design. In ANALYTICAL METHODS. ISSN 1759-9660, 2016, vol. 8, no. 17, pp. 3410-3418., Registrované v: WOS
15. [1.1] CHIADO, Alessandro - PALMARA, Gianluca - CHIAPPONE, Annalisa - TANZANU, Claudia - PIRRI, Candido Fabrizio - ROPPOLO, Ignazio - FRASCELLA, Francesca. A modular 3D printed lab-on-a-chip for early cancer detection. In LAB ON A CHIP. ISSN 1473-0197, 2020, vol. 20, no. 3, pp. 665-674. Dostupné na: <https://doi.org/10.1039/c9lc01108k>., Registrované v: WOS
16. [1.1] JODAT, Yasamin A. - KIAEE, Kiavash - JARQUIN, Daniel Vela - DE LA GARZA HERNANDEZ, Rosakaren Ludivina - WANG, Ting - JOSHI, Sudeep - REZAEI, Zahra - DE MELO, Bruna Alice Gomes - GE, David - MANNOOR, Manu S. - SHIN, Su Ryon. A 3D-Printed Hybrid Nasal Cartilage with Functional Electronic Olfaction. In ADVANCED SCIENCE, 2020, vol. 7, no. 5, pp. Dostupné na: <https://doi.org/10.1002/advs.201901878>., Registrované v: WOS
17. [1.1] LIU, Hai-Peng - MENG, Xin - YU, Qun - TAO, Yun-Chang - XU, Fei - HE, Yun - YU, Peng - YANG, Yang. Synthesis of S-sialyl polymers as efficient polyvalent influenza inhibitors and capturers. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 1, pp.

18-29., Registrované v: WOS

18. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

19. [1.1] MATSUBARA, Teruhiko - UJIE, Michiko - YAMAMOTO, Takashi - EINAGA, Yasuaki - DAIDOJI, Tomo - NAKAYA, Takaaki - SATO, Toshinori. Avian Influenza Virus Detection by Optimized Peptide Termination on a Boron-Doped Diamond Electrode. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 2, pp. 431-439. Dostupné na:

<https://doi.org/10.1021/acssensors.9b02126>., Registrované v: WOS

20. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na:

<https://doi.org/10.3390/mi11040411>., Registrované v: WOS

21. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS

22. [1.1] VACCHINI, Mattia - EDWARDS, Rana - GUIZZARDI, Roberto - PALMIOLI, Alessandro - CIARAMELLI, Carlotta - PAIOTTA, Alice - AIROLDI, Cristina - LA FERLA, Barbara - CIPOLLA, Laura. Glycan Carriers As Glycotools for Medicinal Chemistry Applications. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 35, pp. 6349-6398., Registrované v: WOS

23. [1.1] VALLES, Daniel J. - NAEEM, Yasir - CARBONELL, Carlos - WONG, Alexa M. - MOOTOO, David R. - BRAUNSCHWEIG, Adam B. Maskless Photochemical Printing of Multiplexed Glycan Microarrays for High-Throughput Binding Studies. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2019, vol. 5, no. 6, pp. 3131-3138., Registrované v: WOS

24. [1.1] WADHWA, Shikha - JOHN, Alishba T. - NAGABOOSHANAM, Shalini - MATHUR, Ashish - NARANG, Jagriti. Graphene quantum dot-gold hybrid nanoparticles integrated aptasensor for ultra-sensitive detection of vitamin D-3 towards point-of-care application. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 521, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146427>., Registrované v: WOS

25. [1.1] WAHIBA, Mokhtari - FENG, Xue-Qing - ZANG, Yi - JAMES, Tony D. - LI, Jia - CHEN, Guo-Rong - HE, Xiao-Peng. A supramolecular pyrenyl glycoside-coated 2D MoS₂ composite electrode for selective cell capture. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2016, vol. 52, no. 78, pp. 11689-11692., Registrované v: WOS

26. [1.1] WALPER, Scott A. - ARAGONES, Guillermo Lasarte - SAPSFORD, Kim E. - BROWN, Carl W. - ROWLAND, Clare E. - BREGER, Joyce C. - MEDINTZ, Igor L. Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies. In ACS SENSORS. ISSN

- 2379-3694, 2018, vol. 3, no. 10, pp. 1894-2024., Registrované v: WOS
27. [1.1] WANG, Ronghui - LI, Yanbin. Biosensors for Rapid Detection of Avian Influenza. In STEPS FORWARDS IN DIAGNOSING AND CONTROLLING INFLUENZA, 2016, vol., no., pp. 61-84., Registrované v: WOS
28. [1.1] YANG, Jong Min - KIM, Kyeong Rok - KIM, Chang Sup. Biosensor for Rapid and Sensitive Detection of Influenza Virus. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 4, pp. 371-382., Registrované v: WOS
29. [1.2] BANGA, Ivneet - TYAGI, Roshika - SHAHDEO, Deepshikha - GANDHI, Sonu. Biosensors and their application for the detection of avian influenza virus. In Nanotechnology in Modern Animal Biotechnology: Concepts and Applications, 2019-01-01, pp. 1-16., Registrované v: SCOPUS

ADCA511 HUSHEGYI, András - TKÁČ, Ján. Are glycan biosensors an alternative to glycan microarrays? In *Analytical Methods*, 2014, vol. 6, p. 6610-6620. (2013: 1.938 - IF, Q2 - JCR, 0.614 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c4ay00692e>

Ohlasy:

1. [1.1] ECHEVERRI, Danilo - GARG, Monika - SILVA, Daniel Varon - OROZCO, Jahir. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. In TALANTA. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121117>., Registrované v: WOS
2. [1.1] GERLACH, Jared Q. - KILCOYNE, Michelle - JOSHI, Lokesh. APPLICATIONS OF NANOTECHNOLOGY IN ARRAY-BASED CARBOHYDRATE ANALYSIS AND PROFILING. In CARBOHYDRATE NANOTECHNOLOGY, 2016, vol., no., pp. 267-283., Registrované v: WOS
3. [1.1] LAZAR, Jaroslav - PARK, Hyunji - ROSENCRANTZ, Ruben R. - BOEKER, Alexander - ELLING, Lothar - SCHNAKENBERG, Uwe. Evaluating the Thickness of Multivalent Glycopolymer Brushes for Lectin Binding. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2015, vol. 36, no. 16, pp. 1472-1478., Registrované v: WOS
4. [1.1] NAGAE, Masamichi - YAMAGUCHI, Yoshiki. Biophysical Analyses for Probing Glycan-Protein Interactions. In GLYCOBIOPHYSICS. ISSN 0065-2598, 2018, vol. 1104, no., pp. 119-147., Registrované v: WOS
5. [1.1] PERGOLIZZI, Giulia - DEDOLA, Simone - FIELD, Robert A. Contemporary glycoconjugation chemistry. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 1-46., Registrované v: WOS
6. [1.1] TAO, Shun - JIA, Tian-Wei - YANG, Yang - CHU, Li-Qiang. BSA-Sugar Conjugates as Ideal Building Blocks for SPR-Based Glycan Biosensors. In ACS SENSORS. ISSN 2379-3694, 2017, vol. 2, no. 1, pp. 57-60., Registrované v: WOS
7. [1.1] YEUNG, Sing Yee - SERGEEVA, Yulia - DAM, Tommy - JONSSON, Peter - PAN, Guoqing - CHATURVEDI, Vivek - SELLERGREEN, Borje. Lipid Bilayer-like Mixed Self-Assembled Monolayers with Strong Mobility and Clustering-Dependent Lectin Affinity. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 24, pp. 8174-8181., Registrované v: WOS
8. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md -

AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In *Biomedical Applications of Graphene and 2D Nanomaterials*, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

ADCA512 HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Detekčné metódy pre štúdium glykán proteínových interakcií. In *Chemické listy*, 2014, vol. 108, p. 451-456. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] GAL, Miroslav - DUNAJOVA, Aneta Anna - TOMCIKOVA, Kornelia. Impedimetric Biosensor for the Detection of Protein Virus Residues. In *PROCEEDINGS OF INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXIX*, 2019, vol., no., pp. 74-76., Registrované v: WOS

ADCA513 HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Glycan immobilization in construction of biochips and biosensors. Imobilizácia glykánov pre konštrukciu biočipov a biosenzorov. In *Chemické listy*, 2014, vol. 108, p. 831-837. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS

ADCA514 HUSHEGYI, András - DAMBORSKÁ, Dominika - BERTÓK, Tomáš - ADAM, Vojtech - KIZEK, René - TKÁČ, Ján. Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. In *Biosensors and Bioelectronic*, 2016, vol. 79, p. 644-649. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2015.12.102>

Ohlasy:

1. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In *SENSORS*. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS

2. [1.1] ALHALAILI, Badriyah - POPESCU, Ileana Nicoleta - KAMOUN, Olfa - ALZUBI, Feras - ALAWADHIA, Sami - VIDU, Ruxandra. Nanobiosensors for the Detection of Novel Coronavirus 2019-nCoV and Other Pandemic/Epidemic Respiratory Viruses: A Review. In *SENSORS*, 2020, vol. 20, no. 22, pp. Dostupné na: <https://doi.org/10.3390/s20226591>., Registrované v: WOS

3. [1.1] ANUSHA, J. R. - KIM, Byung Chul - YU, Kook-Hyun - RAJ, C. Justin. Electrochemical biosensing of mosquito-borne viral disease, dengue: A review. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS

4. [1.1] ASTILL, Jake - FRASER, Evan - DARA, Rozita - SHARIF, Shayan. Detecting and Predicting Emerging Disease in Poultry With the Implementation of New Technologies and Big Data: A Focus on Avian Influenza Virus. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2018, vol. 5, no., pp., Registrované v: WOS
5. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
6. [1.1] CESEWSKI, Ellen - JOHNSON, Blake N. Electrochemical biosensors for pathogen detection. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112214>., Registrované v: WOS
7. [1.1] CUI, Feiyun - XU, Yi - WANG, Renjie - LIU, Haitao - CHEN, Li - ZHANG, Qing - MU, Xiaojing. Label-free impedimetric glycan biosensor for quantitative evaluation interactions between pathogenic bacteria and mannose. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 103, no., pp. 94-98., Registrované v: WOS
8. [1.1] CUI, Yue. Electronic Materials, Devices, and Signals in Electrochemical Sensors. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, 2017, vol. 64, no. 6, pp. 2467-2477., Registrované v: WOS
9. [1.1] DZIABOWSKA, Karolina - CZACZYK, Elzbieta - NIDZWORSKI, Dawid. Detection Methods of Human and Animal Influenza Virus-Current Trends. In BIOSENSORS-BASEL. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
10. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad - HEJAZI, Maryam - HASANZADEH, Mohammad - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Recent trends in rapid detection of influenza infections by bio and nanobiosensor. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2018, vol. 98, no., pp. 201-215., Registrované v: WOS
11. [1.1] HIDESHIMA, Sho - HAYASHI, Hiroki - HINO, Hiroshi - NAMBUYA, Shunsuke - KUROIWA, Shigeki - NAKANISHI, Takuya - MOMMA, Toshiyuki - NISHIMURA, Shin-Ichiro - SAKODA, Yoshihiro - OSAKA, Tetsuya. Glycan-immobilized dual-channel field effect transistor biosensor for the rapid identification of pandemic influenza viral particles. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
12. [1.1] KUMAR, Naveen - BHATIA, Sandeep - PATERIYA, Atul Kumar - SOOD, Richa - NAGARAJAN, S. - MURUGKAR, Harshad V. - KUMAR, Satish - SINGH, Praveen - SINGH, Vijendra Pal. Label-free peptide nucleic acid biosensor for visual detection of multiple strains of influenza A virus suitable for field applications. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1093, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.aca.2019.09.060>., Registrované v: WOS
13. [1.1] KUMAR, Penmetcha K. R. Monitoring Intact Viruses Using Aptamers. In BIOSENSORS-BASEL. ISSN 2079-6374, 2016, vol. 6, no. 3, pp.,

Registrované v: WOS

14. [1.1] KUMAR, Ramya - WELLE, Alexander - BECKER, Fabian - KOPYEVA, Irma - LAHANN, Joerg. Substrate-Independent Micropatterning of Polymer Brushes Based on Photolytic Deactivation of Chemical Vapor Deposition Based Surface-Initiated Atom-Transfer Radical Polymerization Initiator Films. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 38, pp. 31965-31976., Registrované v: WOS

15. [1.1] LAKSHMIPRIYA, Thangavel - GOPINATH, Subash C. B. - HASHIM, Uda. Influenza viral detection on microfluidic delivery assisted biosensors. In MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. ISSN 0946-7076, 2018, vol. 24, no. 2, pp. 823-830., Registrované v: WOS

16. [1.1] LEE, Taek - PARK, Sun Yong - JANG, Hongje - KIM, Ga-Hyeon - LEE, Yeonju - PARK, Chulhwan - MOHAMMADNIAEI, Mohsen - LEE, Min-Ho - MIN, Junhong. Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous au nanoparticle for avian influenza virus (H5N1) in chicken serum. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2019, vol. 99, no., pp. 511-519., Registrované v: WOS

17. [1.1] LIN, Jing - GOPINATH, Subash C. B. - LAKSHMIPRIYA, Thangavel - CHEN, Yeng - YUAN, Wong Ruen - YANG, Mei. Target DNA detection of human papilloma virus-16 E7 gene by capture-target-reporter sandwich on interdigitated electrode sensor. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 141, no., pp. 564-569., Registrované v: WOS

18. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

19. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. Main streams in the Construction of Biosensors and Their Applications. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS

20. [1.1] MATSUBARA, Teruhiko - UJIE, Michiko - YAMAMOTO, Takashi - EINAGA, Yasuaki - DAIDOJI, Tomo - NAKAYA, Takaaki - SATO, Toshinori. Avian Influenza Virus Detection by Optimized Peptide Termination on a Boron-Doped Diamond Electrode. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 2, pp. 431-439. Dostupné na:

<https://doi.org/10.1021/acssensors.9b02126>., Registrované v: WOS

21. [1.1] NASRIN, Fahmida - CHOWDHURY, Ankan Dutta - TAKEMURA, Kenshin - KOZAKI, Ikko - HONDA, Hiroyuki - ADEGOKE, Oluwasesan - PARK, Enoch Y. Fluorometric virus detection platform using quantum dots-gold nanocomposites optimizing the linker length variation. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1109, no., pp. 148-157. Dostupné na: <https://doi.org/10.1016/j.aca.2020.02.039>., Registrované v: WOS

22. [1.1] OZER, Tugba - GEISS, Brian J. - HENRY, Charles S. Review-Chemical and Biological Sensors for Viral Detection. In JOURNAL OF

THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS

23. [1.1] PASHCHENKO, Oleksandra - SHELBY, Tyler - BANERJEE, Tuhina - SANTRA, Santimukul. A Comparison of Optical, Electrochemical, Magnetic, and Colorimetric Point-of-Care Biosensors for Infectious Disease Diagnosis. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2018, vol. 4, no. 8, pp. 1162-1178., Registrované v: WOS

24. [1.1] SHEN, Kao-Mai - SABBavarapu, Narayana Murthy - FU, Chien-Yu - JAN, Jia-Tsong - WANG, Jen-Ren - HUNG, Shang-Cheng - LEE, Gwo-Bin. An integrated microfluidic system for rapid detection and multiple subtyping of influenza A viruses by using glycan-coated magnetic beads and RT-PCR. In LAB ON A CHIP. ISSN 1473-0197, 2019, vol. 19, no. 7, pp. 1277-1286., Registrované v: WOS

25. [1.1] SOLER, Maria - ESTEVEZ, Maria Carmen - CARDENOSA-RUBIO, Maria - ASTUA, Alejandro - LECHUGA, Laura M. How Nanophotonic Label-Free Biosensors Can Contribute to Rapid and Massive Diagnostics of Respiratory Virus Infections: COVID-19 Case. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 9, pp. 2663-2678. Dostupné na: <https://doi.org/10.1021/acssensors.0c01180>., Registrované v: WOS

26. [1.1] TEPELI, Yudum - ANIK, Ulku. Electrochemical biosensors for influenza virus a detection: The potential of adaptation of these devices to POC systems. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 254, no., pp. 377-384., Registrované v: WOS

27. [1.1] WALPER, Scott A. - ARAGONES, Guillermo Lasarte - SAPSFORD, Kim E. - BROWN, Carl W. - ROWLAND, Clare E. - BREGER, Joyce C. - MEDINTZ, Igor L. Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies. In ACS SENSORS. ISSN 2379-3694, 2018, vol. 3, no. 10, pp. 1894-2024., Registrované v: WOS

28. [1.1] WANG, Jun - MA, Kui - YIN, Huanshun - ZHOU, Yunlei - AI, Shiyun. Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 1, pp., Registrované v: WOS

29. [1.1] WANG, Yue - ZHOU, Yunlei - XU, Lv - HAN, Zhenwei - YIN, Huanshun - AI, Shiyun. Photoelectrochemical apta-biosensor for zeatin detection based on graphene quantum dots improved photoactivity of graphite-like carbon nitride and streptavidin induced signal inhibition. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 257, no., pp. 237-244., Registrované v: WOS

30. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrosensor. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS

31. [1.1] YANG, Jong Min - KIM, Kyeong Rok - KIM, Chang Sup. Biosensor for Rapid and Sensitive Detection of Influenza Virus. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 4, pp. 371-382., Registrované v: WOS

32. [1.1] YEUNG, Sing Yee - MUCHA, Annabell - DESHMUKH,

Ravindra - BOUTRUS, Malak - ARNEBRANT, Thomas - SELLERGREN, Boerje. Reversible Self-Assembled Monolayers (rSAMs): Adaptable Surfaces for Enhanced Multivalent Interactions and Ultrasensitive Virus Detection. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2017, vol. 3, no. 11, pp. 1198-1207., Registrované v: WOS

33. [1.1] YEUNG, Sing Yee - SERGEEVA, Yulia - DAM, Tommy - JONSSON, Peter - PAN, Guoqing - CHATURVEDI, Vivek - SELLERGREN, Borje. Lipid Bilayer-like Mixed Self-Assembled Monolayers with Strong Mobility and Clustering-Dependent Lectin Affinity. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 24, pp. 8174-8181., Registrované v: WOS

34. [1.1] YI, Jiecan - XIAO, Wen - LI, Guiyin - WU, Pian - HE, Yayuan - CHEN, Cuimei - HE, Yafei - DING, Ping - KAI, Tianhan. The research of aptamer biosensor technologies for detection of microorganism. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 23, pp. 9877-9890. Dostupné na:

<https://doi.org/10.1007/s00253-020-10940-1>., Registrované v: WOS

35. [1.1] ZHANG, Hanyuan - MILLER, Benjamin L. Immunosensor-based label-free and multiplex detection of influenza viruses: State of the art. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 141, no., pp., Registrované v: WOS

36. [1.1] ZHANG, Rui - WANG, Shan - HUANG, Xiaoming - YANG, Yihang - FAN, Haitao - YANG, Fan - LI, Jie - DONG, Xushuai - FENG, Shaobin - ANBU, Periasamy - GOPINATH, Subash C. B. - XIN, Tao. Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1094, no., pp. 142-150. Dostupné na: <https://doi.org/10.1016/j.aca.2019.10.012>., Registrované v: WOS

ADCA515 HUSZÁR, Stanislav - SINGH, Vinayak - POLČICOVÁ, Alica - BARÁTH, Peter - BARRIO, María Belén - LAGRANGE, Sophie - LEBLANC, Véronique - NACY, Carol A. - MIZRAHI, Valerie - MIKUŠOVÁ, Katarína. N-Acetylglucosamine-1-phosphate transferase, WecA, as a validated drug target in Mycobacterium tuberculosis. In *Antimicrobial Agents and Chemotherapy*, 2017, vol. 61, p. e01310-17. (2016: 4.302 - IF, Q1 - JCR, 2.275 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0066-4804. Dostupné na: <https://doi.org/10.1128/AAC.01310-17>

Ohlasy:

1. [1.1] EVANS, Joanna C. - MIZRAHI, Valerie. Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents. In CURRENT OPINION IN MICROBIOLOGY. ISSN 1369-5274, 2018, vol. 45, no., pp. 39-46., Registrované v: WOS

2. [1.1] KIMURA, Ken-ichi. Liposidomycin, the first reported nucleoside antibiotic inhibitor of peptidoglycan biosynthesis translocase I: The discovery of liposidomycin and related compounds with a perspective on their application to new antibiotics. In JOURNAL OF ANTIBIOTICS. ISSN 0021-8820, 2019, vol. 72, no. 12, pp. 877-889., Registrované v: WOS

3. [1.1] SHAKU, Moagi - EALAND, Christopher - KANA, Bavesh D. Cell Surface Biosynthesis and Remodeling Pathways in Mycobacteria Reveal New Drug Targets. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, 2020, vol. 10, no., pp. Dostupné na:

<https://doi.org/10.3389/fcimb.2020.603382>., Registrované v: WOS

4. [1.1] VILCHEZE, Catherine. Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs. In *APPLIED SCIENCES-BASEL*, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/app10072278>., Registrované v: WOS

ADCA516 HÝROŠOVÁ, Eva - FIŠERA, Lubor - REISSIG, Hans-Ulrich - AL-HARRRASI, Ahmed - KOŮŠ, Miroslav. From sugars to modified nucleosides. Hans-Ulrich Reissig, Ahmed Al-Harrasi, Miroslav Kooš. In *ARKIVOC*, 2009, ix, pp.122-142.

Ohlasy:

1. [1.1] MULLAPUDI, Venkannababu - BHOGADE, Ravindra B. - DESHPANDE, Mukund V. - RAMANA, Chepuri V. Phenol Oxidative Dearomatization of Modified Nucleoside Templates: A Simple Access to the C7-Spiroannulated Octosyl Acid Framework. In *SYNTHESIS-STUTTGART*. ISSN 0039-7881, 2017, vol. 49, no. 18, pp. 4221-4228., Registrované v: WOS

ADCA517 HÝROŠOVÁ, E. - FIŠERA, Ľ. - JAME, R.M.-A. - PRÓNAYOVÁ, N. - MEDVECKÝ, M. - KOŮŠ, Miroslav. Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents 2'-oxa-3'-aza-nucleosides. In *Chemistry of Heterocyclic Compounds*, 2007, vol. 43, p. 10-17. (2006: 0.138 - SJR, Q4 - SJR). ISSN 0009-3122.

Ohlasy:

1. [1.1] HALAY, Erkan - AY, Emriye - SALVA, Emine - AY, Kadir - KARAYILDIRIM, Tamer. Synthesis of triazolylmethyl-linked nucleoside analogs via combination of azidofuranoses with propargylated nucleobases and study on their cytotoxicity. In *CHEMISTRY OF HETEROCYCLIC COMPOUNDS*. ISSN 0009-3122, 2018, vol. 54, no. 2, pp. 158-166., Registrované v: WOS

ADCA518 CHMELÍK, J. - ŘEHULKA, P. - KOVÁČIK, Vladimír - PÄTOPRSTÝ, Vladimír - KOVÁČ, P. Negative matrix-assisted laser desorption/ionization time-of-flight/time-of flight tandem mass spectrometry fragmentation of synthetic analogs of the O-specific polysaccharide of *Vibrio cholerae* O:1 in the presence of anionic dopants. In *European Journal of Mass Spectrometry*, 2007, vol.13, p. 347-353. (2006: 1.438 - IF, Q3 - JCR, 0.635 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). Dostupné na: <https://doi.org/10.1255/ejms.891>

Ohlasy:

1. [1.1] SANCHEZ-SIERRA, Maria - GARCIA-ALVAREZ, Isabel - FERNANDEZ-MAYORALAS, Alfonso - MORENO-LILLO, Sandra - BARROSO GARCIA, Gemma - MORAL DARDE, Veronica - DONCEL-PEREZ, Ernesto. Mass Spectrometry in Pharmacokinetic Studies of a Synthetic Compound for Spinal Cord Injury Treatment. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS

ADCA519 CHOCHOLOVÁ, Erika - BERTÓK, Tomáš** - LORENCOVÁ, Lenka - ŠEDIVÁ, Alena - FARKAŠ, Pavol - VIKARTOVSKÁ, Alica - BELLA, Vladimír - VELICOVÁ, Darina - KASÁK, Peter - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - HAŠKO, Daniel - TKÁČ, Ján**. Advanced antifouling

zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. In *Sensors and Actuators B*, 2018, vol. 272, p. 626-633. (2017: 5.667 - IF, Q1 - JCR, 1.406 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2018.07.029>

Ohlasy:

1. [1.1] FREITAS, M. - NEVES, M.M.P.S. - NOUWS, H.P.A. - DELERUE-MATOS, C. Quantum dots as nanolabels for breast cancer biomarker HER2-ECD analysis in human serum. In *TALANTA*. ISSN 0039-9140, FEB 1 2020, vol. 208., Registrované v: WOS
2. [1.1] FREITAS, M. - NOUWS, H.P.A. - KEATING, E. - DELERUE-MATOS, C. High-performance electrochemical immunomagnetic assay for breast cancer analysis. In *SENSORS AND ACTUATORS B-CHEMICAL*. APR 1 2020, vol. 308., Registrované v: WOS
3. [1.1] FREITAS, M. - NOUWS, H.P.A. - KEATING, E. - FERNANDES, V.C. - DELERUE-MATOS, C. Immunomagnetic bead-based bioassay for the voltammetric analysis of the breast cancer biomarker HER2-ECD and tumour cells using quantum dots as detection labels. In *MICROCHIMICA ACTA*. ISSN 0026-3672, FEB 22 2020, vol. 187, no. 3., Registrované v: WOS
4. [1.1] LASTOVICKOVA, M. - STROUHALOVA, D. - BOBALOVA, J. Use of Lectin-based Affinity Techniques in Breast Cancer Glycoproteomics: A Review. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, MAY 1 2020, vol. 19, no. 5, p. 1885-1899., Registrované v: WOS
5. [1.1] LIU, J.Y. - XIONG, Z.J. - ZHANG, J.L. - PENG, C. - KLAJNERT-MACULEWICZ, B. - SHEN, M.W. - SHI, X.Y. Zwitterionic Gadolinium(III)-Complexed Dendrimer-Entrapped Gold Nanoparticles for Enhanced Computed Tomography/Magnetic Resonance Imaging of Lung Cancer Metastasis. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, MAY 1 2019, vol. 11, no. 17, p. 15212-15221., Registrované v: WOS
6. [1.1] LIU, J.Y. - XIONG, Z.J. - SHEN, M.W. - BANYAI, I. - SHI, X.Y. Characterization of zwitterion-modified poly(amidoamine) dendrimers in aqueous solution via a thorough NMR investigation. In *EUROPEAN PHYSICAL JOURNAL E*. ISSN 1292-8941, FEB 4 2020, vol. 43, no. 2., Registrované v: WOS
7. [1.1] OZCELIKAY, G. - KARADURMUS, L. - KAYA, S.I. - BAKIRHAN, N.K. - OZKAN, S.A. A Review: New Trends in Electrode Systems for Sensitive Drug and Biomolecule Analysis. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, MAY 3 2020, vol. 50, no. 3, p. 212-225., Registrované v: WOS
8. [1.1] SONG, Z. - LI, Y. - TENG, H. - DING, C.F. - XU, G.Y. - LUO, X.L. Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. In *SENSORS AND ACTUATORS B-CHEMICAL*. FEB 15 2020, vol. 305., Registrované v: WOS

ADCA520 CHOCHOLOVÁ, Erika - BERTÓK, Tomáš** - JÁNÉ, Eduard - LORENCOVÁ, Lenka - ŠEDIVÁ, Alena - BELICKÁ, Ľudmila, Kľuková - BELICKÝ, Štefan - MISLOVIČOVÁ, Danica - VIKARTOVSKÁ, Alica - IMRICH,

Richard - KASÁK, Peter - TKÁČ, Ján**. Glycomics meets artificial intelligence - Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. In *Clinica Chimica Acta*, 2018, vol. 481, p. 49-55. (2017: 2.926 - IF, Q2 - JCR, 1.102 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0009-8981. Dostupné na: <https://doi.org/10.1016/j.cca.2018.02.031>

Ohlasy:

1. [1.1] KEDRA, Joanna - GOSSEC, Laure. Big Data and artificial intelligence: Will they change our practice? In *JOINT BONE SPINE*. ISSN 1297-319X, 2020, vol. 87, no. 2, pp. 107-109. Dostupné na: <https://doi.org/10.1016/j.jbspin.2019.09.001>., Registrované v: WOS
2. [1.1] LIM, Si Ying - NG, Bao Hui - LI, Sam F. Y. Glycans in blood as biomarkers for forensic applications. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.116084>., Registrované v: WOS
3. [1.1] MAHLER, Michael - MARTINEZ-PRAT, Laura - SPARKS, Jeffrey A. - DEANE, Kevin D. Precision medicine in the care of rheumatoid arthritis: Focus on prediction and prevention of future clinically-apparent disease. In *AUTOIMMUNITY REVIEWS*. ISSN 1568-9972, 2020, vol. 19, no. 5, pp. Dostupné na: <https://doi.org/10.1016/j.autrev.2020.102506>., Registrované v: WOS
4. [1.1] MARTINS, Aline M. A. - GARCIA, J. Huygens P. - EBERLIN, Marcos N. Mass Spectrometry as a Clinical Integrative Tool to Evaluate Hepatocellular Carcinoma: Moving to the Mainstream. In *EXPERT REVIEW OF GASTROENTEROLOGY & HEPATOLOGY*. ISSN 1747-4124, 2019, vol. 13, no. 9, pp. 821-825., Registrované v: WOS
5. [1.1] STAFFORD, I. S. - KELLERMANN, M. - MOSSOTTO, E. - BEATTIE, R. M. - MACARTHUR, B. D. - ENNIS, S. A systematic review of the applications of artificial intelligence and machine learning in autoimmune diseases. In *NPJ DIGITAL MEDICINE*. ISSN 2398-6352, 2020, vol. 3, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41746-020-0229-3>., Registrované v: WOS

ADCA521 CHOCHOLOVÁ, Erika - FILIP, Jaroslav - BERTÓK, Tomáš - BOTH, Peter - KASÁK, Peter - TKÁČ, Ján. Nanotechnology in glycomics: Applications in diagnostics, therapy, imaging, and separation precesses. In *Medicinal Research Reviews*, 2017, vol. 37, p. 514-626. (2016: 8.763 - IF, Q1 - JCR, 2.701 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0198-6325. Dostupné na: <https://doi.org/10.1002/med.21420>

Ohlasy:

1. [1.1] BOTH, Peter - RIESE, Michel - GRAY, Christopher J. - HUANG, Kun - PALLISTER, Edward G. - KOSOV, Iaroslav - CONWAY, Louis P. - VOGLMEIR, Josef - FLITSCH, Sabine L. Applications of a highly alpha 2,6-selective pseudosialidase. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 5, pp. 261-268., Registrované v: WOS
2. [1.1] ERSHOV, Andrei Y. - MARTYNENKOV, Alexander A. - LAGODA, Igor - KOPANITSA, Maria A. - YAKIMANSKY, Alexander. Synthesis of Aldose 11-Mercaptoundecanoyl Hydrazones as Promising Glycoligands of Noble Metal Nanoparticles. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2019, vol. 4, no. 44, pp. 12938-12941., Registrované v: WOS
3. [1.1] GALLEGO, Ivan - RIOBOO, Alicia - REINA, Jose J. - DIAZ,

- Bernardo - CANALES, Angeles - JAVIER CANADA, F. - GUERRA-VARELA, Jorge - SANCHEZ, Laura - MONTENEGRO, Javier. Glycosylated Cell-Penetrating Peptides (GCPPs). In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 11, pp. 1400-1409., Registrované v: WOS
4. [1.1] GHOSH, Shyamasree. Nanotechnology and sialic acid biology. In SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE, 2020, vol., no., pp. 297-325. Dostupné na: <https://doi.org/10.1016/B978-0-12-816126-5.00011-1>., Registrované v: WOS
 5. [1.1] GOUD, Rayapolu Ranga - KRISHNAVENI, Gunnala - PATRO, Girija Prasad. SOLUBILITY AND BIOAVAILABILITY ENHANCEMENT STRATEGIES FOR EFFECTIVE DELIVERY OF POORLY WATER SOLUBLE DRUGS BY NANO FORMULATIONS AND SOLID DISPERSIONS. In INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 2349-7750, 2018, vol. 5, no. 2, pp. 1028-1034., Registrované v: WOS
 6. [1.1] GUAN, Ce - ZHAO, Yangyang - HOU, Yiting - SHAN, Guiye - YAN, Dongmei - LIU, Yichun. Glycosylated liposomes loading carbon dots for targeted recognition to HepG2 cells. In TALANTA. ISSN 0039-9140, 2018, vol. 182, no., pp. 314-323., Registrované v: WOS
 7. [1.1] GUCCHAIT, Arin - GHOSH, Sritin - MISRA, Anup Kumar. Synthesis of Novel Glycosyl Carbamo(dithioperoxo)thioate Derivatives. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2020, vol. 52, no. 10, pp. 1523-1530. Dostupné na: <https://doi.org/10.1055/s-0037-1610754>., Registrované v: WOS
 8. [1.1] HE, Maofang - WE, Yinmao - WANG, Rong - WANG, Chunyang - ZHANG, Bo - HAN, Lu. Boronate affinity magnetic nanoparticles with hyperbranched polymer brushes for the adsorption of cis-diol biomolecules. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 10, pp., Registrované v: WOS
 9. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis. In CHEMPLUSCHEM. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>., Registrované v: WOS
 10. [1.1] ROMERO-BEN, Elena - JOSE CID, Juan - ASSALI, Mohyeddin - FERNANDEZ-GARCIA, Elisabeth - ERIK WELLINGER, Ralf - KHIAR, Nouredine. Surface modulation of single-walled carbon nanotubes for selective bacterial cell agglutination. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2019, vol. 14, no., pp. 3245-3263., Registrované v: WOS
 11. [1.1] RUSSO, Laura. Glycans in nanomedicine: where are we now? In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 24, pp. 2325-2328. Dostupné na: <https://doi.org/10.2217/nnm-2020-0228>., Registrované v: WOS
 12. [1.1] SUN, Pengfei - YUAN, Pengcheng - WANG, Gaina - DENG, Weixing - TIAN, Sichao - WANG, Chao - LU, Xiaomei - HUANG, Wei - FAN, Quli. High Density Glycopolymers Functionalized Perylene Diimide Nanoparticles for Tumor-Targeted Photoacoustic Imaging and Enhanced Photothermal Therapy. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 10, pp. 3375-3386., Registrované v: WOS

13. [1.1] VACCHINI, Mattia - EDWARDS, Rana - GUIZZARDI, Roberto - PALMIOLI, Alessandro - CIARAMELLI, Carlotta - PAIOTTA, Alice - AIROLDI, Cristina - LA FERLA, Barbara - CIPOLLA, Laura. Glycan Carriers As Glycotools for Medicinal Chemistry Applications. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 35, pp. 6349-6398., Registrované v: WOS
14. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
15. [1.1] ZHAN, Qiliang - ZHAO, Hongli - HONG, Yayun - PU, Chenlu - LIU, Yuye - LAN, Minbo. Preparation of a hydrophilic interaction liquid chromatography material by sequential electrostatic deposition of layers of polyethyleneimine and hyaluronic acid for enrichment of glycopeptides. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 9, pp., Registrované v: WOS
16. [1.1] ZHAO XINGYUN - ZHANG HONGYAN - ZHOU XIAOYU - WANG LI - WAN LIHONG - WU REN'AN. Preparation of core-shell silica-carbon composite microspheres stationary phase and application in saccharide separation. In CHINESE JOURNAL OF CHROMATOGRAPHY. ISSN 1000-8713, 2020, vol. 38, no. 12, pp. 1357-1362. Dostupné na: <https://doi.org/10.3724/SP.J.1123.2020.08016>., Registrované v: WOS

ADCA522 CHOI, Ji Won - SYNYTSYA, Andriy - CAPEK, Peter - BLEHA, Roman - POHL, Radek - PARK, Yong Il. Structural analysis and anti-obesity effect of a pectic polysaccharide isolated from Korean mulberry fruit Oddi (*Morus alba* L.). In *Carbohydrate Polymers*, 2016, vol. 146, p. 187-196. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] ASSIRELLI, Alberto - STAGNO, Fiorella - COCCHI, Andrea - SIRRI, Sandro - SAVIANE, Alessio - GIOVANNINI, Daniela - CAPPELLOZZA, Silvia. Innovative system for mulberry fruit harvesting. In JOURNAL OF BERRY RESEARCH. ISSN 1878-5093, 2019, vol. 9, no. 4, pp. 615-630., Registrované v: WOS
2. [1.1] FU, Yuan - YUAN, Qin - LIN, Shang - LIU, Wen - DU, Gang - ZHAO, Li - ZHANG, Qing - LIN, De-Rong - LIU, Yun-Tao - QIN, Wen - LI, De-Qiang - WU, Ding-Tao. Physicochemical characteristics and biological activities of polysaccharides from the leaves of different loquat (*Eriobotrya japonica*) cultivars. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 135, no., pp. 274-281., Registrované v: WOS
3. [1.1] GUO, Ciliang - ZHANG, Shihai - WANG, Yeqing - LI, Meixia - DING, Kan. Isolation and structure characterization of a polysaccharide from *Crataegus pinnatifida* and its bioactivity on gut microbiota. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 154, no., pp. 82-91. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.058>., Registrované v: WOS
4. [1.1] HE, Xirui - FANG, Jiacheng - RUAN, Yinlan - WANG,

Xiaoxiao - SUN, Yin - WU, Ni - ZHAO, Zefeng - CHANG, Yu - NING, Ning - GUO, Hao - HUANG, Linhong. Structures, bioactivities and future prospective of polysaccharides from *Morus alba* (white mulberry): A review. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 899-910., Registrované v: WOS

5. [1.1] HU, Dongwen - BAO, Tao - LU, Yang - SU, Hongming - KE, Huihui - CHEN, Wei. Polysaccharide from Mulberry Fruit (*Morus alba* L.) Protects against Palmitic-Acid-Induced Hepatocyte Lipotoxicity by Activating the Nrf2/ARE Signaling Pathway. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 46, pp. 13016-13024. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b03335>., Registrované v: WOS

6. [1.1] CHAI, Zhi - HUANG, Wuyang - ZHAO, Xue - WU, Han - ZENG, Xiaoxiong - LI, Chunyang. Preparation, characterization, antioxidant activity and protective effect against cellular oxidative stress of polysaccharide from *Cynanchum auriculatum* Royle ex Wight. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 1068-1076., Registrované v: WOS

7. [1.1] CHANG, BoYoon - KOO, BongSeong - LEE, HyeonCheol - OH, Joa Sub - KIM, SungYeon. Activation of macrophage mediated host defense against *Salmonella typhimurium* by *Morus alba* L. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2018, vol. 62, no., pp., Registrované v: WOS

8. [1.1] CHENG, Xiang - SHI, Songshan - SU, Juan - XU, Yongbin - JUAN ORDAZ-ORTIZ, Jose - LI, Ning - WU, Jianjun - WANG, Huijun - WANG, Shunchun. Structural characterization of a heteropolysaccharide from fruit of *Chaenomeles speciosa* (Sweet) Nakai and its antitumor activity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116065>., Registrované v: WOS

9. [1.1] CHEN, Hu - YU, Wansha - CHEN, Guo - MENG, Shuai - XIANG, Zhonghuai - HE, Ningjia. Antinociceptive and Antibacterial Properties of Anthocyanins and Flavonols from Fruits of Black and Non-Black Mulberries. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS

10. [1.1] CHEN, Chun - WANG, Ping-ping - HUANG, Qiang - YOU, Li-Jun - LIU, Rui Hai - ZHAO, Mou-ming - FU, Xiong - LUO, Zhi-Gang. A comparison study on polysaccharides extracted from *Fructus Mori* using different methods: structural characterization and glucose entrapment. In *FOOD & FUNCTION*. ISSN 2042-6496, 2019, vol. 10, no. 6, pp. 3684-3695., Registrované v: WOS

11. [1.1] CHEN, Yufeng - JIN, Lu - LI, Yunhong - XIA, Guobin - CHEN, Chun - ZHANG, Ying. Bamboo-shaving polysaccharide protects against high-diet induced obesity and modulates the gut microbiota of mice. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 49, no., pp. 20-31., Registrované v: WOS

12. [1.1] JIAO, Lili - LI, Hui - LI, Junming - BO, Li - ZHANG, Xiaoyu - WU, Wei - CHEN, ChangBao. Study on structure characterization of pectin from the steamed ginseng and the inhibition activity of lipid accumulation in oleic acid-induced HepG2 cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 159, no., pp. 57-65. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.167>., Registrované v:

WOS

13. [1.1] JI, Xiaolong - ZHANG, Fan - ZHANG, Rui - LIU, Fang - PENG, Qiang - WANG, Min. An acidic polysaccharide from *Ziziphus Jujuba* cv. Muzao: Purification and structural characterization. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 274, no., pp. 494-499., Registrované v: WOS
14. [1.1] LEE, Mak-Soon - KIM, Yangha. Mulberry Fruit Extract Ameliorates Adipogenesis via Increasing AMPK Activity and Downregulating MicroRNA-21/143 in 3T3-L1 Adipocytes. In *JOURNAL OF MEDICINAL FOOD*. ISSN 1096-620X, 2020, vol. 23, no. 3, pp. 266-272. Dostupné na: <https://doi.org/10.1089/jmf.2019.4654.>, Registrované v: WOS
15. [1.1] LIAO, Bu-Yan - HU, Hai-Mei - THAKUR, Kiran - CHEN, Gui-Hai - LI, Ling - WEI, Zhao-Jun. HYPOGLYCEMIC ACTIVITY AND THE COMPOSITION ANALYSIS OF THE POLYSACCHARIDE EXTRACTED FROM THE FRUIT OF *MORI MULTICAULIS*. In *CURRENT TOPICS IN NUTRACEUTICAL RESEARCH*. ISSN 1540-7535, 2018, vol. 16, no. 1, pp. 1-8., Registrované v: WOS
16. [1.1] LIN, Shang - LI, Hong-Yi - YUAN, Qin - NIE, Xi-Rui - ZHOU, Jia - WEI, Si-Yu - DU, Gang - ZHAO, Li - WANG, Sheng-Peng - ZHANG, Qing - CHEN, Hong - QIN, Wen - WU, Ding-Tao. Structural characterization, antioxidant activity, and immunomodulatory activity of non-starch polysaccharides from *Chuanminshen* violaceum collected from different regions. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 143, no., pp. 902-912. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.151.>, Registrované v: WOS
17. [1.1] LIU, Ji-Luan - YANG, Li-Cong - ZHU, Xiao-Juan - WANG, We-Jun - ZHENG, Guo-Dong. Combinational Effect of Pine Needle Polysaccharide and Kudzu Flavonoids on Cell Differentiation and Fat Metabolism in 3T3-L1 Cells. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2018, vol. 24, no. 5, pp. 903-910., Registrované v: WOS
18. [1.1] LIU, Juan - ZHAO, Yupeng - WU, Qixian - JOHN, Afiya - JIANG, Yueming - YANG, Jiali - LIU, Huiling - YANG, Bao. Structure characterisation of polysaccharides in vegetable "okra" and evaluation of hypoglycemic activity. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 242, no., pp. 211-216., Registrované v: WOS
19. [1.1] LIU, Wei - HU, Cheng - LIU, Yameng - DAI, Shijie - LU, Weisheng - LV, Xing - YAO, Wenbing - GAO, Xiangdong. Preparation, characterization, and alpha-glycosidase inhibition activity of a carboxymethylated polysaccharide from the residue of *Sarcandra glabra* (Thunb.) Nakai. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 99, no., pp. 454-464., Registrované v: WOS
20. [1.1] LI, Saijuan - LI, Meixia - YUE, Han - ZHOU, Lishuang - HUANG, Lulin - DU, Zhenyun - DING, Kan. Structural elucidation of a pectic polysaccharide from *Fructus Mori* and its bioactivity on intestinal bacteria strains. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 186, no., pp. 168-175., Registrované v: WOS
21. [1.1] MILANI, Jafar M. - GOLKAR, Abdolkhalegh. Health Aspects of Novel Hydrocolloids. In *EMERGING NATURAL HYDROCOLLOIDS: RHEOLOGY AND FUNCTIONS*, 2019, vol., no., pp. 601-622., Registrované v:

WOS

22. [1.1] MOHAN, Kannan - MURALISANKAR, Thirunavukkarasu - UTHAYAKUMAR, Venkatachalam - CHANDIRASEKAR, Ramachandran - REVATHI, Nagarajan - GANESAN, Abirami Ramu - VELMURUGAN, Kalamani - SATHISHKUMAR, Palanivel - JAYAKUMAR, Rajarajeswaran - SEEDEVI, Palaniappan. Trends in the extraction, purification, characterisation and biological activities of polysaccharides from tropical and sub-tropical fruits A comprehensive review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 238, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116185>., Registrované v: WOS
23. [1.1] PEL, Pisey - CHAE, Hee-Sung - NHOEK, Piseth - KIM, Young-Mi - CHIN, Young-Won. Chemical Constituents with Proprotein Convertase Subtilisin/Kexin Type 9 mRNA Expression Inhibitory Activity from Dried Immature Morus alba Fruits. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 26, pp. 5316-5321., Registrované v: WOS
24. [1.1] RAHMAN, Heshu Sulaiman - MUHAMMAD, Karwan Sidiq - SATTAR, Faraidoun Abdul - ABDULLAH, Rasedee - OTHMAN, Hemn Hassan - YEAP, Swee Keong - CHARTRAND, Max Stanley - AMIN, Kawa Muhamad. The Effectiveness of Super Ovulation and Multiple Pregnancies in Sprague Dawley Rat using Morus alba Linn. Fruit. In INTERNATIONAL JOURNAL OF MEDICAL RESEARCH & HEALTH SCIENCES. ISSN 2319-5886, 2018, vol. 7, no. 1, pp. 17-26., Registrované v: WOS
25. [1.1] ROHELA, Gulab Khan - SHUKLA, Pawan - MUTTANNA - KUMAR, Rajesh - CHOWDHURY, Sukhen Roy. Mulberry (Morus spp.): An ideal plant for sustainable development. In TREES FORESTS AND PEOPLE, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.tfp.2020.100011>., Registrované v: WOS
26. [1.1] TAN, Huizi - NIE, Shaoping. Deciphering diet-gut microbiota-host interplay: Investigations of pectin. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2020, vol. 106, no., pp. 171-181. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.10.010>., Registrované v: WOS
27. [1.1] TAO, Yang - WANG, Yilin - YANG, Jun - WANG, Qi - JIANG, Na - DINH-TOI CHU - HAN, Yongbin - ZHOU, Jianzhong. Chemical composition and sensory profiles of mulberry wines as fermented with different Saccharomyces cerevisiae strains. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no., pp. 2006-2021., Registrované v: WOS
28. [1.1] VALLIANOU, Natalia - STRATIGOU, Theodora - CHRISTODOULATOS, Gerasimos Socrates - DALAMAGA, Maria. Understanding the Role of the Gut Microbiome and Microbial Metabolites in Obesity and Obesity-Associated Metabolic Disorders: Current Evidence and Perspectives. In CURRENT OBESITY REPORTS. ISSN 2162-4968, 2019, vol. 8, no. 3, pp. 317-332., Registrované v: WOS
29. [1.1] WANG, Kang-Le - LU, Zhen-Ming - MAO, Xiangjunzhi - CHEN, Lu - GONG, Jin-Song - REN, Yilin - GENG, Yan - LI, Heng - XU, Hong-Yu - XU, Guo-Hua - SHI, Jin-Song - XU, Zheng-Hong. Structural characterization and anti-alcoholic liver injury activity of a polysaccharide from Coriolus versicolor mycelia. In INTERNATIONAL JOURNAL OF

- BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 137, no., pp. 1102-1111., Registrované v: WOS
30. [1.1] WANG, Lei - LI, Chao - HUANG, Qiang - FU, Xiong. Biofunctionalization of selenium nanoparticles with a polysaccharide from *Rosa roxburghii* fruit and their protective effect against H₂O₂-induced apoptosis in INS-1 cells. In *FOOD & FUNCTION*. ISSN 2042-6496, 2019, vol. 10, no. 2, pp. 539-553., Registrované v: WOS
31. [1.1] WEN, Peng - HU, Teng-Gen - LINHARDT, Robert J. - LIAO, Sen-Tai - WU, Hong - ZOU, Yu-Xiao. Mulberry: A review of bioactive compounds and advanced processing technology. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2019, vol. 83, no., pp. 138-158., Registrované v: WOS
32. [1.1] WU, Xianli - SUN, Jianghao - AHUJA, Jaspreet - HAYTOWITZ, David B. - CHEN, Pei - BURTON-FREEMAN, Britt - PEHRSSON, Pamela R. Anthocyanins in processed red raspberries on the US market. In *JOURNAL OF BERRY RESEARCH*. ISSN 1878-5093, 2019, vol. 9, no. 4, pp. 603-613., Registrované v: WOS
33. [1.1] XU, Yaqin - GAO, Yankang - LIU, Fei - NIU, Xiaojie - WANG, Libo - LI, Xingguo - CHEN, Hongchao - YANG, Yu. Sulfated modification of the polysaccharides from blackcurrant and their antioxidant and alpha-amylase inhibitory activities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 1344-1354., Registrované v: WOS
34. [1.1] XU, Yaqin - GUO, Yingying - DUAN, Suyang - WEI, Hong - LIU, Yusong - WANG, Libo - HUO, Xin - YANG, Yu. Effects of ultrasound irradiation on the characterization and bioactivities of the polysaccharide from blackcurrant fruits. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 49, no., pp. 206-214., Registrované v: WOS
35. [1.1] XU, Yaqin - GUO, Yingying - GAO, Yankang - NIU, Xiaojie - WANG, Libo - LI, Xingguo - CHEN, Hongchao - YU, Zeyuan - YANG, Yu. Separation, characterization and inhibition on alpha-glucosidase, alpha-amylase and glycation of a polysaccharide from blackcurrant fruits. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2018, vol. 93, no., pp. 16-23., Registrované v: WOS
36. [1.1] XU, Yaqin - NIU, Xiaojie - LIU, Ningyue - GAO, Yankang - WANG, Libo - XU, Gang - LI, Xingguo - YANG, Yu. Characterization, antioxidant and hypoglycemic activities of degraded polysaccharides from blackcurrant (*Ribes nigrum* L.) fruits. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 243, no., pp. 26-35., Registrované v: WOS
37. [1.1] YANG, Eun-In - LEE, Chang-Hyun - CHE, Denis Nchang - JANG, Seon-Il - KIM, Young-Soo. Biological activities of water-soluble polysaccharides from *Opuntia humifusa* stem in high-fat-diet-fed mice. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2019, vol. 43, no. 4, pp., Registrované v: WOS
38. [1.1] YANG, Haihong - BAI, Jingwen - MA, Conglei - WANG, Libo - LI, Xiaoqing - ZHANG, Yu - XU, Yaqin - YANG, Yu. Degradation models, structure, rheological properties and protective effects on erythrocyte hemolysis of the polysaccharides from *Ribes nigrum* L. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 738-746. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.093>.,

Registrované v: WOS

39. [1.1] YANG, Yu - KHAN, Bilal Muhammad - ZHANG, Xiping - ZHAO, Yongjie - CHEONG, Kit-Leong - LIU, Yang. Advances in Separation and Purification of Bioactive Polysaccharides through High-speed Counter-Current Chromatography. In JOURNAL OF CHROMATOGRAPHIC SCIENCE. ISSN 0021-9665, 2020, vol. 58, no. 10, pp. 992-1000. Dostupné na: <https://doi.org/10.1093/chromsci/bmaa063>., Registrované v: WOS
40. [1.1] YUAN, Qingxia - ZHAO, Longyan. The Mulberry (*Morus alba* L.) Fruit-A Review of Characteristic Components and Health Benefits. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 48, pp. 10383-10394., Registrované v: WOS
41. [1.1] ZHANG, Jiaqi - CHEN, Chun - FU, Xiong. Fructus mori L. polysaccharide-iron chelates formed by self-embedding with iron(III) as the core exhibit good antioxidant activity. In FOOD & FUNCTION. ISSN 2042-6496, 2019, vol. 10, no. 6, pp. 3150-3160., Registrované v: WOS
42. [1.1] ZHANG, Jia-Qi - LI, Chao - HUANG, Qiang - YOU, Li-Jun - CHEN, Chun - FU, Xiong - LIU, Rui Hai. Comparative study on the physicochemical properties and bioactivities of polysaccharide fractions extracted from Fructus Mori at different temperatures. In FOOD & FUNCTION. ISSN 2042-6496, 2019, vol. 10, no. 1, pp. 410-421., Registrované v: WOS
43. [1.1] ZHANG, Shaojie - AN, Lijun - LI, Zhengguo - WANG, Honglin - SHI, Lijuan - ZHANG, Jie - LI, Yuhao - JIN, Da-Qing - TUE RHONG, Muhetaer - OHIZUMI, Yasushi - SHUAI, Ling - XU, Jing - GUO, Yuanqiang. An active heteropolysaccharide from the rinds of *Garcinia mangostana* Linn.: Structural characterization and immunomodulation activity evaluation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115929>., Registrované v: WOS
44. [1.1] ZHANG, Shihai - HE, Fei - CHEN, Xia - DING, Kan. Isolation and structural characterization of a pectin from *Lycium ruthenicum* Murr and its anti-pancreatic ductal adenocarcinoma cell activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 223, no., pp., Registrované v: WOS
45. [1.1] ZHANG, Tiehua - YANG, Yang - LIANG, Yuan - JIAO, Xu - ZHAO, Changhui. Beneficial Effect of Intestinal Fermentation of Natural Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2018, vol. 10, no. 8, pp., Registrované v: WOS
46. [1.1] ZHOU, Jinhui - ZOU, Ping - JING, Changliang - XU, Zongchang - ZHOU, San - LI, Yiqiang - ZHANG, Chengsheng - YUAN, Yuan. Chemical characterization and bioactivities of polysaccharides from *Apocynum venetum* leaves extracted by different solvents. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2020, vol. 14, no. 1, pp. 244-253. Dostupné na: <https://doi.org/10.1007/s11694-019-00286-2>., Registrované v: WOS
47. [1.2] GUO, Sen - BAI, Lu - HO, Chi Tang - BAI, Naisheng. Characteristic Components, Biological Activities and Future Prospective of Fructus Mori: a Review. In Current Pharmacology Reports, 2018-06-01, 4, 3, pp. 210-219., Registrované v: SCOPUS

In *Mutation research : genetic toxicology*, 1996, vol. 371, no.1-2, p. 115-120. ISSN 0165-1218. Dostupné na: [https://doi.org/10.1016/S0165-1218\(96\)90101-9](https://doi.org/10.1016/S0165-1218(96)90101-9)

Ohlasy:

1. [1.1] ARAUJO, V.B.D. - DE MELO, A.N.F. - SOUZA, N.T. - DA SILVA, V.M.B. - CASTRO-GOMEZ, R.H. - SILVA, A.S. - DE SOUZA, E.L. - MAGNANI, M. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 8, p. 14950-14958., Registrované v: WOS
2. [1.1] LIU, F. - WANG, Z.Z. - LIU, J. - LI, W.J. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, p. 572-579., Registrované v: WOS
3. [1.1] URT-FILHO, A. - OLIVEIRA, R.J. - HERMETO, L.C. - PESARINI, J.R. - DE DAVID, N. - CANTERO, W.D. - FALCAO, G. - MARKS, G. - ANTONIOLLI-SILVA, A.C.M.B. Mesenchymal stem cell therapy promotes the improvement and recovery of renal function in a preclinical model. In *GENETICS AND MOLECULAR BIOLOGY*. ISSN 1415-4757, 2016, vol. 39, no. 2, p. 290-299., Registrované v: WOS

ADCA524 CHORVATOVIČOVÁ, Darina - ŠANDULA, Jozef. Effect of carboxymethyl-chitin-glucan on cyclophosphamide induced mutagenicity. In *Mutation Research Letters*, 1995, vol. 346, iss.1, p.43-48. (1995 - Current Contents). ISSN 0165-7992. Dostupné na: [https://doi.org/10.1016/0165-7992\(95\)90067-5](https://doi.org/10.1016/0165-7992(95)90067-5)

Ohlasy:

1. [1.1] ABDEL-MOHSEN, A.M. - JANCAR, J. - MASSOUD, D. - FOHLEROVA, Z. - ELHADIDY, H. - SPOTZ, Z. - HEBEISH, A. Novel chitin/chitosan-glucan wound dressing: Isolation, characterization, antibacterial activity and wound healing properties. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2016, vol. 510, no. 1, p. 86-99., Registrované v: WOS
2. [1.2] BABRNÁKOVÁ, Johana - PAVLIŇÁKOVÁ, Veronika - BRTNÍKOVÁ, Jana - SEDLÁČEK, Petr - PROSECKÁ, Eva - RAMPICHOVÁ, Michala - FILOVÁ, Eva - HEARNDEN, Vanessa - VOJTOVÁ, Lucy. Synergistic effect of bovine platelet lysate and various polysaccharides on the biological properties of collagen-based scaffolds for tissue engineering: Scaffold preparation, chemo-physical characterization, in vitro and ex ovo evaluation. In *MATERIALS SCIENCE AND ENGINEERING C*. ISSN 0928-4931, 2019, vol. 100, pp. 236-246., Registrované v: SCOPUS
3. [1.2] GAMAL-ELDEEN, A.M. - ABO-ZEID, M.A. - EL-DALY, S.M. - ABO-ELFADL, M.T. - FAHMY, C.A. - ALI, M.R. - EL-SAYED, M.A. In vivo genotoxicity of gold nanorods in mouse bone marrow compared with cyclophosphamide. In *NANO BIOMEDICINE AND ENGINEERING*. ISSN 2150-5578, 2016, vol. 8, no. 4, p. 306-314, Registrované v: SCOPUS
4. [1.2] CHAUDHARI, S. Y. - JAGTAP, C. - THAKKAR, J. H. - GALIB, R. - PRAJAPATI, P. Assessment of genotoxic potential of Tamra Bhasma (incinerated copper). In *INTERNATIONAL JOURNAL OF GREEN PHARMACY*. ISSN 0973-8258, 2015, vol. 9, no. 3, p. 175-179., Registrované v: SCOPUS

ADCA525 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef - KOGAN, Grigorij. Protective effect of the yeast glucomannan against cyclophosphamide-induced mutagenicity. In *Mutation research : genetic toxicology and environmental mutagenesis*, 1999, vol. 444, no. 1, p. 117-122. (1999 - Current Contents). ISSN 1383-5718. Dostupné na: [https://doi.org/10.1016/S1383-5718\(99\)00102-3](https://doi.org/10.1016/S1383-5718(99)00102-3)

Ohlasy:

1. [1.1] BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - KIELISZEK, Marek - POBIEGA, Katarzyna - FALANA, Katarzyna - JANOWICZ, Monika. Modification of the cell wall structure of *Saccharomyces cerevisiae* strains during cultivation on waste potato juice water and glycerol towards biosynthesis of functional polysaccharides. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 281, no., pp. 1-10., Registrované v: WOS
2. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In *HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS*, 2015, vol., no., pp. 61-103., Registrované v: WOS
3. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
4. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
5. [1.1] LAO, E.J. - DIMOSO, N. - RAYMOND, J. - MBEGA, E.R. The prebiotic potential of brewers' spent grain on livestock's health: a review. In *TROPICAL ANIMAL HEALTH AND PRODUCTION*. ISSN 0049-4747, MAR 2020, vol. 52, no. 2, p. 461-472., Registrované v: WOS
6. [1.1] LI, Jun-yi - SUN, Fei - ZHOU, Hai-feng - YANG, Jia - HUANG, Cong - FAN, Heng. A Systematic Review Exploring the Anticancer Activity and Mechanisms of Glucomannan. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2019, vol. 10, art. no. 930., Registrované v: WOS
7. [1.1] MADRIGAL-SANTILLAN, E. - MADRIGAL-BUJADAR, E. - REYES-ARELLANO, A. - MORALES-GONZALEZ, J.A. - ALVAREZ-GONZALEZ, I. - SANCHEZ-GUTIERREZ, M. - IZQUIERDO-VEGA, J.A. - CALZADA-MENDOZA, C.C. - ANGUIANO-ROBLEDO, L. - MORALES-GONZALEZ, A. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In *TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY*. ISSN 0277-2248, 2019, vol. 101, no. 7-8, p. 369-388., Registrované v: WOS

8. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS
9. [1.2] MAHMOUD, Khaled F. - AMIN, Azza A. - SALAMA, Manal F. - SELIEM, Effat I. Encapsulation of nano beta-glucan for preservation of functionality and targeted delivery of bioactive food component. In International Journal of ChemTech Research. ISSN 09744290, 2015-01-01, 8, 11, pp. 587-598., Registrované v: SCOPUS

ADCA526 CHORVATOVIČOVÁ, Darina - KOVÁČIKOVÁ, Zuzana - ŠANDULA, Jozef - NAVAROVÁ, Jana. Protective effect of sulfoethylglucan against hexavalent chromium. In *Mutation Research*, 1993, vol. 302, p. 207-211. ISSN 1568-7864. Dostupné na: [https://doi.org/10.1016/0165-7992\(93\)90106-6](https://doi.org/10.1016/0165-7992(93)90106-6)

Ohlasy:

1. [1.1] ANNANGI, B. - MARCOS, R. - HERNANDEZ, A. Heavy Metals II (Arsenic, Chromium, Nickel, Vanadium) and Micronuclei. In MICRONUCLEUS ASSAY IN TOXICOLOGY. ISSN 1757-7179, 2019, vol. 39, p. 450-470., Registrované v: WOS
2. [1.1] IZQUIERDO-VEGA, J.A. - MORALES-GONZALEZ, J.A. - SANCHEZ-GUTIERREZ, M. - BETANZOS-CABRERA, G. - SOSA-DELGADO, S.M. - SUMAYA-MARTINEZ, M.T. - MORALES-GONZALEZ, A. - PANIAGUA-PEREZ, R. - MADRIGAL-BUJADAR, E. - MADRIGAL-SANTILLAN, E. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, art. no. 102., Registrované v: WOS
3. [1.1] KUMAR, M. - GUPTA, N. - RATN, A. - AWASTHI, Y. - PRASAD, R. - TRIVEDI, A. - TRIVEDI, S.P. Biomonitoring of Heavy Metals in River Ganga Water, Sediments, Plant, and Fishes of Different Trophic Levels. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, FEB 2020, vol. 193, no. 2, p. 536-547., Registrované v: WOS

ADCA527 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef.

Ultrasonication: the way to achieve antimutagenic effect of carboxymethyl-chitin-glucan by oral administration. In *Mutation research : genetic toxicology and environmental mutagenesis*, 1998, vol. 412, no. 1, p. 83-89. ISSN 1383-5718. Dostupné na: [https://doi.org/10.1016/S1383-5718\(97\)00176-9](https://doi.org/10.1016/S1383-5718(97)00176-9)

Ohlasy:

1. [1.1] BARANOSKI, A. - OLIVEIRA, M.T. - SEMPREGON, S.C. - NIWA, A.M. - RIBEIRO, L.R. - MANTOVANI, M.S. Effects of sulfated and non-sulfated beta-glucan extracted from *Agaricus brasiliensis* in breast adenocarcinoma cells - MCF-7. In TOXICOLOGY MECHANISMS AND METHODS. ISSN 1537-6516, 2015, vol. 25, no. 9, p. 672-679., Registrované v: WOS
2. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel -

PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS, 2017, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/nu9020102>., Registrované v: WOS

3. [1.1] URT-FILHO, Antonio - OLIVEIRA, Rodrigo Juliano - HERMETO, Larissa Correa - PESARINI, Joao Renato - DE DAVID, Natan - CANTERO, Wilson de Barros - FALCAO, Gustavo - MARKS, Guido - MILAN BROCHADO ANTONIOLLI-SILVA, Andrcia Conceicao. Mesenchymal stem cell therapy promotes the improvement and recovery of renal function in a preclinical model. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2016, vol. 39, no. 2, pp. 290-299. Dostupné na: <https://doi.org/10.1590/1678-4685-GMB-2015-0178>., Registrované v: WOS

ADCA528 CHRISTOV, L. - BIELY, Peter - KALOGERIS, E. - CHRISTAKOPOULOS, P. - PRIOR, B.A. - BHAT, M.K. Effects of purified endo-beta-1,4-xylanases of family 10 and 11 and acetylxytan esterases on eucalypt sulfite dissolving pulp. In *Journal of Biotechnology*, 2000, vol. 83, p. 231-244. ISSN 0168-1656.

Ohlasy:

1. [1.1] ANNAMALAI, Neelamegam - AL BATTASHI, Huda - ANU, S. Nair - AL AZKAWI, Ahlam - AL BAHRY, Saif - SIVAKUMAR, Nallusamy. Enhanced Bioethanol Production from Waste Paper Through Separate Hydrolysis and Fermentation. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 1, pp. 121-131. Dostupné na: <https://doi.org/10.1007/s12649-018-0400-0>., Registrované v: WOS

2. [1.1] CHANDRA, Richard P. - ARANTES, Valdeir - SADDLER, Jack. Steam pretreatment of agricultural residues facilitates hemicellulose recovery while enhancing enzyme accessibility to cellulose. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 185, no., pp. 302-307., Registrované v: WOS

3. [1.1] MA, Xiaojuan - HUANG, Hai - HUANG, Fang - LONG, Yunduo - CAO, Shilin - CHEN, Lihui - HUANG, Liulian - NI, Yonghao. Synergistic effects of enzyme pretreatment for hemicellulose separation from paper-grade pulp in ionic liquid/water. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 7, pp. 4193-4198., Registrované v: WOS

4. [1.1] POSHINA, Daria - NOVOZHILOV, Evgeny. MODIFICATION OF SPRUCE SULPHITE PULP BY CELLULASE TREATMENT. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2015, vol. 49, no. 2, pp. 187-194., Registrované v: WOS

5. [1.1] YANG, Shuo - YANG, Bo - DUAN, Chao - FULLER, Darcy Alexandra - WANG, Xinqi - CHOWDHURY, Susmita Paul - STAVIK, Jaroslav - ZHANG, Hongjie - NI, Yonghao. Applications of enzymatic technologies to the production of high-quality dissolving pulp: A review. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 281, no., pp. 440-448., Registrované v: WOS

6. [1.1] ZHAO, Lingfeng - YUAN, Zhaoyang - KAPU, Nuwan Sella - CHANG, Xue Feng - BEATSON, Rodger - TRAJANO, Heather L. - MARTINEZ, D. Mark. Increasing efficiency of enzymatic hemicellulose removal from bamboo for production of high-grade dissolving pulp. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 223, no., pp. 40-46., Registrované

v: WOS

7. [1.2] SILLANPÄÄ, Mika - NCIBI, Chaker. A sustainable bioeconomy: The green industrial revolution. In *A Sustainable Bioeconomy: The Green Industrial Revolution*, 2017-04-13, pp. 1-343., Registrované v: SCOPUS

ADCA529 CHYBA, Andrej - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária.

Effective enzymatic caffeoylation of natural glucopyranosides. In *Bioorganic & Medicinal Chemistry Letters*, 2016, vol. 26, p. 1567-1570. (2015: 2.486 - IF, Q2 - JCR, 0.923 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0960-894X. Dostupné na: <https://doi.org/10.1016/j.bmcl.2016.02.010>

Ohlasy:

1. [1.1] DE ARMAS-RICARD, Merly - RUIZ-REYES, Enrique - RAMIREZ-RODRIGUEZ, Oney. Caffeates and Caffeamides: Synthetic Methodologies and Their Antioxidant Properties. In *INTERNATIONAL JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 2090-2069, 2019, vol. 2019, no., pp., Registrované v: WOS

2. [1.1] XU, Haixia - LI, Xiaofeng - XIN, Xuan - YUAN, Kun - WU, Hui - ZHAO, Guanglei. Whole-Cell-Catalyzed Synthesis of Phenolic Glycoside Esters, and Their Antioxidant and Antimelanogenic Properties. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 38, pp. 16591-16602. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c02940>., Registrované v: WOS

ADCA530 CHYBA, Andrej - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír.

Regioselective galloylation of methyl β -D-glucopyranoside by a lipase. In *Monatshefte für Chemie*, 2016, vol. 147, p. 1137-1142. (2015: 1.131 - IF, Q3 - JCR, 0.330 - SJR, Q3 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-016-1696-8>

Ohlasy:

1. [1.1] MALLMANN, Luana P. - TISCHER, Bruna - VIZZOTTO, Marcia - RODRIGUES, Eliseu - MANFROI, Vitor. Comprehensive identification and quantification of unexploited phenolic compounds from red and yellow araca (*Psidium cattleianum* Sabine) by LC-DAD-ESI-MS/MS. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2020.108978>., Registrované v: WOS

ADCA531 CHYBA, Andrej - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária.

Synthesis of 4-nitrophenyl caffeate and its use in assays of caffeoyl esterases. In *Analytical Biochemistry*, 2014, vol. 445, p. 49-53. (2013: 2.305 - IF, Q2 - JCR, 0.854 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2013.10.006>

Ohlasy:

1. [1.1] DE ARMAS-RICARD, Merly - RUIZ-REYES, Enrique - RAMIREZ-RODRIGUEZ, Oney. Caffeates and Caffeamides: Synthetic Methodologies and Their Antioxidant Properties. In *INTERNATIONAL JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 2090-2069, 2019, vol. 2019, no., pp., Registrované v: WOS

2. [1.1] GOPALAN, Nishant - NAMPOOTHIRI, Kesavan Madhavan - SZAKACS, George - PARAMESWARAN, Binod - PANDEY, Ashok.

Solid-state fermentation for the production of biomass valorizing feruloyl esterase. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2016, vol. 7, no., pp. 7-13., Registrované v: WOS

ADCA532 ILČÍKOVÁ, Markéta - MRLÍK, Miroslav - ŠPITÁLSKY, Zdenko - MIČUŠÍK, Matej - CSOMOROVÁ, Katarína - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - MOSNÁČEK, Jaroslav. A tertiary amine in two competitive processes: Reduction of graphene oxide vs. catalysis of atom transfer radical polymerization. In *RSC Advances*, 2015, vol. 5, p. 3370-3376. (2014: 3.840 - IF, Q1 - JCR, 1.113 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c4ra12915f>

Ohlasy:

1. [1.1] ESKANDARI, P. - ABOUSALMAN-REZVANI, Z. - ROGHANI-MAMAQANI, H. - SALAMI-KALAJAHI, M. - MARDANI, H. Polymer grafting on graphene layers by controlled radical polymerization. In *ADVANCES IN COLLOID AND INTERFACE SCIENCE*. ISSN 0001-8686, NOV 2019, vol. 273., Registrované v: WOS
2. [1.1] MURALI, A. - SAMPATH, S. - ACHUTHAN, B.A. - SAKAR, M. - CHANDRASEKARAN, S. - VANITHA, N.S. - BENSINGH, R.J. - KADER, M.A. - JAISANKAR, S.N. Copper (0) Mediated Single Electron Transfer-Living Radical Polymerization of Methyl Methacrylate: Functionalized Graphene as a Convenient Tool for Radical Initiator. In *POLYMERS*. APR 2020, vol. 12, no. 4., Registrované v: WOS
3. [1.1] POLITAKOS, N. - LIONTOS, G. - KARANASTASIS, A. - ZAPSAS, G. - MOSCHOVAS, D. - AVGEROPOULOS, A. Surface Initiated Polymerization from Graphene Oxide. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2015, vol. 19, no. 18, p. 1757-1772., Registrované v: WOS
4. [1.1] POURJAVADI, A. - NAZARI, M. - KOHESTANIAN, M. - HOSSEINI, S.H. Polyacrylamide-grafted magnetic reduced graphene oxide nanocomposite: preparation and adsorption properties. In *COLLOID AND POLYMER SCIENCE*. ISSN 0303-402X, JUN 2019, vol. 297, no. 6, p. 917-926., Registrované v: WOS
5. [1.1] SHANMUGAM, S. - XU, J.T. - BOYER, C. Aqueous RAFT Photopolymerization with Oxygen Tolerance. In *MACROMOLECULES*. ISSN 0024-9297, DEC 27 2016, vol. 49, no. 24, p. 9345-9357., Registrované v: WOS
6. [1.1] ZOPPE, J.O. - ATAMAN, N.C. - MOCNY, P. - WANG, J. - MORAES, J. - KLOK, H.A. Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes. In *CHEMICAL REVIEWS*. ISSN 0009-2665, FEB 8 2017, vol. 117, no. 3, p. 1105-1318., Registrované v: WOS
7. [1.2] WANG, Lifang - PING, Xiaofan - SUN, Kai - CHEN, Qing - PAN, Kai. Advances in the Modification of Graphene Oxide by Atom Transfer Radical Polymerization. In *Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering*. ISSN 10007555, 2017-02-01, 33, 2, pp. 184-190., Registrované v: SCOPUS

ADCA533 ILČÍKOVÁ, Markéta - FILIP, Jaroslav - MRLÍK, Miroslav - PLACHÝ, Tomáš - TKÁČ, Ján - KASÁK, Peter. Polypyrrole nanotubes decorated with gold particles applied for construction of enzymatic bioanodes and biocathodes. In *International Journal of Electrochemical Science*, 2015, vol. 10, p. 6558-6571. (2014: 1.500 - IF,

Q3 - JCR, 0.532 - SJR, Q3 - SJR, Current Contents - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1452-3981.

Ohlasy:

1. [1.1] GERMAN, Natalija - POPOV, Anton - RAMANAVICIENE, Almira - RAMANAVICIUS, Arunas. Formation and Electrochemical Characterisation of Enzyme-Assisted Formation of Polypyrrole and Polyaniline Nanocomposites with Embedded Glucose Oxidase and Gold Nanoparticles. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 16, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/abc9dc>., Registrované v: WOS
2. [1.1] GERMAN, Natalija - RAMANAVICIENE, Almira - RAMANAVICIUS, Arunas. Formation of Polyaniline and Polypyrrole Nanocomposites with Embedded Glucose Oxidase and Gold Nanoparticles. In POLYMERS, 2019, vol. 11, no. 2, pp., Registrované v: WOS
3. [1.1] GERMAN, Natalija - RAMANAVICIENE, Almira - RAMANAVICIUS, Arunas. Formation and Electrochemical Evaluation of Polyaniline and Polypyrrole Nanocomposites Based on Glucose Oxidase and Gold Nanostructures. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123026>., Registrované v: WOS
4. [1.1] KIZLING, Michal - DZWONEK, Maciej - WIECKOWSKA, Agnieszka - BILEWICZ, Renata. Gold nanoparticles in bioelectrocatalysis The role of nanoparticle size. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 113-120., Registrované v: WOS
5. [1.1] LI, Chuan - HSIEH, J. H. - LEE, Y. T. Fabrication and structural characterization of plasma polymerized polypyrrole thin film. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, 2017, vol. 320, no., pp. 206-212., Registrované v: WOS
6. [1.1] LI, Chuan - HSIEH, J. H. - LEE, Y. T. Effects of radio frequency power on the microstructures and properties of plasma polymerized polypyrrole thin films. In VACUUM. ISSN 0042-207X, 2017, vol. 140, no., pp. 132-138., Registrované v: WOS
7. [1.1] LI, Yu - BOBER, Patrycja - APAYDIN, Dogukan H. - SYROVY, Tomas - SARICIFTCI, Niyazi Serdar - HROMADKOVA, Jirina - SAPURINA, Irina - TRCHOVA, Miroslava - STEJSKAL, Jaroslav. Colloids of polypyrrole nanotubes/nanorods: A promising conducting ink. In SYNTHETIC METALS. ISSN 0379-6779, 2016, vol. 221, no., pp. 67-74., Registrované v: WOS
8. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
9. [1.1] STEJSKAL, Jaroslav - TRCHOVA, Miroslava. Conducting polypyrrole nanotubes: a review. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 7, pp. 1563-1595., Registrované v: WOS

ADCA534 ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In *Polymers : Open Access Polymer Science Journal*, 2015, vol. 7, p. 2344-2370. (2014: 3.681 - IF, Q1 - JCR, 1.125 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 2073-4360. Dostupné na: <https://doi.org/10.3390/polym7111518>

Ohlasy:

1. [1.1] ALVAREZ-LORENZO, Carmen - GARCIA-GONZALEZ, Carlos A. - BUCIO, Emilio - CONCEIRO, Angel. Stimuli-responsive polymers for antimicrobial therapy: drug targeting, contact-killing surfaces and competitive release. In EXPERT OPINION ON DRUG DELIVERY. ISSN 1742-5247, 2016, vol. 13, no. 8, pp. 1109-1119., Registrované v: WOS
2. [1.1] BARISIC, D. - TOMISIC, V. - BREGOVIC, N. Acid-base properties of phosphoric and acetic acid in aprotic organic solvents A complete thermodynamic characterisation. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2019, vol. 1046, no., pp. 77-92., Registrované v: WOS
3. [1.1] DSOUZA, Roshan F. - PARTHIBAN, Anbanandam. Polymaleimide-Based Polysulfobetaines Bearing Functional and Nonfunctional Hydrophobic Units and Its Aggregation Behavior in Aqueous Media. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 43, pp. 13942-13949., Registrované v: WOS
4. [1.1] FAN, Yifei - MIGLIORE, Nicola - RAFFA, Patrizio - BOSE, Ranjita K. - PICCHIONI, Francesco. Synthesis of Zwitterionic Copolymers via Copper-Mediated Aqueous Living Radical Grafting Polymerization on Starch. In POLYMERS, 2019, vol. 11, no. 2, pp., Registrované v: WOS
5. [1.1] HERNANDEZ-VARGAS, Gustavo - PONCE-PONCE DE LEON, Cesar Alejandro - GONZALEZ-VALDEZ, Jose - IQBAL, Hafiz M. N. "Smart" Polymers: Physicochemical Characteristics and Applications in Bio-Separation Strategies. In SEPARATION AND PURIFICATION REVIEWS. ISSN 1542-2119, 2018, vol. 47, no. 3, pp. 199-213., Registrované v: WOS
6. [1.1] HOMAEIGOHAR, Shahin - ELBAHRI, Mady. Switchable Plasmonic Nanocomposites. In ADVANCED OPTICAL MATERIALS. ISSN 2195-1071, 2019, vol. 7, no. 1, pp., Registrované v: WOS
7. [1.1] CHEN, Guang - PATWARY, Jahin - SACHAR, Harnoor Singh - DAS, Siddhartha. Electrokinetics in nanochannels grafted with poly-zwitterionic brushes Guang. In MICROFLUIDICS AND NANOFUIDICS. ISSN 1613-4982, 2018, vol. 22, no. 10, pp., Registrované v: WOS
8. [1.1] LIU, Yonglan - ZHANG, Dong - REN, Baiping - GONG, Xiong - XU, Lijian - FENG, Zhang-Qi - CHANG, Yung - HE, Yi - ZHENG, Jie. Molecular simulations and understanding of antifouling zwitterionic polymer brushes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2020, vol. 8, no. 17, pp. 3814-3828. Dostupné na: <https://doi.org/10.1039/d0tb00520g>., Registrované v: WOS
9. [1.1] LI, Yu - YANG, Shengke - CHEN, Yangyang - ZHANG, Dan. Hydrophobic and Anti-Fouling Performance of Surface on Parabolic Morphology. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 2020, vol. 17, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijerph17020644>., Registrované v: WOS
10. [1.1] MAJI, Tanmoy - BANERJEE, Sanjib - BOSE, Avijit - MANDAL, Tarun K. A stimuli-responsive methionine-based zwitterionic methacryloyl sulfonium sulfonate monomer and the corresponding antifouling polymer with tunable thermosensitivity. In POLYMER CHEMISTRY. ISSN 1759-9954, 2017, vol. 8, no. 20, pp. 3164-3176., Registrované v: WOS
11. [1.1] MARTINEZ, Jessica S. - KELLY, Kristopher D. - GHOUSSEUB, Yara E. - DELGADO, Jose D. - KELLER, Thomas C. S. - SCHLENOFF, Joseph B. Cell resistant zwitterionic polyelectrolyte coating

promotes bacterial attachment: an adhesion contradiction. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2016, vol. 4, no. 4, pp. 689-698., Registrované v: WOS

12. [1.1] NIEBUUR, Bart-Jan - PUCHMAYR, Jonas - HEROLD, Christian - KREUZER, Lucas P. - HILDEBRAND, Viet - MUELLER-BUSCHBAUM, Peter - LASCHEWSKY, Andre - PAPADAKIS, Christine M. Polysulfobetaines in Aqueous Solution and in Thin Film Geometry. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 5, pp., Registrované v: WOS

13. [1.1] PAPADAKIS, Christine M. - MUELLER-BUSCHBAUM, Peter - LASCHEWSKY, Andre. Switch It Inside-Out: "Schizophrenic" Behavior of All Thermoresponsive UCST-LCST Diblock Copolymers. In *LANGMUIR*. ISSN 0743-7463, 2019, vol. 35, no. 30, pp. 9660-9676., Registrované v: WOS

14. [1.1] POTAUFEUX, Jean-Emile - ODENT, Jeremy - NOTTA-CUVIER, Delphine - LAURO, Franck - RAQUEZ, Jean-Marie. A comprehensive review of the structures and properties of ionic polymeric materials. In *POLYMER CHEMISTRY*. ISSN 1759-9954, 2020, vol. 11, no. 37, pp. 5914-5936. Dostupné na: <https://doi.org/10.1039/d0py00770f>., Registrované v: WOS

15. [1.1] SAHA, Pabitra - SANTI, Marta - FRENKEN, Martin - PALANISAMY, Anand Raj - GANGULY, Ritabrata - SINGHA, Nikhil K. - PICH, Andrij. Dual-Temperature-Responsive Microgels from a Zwitterionic Functional Graft Copolymer with Superior Protein Repelling Property. In *ACS MACRO LETTERS*, 2020, vol. 9, no. 6, pp. 895-901. Dostupné na: <https://doi.org/10.1021/acsmacrolett.0c00304>., Registrované v: WOS

16. [1.1] SCOTT, Philip J. - SPIERING, Glenn A. - WANG, Yangyang - SEIBERS, Zach D. - MOORE, Robert B. - KUMAR, Rajeev - LOKITZ, Bradley S. - LONG, Timothy E. Phosphonium-Based Polyzwitterions: Influence of Ionic Structure and Association on Mechanical Properties. In *MACROMOLECULES*. ISSN 0024-9297, 2020, vol. 53, no. 24, pp. 11009-11018. Dostupné na: <https://doi.org/10.1021/acs.macromol.0c02166>., Registrované v: WOS

17. [1.1] SCHOENEMANN, Eric - LASCHEWSKY, Andre - WISCHERHOFF, Erik - KOC, Julian - ROSENHAHN, Axel. Surface Modification by Polyzwitterions of the Sulfobetaine-Type, and Their Resistance to Biofouling. In *POLYMERS*, 2019, vol. 11, no. 6, pp., Registrované v: WOS

18. [1.1] SILIES, Laura - ANDRIEU-BRUNSEN, Annette. Programming Ionic Pore Accessibility in Zwitterionic Polymer Modified Nanopores. In *LANGMUIR*. ISSN 0743-7463, 2018, vol. 34, no. 3, pp. 807-816., Registrované v: WOS

19. [1.1] SUN, Jinsheng - CHANG, Xiaofeng - ZHANG, Fan - BAI, Yingrui - LV, Kaihe - WANG, Jintang - ZHOU, Xinyu - WANG, Bo. Salt-Responsive Zwitterionic Polymer Brush Based on Modified Silica Nanoparticles as a Fluid-Loss Additive in Water-Based Drilling Fluids. In *ENERGY & FUELS*. ISSN 0887-0624, 2020, vol. 34, no. 2, pp. 1669-1679. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b04109>., Registrované v: WOS

20. [1.1] VASANTHA, Vivek Arjunan - CHEN JUNHUI - ZHAO WENGUANG - VAN HERK, Alexander M. - PARTHIBAN, Anbanandam. Reversible Photo- and Thermoresponsive, Self-Assembling Azobenzene Containing Zwitterionic Polymers. In *LANGMUIR*. ISSN 0743-7463, 2019, vol.

- 35, no. 5, pp. 1465-1474., Registrované v: WOS
21. [1.1] WEI, Ting - TANG, Zengchao - YU, Qian - CHEN, Hong. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2017, vol. 9, no. 43, pp. 37511-37523., Registrované v: WOS
22. [1.1] WEI, Ting - YU, Qian - CHEN, Hong. Responsive and Synergistic Antibacterial Coatings: Fighting against Bacteria in a Smart and Effective Way. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2019, vol. 8, no. 3, pp., Registrované v: WOS
23. [1.1] XIAO, Shengwei - REN, Baiping - HUANG, Lei - SHEN, Mingxue - ZHANG, Yanxian - ZHONG, Mingqiang - YANG, Jintao - ZHENG, Jie. Salt-responsive zwitterionic polymer brushes with anti-polyelectrolyte property. In CURRENT OPINION IN CHEMICAL ENGINEERING. ISSN 2211-3398, 2018, vol. 19, no., pp. 86-93., Registrované v: WOS
24. [1.1] XIAO, Shengwei - ZHANG, Yanxian - SHEN, Mingxue - CHEN, Feng - FAN, Ping - ZHONG, Mingqiang - REN, Baiping - YANG, Jintao - ZHENG, Jie. Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 1, pp. 97-105., Registrované v: WOS
25. [1.1] YANG, Ming-Chien - TSOU, Hui-Ming - HSIAO, Yu-Sheng - CHENG, Yu-Wei - LIU, Che-Chun - HUANG, Li-Ying - PENG, Xin-Yao - LIU, Ting-Yu - YUNG, Ming-Chi - HSU, Chuan-Chih. Electrochemical Polymerization of PEDOT-Graphene Oxide-Heparin Composite Coating for Anti-Fouling and Anti-Clotting of Cardiovascular Stents. In POLYMERS, 2019, vol. 11, no. 9, pp., Registrované v: WOS
26. [1.1] YU, Xiangrong - LIU, Jiansheng - XIN, Yongjie - ZHAN, Meixiao - XIAO, Jing - LU, Ligong - PENG, Shaojun. Temperature and salt responsive zwitterionic polysulfamide-based nanogels with surface regeneration ability and controlled drug release. In POLYMER CHEMISTRY. ISSN 1759-9954, 2019, vol. 10, no. 47, pp. 6423-6431., Registrované v: WOS
27. [1.1] YU, Yunlong - VANCOS, G. Julius - DE BEER, Sissi. Substantially enhanced stability against degrafting of zwitterionic PMPC brushes by utilizing PGMA-linked initiators. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 89, no., pp. 221-229., Registrované v: WOS
28. [1.1] YU, Yunlong - YAO, Yongchao - VAN LIN, Simone - DE BEER, Sissi. Specific anion effects on the hydration and tribological properties of zwitterionic phosphorylcholine-based brushes. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2019, vol. 112, no., pp. 222-227., Registrované v: WOS
29. [1.1] ZHANG, Yanxian - LIU, Yonglan - REN, Baiping - ZHANG, Dong - XIE, Shaowen - CHANG, Yung - YANG, Jintao - WU, Jiang - XU, Lijian - ZHENG, Jie. Fundamentals and applications of zwitterionic antifouling polymers. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, 2019, vol. 52, no. 40, pp., Registrované v: WOS
30. [1.2] ARJUNAN VASANTHA, Vivek - OH BIYING, Algin - PARTHIBAN, Anbanandam. Polysulfobetaine bearing tertiary amide between counterions and its applications. In Journal of Applied Polymer Science. ISSN 00218995, 2018-04-20, 135, 16, pp., Registrované v: SCOPUS

ADCA535 ISRAILIDES, C. - KLETSAS, D. - ARAPOGLOU, D. - PHILIPPOUSSIS, A. - PRATSISNIS, H. - EBRINGEROVÁ, Anna - HRÍBALOVÁ, V. - HARDING, S.E. In vitro cytostatic and immunomodulatory properties of the medicinal mushroom *Lentinula edodes*. In *Phytomedicine*, 2008, vol.15, p. 512-519. Dostupné na: <https://doi.org/10.1016/j.phymed.2007.11.029>

Ohlasy:

1. [1.1] AHMAD, Md Faruque. *Ganoderma lucidum*: Persuasive biologically active constituents and their health endorsement. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 107, no., pp. 507-519., Registrované v: WOS
2. [1.1] AYEKA, Peter Amwoga. Potential of Mushroom Compounds as Immunomodulators in Cancer Immunotherapy: A Review. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2018, vol., no., pp., Registrované v: WOS
3. [1.1] COY, Catherine - STANDISH, Leanna J. - BENDER, Geoff - LU, Hailing. Significant Correlation between TLR2 Agonist Activity and TNF-alpha Induction in J774.A1 Macrophage Cells by Different Medicinal Mushroom Products. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2015, vol. 17, no. 8, pp. 713-722., Registrované v: WOS
4. [1.1] CRESPO, Helena - GUILLEN, Hugo - DE PABLO-MAISO, Lorena - GOMEZ-ARREBOLA, Carmen - RODRIGUEZ, Gregorio - GLARIA, Idoia - DE ANDRES, Damian - REINA, Ramses. *Lentinula edodes* beta-glucan enriched diet induces pro- and anti-inflammatory macrophages in rabbit. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2017, vol. 61, no., pp., Registrované v: WOS
5. [1.1] DENG, Shengming - ZHANG, Guoxi - KUAI, Jiajie - FAN, Peng - WANG, Xuexiang - ZHOU, Pei - YANG, Dan - ZHENG, Xichen - LIU, Xiaomei - WU, Qunli - HUANG, Yuhui. Lentinan inhibits tumor angiogenesis via interferon gamma and in a T cell independent manner. In *JOURNAL OF EXPERIMENTAL & CLINICAL CANCER RESEARCH*. ISSN 1756-9966, 2018, vol. 37, no., pp., Registrované v: WOS
6. [1.1] FINIMUNDY, Tiane C. - SCOLA, Gustavo - SCARIOT, Fernando J. - DILLON, Aldo J. P. - MOURA, Sidnei - ECHEVERRIGARAY, Sergio - HENRIQUES, Joao Pegas - ROESCH-ELY, Mariana. Extrinsic and Intrinsic Apoptotic Responses Induced by Shiitake Culinary-Medicinal Mushroom *Lentinus edodes* (Agaricomycetes) Aqueous Extract against a Larynx Carcinoma Cell Line. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 1, pp. 31-46., Registrované v: WOS
7. [1.1] GAITAN-HERNANDEZ, Rigoberto - LOPEZ-PENA, Damian - ESQUEDA, Martin - GUTIERREZ, Aldo. Review of Bioactive Molecules Production, Biomass, and Basidiomata of Shiitake Culinary-Medicinal Mushrooms, *Lentinus edodes* (Agaricomycetes). In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2019, vol. 21, no. 9, pp. 841-850., Registrované v: WOS
8. [1.1] CHOURASIA, Ayushi - TIWARI, Ankita - GANESHPURKAR, Aditya - JAISWAL, Anupam - SHRIVASTAVA, Abhishek - DUBEY, Nazneen. Evaluation of Antiarthritic Effect of Culinary-Medicinal Oyster Mushroom *Pleurotus ostreatus* cv. Florida (Agaricomycetes) on Complete

- Freund's Adjuvant Induced Arthritis in Rats. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2019, vol. 21, no. 11, pp. 1123-1136., Registrované v: WOS
9. [1.1] KIM, Hee-Young - PARK, Kun-Young. Clinical trials of kimchi intakes on the regulation of metabolic parameters and colon health in healthy Korean young adults. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 47, no., pp. 325-333., Registrované v: WOS
10. [1.1] KUPCOVA, Kristyna - STEFANOVA, Iveta - PLAVCOVA, Zuzana - HOSEK, Jan - HROUZEK, Pavel - KUBEC, Roman. Antimicrobial, Cytotoxic, Anti-Inflammatory, and Antioxidant Activity of Culinary Processed Shiitake Medicinal Mushroom (*Lentinus edodes*, Agaricomycetes) and Its Major Sulfur Sensory-Active Compound-Lenthionine. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 2, pp. 165-175., Registrované v: WOS
11. [1.1] LOPEZ-LEGARDA, Xiomara - ARBOLEDA-ECHAVARRIA, Carolina - PARRA-SALDIVAR, Roberto - ROSTRO-ALANIS, Magdalena - ALZATE, Juan F. - VILLA-PULGARIN, Janny A. - SEGURA-SANCHEZ, Freimar. Biotechnological production, characterization and in vitro antitumor activity of polysaccharides from a native strain of *Lentinus crinitus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 3133-3144. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.191>., Registrované v: WOS
12. [1.1] MOLIN, Sonja - SUMMER, Burkhard - THOMAS, Peter - LETULE, Valerie - RUZICKA, Thomas - RUEFF, Franziska - HERZINGER, Thomas. *Boletus dermatitis*: a new variant of flagellate erythema. In ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. ISSN 1081-1206, 2015, vol. 115, no. 3, pp. 254-255., Registrované v: WOS
13. [1.1] PODDER, Dipanjan - GHOSH, Swapan Kr. A new application of *Trichoderma asperellum* as an anopheline larvicide for eco friendly management in medical science. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
14. [1.1] PULFER, Wanda May. Mycotherapy for Animals: Medicinal Mushrooms: Healing Power, Effects and Application Foreword. In MYKOTHERAPIE FÜR TIERE: VITALPILZE: HEILKRAFT, WIRKUNG UND ANWENDUNG, 2., AUFLAGE, 2019, vol., no., pp. 6-+., Registrované v: WOS
15. [1.1] RATHORE, Himanshi - PRASAD, Shaline - KAPRI, Mandira - TIWARI, Abhay - SHARMA, Satyawati. Medicinal importance of mushroom mycelium: Mechanisms and applications. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 56, no., pp. 182-193., Registrované v: WOS
16. [1.1] SARI, Miriam - TOEPLER, Katharina - NICKISCH-HARTFIEL, Anna - TEUSCH, Nicole - HAMBITZER, Reinhard. Cross-Flow Ultrafiltration Fractions of a Cold Aqueous Extract of the Shiitake Culinary-Medicinal Mushroom, *Lentinus edodes* (Agaricomycetes), Exhibit Apoptosis in Tumor Cells. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 11, pp. 1107-1119., Registrované v: WOS
17. [1.1] SUMIC, Zdravko - TEPIC, Aleksandra - VIDOVIC, Senka - VLADIC, Jelena - PAVLIC, Branimir. Drying of shiitake mushrooms in a

vacuum dryer and optimization of the process by response surface methodology (RSM). In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 1932-7587, 2016, vol. 10, no. 3, pp. 425-433., Registrované v: WOS

18. [1.1] UDCHUMPISAI, Wascharin - BANGYEEKHUN, Eakaphun. Evaluation of the cytotoxic effect of crude aqueous and ethanolic extracts isolated from *Lentinus* sp. on human cancer cell lines. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2019, vol. 15, no. 1, pp. 8-15., Registrované v: WOS

19. [1.1] VETCHINKINA, Elena - SHIROKOV, Alexandr - BUCHARSKAYA, Alla - NAVOLOKIN, Nikita - PRILEPSKII, Artur - BUROV, Andrey - MASLYAKOVA, Galina - NIKITINA, Valentina. Antitumor Activity of Extracts from Medicinal Basidiomycetes Mushrooms. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2016, vol. 18, no. 11, pp. 955-964., Registrované v: WOS

20. [1.1] VIEIRA SPIM, Sara Rosicler - CORREA CHRISPIM DE OLIVEIRA, Bruna Giovanna - LEITE, Fernanda Gomes - GERENUTTI, Marli - GROTO, Denise. Effects of *Lentinula edodes* consumption on biochemical, hematologic and oxidative stress parameters in rats receiving high-fat diet. In EUROPEAN JOURNAL OF NUTRITION. ISSN 1436-6207, 2017, vol. 56, no. 7, pp. 2255-2264., Registrované v: WOS

21. [1.1] WANG, Jinglin - LI, Weiyong - HUANG, Xiao - LIU, Ying - LI, Qiang - ZHENG, Ziming - WANG, Kaiping. A polysaccharide from *Lentinus edodes* inhibits human colon cancer cell proliferation and suppresses tumor growth in athymic nude mice. In ONCOTARGET. ISSN 1949-2553, 2017, vol. 8, no. 1, pp. 610-623., Registrované v: WOS

22. [1.1] WONG, Jack Ho - NG, Tzi Bun - CHAN, Helen Hei Ling - LIU, Qin - MAN, Gene Chi Wai - ZHANG, Chris Zhiyi - GUAN, Suzhen - NG, Charlene Cheuk Wing - FANG, Evandro Fei - WANG, Hexiang - LIU, Fang - YE, Xiuyun - ROLKA, Krzysztof - NAUDE, Ryno - ZHAO, Shuang - SHA, Ou - LI, Chunman - XIA, Lixin. Mushroom extracts and compounds with suppressive action on breast cancer: evidence from studies using cultured cancer cells, tumor-bearing animals, and clinical trials. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 11, pp. 4675-4703. Dostupné na: <https://doi.org/10.1007/s00253-020-10476-4>., Registrované v: WOS

23. [1.1] ZHANG, Yong - LIU, Wei - XU, Chunping - HUANG, Wei - HE, Peixin. Characterization and Antiproliferative Effect of Novel Acid Polysaccharides from the Spent Substrate of Shiitake Culinary-Medicinal Mushroom *Lentinus edodes* (Agaricomycetes) Cultivation. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2017, vol. 19, no. 5, pp. 395-403., Registrované v: WOS

24. [1.1] ZIAJA-SOLTYS, Marta - RADZKI, Wojciech - NOWAK, Jakub - TOPOLSKA, Jolanta - JABLONSKA-RYS, Ewa - SLAWINSKA, Aneta - SKRZYPCZAK, Katarzyna - KUCZUMOW, Andrzej - BOGUCKA-KOCKA, Anna. Processed Fruiting Bodies of *Lentinus edodes* as a Source of Biologically Active Polysaccharides. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/app10020470>., Registrované v: WOS

25. [1.2] RESURRECCION, Nesse Grace U. - SHEN, Chien Chang - RAGASA, Consolacion Y. Chemical constituents of *Lentinus edodes*. In Der

- Pharmacia Lettre, 2016-01-01, 8, 4, pp. 117-120., Registrované v: SCOPUS
 26. [1.2] SÁNCHEZ, Carmen. Bioactives from mushroom and their application. In Food Bioactives: Extraction and Biotechnology Applications, 2017-04-07, pp. 23-57., Registrované v: SCOPUS
 27. [1.2] SNEHA, C. - TOMY, Minnu. Yield evaluation of oyster mushroom on dust waste of some common timber species. In Wood is Good: Current Trends and Future Prospects in Wood Utilization, 2017-01-20, pp. 391-395., Registrované v: SCOPUS
 28. [3.1] EKOWATI, Nuraeni - MAHARNING, Ardhini R. - RATNANINGTYAS, Nuniek - MUMPUNI, Aris - HIKAM, Arif R. Effects of Ethyl Acetate Extract of Jew's Ear Mushrooms (*Auricularia auricula*) on Cytotoxic and Apoptosis of Cervical Cancer Cells (HeLa). In SOUTH-EAST ASIAN+ CONFERENCE ON BIODIVERSITY AND BIOTECHNOLOGY 2018. ISSN 1755-1307, 2020, vol. 593, no., pp. Dostupné na: <https://doi.org/10.1088/1755-1315/593/1/012011>., Registrované v: WOS

ADCA536 JABLONICKÁ, Veronika - ZIEGLER, Jorg - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana - HEILMANN, Ingo - OBLOŽINSKÝ, Marek** - HEILMANN, Mareike. Inhibition of phospholipases influences the metabolism of wound-induced benzyloquinoline alkaloids in *Papaver somniferum* L. In *Journal of Plant Physiology*, 2018, vol. 223, p. 1-8. (2017: 2.833 - IF, Q1 - JCR, 1.178 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0176-1617. Dostupné na: <https://doi.org/10.1016/j.jplph.2018.01.007>

Ohlasy:

1. [1.1] BOZUNOVIC, Jelena - SKORIC, Marijana - MATEKALO, Dragana - ZIVKOVIC, Suzana - DRAGICEVIC, Milan - ANICIC, Neda - FILIPOVIC, Biljana - BANJANAC, Tijana - SILER, Branislav - MISIC, Danijela. Secoiridoids Metabolism Response to Wounding in Common Centaury (*Centaurea erythraea* Rafn) Leaves. In PLANTS-BASEL, 2019, vol. 8, no. 12, pp., Registrované v: WOS
2. [1.1] HOLKOVA, Ivana - RAUOVA, Drahomira - MERGOVA, Michaela - BEZAKOVA, Lydia - MIKUS, Peter. Purification and Product Characterization of Lipxygenase from Opium Poppy Cultures (*Papaver somniferum* L.). In MOLECULES, 2019, vol. 24, no. 23, pp., Registrované v: WOS
3. [1.1] SINGH, Fateh V. - KOLE, Priyanka B. Metal-Free Synthesis of Biaryl- and Teraryl-Cored Diarylmethanes by Ring Transformation of 2H-Pyran-2-ones. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2019, vol. 51, no. 6, pp. 1435-1444., Registrované v: WOS
4. [1.1] TIAN, Yu - ZHENG, Yue - DONG, Jinpei - ZHANG, Jixin - WANG, Huahong. Papaverine adjuvant therapy for microcirculatory disturbance in severe ulcerative colitis complicated with CMV infection: a case report. In CLINICAL JOURNAL OF GASTROENTEROLOGY. ISSN 1865-7257, 2019, vol. 12, no. 5, pp. 407-413., Registrované v: WOS

ADCA537 JAHODÁŘ, L. - VOTICKÝ, Zdeno - CAVA, M.P. Geissoschizol in *Peschiera laeta*. In *Phytochemistry*, 1974, vol. Vol. 13, p. 2880-2881. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/0031-9422\(74\)80266-9](https://doi.org/10.1016/0031-9422(74)80266-9)

Ohlasy:

1. [1.1] MARINHO, Flavio F. - SIMOES, Andre Olmos -

BARCELLOS, Thiago - MOURA, Sidnei. Brazilian *Tabernaemontana* genus: Indole alkaloids and phytochemical activities. In *FITOTERAPIA*. ISSN 0367-326X, 2016, vol. 114, no., pp. 127-137., Registrované v: WOS

ADCA538 JAKUBÍKOVÁ, Lucia - FARKAŠ, Vladimír - KOLAROVA, Nadežda - NEMČOVIČ, Marek. Conidiation of *Trichoderma atroviride* isolate during submerged cultivation in a laboratory stirred-tank fermenter. In *Folia microbiologica*, 2006, vol. 51, p. 209-213. (2005: 0.918 - IF, Q3 - JCR, 0.428 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02932124>

Ohlasy:

1. [1.1] ABDULLAH, Roheena - NAZIR CHUDHARY, Sobia - KALEEM, Afshan - IQTEDAR, Mehwish - NISAR, Kinza - IFTIKHAR, Tehreema - SALEEM, Faiza. ENHANCED PRODUCTION OF beta-GLUCOSIDASE BY LOCALLY ISOLATED FUNGAL STRAIN EMPLOYING SUBMERGED FERMENTATION. In *BIOSCIENCE JOURNAL*. ISSN 1981-3163, 2019, vol. 35, no. 5, pp. 1552-1559., Registrované v: WOS
2. [1.1] DARYAEI, A. - JONES, E. E. - GHAZALIBIGLAR, H. - GLARE, T. R. - FALLOON, R. E. Effects of temperature, light and incubation period on production, germination and bioactivity of *Trichoderma atroviride*. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2016, vol. 120, no. 4, pp. 999-1009., Registrované v: WOS
3. [1.1] DE ANDRADE CARVALHO, Andre Luiz - DE REZENDE, Larissa Castro - COSTA, Lucio Bertoldo - HALFELD-VIEIRA, Bernardo de Almeida - PINTO, Zayame Vegette - BOECHAT MORANDI, Marcelo Augusto - VASCONCELOS DE MEDEIROS, Flavio Henrique - BETTIOL, Wagner. Optimizing the mass production of *Clonostachys rosea* by liquid-state fermentation. In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2018, vol. 118, no., pp. 16-25., Registrované v: WOS
4. [1.1] DE REZENDE, Larissa Castro - DE ANDRADE CARVALHO, Andre Luiz - COSTA, Lucio Bertoldo - HALFELD-VIEIRA, Bernardo De Almeida - SILVA, Lucas Guedes - PINTO, Zayame Vegette - BOECHAT MORANDI, Marcelo Augusto - VASCONCELOS DE MEDEIROS, Flavio Henrique - MASCARIN, Gabriel Moura - BETTIOL, Wagner. Optimizing mass production of *Trichoderma asperelloides* by submerged liquid fermentation and its antagonism against *Sclerotinia sclerotiorum*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02882-7>, Registrované v: WOS
5. [1.1] LIN, Hui - TRAVISANO, Michael - KAZLAUSKAS, Romas J. The Fungus *Trichoderma* Regulates Submerged Conidiation Using the Steroid Pregnenolone. In *ACS CHEMICAL BIOLOGY*. ISSN 1554-8929, 2016, vol. 11, no. 9, pp. 2568-2575., Registrované v: WOS
6. [1.1] TKALENKO, H. M. - BORZYKH, O. I. - HORAL, S. V. - BARVAS-HREMIKOVA, K. M. - JANSE, L. A. SCREENING NEW TRICHODERMA ISOLATES FOR ANTAGONISTIC ACTIVITY AGAINST SEVERAL PHYTOPATHOGENIC FUNGI, INCLUDING *FUSARIUM* SPP. In *AGRICULTURAL SCIENCE AND PRACTICE*. ISSN 2312-3370, 2020, vol. 7,

no. 3, pp. 14-24. Dostupné na: <https://doi.org/10.15407/agrisp7.03.014.>,
Registrované v: WOS

ADCA539 JANÁK, Marián - FROITZHEIM, Nikolaus - YOSHIDA, Kenta -
SASINKOVÁ, Vlasta - NOSKO, Martin - KOBAYASHI, T. - HIRAJIMA, Takao -
VRABEC, Mirijam. Diamond in metasedimentary crustal rocks from Pohorje,
Eastern Alps: a window to deep continental subduction. In *Journal of Metamorphic
Geology*, 2015, vol. 33, p. 495-512. (2014: 4.147 - IF, Q1 - JCR, 3.524 - SJR, Q1 -
SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0263-4929.
Dostupné na: <https://doi.org/10.1111/jmg.12130>

Ohlasy:

1. [1.1] ARGNANI, A. Subduction Evolution of the Dinarides and the
Cretaceous Orogeny in the Eastern Alps: Hints From a New Paleotectonic
Interpretation. In *TECTONICS*. ISSN 0278-7407, 2018, vol. 37, no. 2, pp.
621-635., Registrované v: WOS
2. [1.1] DOBRZHINETSKAYA, Larissa - MUKHIN, Pavel - WANG,
Qin - WIRTH, Richard - O'BANNON, Earl - ZHAO, Wenxia - EPPELBAUM,
Lev - SOKHONCHUK, Tatiana. Moissanite (SiC) with metal-silicide and silicon
inclusions from tuff of Israel: Raman spectroscopy and electron microscope
studies. In *LITHOS*. ISSN 0024-4937, 2018, vol. 310, no., pp. 355-368.,
Registrované v: WOS
3. [1.1] FANG, Chao - ZHANG, Yuewen - SHEN, Weixia - SUN,
Shishuai - ZHANG, Zhuangfei - XUE, Lisha - JIA, Xiaopeng. Synthesis and
characterization of HPHT large single-crystal diamonds under the simultaneous
influence of oxygen and hydrogen. In *CRYSTENGCOMM*. ISSN 1466-8033,
2017, vol. 19, no. 38, pp. 5727-5734., Registrované v: WOS
4. [1.1] FARRE-DE-PABLO, Julia - PROENZA, Joaquin A. - MARIA
GONZALEZ-JIMENEZ, Jose - GARCIA-CASCO, Antonio - COLAS, Vanessa -
ROQUE-ROSELL, Josep - CAMPRUBI, Antoni - SANCHEZ-NAVAS,
Antonio. A shallow origin for diamonds in ophiolitic chromitites Reply. In
GEOLOGY. ISSN 0091-7613, 2019, vol. 47, no. 8, pp. E477-E478.,
Registrované v: WOS
5. [1.1] GRIFFIN, William L. - HUANG, Jin-Xiang - THOMASSOT,
Emilie - GAIN, Sarah E. M. - TOLEDO, Vered - O'REILLY, Suzanne Y.
Super-reducing conditions in ancient and modern volcanic systems: sources and
behaviour of carbon-rich fluids in the lithospheric mantle. In *MINERALOGY
AND PETROLOGY*. ISSN 0930-0708, 2018, vol. 112, no., pp. 101-114.,
Registrované v: WOS
6. [1.1] HERG, Alexandra - STUEWE, Kurt. Tectonic interpretation of
the metamorphic field gradient south of the Koralpe in the Eastern Alps. In
AUSTRIAN JOURNAL OF EARTH SCIENCES. ISSN 2072-7151, 2018, vol.
111, no. 2, pp. 155-+, Registrované v: WOS
7. [1.1] HE, Detao - LIU, Yongsheng - GAO, Changgui - CHEN,
Chunfei - HU, Zhaochu - GAO, Shan. SiC-dominated ultra-reduced mineral
assemblage in carbonatitic xenoliths from the Dalihu basalt, Inner Mongolia,
China. In *AMERICAN MINERALOGIST*. ISSN 0003-004X, 2017, vol. 102, no.
1-2, pp. 312-320., Registrované v: WOS
8. [1.1] CHANG, Ruihong - NEUBAUER, Franz - LIU, Yongjiang -
GENSER, Johann - JIN, Wei - YUAN, Sihua - GUAN, Qingbin - HUANG,
Qianwen - LI, Weimin. Subduction of a rifted passive continental margin: the

- Pohorje case of Eastern Alps-constraints from geochronology and geochemistry. In SWISS JOURNAL OF GEOSCIENCES. ISSN 1661-8726, 2020, vol. 113, no. 1, pp., Registrované v: WOS
9. [1.1] KRAMAR, Sabina - TRAJANOVA, Mirka - DOLENEC, Matej - GUTMAN, Maja - BEDJANIC, Mojca - MLADENOVIC, Ana. Heritage Stone 7. Pohorje Granodiorite One of the Most Significant Slovenian Natural Stones. In GEOSCIENCE CANADA. ISSN 0315-0941, 2016, vol. 43, no., pp. 79-88., Registrované v: WOS
10. [1.1] LIAN, Dongyang - YANG, Jingsui. Ophiolite-Hosted Diamond: A New Window for Probing Carbon Cycling in the Deep Mantle. In ENGINEERING. ISSN 2095-8099, 2019, vol. 5, no. 3, pp. 406-420., Registrované v: WOS
11. [1.1] LITASOV, K. D. - BEKKER, T. B. - KAGI, H. - OHFUJI, H. Reply to the comment on "comparison of enigmatic diamonds from the Tolbachik arc volcano (Kamchatka) and Tibetan ophiolites: Assessing the role of contamination by synthetic materials" by Litasov et al. (2019) (Gondwana research, 75, 16-27) by Yang et al. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 79, no., pp. 304-307., Registrované v: WOS
12. [1.1] LI, Botao - MASSONNE, Hans-Joachim - ZHANG, Junfeng. Evolution of a gneiss in the Seve nappe complex of central Sweden Hints at an early Caledonian, medium-pressure metamorphism. In LITHOS. ISSN 0024-4937, 2020, vol. 376, no., pp., Registrované v: WOS
13. [1.1] NASDALA, Lutz - STEGER, Simon - REISSNER, Claudia. Raman study of diamond-based abrasives, and possible artefacts in detecting UHP microdiamond. In LITHOS. ISSN 0024-4937, 2016, vol. 265, no., pp. 317-327., Registrované v: WOS
14. [1.1] NAZZARENI, Sabrina - NESTOLA, Fabrizio - ZANON, Vittorio - BINDI, Luca - SCRICCILOLO, Enrico - PETRELLI, Maurizio - ZANATTA, Marco - MARIOTTO, Gino - GIULI, Gabriele. Discovery of moissanite in a peralkaline syenite from the Azores Islands. In LITHOS. ISSN 0024-4937, 2019, vol. 324, no., pp. 68-73., Registrované v: WOS
15. [1.1] POMELLA, Hannah - FLOESS, David - SPECKBACHER, Romed - TROPPER, Peter - FUEGENSCHUH, Bernhard. The western end of the Eoalpine High-Pressure Belt (Texel unit, South Tyrol / Italy). In TERRA NOVA. ISSN 0954-4879, 2016, vol. 28, no. 1, pp. 60-69., Registrované v: WOS
16. [1.1] RANTITSCH, Gerd - IGLSEDER, Christoph - SCHUSTER, Ralf - HOLLINETZ, Marianne Sophie - HUET, Benjamin - WERDENICH, Manuel. Organic metamorphism as a key for reconstructing tectonic processes: a case study from the Austroalpine unit (Eastern Alps). In INTERNATIONAL JOURNAL OF EARTH SCIENCES. ISSN 1437-3254, 2020, vol. 109, no. 6, pp. 2235-2253., Registrované v: WOS
17. [1.1] REISER, Martin Kaspar - SABAU, Gavril - NEGULESCU, Elena - SCHUSTER, Ralf - TROPPER, Peter - FUEGENSCHUH, Bernhard. Post-Variscan metamorphism in the Apuseni and Rodna Mountains (Romania): evidence from Sm-Nd garnet and U-Th-Pb monazite dating. In SWISS JOURNAL OF GEOSCIENCES. ISSN 1661-8726, 2019, vol. 112, no. 1, pp. 101-120., Registrované v: WOS
18. [1.1] SCHMALHOLZ, S. M. - DURETZ, T. Shear zone and nappe formation by thermal softening, related stress and temperature evolution, and application to the Alps. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN

- 0263-4929, 2015, vol. 33, no. 8, pp. 887-908., Registrované v: WOS
19. [1.1] SCHORN, S. - DIENER, J. F. A. Details of the gabbro-to-eclogite transition determined from microtextures and calculated chemical potential relationships. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2017, vol. 35, no. 1, pp. 55-75., Registrované v: WOS
20. [1.1] SCHORN, S. - STUEWE, K. The Plankogel detachment of the Eastern Alps: petrological evidence for an orogen-scale extraction fault. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2016, vol. 34, no. 2, pp. 147-166., Registrované v: WOS
21. [1.1] TAGUCHI, Tomoki - IGAMI, Yohei - MIYAKE, Akira - ENAMI, Masaki. Factors affecting preservation of coesite in ultrahigh-pressure metamorphic rocks: Insights from TEM observations of dislocations within kyanite. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2019, vol. 37, no. 3, pp. 401-414., Registrované v: WOS
22. [1.1] TOBOLA, Tomasz. Raman spectroscopy of organic, solid and fluid inclusions in the Oldest Halite of LGOM area (SW Poland). In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2018, vol. 189, no., pp. 381-392., Registrované v: WOS
23. [1.1] VAN HINSBERGEN, Douwe J. J. - TORSVIK, Trond H. - SCHMID, Stefan M. - MATENCO, Liviu C. - MAFFIONE, Marco - VISSERS, Reinoud L. M. - GURER, Derya - SPAKMAN, Wim. Orogenic architecture of the Mediterranean region and kinematic reconstruction of its tectonic evolution since the Triassic. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 81, no., pp. 79-229., Registrované v: WOS
24. [1.1] YAN, Li-Long - ZHANG, Kai-Jun. Is exhumation of UHP terranes limited to low latitudes? In JOURNAL OF GEODYNAMICS. ISSN 0264-3707, 2019, vol. 130, no., pp. 41-56., Registrované v: WOS
25. [1.1] ZHANG, Ru Y. - LIOU, Juhn G. - LO, Ching-Hua. Raman spectra of polycrystalline microdiamond inclusions in zircons, and ultrahigh-pressure metamorphism of a quartzofeldspathic rock from the Erzgebirge terrane, Germany. In INTERNATIONAL GEOLOGY REVIEW. ISSN 0020-6814, 2017, vol. 59, no. 5-6, pp. 779-792., Registrované v: WOS
26. [1.1] ZIRAKPARVAR, N. Alex. Lu-Hf and Sm-Nd geochronological constraints on the influence of subduction metamorphism in controlling the Hf-Nd terrestrial array: Evidence from the world's orogenic belts. In GEOSPHERE. ISSN 1553-040X, 2019, vol. 15, no. 3, pp. 607-620., Registrované v: WOS
27. [1.2] BERGER, Julien. Discovery of metamorphic microdiamonds from the parautochthonous units of the Variscan French Massif Central: Comment. In Gondwana Research. ISSN 1342937X, 2016-10-01, 38, pp. 370-371., Registrované v: SCOPUS
28. [1.2] LIAN, Dongyang - YANG, Jingsui - LIU, Fei - WU, Weiwei. Diamond Classification, Compositional Characteristics, and Research Progress: A Review. In Diqiu Kexue Zhongguo Dizhi Daxue Xuebao/Earth Science Journal of China University of Geosciences. ISSN 10002383, 2019-10-01, 44, 10, pp. 3409-3453., Registrované v: SCOPUS
29. [1.2] MILER, Miloš - MAŠERA, Tanja - ZUPANČIČ, Nina - JARC, Simona. Characteristics of minerals in Slovenian marbles. In Geologija. ISSN

00167789, 2019-01-01, 62, 2, pp. 175-187., Registrované v: SCOPUS
 30. [1.2] REISER, Martin Kaspar - SĂBĂU, Gavril - NEGULESCU, Elena - SCHUSTER, Ralf - TROPPER, Peter - FÜGENSCHUH, Bernhard. Post-Variscan metamorphism in the Apuseni and Rodna Mountains (Romania): evidence from Sm–Nd garnet and U–Th–Pb monazite dating. In *Swiss Journal of Geosciences*. ISSN 16618726, 2018-01-01, pp., Registrované v: SCOPUS
 31. [2.1] NEUBAUER, Franz - HEBERER, Bianca - DUNKL, Istvan - LIU, Xiaoming - BERNROIDER, Manfred - DONG, Yunpeng. The Oligocene Reifnitz tonalite (Austria) and its host rocks: implications for Cretaceous and Oligocene-Neogene tectonics of the south-eastern Eastern Alps. In *GEOLOGICA CARPATHICA*. ISSN 1335-0552, 2018, vol. 69, no. 3, pp. 237-253., Registrované v: WOS

ADCA540 JANOŠ, Pavel - TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Different QM/MM approaches to elucidate enzymatic reactions: Case study on ppGalNAcT2. In *Journal of Chemical Theory and Computation*, 2016, vol. 12, no. 12, p. 6062-6076. (2015: 5.301 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1549-9618.
 Dostupné na: <https://doi.org/10.1021/acs.jctc.6b00531>

Ohlasy:

1. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS
2. [1.1] MAGALHAES, Rita P. - FERNANDES, Henriques S. - SOUSA, Sergio F. Modelling Enzymatic Mechanisms with QM/MM Approaches: Current Status and Future Challenges. In *ISRAEL JOURNAL OF CHEMISTRY*. ISSN 0021-2148, 2020, vol. 60, no. 7, pp. 655-666. Dostupné na: <https://doi.org/10.1002/ijch.202000014>., Registrované v: WOS
3. [1.1] NOCENTINI, Alessio - CARTA, Fabrizio - TANC, Muhammet - SELLERI, Silvia - SUPURAN, Claudiu T. - BAZZICALUPI, Carla - GRATTERI, Paola. Deciphering the Mechanism of Human Carbonic Anhydrases Inhibition with Sulfocoumarins: Computational and Experimental Studies. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 31, pp. 7840-7844., Registrované v: WOS

ADCA541 JANOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Three-dimensional homology model of GlcNAc-TV glycosyltransferase. In *Glycobiology*, 2016, vol. 26, p. 757-771. (2015: 3.283 - IF, Q2 - JCR, 1.654 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0959-6658.
 Dostupné na: <https://doi.org/10.1093/glycob/cww010>

Ohlasy:

1. [1.1] NAGAE, Masamichi - KIZUKA, Yasuhiko - MIHARA, Emiko - KITAGO, Yu - HANASHIMA, Shinya - ITO, Yukishige - TAKAGI, Junichi - TANIGUCHI, Naoyuki - YAMAGUCHI, Yoshiki. Structure and mechanism of cancer-associated N-acetylglucosaminyltransferase-V. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA542 JÁNOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor** - KOČA, Jaroslav. How mycobacterium tuberculosis galactofuranosyltransferase 2 (Glft2) generates alternating β -(1-6) and β -(1-5) linkages: QM/MM molecular dynamics study of the chemical steps. In *Chemistry-A European Journal*, 2018, vol. 24, p. 7051-7059. (2017: 5.160 - IF, Q1 - JCR, 2.265 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201800558>

Ohlasy:

1. [1.1] HU, Jian-Ping - WU, Zhi-Xiang - XIE, Tao - LIU, Xin-Yu - YAN, Xiao - SUN, Xin - LIU, Wei - LIANG, Li - HE, Gang - GAN, Ya - GOU, Xiao-Jun - SHI, Zheng - ZOU, Qiang - WAN, Hua - SHI, Hu-Bing - CHANG, Shan. Applications of Molecular Simulation in the Discovery of Antituberculosis Drugs: A Review. In *PROTEIN AND PEPTIDE LETTERS*. ISSN 0929-8665, 2019, vol. 26, no. 9, pp. 648-663., Registrované v: WOS
2. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

ADCA543 JANOVEC, L. - SUCHÁR, G. - IMRICH, J. - KRISTIAN, P. - SASINKOVÁ, Vlasta - ALFÖLDY, Juraj - SEDLÁK, Erik. 9-Isothiocyanato-anthracene as a versatile starting compound in the chemistry of anthracen-9-yl derivatives. In *Collection of Czechoslovak Chemical Communications*, 2002, vol. 67, p. 665-678. (2001: 0.778 - IF). ISSN 0010-0765.

Ohlasy:

1. [1.1] AHMED, Sarbast M. - HUSSAIN, Faiq H. S. - QUADRELLI, Paolo. 9-Anthraldehyde oxime: a synthetic tool for variable applications. In *MONATSCHEFTE FÜR CHEMIE*. ISSN 0026-9247, 2020, vol. 151, no. 11, pp. 1643-1658. Dostupné na: <https://doi.org/10.1007/s00706-020-02695-2>., Registrované v: WOS
2. [1.1] BALATI, Ali - GHANBARI, Mohammad - BEHZAD, Sara Karimi - AMINI, Mostafa M. Functionalization of Graphene Oxide with 9-aminoanthracene for the Adsorptive Removal of Persistent Aromatic Pollutants from Aqueous Solution. In *ACTA CHIMICA SLOVENICA*. ISSN 1318-0207, 2017, vol. 64, no. 2, pp. 479-490., Registrované v: WOS
3. [1.1] LI, Ming - LI, Bo - ZHOU, Li - ZHANG, Yuling - CAO, Qianying - WANG, Rujie - XIAO, Huining. Fluorescence-sensitive adsorbent based on cellulose using for mercury detection and removal from aqueous solution with selective "on-off" response. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 132, no., pp. 1185-1192., Registrované v: WOS
4. [1.1] SAHA, Amrita - SINGH, Asha - CHARI, Rama - JAYABALAN, J. Unraveling relation between nonlinear absorption and structure of push pull ornamented anthracenyl chalcone derivatives. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2020, vol. 1219, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2020.128578>., Registrované v: WOS

ADCA544 JANTOVÁ, Soňa - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - TOPOLESKÁ, Dominika - PÁNIK, Miroslav - MILATA, Viktor. Assessment of immunomodulatory activities and in vitro toxicity of new quinolone 7-ethyl 9-ethyl-6-oxo-6,9-dihydro [1,2,5] selenadiazolo [3,4-h] quinoline-7-carboxylate. In *Immunological Investigations*, 2017, vol. 46, p. 341-360. (2016: 1.824 - IF, Q4 - JCR, 0.677 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0882-0139. Dostupné na: <https://doi.org/10.1080/08820139.2017.1280050>

Ohlasy:

1. [1.1] GAO, F. - ZHANG, X. - WANG, T.F. - XIAO, J.Q. Quinolone hybrids and their anti-cancer activities: An overview. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, MAR 1 2019, vol. 165, p. 59-79., Registrované v: WOS
2. [1.1] GHOSH, P. - CHHETRI, G. - NANDI, A.K. - SARKAR, S. - SAHA, T. - DAS, S. Creation of thio and selenocyanate derivatives of 4-quinolone via regioselective C-H bond functionalization under ambient conditions. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, JUL 21 2019, vol. 43, no. 27, p. 10959-10964., Registrované v: WOS
3. [1.1] MALCEK, M. - KOZISKOVA, J. - HERICH, P. - RAPTA, P. - STEPANENKO, I. - ARION, V.B. Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, AUG 14 2020, vol. 44, no. 30, p. 13195-13206., Registrované v: WOS
4. [1.1] RITTENHOUSE-OLSON, Kate. Letter from the Editor 2017. In *IMMUNOLOGICAL INVESTIGATIONS*. ISSN 0882-0139, 2017, vol. 46, no. 8, pp. 759-764., Registrované v: WOS
5. [1.1] RUBERTE, A.C. - SANMARTIN, C. - AYDILLO, C. - SHARMA, A.K. - PLANO, D. Development and Therapeutic Potential of Selenazo Compounds. In *JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0022-2623, FEB 27 2020, vol. 63, no. 4, p. 1473-1489., Registrované v: WOS

ADCA545 JANTOVÁ, Soňa - PAULOVICHOVÁ, Ema** - PAULOVICHOVÁ, Lucia - JANOŠKOVÁ, Michaela - PÁNIK, Miroslav - MILATA, Viktor. Immunobiological efficacy and immunotoxicity of novel synthetically prepared fluoroquinolone ethyl 6-fluoro-8-nitro-4-oxo-1,4-dihydroquinoline-3-carboxylate. In *Immunobiology*, 2018, vol. 223, p. 81-93. (2017: 2.873 - IF, Q3 - JCR, 1.100 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0171-2985. Dostupné na: <https://doi.org/10.1016/j.imbio.2017.10.008>

Ohlasy:

1. [1.1] ABDEL-AAL, Mohamed A. A. - ABDEL-AZIZ, Salah A. - SHAYKOON, Montaser Sh. A. - ABUO-RAHMA, Gamal El-Din A. Towards anticancer fluoroquinolones: A review article. In *ARCHIV DER PHARMAZIE*. ISSN 0365-6233, 2019, vol. 352, no. 7, pp., Registrované v: WOS
2. [1.1] SUAIFAN, Ghadeer A. R. Y. - MOHAMMED, Aya A. M. Fluoroquinolones structural and medicinal developments (2013-2018): Where are we now? In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2019, vol. 27, no. 14, pp. 3005-3060., Registrované v: WOS
3. [1.1] WANG, Qun - STEGER, Alexander - MAHNER, Sven - JESCHKE, Udo - HEIDEGGER, Helene. The Formation and Therapeutic Update

of Tumor-Associated Macrophages in Cervical Cancer. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 13, pp.,
Registrované v: WOS

4. [1.1] YU, Fangmiao - ZHANG, Zhuangwei - LI, Wei - TIAN, Hengqun - XU, Jun - BAO, Yongzhong. Synthesis and evaluation of moxifloxacin derivatives for effects on proliferation and apoptosis of NCI-H1299 cells. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2020, vol. 61, no. 21, pp. Dostupné na: <https://doi.org/10.1016/j.tetlet.2020.151873>., Registrované v: WOS

ADCA546 JANTOVÁ, Soňa - KOŇARIKOVÁ, Katarína - LETAŠIOVÁ, Silvia - PAULOVÍČOVÁ, Ema - MILATA, Viktor - BREZOVÁ, Vlasta. Photochemical and phototoxic properties of ethyl 1,4-dihydro-8-nitro-4-oxoquinoline-3-carboxylate, a new quinoline derivative. In *Journal of Photochemistry and Photobiology : B: Biology*, 2011, vol. 102, p. 77-91. (2010: 2.116 - IF, Q3 - JCR, 0.699 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1011-1344. Dostupné na: <https://doi.org/10.1016/j.jphotobiol.2010.09.007>

Ohlasy:

1. [1.1] BAEUMLER, Wolfgang. Singlet Oxygen in the Skin. In SINGLET OXYGEN: APPLICATIONS IN BIOSCIENCES AND NANOSCIENCES, VOL 2. ISSN 2041-9716, 2016, vol. 14, no., pp. 205-226., Registrované v: WOS

2. [1.1] BATALHA, Pedro Netto - BASTOS VIEIRA DE SOUZA, Maria Cecilia - PENA-CABRERA, Eduardo - CRUZ CRUZ, David - SANTOS BOECHAT, Fernanda da Costa. Quinolones in the Search for New Anticancer Agents. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2016, vol. 22, no. 39, pp. 6009-6020., Registrované v: WOS

3. [1.1] MALCEK, Michal - KOZISKOVA, Julia - HERICH, Peter - RAPTA, Peter - STEPANENKO, Iryna - ARION, Vladimir B. Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 30, pp. 13195-13206. Dostupné na: <https://doi.org/10.1039/d0nj02447c>., Registrované v: WOS

4. [1.1] PEZZONI, Magdalena - MEICHTRY, Martin - PIZARRO, Ramon A. - COSTA, Cristina S. Role of the Pseudomonas quinolone signal (PQS) in sensitising Pseudomonas aeruginosa to UVA radiation. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2015, vol. 142, no., pp. 129-140., Registrované v: WOS

ADCA547 JÁRVÁS, Gábor** - GUTTMAN, András - MIĘKUS, Natalia - BĄCZEK, Tomáš - JEONG, Sunkyung - CHUNG, Doo Soo - PĀTOPRSTÝ, Vladimír - MASÁR, Marián - HUTTA, Milan - DATINSKÁ, Vladimíra - FORET, František. Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. In *Trends in Analytical Chemistry*, 2020, vol. 122, art. no. 115702 [9] p. (2019: 9.801 - IF, Q1 - JCR, 2.153 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0165-9936. Dostupné na: <https://doi.org/10.1016/j.trac.2019.115702>

Ohlasy:

1. [1.1] BRUNEEL, Arnaud - CHOLET, Sophie - THUY TRAN, N. -

- THANH DUC MAI - FENAILLE, Francois. CDG biochemical screening: Where do we stand? In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2020, vol. 1864, no. 10, pp. Dostupné na: <https://doi.org/10.1016/j.bbagen.2020.129652>., Registrované v: WOS
2. [1.1] KARTSOVA, L. A. - MAKEEVA, D. V. - BESSONOVA, E. A. Current Status of Capillary Electrophoresis. In *JOURNAL OF ANALYTICAL CHEMISTRY*. ISSN 1061-9348, 2020, vol. 75, no. 12, pp. 1497-1513. Dostupné na: <https://doi.org/10.1134/S1061934820120084>., Registrované v: WOS
3. [1.1] TEGLADZA, Isaac Delove - QI, Tong - CHEN, Tianyu - ALORKU, Kingdom - TANG, Sheng - SHEN, Wei - KONG, Dezhaoh - YUAN, Aihua - LIU, Jianfeng - LEE, Hian Kee. Direct immersion single-drop microextraction of semi-volatile organic compounds in environmental samples: A review. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2020, vol. 393, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.122403>., Registrované v: WOS
4. [1.1] THEODORIDIS, Konstantinos - STERGIOPOULOS, Fotis - BECHTSIS, Dimitrios - NIKOLAIDIS, Nikolaos - TRIANTAFYLLIDIS, Dimitrios - TSAGARIS, Apostolos - FILELIS, Anastasios - PAPAICONOMOU, Asterios. An Innovative and Fully Automated System for Gel Electrophoresis. In *30TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING, PTS A-C*. ISSN 1570-7946, 2020, vol. 48, no., pp. 847-852. Dostupné na: <https://doi.org/10.1016/B978-0-12-823377-1.50142-7>., Registrované v: WOS
5. [1.1] ZAYED, Sahar - BELAL, Fathalla. Capillary electrophoresis with field-amplified sample stacking for simultaneous determination of indacaterol and glycopyrronium in inhaler capsules: Application to human plasma and urine. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.104779>., Registrované v: WOS

ADCA548 JAYSON, Gordon C. - MILLER, Gavin J. - HANSEN, Steen U. - BARÁTH, Marek - GARDINER, John M. - AVIZIENYTE, Egle. The development of anti-angiogenic heparan sulfate oligosaccharides. In *Biochemical society transactions*, 2014, vol. 42, p. 1596-1600. (2013: 3.238 - IF, Q2 - JCR, 2.011 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0300-5127. Dostupné na: <https://doi.org/10.1042/BST20140229>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BRYCE, Richard A. Ring Puckering Landscapes of Glycosaminoglycan-Related Monosaccharides from Molecular Dynamics Simulations. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2019, vol. 59, no. 11, pp. 4729-4741., Registrované v: WOS
2. [1.1] KANG, Hongyan - WU, Qihong - SUN, Anqiang - LIU, Xiao - FAN, Yubo - DENG, Xiaoyan. Cancer Cell Glycocalyx and Its Significance in Cancer Progression. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 9, pp., Registrované v: WOS
3. [1.1] MAJMUDAR, Hardik - HAO, Meng - SANKARANARAYANAN, Nehru Viji - ZANOTTI, Brian - VOLIN, Michael V. - DESAI, Umesh R. - TIWARI, Vaibhav. A synthetic glycosaminoglycan mimetic blocks HSV-1 infection in human iris stromal cells. In *ANTIVIRAL*

RESEARCH. ISSN 0166-3542, 2019, vol. 161, no., pp. 154-162., Registrované v: WOS

4. [1.1] PASQUALON, Tobias - LUE, Hongqi - GROENING, Sabine - PRUESSMEYER, Jessica - JAHR, Holger - DENECKE, Bernd - BERNHAGEN, Juergen - LUDWIG, Andreas. Cell surface syndecan-1 contributes to binding and function of macrophage migration inhibitory factor (MIF) on epithelial tumor cells. In *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*. ISSN 0167-4889, 2016, vol. 1863, no. 4, pp. 717-726., Registrované v: WOS

ADCA549 JESZEOVÁ, Lenka - BAUEROVÁ-HLINKOVÁ, Vladena** - BARÁTH, Peter - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Biochemical and proteomic characterization of the extracellular enzymatic preparate of *Exiguobacterium undae*, suitable for efficient animal glue removal. In *Applied Microbiology and Biotechnology*, 2018, vol. 102, p. 6525-6536. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-018-9105-3>

Ohlasy:

1. [1.2] PARULEKAR-BERDE, Chanda - GHOBLE, Sachin S. - SALVI, Sagar P. - BERDE, Vikrant B. Microorganisms and their enzymes as bioremediation agents. In *Microbial Biotechnology Approaches to Monuments of Cultural Heritage*, 2020-01-01, pp. 71-86., Registrované v: SCOPUS

ADCA550 JIN, Lan - HRICOVÍNI, Miloš - DEAKIN, Jon A. - LYON, Malcolm - UHRIN, D. Residual dipolar coupling investigation of a heparin tetrasaccharides confirms the limited effect of flexibility of the iduronic acid on the molecular shape of heparin. Jon A. Deakin, Malcolm Lyon, D. Uhrin. In *Glycobiology*, 2009, vol. 19, no.11, pp.1185-1196. ISSN 0959-6658. Dostupné na: <https://doi.org/10.1093/glycob/cwp105>

Ohlasy:

1. [1.1] HSIAO, Felix Shih-Hsiang - YANG, Shyi-Kuen - LIN, Jun-Mu - CHEN, Yi-Wen - CHEN, Chien-Sheng. Protein interactome analysis of iduronic acid-containing glycosaminoglycans reveals a novel flagellar invasion factor MbhA. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2019, vol. 208, no., pp., Registrované v: WOS

2. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS

3. [1.1] PRESTEGARD, James H. - ELETISKY, Alexander. Paramagnetic, RDC and RCSA Constraints in the Structural Analysis of Glycans. In *NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY*. ISSN 2044-253X, 2017, vol. 10, no., pp. 123-149., Registrované v: WOS

4. [1.1] SAMSONOV, Sergey A. - BICHMANN, Leon - PISABARRO, M. Teresa. Coarse-Grained Model of Glycosaminoglycans. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2015, vol. 55, no. 1, pp. 114-124., Registrované v: WOS

5. [1.1] SINGH, Arunima - TESSIER, Matthew B. - PEDERSON, Kari - WANG, Xiacong - VENOT, Andre P. - BOONS, Geert-Jan - PRESTEGARD, James H. - WOODS, Robert J. Extension and validation of the GLYCAM force field parameters for modeling glycosaminoglycans. In CANADIAN JOURNAL OF CHEMISTRY. ISSN 0008-4042, 2016, vol. 94, no. 11, pp. 927-935., Registrované v: WOS

ADCA551 JIN, L. - HRICOVÍNI, Miloš - DEAKIN, J.A. - LYON, Malcolm - UHRIN, D. Residual dipolar coupling investigation of a heparin tetrasaccharide confirms the limited effect of flexibility of the oduronic acid on the molecular shape of heparin. In *Glycobiology*, 2009, vol.19, p.1185-1196. (2008: 4.446 - IF, Q1 - JCR, 2.295 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0959-6658.

Ohlasy:

1. [1.1] NAGAE, Masamichi - YAMAGUCHI, Yoshiki. Biophysical Analyses for Probing Glycan-Protein Interactions. In GLYCOBIOPHYSICS. ISSN 0065-2598, 2018, vol. 1104, no., pp. 119-147., Registrované v: WOS
2. [1.1] NIETO, Pedro M. The Use of NMR to Study Transient Carbohydrate-Protein Interactions. In FRONTIERS IN MOLECULAR BIOSCIENCES, 2018, vol. 5, no., pp., Registrované v: WOS
3. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

ADCA552 JOHANSSON, K. - EL-AHMAD, M. - FRIEMANN, R. - JORNVALL, H. - MARKOVIČ, Oskar - EKLUND, Robert C. Crystal structure of plant pectin methylesterase. In *FEBS Letters*, 2002, vol. 514, p. 243-249. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/S0014-5793\(02\)02372-4](https://doi.org/10.1016/S0014-5793(02)02372-4)

Ohlasy:

1. [1.1] ALI, Salyha - SONDERGAARD, Chresten R. - TEIXEIRA, Susana - PICKERSGILL, Richard W. Structural insights into the loss of catalytic competence in pectate lyase activity at low pH. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 21, pp. 3242-3246., Registrované v: WOS
2. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
3. [1.1] ASLER, Ivana Lescic - STEFANIC, Petra Peharec - BALEN, Biljana - ALLMAIER, Guenter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIC, Biserka. Horseradish esterases: detection, purification and identification. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2017, vol. 130, no. 1, pp. 13-24., Registrované v: WOS
4. [1.1] BENITO-ROMAN, O. - TERESA SANZ, M. - ILLERA, Alba E. - MELGOSA, R. - BENITO, J. M. - BELTRAN, Sagrario. Pectin methylesterase inactivation by High Pressure Carbon Dioxide (HPCD). In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2019, vol. 145, no., pp. 111-121., Registrované v: WOS
5. [1.1] BUCKERIDGE, Marcos S. - DOS SANTOS, Wanderley D. -

- TINE, Marco A. S. - DE SOUZA, Amanda P. The Cell Wall Architecture of Sugarcane and its Implications to Cell Wall Recalcitrance. In COMPENDIUM OF BIOENERGY PLANTS: SUGARCANE. ISSN 2376-7073, 2016, vol., no., pp. 31-50., Registrované v: WOS
6. [1.1] EVANGELISTA, Danilo Elton - ARNOLDI PELLEGRIN, Vanessa de Oliveira - SANTO, Melissa Espirito - MCQUEEN-MASON, Simon - BRUCE, Neil C. - POLIKARPOV, Igor. Biochemical characterization and low-resolution SAXS shape of a novel GH11 exo-1,4-beta-xylanase identified in a microbial consortium. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 19, pp. 8035-8049., Registrované v: WOS
7. [1.1] HOCQ, Ludivine - PELLOUX, Jerome - LEFEBVRE, Valerie. Connecting Homogalacturonan-Type Pectin Remodeling to Acid Growth. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2017, vol. 22, no. 1, pp. 20-29., Registrované v: WOS
8. [1.1] HUA, Xiao - YANG, Hui - DIN, Ping - CHI, Kunrui - YANG, Ruijin. Rheological properties of deesterified pectin with different methoxylation degree. In FOOD BIOSCIENCE. ISSN 2212-4292, 2018, vol. 23, no., pp. 91-99., Registrované v: WOS
9. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS
10. [1.1] KATSAROS, G. J. - ALEXANDRAKIS, Z. S. - TAOUKIS, P. S. Kinetic Assessment of High Pressure Inactivation of Different Plant Origin Pectinmethylesterase Enzymes. In FOOD ENGINEERING REVIEWS. ISSN 1866-7910, 2017, vol. 9, no. 3, pp. 170-189., Registrované v: WOS
11. [1.1] KENT, Lisa M. - LOO, Trevor S. - MELTON, Laurence D. - MERCADANTE, Davide - WILLIAMS, Martin A. K. - JAMESON, Geoffrey B. Structure and Properties of a Non-processive, Salt-requiring, and Acidophilic Pectin Methylesterase from *Aspergillus niger* Provide Insights into the Key Determinants of Processivity Control. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 3, pp. 1289-1306., Registrované v: WOS
12. [1.1] KIM, Sang Hoon - SUNG, Sang Yeop - KIM, Ye-Sol - JO, Yeong Deuk - KANG, Si-Yong - KIM, Jin-Baek - AHN, Joon-Woo - HA, Bo-Keun - KIM, Dong Sub. Isolation and characterization of differentially expressed genes in petals of chrysanthemum mutant cultivars developed by irradiation. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2015, vol. 189, no., pp. 132-138., Registrované v: WOS
13. [1.1] KOTNALA, Bhavya - SHASHIREKHA, M. N. - VASU, Prasanna. Purification and Characterization of a Salt-Dependent Pectin Methylesterase from *Carica papaya* Fruit Mesocarp-Exocarp Tissue. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2018, vol. 83, no. 8, pp. 2062-2070., Registrované v: WOS
14. [1.1] LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. A Pectin Methylesterase Inhibitor Enhances Resistance to *Verticillium* Wilt. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS

15. [1.1] MA, Guangcai - ZHU, Wenyu - LIU, Yongjun. QM/MM studies on the calcium-assisted elimination mechanism of pectate lyase from *Bacillus subtilis*. In *PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS*. ISSN 0887-3585, 2016, vol. 84, no. 11, pp. 1606-1615., Registrované v: WOS
16. [1.1] MCBRIDE, Zachary - CHEN, Donglai - REICK, Christy - XIE, Jun - SZYMANSKI, Daniel B. Global Analysis of Membrane-associated Protein Oligomerization Using Protein Correlation Profiling. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2017, vol. 16, no. 11, pp. 1972-1989., Registrované v: WOS
17. [1.1] MEI, Xiaohong - SHPIGELMAN, Avi - VERRIJSEN, Tina A. J. - KYOMUGASHO, Clare - LUO, Yunbo - VAN LOEY, Ann M. - MICHELIS, Chris - HUANG, Kunlun - HENDRICKX, Marc E. Recombinant kiwi pectin methylesterase inhibitor: Purification and characterization of the interaction with plant pectin methylesterase during thermal and high-pressure processing. In *INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES*. ISSN 1466-8564, 2015, vol. 29, no., pp. 295-301., Registrované v: WOS
18. [1.1] RAJULAPATI, Vikky - SHARMA, Kedar - DHILLON, Arun - GOYAL, Arun. SAXS and homology modelling based structure characterization of pectin methylesterase a family 8 carbohydrate esterase from *Clostridium thermocellum* ATCC 27405. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*. ISSN 0003-9861, 2018, vol. 641, no., pp. 39-49., Registrované v: WOS
19. [1.1] RUGGIERI, Valentino - BOSTAN, Hamed - BARONE, Amalia - FRUSCIANTE, Luigi - CHIUSANO, Maria Luisa. Integrated bioinformatics to decipher the ascorbic acid metabolic network in tomato. In *PLANT MOLECULAR BIOLOGY*. ISSN 0167-4412, 2016, vol. 91, no. 4-5, pp. 397-412., Registrované v: WOS
20. [1.1] SAMARANAYAKE, Chaminda P. - SASTRY, Sudhir K. Effect of moderate electric fields on inactivation kinetics of pectin methylesterase in tomatoes: The roles of electric field strength and temperature. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2016, vol. 186, no., pp. 17-26., Registrované v: WOS
21. [1.1] SAMARANAYAKE, Chaminda P. - SASTRY, Sudhir K. Effects of controlled-frequency moderate electric fields on pectin methylesterase and polygalacturonase activities in tomato homogenate. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 199, no., pp. 265-272., Registrované v: WOS
22. [1.1] SENECHAL, Fabien - HABRYLO, Olivier - HOCQ, Ludivine - DOMON, Jean-Marc - MARCELO, Paulo - LEFEBVRE, Valerie - PELLOUX, Jerome - MERCADANTE, Davide. Structural and dynamical characterization of the pH-dependence of the pectin methylesterase-pectin methylesterase inhibitor complex. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 52, pp. 21538-21547., Registrované v: WOS
23. [1.1] SENECHAL, Fabien - L'ENFANT, Melanie - DOMON, Jean-Marc - ROSIAU, Emeline - CREPEAU, Marie-Jeanne - SURCOUF, Ogier - ESQUIVEL-RODRIGUEZ, Juan - MARCELO, Paulo - MARECK, Alain - GUERINEAU, Francois - KIM, Hyung-Rae - MRAVEC, Jozef - BONNIN, Estelle - JAMET, Elisabeth - KIHARA, Daisuke - LEROUGE, Patrice - RALET, Marie-Christine - PELLOUX, Jerome - RAYON, Catherine. Tuning of Pectin

Methylesterification PECTIN METHYLESTERASE INHIBITOR 7
MODULATES THE PROCESSIVE ACTIVITY OF CO-EXPRESSED PECTIN
METHYLESTERASE 3 IN A pH-DEPENDENT MANNER. In JOURNAL OF
BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2015, vol. 290, no. 38, pp.
23320-23335., Registrované v: WOS

24. [1.1] SUN, Bai - MAO, Shuangsoo - ZHU, Shouhui - ZHOU,
Guangdong - XIA, Yudong - ZHAO, Yong. Improved Rate and Cycling
Performances of Electrodes Based on BiFeO₃ Nanoflakes by Compositing with
Organic Pectin for Advanced Rechargeable Na-Ion Batteries. In ACS APPLIED
NANO MATERIALS. ISSN 2574-0970, 2018, vol. 1, no. 3, pp. 1291-1299.,
Registrované v: WOS

25. [1.1] TARIQ, Anam - GUL, Alina - MUHAMMAD, Majida A. -
RASHID, Naeem - SIDDIQUI, Masood A. Recombinant Tk0522, a carbohydrate
esterase homologue from Thermococcus kodakarensis, does not require a signal
sequence for translocation to periplasmic space in Escherichia coli. In
BIOLOGIA. ISSN 0006-3088, 2019, vol. 74, no. 7, pp. 899-904., Registrované v:
WOS

26. [1.1] ZHANG, Panpan - WANG, Hao - QIN, Xiner - CHEN, Kuan -
ZHAO, Jiuran - ZHAO, Yanxin - YUE, Bing. Genome-wide identification,
phylogeny and expression analysis of the PME and PMEI gene families in maize.
In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp.,
Registrované v: WOS

27. [1.2] LEŠČIĆ AŠLER, Ivana - PEHAREC ŠTEFANIĆ, Petra -
BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN,
Martina - KOJIĆ-PRODIĆ, Biserka. Horseradish esterases: detection,
purification and identification. In Plant Cell, Tissue and Organ Culture. ISSN
01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS

28. [2.1] SAMANTA, Saptadip. MICROBIAL PECTINASES: A
REVIEW ON MOLECULAR AND BIOTECHNOLOGICAL PERSPECTIVES.
In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD
SCIENCES. ISSN 1338-5178, 2019, vol. 9, no. 2, pp. 248-266., Registrované v:
WOS

29. [3.2] Group Author(s). Uniprot Consortium. P83218. IN UniProt
Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/P83218>, Registrované v: Data Citation Index

30. [3.2] Group Author(s). Uniprot Consortium. P83218. IN: UniProt
Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/P83218>, Registrované v: Data Citation Index

ADCA553 JOLLY, Pawan - DAMBORSKÝ, Pavel - MADABOOSI, Narayanan -
SOARES, Ruben - CHU, Virginia - CUNDI, Joao P. - KATRLÍK, Jaroslav -
ESTRELA, Pedro. DNA aptamer-based sandwich microfluidic assays for dual
quantification and multi-glycan profiling of cancer biomarkers. In *Biosensors and
Bioelectronic*, 2016, vol. 79, p. 313-319. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR,
Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0956-5663.
Dostupné na: <https://doi.org/10.1016/j.bios.2015.12.058>

Ohlasy:

1. [1.1] BAKHTIARI, Hadi - PALIZBAN, Abbas Ali -
KHANAHMAD, Hossein - MOFID, Mohammad Reza. Aptamer-based
approaches for in vitro molecular detection of cancer. In RESEARCH IN

PHARMACEUTICAL SCIENCES. ISSN 1735-5362, 2020, vol. 15, no. 2, pp. 107-122. Dostupné na: <https://doi.org/10.4103/1735-5362.283811>., Registrované v: WOS

2. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noerni - FERNANDEZ RODRIGUEZ, Eloy - JESUS LOBO-CASTANON, Maria. Focusing aptamer selection on the glycan structure of prostate-specific antigen: Toward more specific detection of prostate cancer. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 128, no., pp. 83-90., Registrované v: WOS

3. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DIAZ, Natalia - SUAREZ, Dimas - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, M. Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 35, pp. 9402-9413. Dostupné na: <https://doi.org/10.1039/d0sc00209g>., Registrované v: WOS

4. [1.1] DING, Fei - GAO, Yangguang - HE, Xianran. Recent progresses in biomedical applications of aptamer-functionalized systems. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2017, vol. 27, no. 18, pp. 4256-4269., Registrované v: WOS

5. [1.1] HAO, Liling - GU, Huajie - DUAN, Nuo - WU, Shijia - WANG, Zhouping. A chemiluminescent aptasensor for simultaneous detection of three antibiotics in milk. In ANALYTICAL METHODS. ISSN 1759-9660, 2016, vol. 8, no. 44, pp. 7929-7936., Registrované v: WOS

6. [1.1] HAYES, Bryony - MURPHY, Caroline - CRAWLEY, Aoife - O'KENNEDY, Richard. Developments in Point-of-Care Diagnostic Technology for Cancer Detection. In DIAGNOSTICS. ISSN 2075-4418, 2018, vol. 8, no. 2, pp., Registrované v: WOS

7. [1.1] HUNG, Lien-Yu - WANG, Chih-Hung - FU, Chien-Yu - GOPINATHAN, Priya - LEE, Gwo-Bin. Microfluidics in the selection of affinity reagents for the detection of cancer: paving a way towards future diagnostics. In LAB ON A CHIP. ISSN 1473-0197, 2016, vol. 16, no. 15, pp. 2759-2774., Registrované v: WOS

8. [1.1] HU, Jingping - YE, Mao - ZHOU, Zhiguang. Aptamers: novel diagnostic and therapeutic tools for diabetes mellitus and metabolic diseases. In JOURNAL OF MOLECULAR MEDICINE-JMM. ISSN 0946-2716, 2017, vol. 95, no. 3, pp. 249-256., Registrované v: WOS

9. [1.1] CHEN, Chuanpin - LIU, Wenfang - HONG, Tingting. Novel approaches for biomolecule immobilization in microscale systems. In ANALYST. ISSN 0003-2654, 2019, vol. 144, no. 13, pp. 3912-3924., Registrované v: WOS

10. [1.1] CHONG, Junhyun - CHONG, Hayun - LEE, Ji Hoon. A chemiluminescent dual-aptasensor capable of simultaneously quantifying prostate specific antigen and vascular endothelial growth factor. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2019, vol. 564, no., pp. 102-107., Registrované v: WOS

11. [1.1] CHONG, Junhyun - CHONG, Hayun - LEE, Ji Hoon. A chemiluminescent dual-aptasensor capable of simultaneously quantifying prostate specific antigen and vascular endothelial growth factor. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2019, vol. 564, no., pp. 102-107.,

Registrované v: WOS

12. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS

13. [1.1] KANITTHAMNIYOM, Pojchanun - ZHANG, Yi. Application of polydopamine in biomedical microfluidic devices. In *MICROFLUIDICS AND NANOFLUIDICS*. ISSN 1613-4982, 2018, vol. 22, no. 3, pp., Registrované v: WOS

14. [1.1] KIZER, Megan - LI, Peiqin - CRESS, Brady F. - LIN, Lei - JING, Tom T. - ZHANG, Xing - XIA, Ke - LINHARDT, Robert J. - WANG, Xing. RNA Aptamers with Specificity for Heparosan and Chondroitin Glycosaminoglycans. In *ACS OMEGA*. ISSN 2470-1343, 2018, vol. 3, no. 10, pp. 13667-13675., Registrované v: WOS

15. [1.1] LI, Dongxia - GUO, Junping - ZHAO, Liang - ZHANG, Guoxian - YAN, Guiqin. A label-free RTP sensor based on aptamer/quantum dot nanocomposites for cytochrome c detection. In *RSC ADVANCES*, 2019, vol. 9, no. 55, pp. 31953-31959., Registrované v: WOS

16. [1.1] MAZAAFRianto, Donny Nugraha - MAEKI, Masatoshi - ISHIDA, Akihiko - TANI, Hirofumi - TOKESHI, Manabu. Recent Microdevice-Based Aptamer Sensors. In *MICROMACHINES*. ISSN 2072-666X, 2018, vol. 9, no. 5, pp., Registrované v: WOS

17. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS

18. [1.1] PARRA, Joao P. R. L. L. - CRULHAS, Bruno P. - BASSO, Caroline R. - DELELLA, Flavia K. - CASTRO, Gustavo R. - PEDROSA, Valber A. Using an Electrochemical Aptasensor to Early Detect Prostate Specific and Free Prostate Specific Antigens Released by Cancer Cells. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2869-2877., Registrované v: WOS

19. [1.1] SONKER, Mukul - SAHORE, Vishal - WOOLLEY, Adam T. Recent advances in microfluidic sample preparation and separation techniques for molecular biomarker analysis: A critical review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2017, vol. 986, no., pp. 1-11., Registrované v: WOS

20. [1.1] SYPABEKOVA, Marzhan - BEKMURZAYEVA, Aliya - WANG, Ronghui - LI, Yanbin - NOGUES, Claude - KANAYEVA, Damira. Selection, characterization, and application of DNA aptamers for detection of Mycobacterium tuberculosis secreted protein MPT64. In *TUBERCULOSIS*. ISSN 1472-9792, 2017, vol. 104, no., pp. 70-78., Registrované v: WOS

21. [1.1] SYPABEKOVA, Marzhan - DUKENBAYEV, Kanat - TSEPKE, Anna - AKISHEVA, Akmaral - ORALBAYEV, Nurlan - KANAYEVA, Damira. An aptasensor for the detection of Mycobacterium tuberculosis secreted immunogenic protein MPT64 in clinical samples towards tuberculosis detection. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

22. [1.1] TKAC, Jan - BERTOK, Tomas - HIRES, Michal - JANE, Eduard - LORENCOVA, Lenka - KASAK, Peter. Glycomics of prostate cancer: updates. In *EXPERT REVIEW OF PROTEOMICS*. ISSN 1478-9450, 2019, vol.

16, no. 1, pp. 65-76., Registrované v: WOS

23. [1.1] TKAC, Jan - GAJDOSOVA, Veronika - HRONCEKOVA, Stefania - BERTOK, Tomas - HIRES, Michal - JANE, Eduard - LORENCOVA, Lenka - KASAK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In INTERFACE FOCUS. ISSN 2042-8898, 2019, vol. 9, no. 2, pp., Registrované v: WOS

24. [1.1] XIAO, Qin - XU, Chunxia. Research progress on chemiluminescence immunoassay combined with novel technologies. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2019.115780>., Registrované v: WOS

25. [1.1] YAN, Shu-Rong - FOROUGH, Mohammad Mehdi - SAFAEI, Mohadeseh - JAHANI, Shohreh - EBRAHIMPOUR, Nasser - BORHANI, Fariba - BARAVATI, Nadia Rezaei Zade - ARAMESH-BOROUJENI, Zahra - FOONG, Loke Kok. A review: Recent advances in ultrasensitive and highly specific recognition aptasensors with various detection strategies. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 184-207. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.173>., Registrované v: WOS

26. [1.1] ZHAO, Dan - YI, Xiaoqing - YUAN, Gongdao - ZHUO, Renxi - LI, Feng. Design and Construction of a Smart Targeting Drug Delivery System Based on Phototriggered Competition of Host-Guest Interaction. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2017, vol. 17, no. 9, pp., Registrované v: WOS

27. [1.2] MAHATO, Kuldeep - KUMAR, Suveen - SRIVASTAVA, Ananya - MAURYA, Pawan K. - SINGH, Renu - CHANDRA, Pranjali. Electrochemical immunosensors: Fundamentals and applications in clinical diagnostics. In Handbook of Immunoassay Technologies: Approaches, Performances, and Applications, 2018-01-01, pp. 359-414., Registrované v: SCOPUS

ADCA554 JOLLY, Pawan - FORMISANO, Nello - TKÁČ, Ján - KASÁK, Peter - FROST, Christopher - ESTRELA, Pedro. Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In *Sensors and Actuators B-Chemical*, 2015, vol. 209, p. 306-312. (2014: 4.097 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2014.11.083>

Ohlasy:

1. [1.1] ABBASY, Leila - MOHAMMADZADEH, Arezoo - HASANZADEH, Mohammad - EHSANI, Maryam - MOKHTARZADEH, Ahad. Biosensing of prostate specific antigen (PSA) in human plasma samples using biomacromolecule encapsulation into KCC-1-npr-NH₂: A new platform for prostate cancer detection. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 154, no., pp. 584-595. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.093>., Registrované v: WOS

2. [1.1] ADHIKARI, Juthi - RIZWAN, Mohammad - KEASBERRY, Natasha Ann - AHMED, Minhaz Uddin. Current progresses and trends in carbon nanomaterials-based electrochemical and electrochemiluminescence biosensors. In JOURNAL OF THE CHINESE CHEMICAL SOCIETY. ISSN 0009-4536,

2020, vol. 67, no. 6, pp. 937-960. Dostupné na:

<https://doi.org/10.1002/jccs.201900417>., Registrované v: WOS

3. [1.1] ARGOUBI, Wicem - SANCHEZ, Alfredo - PARRADO, Concepcion - RAOUAFI, Noureddine - VILLALONGA, Reynaldo. Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. In SENSORS AND ACTUATORS

B-CHEMICAL, 2018, vol. 255, no., pp. 309-315., Registrované v: WOS

4. [1.1] BLAIR, Ewen O. - HANNAH, Stuart - VEZZA, Vincent - AVCI, Huseyin - KOCAGOZ, Tanil - HOSKISSON, Paul A. - GUZEL, Fatma D. - CORRIGAN, Damion K. Biologically modified microelectrode sensors provide enhanced sensitivity for detection of nucleic acid sequences from Mycobacterium tuberculosis. In SENSORS AND ACTUATORS REPORTS. ISSN 2666-0539, 2020, vol. 2, no. 1, pp. Dostupné na:

<https://doi.org/10.1016/j.snr.2020.100008>., Registrované v: WOS

5. [1.1] BLEL, Nesrine - FOURATI, Najla - SOURI, Mina -

ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS

6. [1.1] BROTHERS, Michael C. - MOORE, David - ST LAWRENCE, Michael - HARRIS, Jonathan - JOSEPH, Ronald M. - RATCLIFF, Erin - RUIZ, Oscar N. - GLAVIN, Nicholas - KIM, Steve S. Impact of Self-Assembled Monolayer Design and Electrochemical Factors on Impedance-Based Biosensing. In SENSORS, 2020, vol. 20, no. 8, pp. Dostupné na:

<https://doi.org/10.3390/s20082246>., Registrované v: WOS

7. [1.1] CAMPUZANO, Susana - PEDRERO, Maria - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Antifouling (Bio)materials for Electrochemical (Bio)sensing. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 2, pp., Registrované v: WOS

8. [1.1] CAMPUZANO, Susana - PEDRERO, Maria - GAMELLA, Maria - SERAFIN, Veronica - YANEZ-SEDENO, Paloma - MANUEL PINGARRON, Jose. Beyond Sensitive and Selective Electrochemical Biosensors: Towards Continuous, Real-Time, Antibiofouling and Calibration-Free Devices. In SENSORS, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123376>., Registrované v: WOS

9. [1.1] DHARA, Keerthy - MAHAPATRA, Debiprosad Roy. Review on electrochemical sensing strategies for C-reactive protein and cardiac troponin I detection. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.104857>., Registrované v: WOS

10. [1.1] DO, Tram T. N. - TOAN VAN PHI - TIN PHAN NGUY - WAGNER, Patrick - EERSELS, Kasper - VESTERGAARD, Mun'delanji C. - TRUONG, Lien T. N. Anisotropic In Situ-Coated AuNPs on Screen-Printed Carbon Surface for Enhanced Prostate-Specific Antigen Impedimetric Aptasensor. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, 2017, vol. 46, no. 6, pp. 3542-3552., Registrované v: WOS

11. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA,

- Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS
12. [1.1] ERTURK, Gizem - MATTIASSON, Bo. Molecular Imprinting Techniques Used for the Preparation of Biosensors. In SENSORS. ISSN 1424-8220, 2017, vol. 17, no. 2, pp., Registrované v: WOS
13. [1.1] FARSHCHI, Fatemeh - HASANZADEH, Mohammad. Nanomaterial based aptasensing of prostate specific antigen (PSA): Recent progress and challenges in efficient diagnosis of prostate cancer using biomedicine. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110878>., Registrované v: WOS
14. [1.1] FARZIN, Leila - SHAMSIPUR, Mojtaba. Recent advances in design of electrochemical affinity biosensors for low level detection of cancer protein biomarkers using nanomaterial-assisted signal enhancement strategies. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 147, no., pp. 185-210., Registrované v: WOS
15. [1.1] FOROUZANFAR, Shahrzad - ALAM, Fahmida - PALA, Nezhir - WANG, Chunlei. Review-A Review of Electrochemical Aptasensors for Label-Free Cancer Diagnosis. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 6, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab7f20>., Registrované v: WOS
16. [1.1] GHORBANI, Farzaneh - ABBASZADEH, Hossein - DOLATABADI, Jafar Ezzati Nazhad - AGHEBATI-MALEKI, Leili - YOUSEFI, Mehdi. Application of various optical and electrochemical aptasensors for detection of human prostate specific antigen: A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS
17. [1.1] GONZALEZ-FERNANDEZ, Eva - STADERINI, Matteo - AVLONITIS, Nicolaos - MURRAY, Alan F. - MOUNT, Andrew R. - BRADLEY, Mark. Effect of spacer length on the performance of peptide-based electrochemical biosensors for protease detection. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 255, no., pp. 3040-3046., Registrované v: WOS
18. [1.1] HANSSEN, Benjamin L. - SIRAJ, Shajahan - WONG, Danny K. Y. Recent strategies to minimise fouling in electrochemical detection systems. In REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 0793-0135, 2016, vol. 35, no. 1, pp. 1-28., Registrované v: WOS
19. [1.1] HASANZADEH, Mohammad - SHADJOU, Nasrin. What are the reasons for low use of graphene quantum dots in immunosensing of cancer biomarkers? In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 71, no., pp. 1313-1326., Registrované v: WOS
20. [1.1] HEYDARI-BAFROOEI, Esmaeil - SHAMSZADEH, Nazgol Sadat. Electrochemical bioassay development for ultrasensitive aptasensing of prostate specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 91, no., pp. 284-292., Registrované v: WOS
21. [1.1] CHANG, Yong - WANG, Mengmeng - WANG, Luyan - XIA,

- Ning. Recent Progress in Electrochemical Biosensors for Detection of Prostate-Specific Antigen. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2018, vol. 13, no. 5, pp. 4071-4084., Registrované v: WOS
22. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
23. [1.1] ISLAMOV, Meirbek - SYPABEKOVA, Marzhan - KANAYEVA, Damira - ROJAS-SOLORZANO, Luis. CFD Modeling of Chamber Filling in a Micro-Biosensor for Protein Detection. In BIOSENSORS-BASEL. ISSN 2079-6374, 2017, vol. 7, no. 4, pp., Registrované v: WOS
24. [1.1] JARCZEWSKA, Marta - GORSKI, Lukasz - MALINOWSKA, Elzbieta. Electrochemical aptamer-based biosensors as potential tools for clinical diagnostics. In ANALYTICAL METHODS. ISSN 1759-9660, 2016, vol. 8, no. 19, pp. 3861-3877., Registrované v: WOS
25. [1.1] JIN, Shunru - YE, Zunzhong - WANG, Yixian - YING, Yibin. A Novel Impedimetric Microfluidic Analysis System for Transgenic Protein Cry1Ab Detection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
26. [1.1] JOLLY, Pawan - FORMISANO, Nello - TKAC, Jan - KASAK, Peter - FROST, Christopher G. - ESTRELA, Pedro. Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 209, no., pp. 306-312., Registrované v: WOS
27. [1.1] KARIMIPOUR, Masoud - HEYDARI-BAFROOEI, Esmaeil - SANJARI, Mahjubah - JOHANSSON, Malin B. - MOLAEI, Mehdi. A glassy carbon electrode modified with TiO₂(200)-rGO hybrid nanosheets for aptamer based impedimetric determination of the prostate specific antigen. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 1, pp., Registrované v: WOS
28. [1.1] LIN, Pei-Heng - LI, Bor-Ran. Antifouling strategies in advanced electrochemical sensors and biosensors. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 4, pp. 1110-1120. Dostupné na: <https://doi.org/10.1039/c9an02017a>., Registrované v: WOS
29. [1.1] LIU, Boshi - LIU, Xia - SHI, Se - HUANG, Renliang - SU, Rongxin - QI, Wei - HE, Zhimin. Design and mechanisms of antifouling materials for surface plasmon resonance sensors. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2016, vol. 40, no., pp. 100-118., Registrované v: WOS
30. [1.1] LI, Zhanhong - MOHAMED, Mona A. - MOHAN, A. M. Vinu - ZHU, Zhigang - SHARMA, Vinay - MISHRA, Geetesh K. - MISHRA, Rupesh K. Application of Electrochemical Aptasensors toward Clinical Diagnostics, Food, and Environmental Monitoring: Review. In SENSORS, 2019, vol. 19, no. 24, pp., Registrované v: WOS
31. [1.1] LI, Zhenjiang - YIN, Jifang - GAO, Chenghai - QIU, Guanhao - MENG, Alan - LI, Qingdang. The construction of electrochemical aptasensor based on coral-like polyaniline and Au nano-particles for the sensitive detection of prostate specific antigen. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2019, vol. 295, no., pp. 93-100., Registrované v: WOS

32. [1.1] LI, Zhi - ZHU, Mingshan. Detection of pollutants in water bodies: electrochemical detection or photo-electrochemical detection? In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 93, pp. 14541-14552. Dostupné na: <https://doi.org/10.1039/d0cc05709f>., Registrované v: WOS
33. [1.1] MALECKA, Kamila - STACHYRA, Anna - GORA-SOCHACKA, Anna - SIRKO, Agnieszka - ZAGORSKI-OSTOJA, Włodzimierz - RADECKA, Hanna - RADECKI, Jerzy. Electrochemical genosensor based on disc and screen printed gold electrodes for detection of specific DNA and RNA sequences derived from Avian Influenza Virus H5N1. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 224, no., pp. 290-297., Registrované v: WOS
34. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS
35. [1.1] MENG, Wenwen - ZHANG, Wenjuan - ZHANG, JunJun - CHEN, Xi - ZHANG, Yuzhong. An electrochemical immunosensor for prostate specific antigen using nitrogen-doped graphene as a sensing platform. In ANALYTICAL METHODS. ISSN 1759-9660, 2019, vol. 11, no. 16, pp. 2183-2189., Registrované v: WOS
36. [1.1] NAYL, A. A. - IBRAHIM, A. I. Abd-Elhamid A. - EL-MOGHAZY, Ahmed Y. - HUSSIN, Mohamed - ABU-SAIED, M. A. - EL-SHANSHORY, Ahmed A. - SOLIMAN, Hesham M. A. The nanomaterials and recent progress in biosensing systems: A review. In TRENDS IN ENVIRONMENTAL ANALYTICAL CHEMISTRY. ISSN 2214-1588, 2020, vol. 26, no., pp. Dostupné na: <https://doi.org/10.1016/j.teac.2020.e00087>., Registrované v: WOS
37. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS
38. [1.1] NEGANDARY, Masoud - MORADI, Ali - HELI, Hossein. Application of electrochemical aptasensors in detection of cancer biomarkers. In BIOMEDICAL RESEARCH AND THERAPY. ISSN 2198-4093, 2019, vol. 6, no. 7, pp. 3315-3324., Registrované v: WOS
39. [1.1] OBERHAUS, Franziska V. - FRENSE, Dieter - BECKMANN, Dieter. Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review. In BIOSENSORS-BASEL, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050045>., Registrované v: WOS
40. [1.1] OLIVEIRA, Nelia - COSTA-RAMA, Estefania - VISWANATHAN, Subramanian - DELERUE-MATOS, Cristina - PEREIRA, Lourdes - MORAIS, Simone. Label-free Voltammetric Immunosensor for Prostate Specific Antigen Detection. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2604-2611., Registrované v: WOS
41. [1.1] RAHI, A. - SATTARAHMADY, N. - HELI, H. Label-free electrochemical aptasensing of the human prostate-specific antigen using gold

- nanospears. In TALANTA. ISSN 0039-9140, 2016, vol. 156, no., pp. 218-224., Registrované v: WOS
42. [1.1] RAVALLI, Andrea - VOCCIA, Diego - PALCHETTI, Ilaria - MARRAZZA, Giovanna. Electrochemical, Electrochemiluminescence, and Photoelectrochemical Aptamer-Based Nanostructured Sensors for Biomarker Analysis. In BIOSENSORS-BASEL. ISSN 2079-6374, 2016, vol. 6, no. 3, pp., Registrované v: WOS
43. [1.1] RUSSELL, Christopher - WARD, Andrew C. - VEZZA, Vincent - HOSKISSON, Paul - ALCORN, David - STEENSON, D. Paul - CORRIGAN, Damion K. Development of a needle shaped microelectrode for electrochemical detection of the sepsis biomarker interleukin-6 (IL-6) in real time. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 806-814., Registrované v: WOS
44. [1.1] SATTARAHMADY, Naghmeh - RAHI, Amid - HELI, Hossein. A signal-on built in-marker electrochemical aptasensor for human prostate-specific antigen based on a hairbrush-like gold nanostructure. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
45. [1.1] SAWHNEY, M. Anne - CONLAN, R. S. POISED-5, a portable on-board electrochemical impedance spectroscopy biomarker analysis device. In BIOMEDICAL MICRODEVICES. ISSN 1387-2176, 2019, vol. 21, no. 3, pp., Registrované v: WOS
46. [1.1] SHABAN, Mina - HASANZADEH, Mohammad - SOLHI, Elham. An Fe₃O₄/PEDOT:PSS nanocomposite as an advanced electroconductive material for the biosensing of the prostate-specific antigen in unprocessed human plasma samples. In ANALYTICAL METHODS. ISSN 1759-9660, 2019, vol. 11, no. 44, pp. 5661-5672., Registrované v: WOS
47. [1.1] SOLHI, Elham - HASANZADEH, Mohammad. Critical role of biosensing on the efficient monitoring of cancer proteins/biomarkers using label-free aptamer based bioassay. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110849>., Registrované v: WOS
48. [1.1] SUHANTO, Rhesti Nurlina - HARIMURTI, Suksmandhira - SEPTIANI, Ni Luh Wulan - UTARI, Listya - ANSHORI, Isa - WASISTO, Hutomo Suryo - SUZUKI, Hiroaki - SUYATMAN - YULIARTO, Brian. Sonochemical synthesis of magnetic Fe₃O₄/graphene nanocomposites for label-free electrochemical biosensors. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, 2020, vol. 31, no. 18, pp. 15381-15393. Dostupné na: <https://doi.org/10.1007/s10854-020-04102-2>., Registrované v: WOS
49. [1.1] SUN, Kai - XIA, Ning - ZHAO, Lijuan - LIU, Ke - HOU, Wenjing - LIU, Lin. Aptasensors for the selective detection of alpha-synuclein oligomer by colorimetry, surface plasmon resonance and electrochemical impedance spectroscopy. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 245, no., pp. 87-94., Registrované v: WOS
50. [1.1] SUN, Xuecheng - ZHI, Shaotao - LEI, Chong - ZHOU, Yong. Investigation of contactless detection using a giant magnetoresistance sensor for detecting prostate specific antigen. In BIOMEDICAL MICRODEVICES. ISSN 1387-2176, 2016, vol. 18, no. 4, pp., Registrované v: WOS
51. [1.1] SUN, Xue-cheng - LEI, Chong - GUO, Lei - ZHOU, Yong.

- Sandwich immunoassay for the prostate specific antigen using a micro-fluxgate and magnetic bead labels. In MICROCHIMICA ACTA. ISSN 0026-3672, 2016, vol. 183, no. 8, pp. 2385-2393., Registrované v: WOS
52. [1.1] SYPABEKOVA, Marzhan - BEKMURZAYEVA, Aliya - WANG, Ronghui - LI, Yanbin - NOGUES, Claude - KANAYEVA, Damira. Selection, characterization, and application of DNA aptamers for detection of Mycobacterium tuberculosis secreted protein MPT64. In TUBERCULOSIS. ISSN 1472-9792, 2017, vol. 104, no., pp. 70-78., Registrované v: WOS
53. [1.1] SYPABEKOVA, Marzhan - DUKENBAYEV, Kanat - TSEPKE, Anna - AKISHEVA, Akmaral - ORALBAYEV, Nurlan - KANAYEVA, Damira. An aptasensor for the detection of Mycobacterium tuberculosis secreted immunogenic protein MPT64 in clinical samples towards tuberculosis detection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
54. [1.1] SYPABEKOVA, Marzhan - AITKULOV, Arman - BLANC, Wilfried - TOSI, Daniele. Reflector-less nanoparticles doped optical fiber biosensor for the detection of Case thrombin. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112365>., Registrované v: WOS
55. [1.1] TABARZAD, Maryam - JAFARI, Marzieh. Trends in the Design and Development of Specific Aptamers Against Peptides and Proteins. In PROTEIN JOURNAL. ISSN 1572-3887, 2016, vol. 35, no. 2, pp. 81-99., Registrované v: WOS
56. [1.1] TAHMASEBI, Fatemeh - NOORBAKHSH, Abdollah. Sensitive Electrochemical Prostate Specific Antigen Aptasensor: Effect of Carboxylic Acid Functionalized Carbon Nanotube and Glutaraldehyde Linker. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 5, pp. 1134-1145., Registrované v: WOS
57. [1.1] TELLO, Alejandra - CAO, Roberto - JOSE MARCHANT, Maria - GOMEZ, Humberto. Conformational Changes of Enzymes and Aptamers Immobilized on Electrodes. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2016, vol. 27, no. 11, pp. 2581-2591., Registrované v: WOS
58. [1.1] TOPKAYA, Seda Nur - AZIMZADEH, Mostafa - OZSOZ, Mehmet. Electrochemical Biosensors for Cancer Biomarkers Detection: Recent Advances and Challenges. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 7, pp. 1402-1419., Registrované v: WOS
59. [1.1] WANG, Junchun - GUO, Jinjin - ZHANG, Junjun - ZHANG, Wenjuan - ZHANG, Yuzhong. RNA aptamer-based electrochemical aptasensor for C-reactive protein detection using functionalized silica microspheres as immunoprobes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 95, no., pp. 100-105., Registrované v: WOS
60. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
61. [1.1] YAZDANI, Z. - YADEGARI, H. - HELI, H. A molecularly imprinted electrochemical nanobiosensor for prostate specific antigen determination. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2019, vol. 566, no., pp. 116-125., Registrované v: WOS

62. [1.1] ZHANG, Lingling - LI, Zhiguo - XU, Xuyao - YANG, Guizhen - ZHOU, Xiaoping - WANG, Hongwu. Effect of mixed thiols on the adsorption, capacitive and hybridization performance of DNA self-assembled monolayers on gold. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2016, vol. 20, no. 8, pp. 2153-2160., Registrované v: WOS
63. [1.1] ZHANG, Zijie - LIU, Juewen. Molecular Imprinting with Functional DNA. In SMALL. ISSN 1613-6810, 2019, vol. 15, no. 26, pp., Registrované v: WOS
64. [1.2] HONIKEL, Mackenzie M. - LIN, Chi En - PROBST, David - LA BELLE, Jeffrey T. Facilitating earlier diagnosis of cardiovascular disease through point-of-care biosensors: A review. In Critical Reviews in Biomedical Engineering. ISSN 0278940X, 2018-01-01, 46, 1, pp. 53-82., Registrované v: SCOPUS
65. [1.2] SHARKO, Darya O. - SHABALINA, Anastasiia V. - GOTOVTSEVA, Ekaterina Yu - ZAMAY, Galina S. - ZAMAY, Sergey S. Electrochemical Study of Sensor with Aptamer Specific to Glioblastoma. In International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices, EDM. ISSN 23254173, 2019-06-01, 2019-June, pp. 612-615., Registrované v: SCOPUS
66. [1.2] SINGH, Suman - DEEP, Akash - MOHANTA, Girish - MEENA, Vijay Kumar. Developments in the electrochemical bionanosensors for the predictive diagnosis of prostate and breast cancer. In Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis, 2017-12-30, pp. 253-278., Registrované v: SCOPUS
67. [1.2] SIONTOROU, Christina G. - NIKOLELI, Georgia Paraskevi D. - NIKOLELIS, Dimitrios P. - KARAPETIS, Stephanos - TZAMTZIS, Nikolaos - BRATAKOU, Spyridoula. Point-of-care and implantable biosensors in cancer research and diagnosis. In Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis, 2017-12-30, pp. 115-132., Registrované v: SCOPUS

ADCA555 JOLLY, Pawan - ZHURAUSKI, Pavel - HAMMOND, Jules L. - MIODEK, Anna - LIÉBANA, Susana - BERTÓK, Tomáš - TKÁČ, Ján - ESTRELA, Pedro. Self-assembled gold nanoparticles for impedimetric and amperometric detection of a prostate cancer biomarker. In *Sensors and Actuators B: Chemical*, 2017, vol. 251, p. 637-643. (2016: 5.401 - IF, Q1 - JCR, 1.343 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2017.05.040>

Ohlasy:

1. [1.1] BAI, Zhongchen - ZHOU, Jing - PENG, Man - ZHANG, Zhengping - QIN, Shuijie. Enhanced fluorescence of a porous Al₂O₃ film using gold nanoparticles on self-assembled CdSe/Au/Al₂O₃ heterojunctions. In JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS. ISSN 0740-3224, 2019, vol. 36, no. 6, pp. 1420-1428., Registrované v: WOS
2. [1.1] BIZID, Salma - BLILI, Saber - MLIKA, Rym - SAID, Ayoub Haj - KORRI-YO USSOUFI, Hafsa. Direct E-DNA sensor of Mycobacterium tuberculosis mutant strain based on new nanocomposite transducer (Fc-ac-OMPA/MWCNTs). In TALANTA. ISSN 0039-9140, 2018, vol. 184, no., pp. 475-483., Registrované v: WOS

3. [1.1] CAMPUZANO, Susana - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Nanoparticles for nucleic-acid-based biosensing: opportunities, challenges, and prospects. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 9, pp. 1791-1806., Registrované v: WOS
4. [1.1] CEVIK, Emre. High Sensitive Detection of Prostate Specific Antigen by Using Ferrocene Cored Asymmetric PAMAM Dendrimer Interface Screen Printed Electrodes. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 1, pp. 31-39., Registrované v: WOS
5. [1.1] FARSHCHI, Fatemeh - HASANZADEH, Mohammad. Nanomaterial based aptasensing of prostate specific antigen (PSA): Recent progress and challenges in efficient diagnosis of prostate cancer using biomedicine. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110878>., Registrované v: WOS
6. [1.1] GAN, Ning - XIE, Linshun - ZHANG, Kai - CAO, Yuting - HU, Futao - LI, Tianhua. An endonuclease-linked multiplex immunoassay for tumor markers detection based on microfluidic chip electrophoresis for DNA analysis. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 272, no., pp. 526-533., Registrované v: WOS
7. [1.1] CHANG, Yong - WANG, Mengmeng - WANG, Luyan - XIA, Ning. Recent Progress in Electrochemical Biosensors for Detection of Prostate-Specific Antigen. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2018, vol. 13, no. 5, pp. 4071-4084., Registrované v: WOS
8. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
9. [1.1] LAI, Yuxuan - DENG, Yan - YANG, Gaojian - LI, Song - ZHANG, Chuanxiang - LIU, Xueying. Molecular Imprinting Polymers Electrochemical Sensor Based on AuNPs/PTh Modified GCE for Highly Sensitive Detection of Carcinomaembryonic Antigen. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2018, vol. 14, no. 10, pp. 1688-1694., Registrované v: WOS
10. [1.1] LAI, Yuxuan - WANG, Lijun - LIU, Yuan - YANG, Gaojian - TANG, Congli - DENG, Yan - LI, Song. Immunosensors Based on Nanomaterials for Detection of Tumor Markers. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2018, vol. 14, no. 1, pp. 44-65., Registrované v: WOS
11. [1.1] LAI, Yuxuan - ZHANG, Chuanxiang - DENG, Yan - YANG, Gaojian - LI, Song - TANG, Congli - HE, Nongyue. A novel alpha-fetoprotein-MIP immunosensor based on AuNPs/PTh modified glass carbon electrode. In CHINESE CHEMICAL LETTERS. ISSN 1001-8417, 2019, vol. 30, no. 1, pp. 160-162., Registrované v: WOS
12. [1.1] LETCHUMANAN, Iswary - ARSHAD, M. K. Md - GOPINATH, Subash C. B. - RAJAPAKSHA, R. D. A. A. - BALAKRISHNAN, S. R. Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1,

pp. Dostupné na: <https://doi.org/10.1038/s41598-020-63831-w>., Registrované v: WOS

13. [1.1] LIU, Guangxing - ZHANG, Tian - TANG, Yuguo - MIAO, Peng. An ultrasensitive aptasensor for prostate specific antigen assay based on Exonuclease T-aided cyclic cleavage. In SCIENCE CHINA-CHEMISTRY. ISSN 1674-7291, 2018, vol. 61, no. 4, pp. 393-396., Registrované v: WOS

14. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

15. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS

16. [1.1] OBERHAUS, Franziska V. - FRENSE, Dieter - BECKMANN, Dieter. Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review. In BIOSENSORS-BASEL, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050045>., Registrované v: WOS

17. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. In FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>., Registrované v: WOS

18. [1.1] RAJU, V. Manohar - BHAVANA, V. - GAYATHRI, G. K. - SURYAN, Sandeep - REDDY, Roopa - REDDY, Narendra - RAVIKUMAR, C. R. - SANTOSH, Mysore Sridhar. A novel disposable electrochemical DNA biosensor for the rapid detection of Bacillus thuringiensis. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.105434>., Registrované v: WOS

19. [1.1] SHADMAN, Seyedeh Malahat - DANESHI, Marzieh - SHAFIEI, Fatemeh - AZIMIMEHR, Maryam - KHORASGANI, Mehrdad Rayati - SADEGHIAN, Mehdi - MOTAGHI, Hasan - MEHRGARDI, Masoud Ayatollahi. Aptamer-based electrochemical biosensors. In ELECTROCHEMICAL BIOSENSORS, 2019, vol., no., pp. 213-251., Registrované v: WOS

20. [1.1] SINGH, Naveen Kumar - JAIN, Priyamvada - DAS, Smita - GOSWAMI, Pranab. Dye Coupled Aptamer-Captured Enzyme Catalyzed Reaction for Detection of Pan Malaria and P. falciparum Species in Laboratory Settings and Instrument-Free Paper-Based Platform. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 6, pp. 4213-4221., Registrované v: WOS

21. [1.1] SYPABEKOVA, Marzhan - AITKULOV, Arman - BLANC, Wilfried - TOSI, Daniele. Reflector-less nanoparticles doped optical fiber biosensor for the detection of Case thrombin. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112365>., Registrované v: WOS

22. [1.2] CAMPUZANO, Susana - YÁÑEZ-SEDEÑO, Paloma - PINGARRÓN, José M. Electrochemical nucleic acid sensors based on

nanomaterials for medical diagnostics. In Nanotechnology and Biosensors, 2018-01-01, pp. 319-351., Registrované v: SCOPUS
23. [1.2] OCAÑA, Cristina - DEL VALLE, Manel. Impedimetric aptasensors using nanomaterials. In Nanotechnology and Biosensors, 2018-01-01, pp. 233-267., Registrované v: SCOPUS

ADCA556 JONIAK, Dušan - KOŠÍKOVÁ, Božena - KOSÁKOVÁ, Ľ.. Hydrogenolytic cleavage of methyl 4,6-O-(4-methoxybenzylidene)- α -D-glucopyranoside with LiAlH₄-AlCl₃. In *Collection of Czechoslovak Chemical Communications*, 1978, vol. 43, p. 769-773. ISSN 0010-0765.

Ohlasy:

1. [1.1] WANG, Tinghua - DEMCHENKO, Alexei V. Synthesis of carbohydrate building blocks via regioselective uniform protection/deprotection strategies. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2019, vol. 17, no. 20, pp. 4934-4950., Registrované v: WOS

ADCA557 JONIAK, Dušan - POLÁKOVÁ, Monika. Preparation of some D-glucofuranosides from unprotected D-glucose. In *Journal of the Serbian Chemical Society*, 2001, vol. 66, p. 81-86. ISSN 0352-5139.

Ohlasy:

1. [1.1] Downey, AM (Downey, A. Michael); Richter, C (Richter, Celin); Pohl, R (Pohl, Radek); Mahrwald, R (Mahrwald, Rainer); Hocek, M (Hocek, Michal): Direct One-Pot Synthesis of Nucleosides from Unprotected or 5-O-Monoprotected D-Ribose. In: ORGANIC LETTERS Volume: 17 Issue: 18 Pages: 4604-4607, Registrované v: WOS

2. [1.1] DOWNEY, A. Michael - HOCEK, Michal. Strategies toward protecting group-free glycosylation through selective activation of the anomeric center. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2017, vol. 13, no., pp. 1239-1279., Registrované v: WOS

3. [1.1] DOWNEY, A. Michael - POHL, Radek - ROITHOVA, Jana - HOCEK, Michal. Synthesis of Nucleosides through Direct Glycosylation of Nucleobases with 5-O-Monoprotected or 5-Modified Ribose: Improved Protocol, Scope, and Mechanism. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 16, pp. 3910-3917., Registrované v: WOS

ADCA558 JÚDOVÁ, Jana - ŠUTKA, R. - KLAUDINY, Jaroslav - LIŠKOVÁ, Desana - OW, D.W. - ŠIMŮTH, Jozef. Transformation of tobacco plants with cDNA encoding honeybee royal jelly MRJP1. In *Biologia Plantarum*, 2004, vol. 48, p. 185-191. (2003: 0.919 - IF). ISSN 0006-3134.

Ohlasy:

1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

ADCA559 JÚDOVÁ, J. - ŠUTKA, R. - KLAUDINY, Jaroslav - LIŠKOVÁ, Desana - OW, D.W. - ŠIMŮTH, Jozef. Transformation of tobacco plants with cDNA encoding honeybee royal jelly MRJP1. In *Biologia Plantarum : international journal*, 2004, vol. 48, p. 185-191. (2003: 0.919 - IF). ISSN 0006-3134. Dostupné na: <https://doi.org/10.1023/B:BIOP.0000033443.60872.f1>

Ohlasy:

1. [1.1] YOU, Zhengying - QIAN, Qiujie - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In TRANSGENIC RESEARCH. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS
2. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical composition of royal jelly. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 181-190., Registrované v: SCOPUS
3. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS

ADCA560 JUHÁSZ, László - VARGA, Gergely - SZTANKOVICS, Andrea - BÉKE, Ferenc - DOCSA, Tibor - KISS-SZIKSZAI, Attila - GERGELY, Pál - KÓŇA, Juraj - TVAROŠKA, Igor. Structure-activity relationships of glycogen phosphorylase inhibitor FR258900 and its analogues: A combined synthetic, enzyme kinetics, and computational study. In *ChemPlusChem*, 2014, vol. 79, p. 1558-1568. (2013: 3.360 - IF, Q1 - JCR, 1.442 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1439-7641. Dostupné na: <https://doi.org/10.1002/cplu.201402181>

Ohlasy:

1. [1.1] HAYES, Joseph M. Computer-Aided Discovery of Glycogen Phosphorylase Inhibitors Exploiting Natural Products. In DISCOVERY AND DEVELOPMENT OF ANTIDIABETIC AGENTS FROM NATURAL PRODUCTS: NATURAL PRODUCT DRUG DISCOVERY, 2017, vol., no., pp. 29-62., Registrované v: WOS
2. [1.1] PEYROT, Cedric - MENTION, Matthieu M. - FOURNIER, Robin - BRUNISSEN, Fanny - COUVREUR, Julien - BALAGUER, Patrick - ALLAIS, Florent. Expedition and sustainable two-step synthesis of sinapoyl-l-malate and analogues: towards non-endocrine disruptive bio-based and water-soluble bioactive compounds. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 19, pp. 6510-6518. Dostupné na: <https://doi.org/10.1039/d0gc02763d>., Registrované v: WOS
3. [1.1] STRAVODIMOS, George A. - CHETTER, Ben A. - KYRIAKIS, Efthimios - KANTSADI, Anastassia L. - CHATZILEONTIADOU, Demetra S. M. - SKAMNAKI, Vassiliki T. - KATO, Atsushi - HAYES, Joseph M. - LEONIDAS, Demetres D. Phytogetic Polyphenols as Glycogen Phosphorylase Inhibitors: The Potential of Triterpenes and Flavonoids for Glycaemic Control in Type 2 Diabetes. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 4, pp. 384-403., Registrované v: WOS
4. [1.2] HAYES, Joseph M. Computer-Aided Discovery of Glycogen Phosphorylase Inhibitors Exploiting Natural Products. In Discovery and Development of Antidiabetic Agents from Natural Products: Natural Product Drug Discovery, 2016-10-25, pp. 29-62., Registrované v: SCOPUS

ADCA561 JULÍNEK, Ondřej - KRUPÍČKA, Martin - LINDNER, Wolfgang - URBANOVÁ, Marie. Enantioselective interaction of carbamoylated quinine and (S)-3,5-dinitrobenzoyl alanine: theoretical and experimental circular dichroism

study. In *Physical Chemistry Chemical Physics*, 2010, vol. 12, p. 11487-11497. (2009: 4.116 - IF, 2.147 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c000046a>

Ohlasy:

1. [1.1] SINTRA, Tania E. - GANTMAN, Mikhail G. - VENTURA, Sonia P. M. - COUTINHO, Joao A. P. - WASSERSCHIED, Peter - SCHULZ, Peter S. Synthesis and characterization of chiral ionic liquids based on quinine, L-proline and L-valine for enantiomeric recognition. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2019, vol. 283, no., pp. 410-416., Registrované v: WOS

ADCA562 KAČURÁKOVÁ, Marta - WILSON, R.H. Developments in mid-infrared FT-IR spectroscopy of selected carbohydrates. In *Carbohydrate Polymers*, 2001, vol. 44, p. 291-303. (2000: 1.184 - IF, Current Contents - CCC). (2001 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00245-9](https://doi.org/10.1016/S0144-8617(00)00245-9)

Ohlasy:

1. [1.1] ACEMI, Arda - COBANOGU, Ozmen - TURKER-KAYA, Sevgi. FTIR-based comparative analysis of glucomannan contents in some tuberous orchids, and effects of pre-processing on glucomannan measurement. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2019, vol. 99, no. 7, pp. 3681-3686., Registrované v: WOS
2. [1.1] ALUGOJU, Phaniendra - NARSIMULU, D. - BHANU, J. Udaya - SATYANARAYANA, N. - PERIYASAMY, Latha. Role of quercetin and caloric restriction on the biomolecular composition of aged rat cerebral cortex: An FTIR study. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2019, vol. 220, no., pp., Registrované v: WOS
3. [1.1] ALZATE-SANCHEZ, Diego M. - LING, Yuhan - LI, Chenjun - FRANK, Benjamin P. - BLEHER, Reiner - FAIRBROTHER, D. Howard - HELBLING, Damian E. - DICHTER, William R. beta-Cyclodextrin Polymers on Microcrystalline Cellulose as a Granular Media for Organic Micropollutant Removal from Water. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2019, vol. 11, no. 8, pp. 8089-8096., Registrované v: WOS
4. [1.1] ASSAF, Shereen M. - KHANFAR, Mai Subhi - FARHAN, Ahmed Bassam - RASHID, Iyad Said - BADWAN, Adnan Ali. Preparation and characterization of co-processed starch/MCC/chitin hydrophilic polymers onto magnesium silicate. In *PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY*. ISSN 1083-7450, 2019, vol. 24, no. 6, pp. 761-774., Registrované v: WOS
5. [1.1] AZUMA, Wakana - NAKASHIMA, Satoru - YAMAKITA, Eri - ISHII, H. Roaki - KURODA, Keiko. Water retained in tall *Cryptomeria japonica* leaves as studied by infrared micro-spectroscopy. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2017, vol. 37, no. 10, pp. 1367-1378., Registrované v: WOS
6. [1.1] BAO CHEN - ZENG HONG-LIANG - ZHANG YI - LU XU - ZHANG LONG-TAO - HUANG CAN-CAN - ZHENG BAO-DONG. Structural Characteristics of Semen coicis Resistant Starch and Its Effect on the Proliferation of *Bifidobacterium bifidum*. In *CHINESE JOURNAL OF STRUCTURAL CHEMISTRY*. ISSN 0254-5861, 2017, vol. 36, no. 3, pp.

511-521., Registrované v: WOS

7. [1.1] BLEHA, Roman - BRINDZA, Jan - CAPEK, Peter - SINICA, Andrej. ISOLATION OF POLYSACCHARIDE AND SPOROPOLLENIN FROM SUNFLOWER BEE POLLEN CELL WALLS. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, vol., no., pp. 31-36., Registrované v: WOS

8. [1.1] BOCZKOWSKA, Maja - ZEBROWSKI, Jacek - NOWOSIELSKI, Jarosaw - KORDULASIASKA, Izabela - NOWOSIELSKA, Dorota - PODYMA, Wiesaw. Environmentally-related genotypic, phenotypic and metabolic diversity of oat (*Avena sativa* L.) landraces based on 67 Polish accessions. In GENETIC RESOURCES AND CROP EVOLUTION. ISSN 0925-9864, 2017, vol. 64, no. 8, pp. 1829-1840., Registrované v: WOS

9. [1.1] BORCHANI, Chema - FONTEYN, Fabienne - JAMIN, Guilhem - PAQUOT, Michel - THONART, Philippe - BLECKER, Christophe. Physical, functional and structural characterization of the cell wall fractions from baker's yeast *Saccharomyces cerevisiae*. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 194, no., pp. 1149-1155., Registrované v: WOS

10. [1.1] BRAHEM, Marwa - RENARD, Catherine M. G. C. - GOUBLE, Barbara - BUREAU, Sylvie - LE BOURVELLEC, Carine. Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 152-164., Registrované v: WOS

11. [1.1] CANTERI, Maria H. G. - RENARD, Catherine M. G. C. - LE BOURVELLEC, Carine - BUREAU, Sylvie. ATR-FTIR spectroscopy to determine cell wall composition: Application on a large diversity of fruits and vegetables. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 212, no., pp. 186-196., Registrované v: WOS

12. [1.1] CAPUTO, Hannah E. - STRAUB, John E. - GRINSTAFF, Mark W. Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2019, vol. 48, no. 8, pp. 2338-2365., Registrované v: WOS

13. [1.1] CARDENAS, W. - GOMEZ-PACHON, E. Y. - MUNOZ, E. - VERA-GRAZIANO, R. Preparation of potato starch microfibers obtained by electro wet spinning. In II International Congress of Mechanical Engineering and Agricultural Science (CIIMCA 2015). ISSN 1757-8981, 2016, vol. 138, no., pp., Registrované v: WOS

14. [1.1] CASTANO, J. - GUADARRAMA-LEZAMA, A. Y. - HERNANDEZ, J. - COLIN-CRUZ, M. - MUNOZ, M. - CASTILLO, S. Preparation, characterization and antifungal properties of polysaccharide-polysaccharide and polysaccharide-protein films. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2017, vol. 52, no. 1, pp. 353-366., Registrované v: WOS

15. [1.1] COIMBRA, Manuel A. - ROCHA, Silvia M. - MARTINS, Catia - BARROS, Antonio S. Methodologies for Improved Quality Control Assessment of Food Products. In ADVANCES IN FOOD DIAGNOSTICS, 2ND EDITION, 2017, vol., no., pp. 13-61., Registrované v: WOS

16. [1.1] CROCE, M. Emilia - VILLAR, Marcelo A. - PARODI, Elisa R. Assessment of alternative sources of seaweed polysaccharides in Argentina: potentials of the agarophyte *Gelidium crinale* (Hare ex Turner) Gaillon

- (Rhodophyta, Gelidiales). In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2015, vol. 27, no. 5, pp. 2099-2110., Registrované v: WOS
17. [1.1] DEVAUX, Marie-Francoise - JAMME, Frederic - ANDRE, William - BOUCHET, Brigitte - ALVARADO, Camille - DURAND, Sylvie - ROBERT, Paul - SAULNIER, Luc - BONNIN, Estelle - GUILLON, Fabienne. Synchrotron Time-Lapse Imaging of Lignocellulosic Biomass Hydrolysis: Tracking Enzyme Localization by Protein Autofluorescence and Biochemical Modification of Cell Walls by Microfluidic Infrared Microspectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
18. [1.1] DIANA, Castro-Rodriguez - HUMBERTO, Hernandez-Sanchez - JORGE, Yanez-Fernandez. Structural characterization and rheological properties of dextran produced by native strains isolated of Agave salmiana. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 90, no., pp. 1-8., Registrované v: WOS
19. [1.1] DIMOPOULOU, Maria - RITZOULIS, Christos - PANAYIOTOU, Costas. Surface characterization of okra hydrocolloid extract by inverse gas chromatography (IGC). In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2015, vol. 475, no., pp. 37-43., Registrované v: WOS
20. [1.1] FAHEY, Leona M. - NIEUWOUDT, Michel K. - HARRIS, Philip J. Predicting the cell-wall compositions of Pinus radiata (radiata pine) wood using ATR and transmission FTIR spectroscopies. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 12, pp. 5275-5293., Registrované v: WOS
21. [1.1] FAHEY, Leona M. - NIEUWOUDT, Michel K. - HARRIS, Philip J. Predicting the cell-wall compositions of solid Pinus radiata (radiata pine) wood using NIR and ATR FTIR spectroscopies. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 13-14, pp. 7695-7716., Registrované v: WOS
22. [1.1] GHANNAM, Ahmed - MURAD, Hossam - JAZZARA, Marie - ODEH, Adnan - ALLAF, Abdul Wahab. Isolation, Structural characterization, and antiproliferative activity of phycocolloids from the red seaweed Laurencia papillosa on MCF-7 human breast cancer cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 916-926., Registrované v: WOS
23. [1.1] GHOSHAL, G. - SHIVHARE, U. S. - BANERJEE, U. C. Rheological properties and microstructure of xylanase containing whole wheat bread dough. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 7, pp. 1928-1937., Registrované v: WOS
24. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS
25. [1.1] GILL, Abid Nazir - IFTIKHAR, Areeba - RASHID, Ayoub - AMIN, Muhammad - KHAN, Rana Rashad Mahmood - RAFIQUE, Hafiz M. - JELANI, Seemal - ADNAN, Ahmad. Lipase-catalyzed green synthesis of starch-maleate monoesters and its characterization. In JOURNAL OF THE IRANIAN CHEMICAL SOCIETY. ISSN 1735-207X, 2018, vol. 15, no. 9, pp. 1939-1945., Registrované v: WOS
26. [1.1] GU, Feng - LI, Bing-Zheng - XIA, Huiping - ADHIKARI, Benu - GAO, Qunyu. Preparation of starch nanospheres through hydrophobic

- modification followed by initial water dialysis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 605-612., Registrované v: WOS
27. [1.1] GYUL'MALIEV, A. M. - SAFIEVA, R. Z. - VINOKUROV, V. A. - PARENAGO, O. P. Structure Simulation and Calculation of the Energy of Interaction of the Fragments of Cellulose Macromolecules. In SOLID FUEL CHEMISTRY. ISSN 0361-5219, 2019, vol. 53, no. 3, pp. 190-196., Registrované v: WOS
28. [1.1] HARRISON, D. - RIVARD, B. - SANCHEZ-AZOFEIFA, A. Classification of tree species based on longwave hyperspectral data from leaves, a case study for a tropical dry forest. In INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION. ISSN 0303-2434, 2018, vol. 66, no., pp. 93-105., Registrované v: WOS
29. [1.1] HOFER, Alexandra - KAMRAVAMANESH, Donya - BONA-LOVASZ, Judit - LIMBECK, Andreas - LENDL, Bernhard - HERWIG, Christoph - FRICKE, Jens. Prediction of filamentous process performance attributes by CSL quality assessment using mid-infrared spectroscopy and chemometrics. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 265, no., pp. 93-100., Registrované v: WOS
30. [1.1] HRIBLJAN, J. A. - KANE, E. S. - CHIMNER, R. A. Implications of Altered Hydrology for Substrate Quality and Trace Gas Production in a Poor Fen Peatland. In SOIL SCIENCE SOCIETY OF AMERICA JOURNAL. ISSN 0361-5995, 2017, vol. 81, no. 3, pp. 633-646., Registrované v: WOS
31. [1.1] HU, Yamin - WANG, Shuang - WANG, Qian - HE, Zhixia - LIN, Xiaochi - XU, Shannan - JI, Hengsong - LI, Yun. Effect of different pretreatments on the thermal degradation of seaweed biomass. In PROCEEDINGS OF THE COMBUSTION INSTITUTE. ISSN 1540-7489, 2017, vol. 36, no. 2, pp. 2271-2281., Registrované v: WOS
32. [1.1] CHAARI, Fatma - BELGHITH-FENDRI, Lilia - ZAOURI-ELLOUZI, Soumaya - DRISS, Dorra - BLIBECH, Monia - KALLEL, Fatma - BOUAZIZ, Fatma - MEHDI, Yosra - ELLOUZ-CHAABOUNI, Semia - GHORBEL, Raoudha. Antibacterial and antioxidant properties of mixed linkage beta-oligosaccharides from extracted beta-glucan hydrolysed by *Penicillium occitanis* EG(L) lichenase. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2016, vol. 30, no. 12, pp. 1353-1359., Registrované v: WOS
33. [1.1] CHEN, Xingjuan - SONG, Da - XU, Jingjing - LI, Enze - SUN, Guoping - XU, Meiying. Role and mechanism of cell-surface hydrophobicity in the adaptation of *Sphingobium hydrophobicum* to electronic-waste contaminated sediment. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2803-2815., Registrované v: WOS
34. [1.1] CHEN, Zhiwen - HU, Thomas Q. - JANG, Ho Fan - GRANT, Edward. Modification of xylan in alkaline treated bleached hardwood kraft pulps as classified by attenuated total-internal-reflection (ATR) FTIR spectroscopy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 418-426., Registrované v: WOS
35. [1.1] CHRISTINA, Belinda - TAYLOR, Lynne S. - MAUER, Lisa J. Physical stability of L-ascorbic acid amorphous solid dispersions in different polymers: A study of polymer crystallization inhibitor properties. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2015, vol. 76, no., pp.

867-877., Registrované v: WOS

36. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207.,

Registrované v: WOS

37. [1.1] JAASKELAINEN, Anna-Stiina - ROJAS, Leonardo Galvis - BERTINETTO, Carlo G. Localization of Cereal Grain Components by Vibrational Microscopy and Chemometric Analysis. In IMAGING TECHNOLOGIES AND DATA PROCESSING FOR FOOD ENGINEERS, 2016, vol., no., pp. 41-68., Registrované v: WOS

38. [1.1] JAGTAP, Sharmili - DESHMUKH, Rehan Ahmed - MENON, Shylaja - DAS, Santanu. Xylooligosaccharides production by crude microbial enzymes from agricultural waste without prior treatment and their potential application as nutraceuticals. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 245, no., pp. 283-288., Registrované v: WOS

39. [1.1] JULIETA BOF, Maria - CARINA BORDAGARAY, Valeria - ELISA LOCASO, Delia - ALEJANDRA GARCIA, Maria. Chitosan molecular weight effect on starch-composite film properties. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 51, no., pp. 281-294., Registrované v: WOS

40. [1.1] KARABULUT, Sedat - UYSAL, Devran - LESZCZYNSKI, Jerzy. A new hybrid (experimental-theoretical) quantitative method for detection of relative anomer concentrations in water. In STRUCTURAL CHEMISTRY. ISSN 1040-0400, 2016, vol. 27, no. 2, pp. 449-455., Registrované v: WOS

41. [1.1] KORVA, Hanne - KARKKAINEN, Johanna - LAPPALAINEN, Katja - LAJUNEN, Marja. Spectroscopic study of natural and synthetic polysaccharide sulfate structures. In STARCH-STARKE. ISSN 0038-9056, 2016, vol. 68, no. 9-10, pp. 854-863., Registrované v: WOS

42. [1.1] KRASZNAI, Daniel J. - HARTLEY, Rachel Champagne - ROY, Hannah M. - CHAMPAGNE, Pascale - CUNNINGHAM, Michael F. Compositional analysis of lignocellulosic biomass: conventional methodologies and future outlook. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 199-217., Registrované v: WOS

43. [1.1] KUMAR, Raj - KAUR, Atamjot - SHARMA, Kashma - KUMAR, Brajesh - SHARMA, Vishal. On the examination of raw, pasteurized, powdered, and adulterated milk samples and their multivariate classification: applications in food and forensic science. In SPECTROSCOPY LETTERS. ISSN 0038-7010, 2019, vol., no., pp., Registrované v: WOS

44. [1.1] KUMAR, Saroj - LAHLALI, Rachid - LIU, Xia - KARUNAKARAN, Chithra. Infrared spectroscopy combined with imaging: A new developing analytical tool in health and plant science. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2016, vol. 51, no. 6, pp. 466-483., Registrované v: WOS

45. [1.1] KUMAR, Sathiya - CHINNANNAN, Karthik - THAMILARASAN, Senthil Kumar - SERALATHAN, Muhilvannan - SHANMUGANATHAN, Rajasree - PADIKASAN, Indra Arulselvi. Enzymatically hydrolysed sago bagasse improves physiological, biochemical and molecular attributes of Solanum lycopersicum. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 17, no., pp. 499-506.,

Registrované v: WOS

46. [1.1] LAHLALI, Rachid - KARUNAKARAN, Chithra - WANG, Lipu - WILLICK, Ian - SCHMIDT, Marina - LIU, Xia - BORONDICS, Ferenc - FORSEILLE, Lily - FOBERT, Pierre R. - TANINO, Karen - PENG, Gary - HALLIN, Emil. Synchrotron based phase contrast X-ray imaging combined with FTIR spectroscopy reveals structural and biomolecular differences in spikelets play a significant role in resistance to Fusarium in wheat. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2015, vol. 15, no., pp., Registrované v: WOS
47. [1.1] LAITY, Peter R. - BALDWIN, Elizabeth - HOLLAND, Chris. Changes in Silk Feedstock Rheology during Cocoon Construction: The Role of Calcium and Potassium Ions. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2019, vol. 19, no. 3, pp., Registrované v: WOS
48. [1.1] LAN, Fang - KONG, Dexin - LI, Yanqun - HUANG, Rongshao. STUDIES ON THE CHANGES OF PROTEIN SECONDARY STRUCTURE AND CARBOHYDRATE CONTENTS IN SEEDLING-STAGE OF ABRUS CANTONIENSIS HANCE IN DROUGHT STRESS BASED ON FTIR AND CHEMOMETRICS. In PAKISTAN JOURNAL OF BOTANY. ISSN 0556-3321, 2015, vol. 47, no. 4, pp. 1311-1316., Registrované v: WOS
49. [1.1] LEE, WonWoo - KANG, Nalae - KIM, Eun-A. - YANG, Hye-Won - OH, Jae-Young - FERNANDO, Illekkuttige Priyan Shanura - KIM, Kil-Nam - AHN, Ginnae - JEON, You-Jin. Radioprotective effects of a polysaccharide purified from Lactobacillus plantarum-fermented Ishige okamurae against oxidative stress caused by gamma ray-irradiation in zebrafish in vivo model. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 28, no., pp. 83-89., Registrované v: WOS
50. [1.1] LEFNAOUI, Sonia - MOULAI-MOSTEFA, Nadji. Polyelectrolyte complex based on carboxymethyl-kappa-carrageenan and Eudragit RL 30D as prospective carriers for sustained drug delivery. In CHEMICAL ENGINEERING RESEARCH & DESIGN. ISSN 0263-8762, 2015, vol. 97, no., pp. 165-174., Registrované v: WOS
51. [1.1] LIM, Steven - LING, Pang Yean - JUN, Leong Weng. Synthesis and Characterisation of Carbon-Based Solid Acid Catalyst from Jatropha Biomass for Biodiesel Production. In INTERNATIONAL SYMPOSIUM GREEN AND SUSTAINABLE TECHNOLOGY (ISGST2019). ISSN 0094-243X, 2019, vol. 2157, no., pp., Registrované v: WOS
52. [1.1] LI, Li - MA, Sen - FAN, Ling - ZHANG, Chi - PU, Xiaoqing - ZHENG, Xueling - WANG, Xiaoxi. The influence of ultrasonic modification on arabinoxylans properties obtained from wheat bran. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2016, vol. 51, no. 11, pp. 2338-2344., Registrované v: WOS
53. [1.1] LOPEZ-CORDOBA, Alex - MATERA, Soledad - DELADINO, Lorena - HOYA, Arturo - NAVARRO, Alba - MARTINO, Miriam. Compressed tablets based on mineral-functionalized starch and co-crystallized sucrose with natural antioxidants. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2015, vol. 146, no., pp. 234-242., Registrované v: WOS
54. [1.1] LOPEZ-GARCIA, Fabiola - JIMENEZ-MARTINEZ, Cristian. Biopolymer Films: Applications for Containers and other Products. In TENDENCIAS DE INNOVACION EN LA INGENIERIA EN ALIMENTOS, 2015, vol., no., pp. 9-36., Registrované v: WOS
55. [1.1] LUNA-VALDEZ, Jesus G. - BALANDRAN-QUINTANA,

Rene R. - AZAMAR-BARRIOS, Jose A. - RAMOS CLAMONT-MONTFORT, Gabriela - MENDOZA-WILSON, Ana M. - MADERA-SANTANA, Tomas J. - RASCON-CHU, Agustin - CHAQUILLA-QUILCA, Guadalupe. Assembly of biopolymer particles after thermal conditioning of wheat bran proteins contained in a 21-43 kDa size exclusion chromatography fraction. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 94, no., pp. 144-151.,

Registrované v: WOS

56. [1.1] MA, Yuhan - HE, Huaqi - WU, Jingzhu - WANG, Chunyang - CHAO, Kuanglin - HUANG, Qing. Assessment of Polysaccharides from Mycelia of genus Ganoderma by Mid-Infrared and Near-Infrared Spectroscopy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

57. [1.1] MERTENS, Kenneth Neil - WOLNY, Jennifer - CARBONELL-MOORE, Consuelo - BOGUS, Kara - ELLEGAARD, Marianne - LIMOGES, Audrey - DE VERNAL, Anne - GURDEBEKE, Pieter - OMURA, Takuo - AL-MUFTAH, Abdulrahman - MATSUOKA, Kazumi. Taxonomic re-examination of the toxic armored dinoflagellate *Pyrodinium bahamense* Plate 1906: Can morphology or LSU sequencing separate *P. bahamense* var. *compressum* from var. *bahamense*? In HARMFUL ALGAE. ISSN 1568-9883, 2015, vol. 41, no., pp. 1-24., Registrované v: WOS

58. [1.1] MONEO-SANCHEZ, M. - IZQUIERDO, L. - MARTIN, I. - HERNANDEZ-NISTAL, J. - ALBORNOS, L. - DOPICO, B. - LABRADOR, E. Knockout mutants of *Arabidopsis thaliana* beta-galactosidase. Modifications in the cell wall saccharides and enzymatic activities. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2018, vol. 62, no. 1, pp. 80-88., Registrované v: WOS

59. [1.1] MOO-HUCHIN, V. M. - CABRERA-SIERRA, M. J. - ESTRADA-LEON, R. J. - RIOS-SOBERANIS, C. R. - BETANCUR-ANCONA, D. - CHEL-GUERRERO, L. - ORTIZ-FERNANDEZ, A. - ESTRADA-MOTA, I. A. - PEREZ-PACHECO, E. Determination of some physicochemical and rheological characteristics of starch obtained from *Brosimum alicastrum* swartz seeds. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 45, no., pp. 48-54., Registrované v: WOS

60. [1.1] NIE, Linfeng - XIAO, Qiuping - LIU, Shuangshuang - LI, Bo - DUAN, Jinao - FAN, Yanhong - GUO, Liwei - HE, Chenghua - ZHU, Huaxu. Immune-enhancing effects of polysaccharides MLN-1 from by-product of *Mai-luo-ning* in vivo and in vitro. In FOOD AND AGRICULTURAL IMMUNOLOGY. ISSN 0954-0105, 2019, vol. 30, no. 1, pp. 369-384., Registrované v: WOS

61. [1.1] NIKOLIC, Goran S. - CAKIC, Milorad D. - GLISIC, Slobodan - CVETKOVIC, Dragan J. - MITIC, Zarko J. - MARKOVIC, Dragana Z. Study of Green Nanoparticles and Biocomplexes Based on Exopolysaccharide by Modern Fourier Transform Spectroscopy. In FOURIER TRANSFORMS HIGH-TECH APPLICATION AND CURRENT TRENDS, 2017, vol., no., pp. 149-174., Registrované v: WOS

62. [1.1] PAPPAS, Christos S. - SAKKAS, Lambros - MOSCHOPOULOU, Ekaterini - MOATSOU, Golfo. Direct determination of lactulose in heat-treated milk using diffuse reflectance infrared Fourier transform spectroscopy and partial least squares regression. In INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY. ISSN 1364-727X, 2015, vol. 68, no. 3, pp. 448-453., Registrované v: WOS

63. [1.1] PARK, Hye-Ryung - LEE, Sue Jung - IM, Su-Bin - SHIN, Myoung-Sook - CHOI, Hyuk-Jun - PARK, Ho-Young - SHIN, Kwang-Soon. Signaling pathway and structural features of macrophage-activating pectic polysaccharide from Korean citrus, Cheongkyool peels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 137, no., pp. 657-665., Registrované v: WOS
64. [1.1] PINTO, Mariana - COELHO, Elisabete - NUNES, Alexandra - BRANDAO, Tiago - COIMBRA, Manuel A. Valuation of brewers spent yeast polysaccharides: A structural characterization approach. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, no., pp. 215-222., Registrované v: WOS
65. [1.1] POURFARZAD, Amir - AHMADIAN, Zahra - HABIBI-NAJAFI, Mohammad B. Interactions between polyols and wheat biopolymers in a bread model system fortified with inulin: A Fourier transform infrared study. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 12, pp., Registrované v: WOS
66. [1.1] PYNAM, Hasitha - DHARMESH, Shylaja Mallaiah. A xylorhamnoarabinogalactan I from Bael (*Aegle marmelos* L.) modulates UV/DMBA induced skin cancer via galectin-3 & gut microbiota. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 60, no., pp., Registrované v: WOS
67. [1.1] QIAO, Zhibang - LV, Shanshan - GU, Jiyu - TAN, Haiyan - SHI, Junyou - ZHANG, Yanhua. Influence of acid hydrolysis on properties of maize starch adhesive. In PIGMENT & RESIN TECHNOLOGY. ISSN 0369-9420, 2017, vol. 46, no. 2, pp. 148-155., Registrované v: WOS
68. [1.1] QI, Liang - JI, Guangyin - LUO, Zhigang - XIAO, Zhigang - YANG, Qingyu. Characterization and Drug Delivery Properties of OSA Starch-Based Nanoparticles Prepared in [C(3)OHmim]Ac-in-Oil Microemulsions System. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 10, pp. 9517-9526., Registrované v: WOS
69. [1.1] RAHOUI, Nahla - JIANG, Bo - PAN, Hai Tao - HUANG, Yu Dong. Spectroscopy strategy for solid propellants quality control. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2016, vol. 51, no. 5, pp. 431-450., Registrované v: WOS
70. [1.1] ROMANO, Nelson - SANTOS, Mauricio - MOBILI, Pablo - VEGA, Roberto - GOMEZ-ZAVAGLIA, Andrea. Effect of sucrose concentration on the composition of enzymatically synthesized short-chain fructo-oligosaccharides as determined by FTIR and multivariate analysis. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 202, no., pp. 467-475., Registrované v: WOS
71. [1.1] SAIKHWAN, P. - THONGCHAN, S. - JUMWAN, N. - THUNGSIABYUAN, P. - SAKDANUPHAP, J. - BOONSOM, S. - KRAITONG, P. - DANWANICHAKUL, P. Cleaning studies of coconut milk foulants formed during heat treatment process. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 93, no., pp. 166-175., Registrované v: WOS
72. [1.1] SANTOS, Eleonice Moreira - DE CARVALHO TEIXEIRA, Ana Paula - DA SILVA, Flavia Gontijo - CIBAKA, Therese Ebambi - ARAUJO, Maria Helena - COELHO OLIVEIRA, Willian Xerxes - MEDEIROS, Felipe - BRASIL, Alex Nogueira - DE OLIVEIRA, Leandro Soares - LAGO, Rochel

- Montero. New heterogeneous catalyst for the esterification of fatty acid produced by surface aromatization/sulfonation of oilseed cake. In *FUEL*. ISSN 0016-2361, 2015, vol. 150, no., pp. 408-414., Registrované v: WOS
73. [1.1] SARABANDI, Khashayar - MAHOONAK, Alireza Sadeghi - AKBARI, Mahdiah. Physicochemical properties and antioxidant stability of microencapsulated marjoram extract prepared by co-crystallization method. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2019, vol. 42, no. 1, pp., Registrované v: WOS
74. [1.1] SARDARI, Behzad - DAVOLI, Federico - OZCAN, Meric. A simple configuration for static Fourier transform infrared spectrometers. In *OPTICAL SENSING AND DETECTION IV*. ISSN 0277-786X, 2016, vol. 9899, no., pp., Registrované v: WOS
75. [1.1] SONG, Jianxi - WU, Ye - JIANG, Guiquan - FENG, Lijuan - WANG, Zhiguo - YUAN, Guangxin - TONG, Haibin. Sulfated polysaccharides from *Rhodiola sachalinensis* reduce D-gal-induced oxidative stress in NIH 3T3 cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 140, no., pp. 288-293., Registrované v: WOS
76. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS
77. [1.1] SZYMANSKA-CHARGOT, M. - CHYLINSKA, M. - KRUK, B. - ZDUNEK, A. Combining FT-IR spectroscopy and multivariate analysis for qualitative and quantitative analysis of the cell wall composition changes during apples development. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 115, no., pp. 93-103., Registrované v: WOS
78. [1.1] TRACHE, Djalal - HUSSIN, M. Hazwan - CHUIN, Caryn Tan Hui - SABAR, Sumiyah - FAZITA, M. R. Nurul - TAIWO, Owolabi F. A. - HASSAN, T. M. - HAAFIZ, M. K. Mohamad. Microcrystalline cellulose: Isolation, characterization and bio-composites application-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 93, no., pp. 789-804., Registrované v: WOS
79. [1.1] TRANQUILAN-ARANILLA, Charito - BARBA, Bin Jeremiah D. - VISTA, Jeanina Richelle M. - ABAD, Lucille V. Hemostatic efficacy evaluation of radiation crosslinked carboxymethyl kappa-carrageenan and chitosan with varying degrees of substitution. In *RADIATION PHYSICS AND CHEMISTRY*. ISSN 0969-806X, 2016, vol. 124, no., pp. 124-129., Registrované v: WOS
80. [1.1] TROSHCHYNSKA, Yana - SYNYTSYA, Andriy - KYSELKA, Jan - STETINA, Jiri. FLAXSEED MEAL MUCILAGE POLYSACCHARIDES: CHEMICAL CHARACTERIZATION AND PURIFICATION. In *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*, 2016. ISSN 2336-6796, 2016, vol., no., pp. 273-277., Registrované v: WOS
81. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in *Plantago ovata* Using Gamma Irradiation

- Spectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
82. [1.1] VELKOVA, Nena - DOLISKA, Ales - ZEMLJIC, Lidija Fras - VESEL, Alenka - SAAKE, Bodo - STRNAD, Simona. Influence of Carboxymethylation on the Surface Physical-Chemical Properties of Glucuronoxylan and Arabinoxylan Films. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2015, vol. 55, no. 12, pp. 2706-2713., Registrované v: WOS
83. [1.1] WANG, Cheng-Zhang - ZHANG, Hong-Yu - LI, Wen-Jun - YE, Jian-Zhong. Chemical Constituents and Structural Characterization of Polysaccharides from Four Typical Bamboo Species Leaves. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 3, pp. 4162-4179., Registrované v: WOS
84. [1.1] WANG, Juan - HUANG, Hui Hua - CHEN, Ping Sheng. Structural and physicochemical properties of banana resistant starch from four cultivars. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no. 6, pp. 1338-1347., Registrované v: WOS
85. [1.1] WANG, Lili - ZHANG, Xiaofeng - NIU, Yingying - AHMED, Adel Fahmi - WANG, Jinmei - KANG, Wenyi. Anticoagulant activity of two novel polysaccharides from flowers of *Apocynum venetum* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 124, no., pp. 1230-1237., Registrované v: WOS
86. [1.1] XU, Jun-Li - GOWEN, Aoife A. Investigation of plasticizer aggregation problem in casein based biopolymer using chemical imaging. In TALANTA. ISSN 0039-9140, 2019, vol. 193, no., pp. 128-138., Registrované v: WOS
87. [1.1] YANG, Wei-Wei - WANG, Li-Ming - GONG, Li-Li - LU, Yong-Ming - PAN, Wen-Juan - WANG, Ya - ZHANG, Wen-Na - CHEN, Yan. Structural characterization and antioxidant activities of a novel polysaccharide fraction from the fruiting bodies of *Craterellus cornucopioides*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 473-482., Registrované v: WOS
88. [1.1] YEW, Ying Teng - LOO, Adeline Huiling - SOFER, Zdenek - KLIMOVA, Katerina - PUMERA, Martin. Coke-derived graphene quantum dots as fluorescence nanoquencher in DNA detection. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2017, vol. 7, no., pp. 138-143., Registrované v: WOS
89. [1.1] YUAN, Ming - JIA, Xuejing - YANG, Yong - DING, Chunbang - DU, Lei - YUAN, Shu - ZHANG, Zhongwei - CHEN, Yanger. Effect of light on structural properties and antioxidant activities of polysaccharides from soybean sprouts. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 7, pp. 1152-1157., Registrované v: WOS
90. [1.1] YU, Wansha - CHEN, Hu - XIANG, Zhonghuai - HE, Ningjia. Preparation of Polysaccharides from *Ramulus mori*, and Their Antioxidant, Anti-Inflammatory and Antibacterial Activities. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 5, pp., Registrované v: WOS
91. [1.1] ZHANG, Xuezhi - LU, Zhiying - WANG, Yifei - WENSEL, Pierre - SOMMERFELD, Milton - HU, Qiang. Recycling Nannochloropsis oceanica culture media and growth inhibitors characterization. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2016, vol. 20, no., pp. 282-290., Registrované v: WOS
92. [1.1] ZHAO, Huajie - LI, Huaping - LAI, Qiangqiang - YANG,

- Qihang - DONG, Yuhan - LIU, Xinchao - WANG, Wenshuai - ZHANG, Jianjun - JIA, Le. Antioxidant and hepatoprotective activities of modified polysaccharides from *Coprinus comatus* in mice with alcohol-induced liver injury. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 127, no., pp. 476-485., Registrované v: WOS
93. [1.2] COFFEY, Donald G. - BELL, David A. - HENDERSON, Alan. Cellulose and cellulose derivatives. In *Food Polysaccharides and Their Applications: Second Edition*, 2016-04-19, pp. 147-179., Registrované v: SCOPUS
94. [1.2] ELMI, Fatemeh - MOVAGHAR, Afshin Fayyaz - ELMI, Maryam Mitra - ALINEZHAD, Heshmatollah - NIKBAKHS, Novin. Application of FT-IR spectroscopy on breast cancer serum analysis. In *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. ISSN 13861425, 2017-12-05, 187, pp. 87-91., Registrované v: SCOPUS
95. [1.2] FLÓREZ-PARDO, Luz Marina - LÓPEZ-GALÁN, Jorge Enrique. Chemical analysis and characterization of biomass for biorefineries. In *Analytical Techniques and Methods for Biomass*, 2016-01-01, pp. 235-273., Registrované v: SCOPUS
96. [1.2] GURDEBEKE, Pieter R. - MERTENS, Kenneth Neil - BOGUS, Kara - MARRET, Fabienne - CHOMÉRAT, Nicolas - VRIELINCK, Henk - LOUWYE, Stephen. Taxonomic Re-Investigation and Geochemical Characterization of Reid's (1974) Species of Spiniferites from Holotype and Topotype Material. In *Palynology*. ISSN 01916122, 2018-12-20, 42, sup1, pp. 93-110., Registrované v: SCOPUS
97. [1.2] HONGBO, Tang - LIJUN, Liu - YANPING, Li - SIQING, Dong. Debranching potato starch: synthesis, optimization and thermal property. In *Polymer Bulletin*. ISSN 01700839, 2015-10-13, 72, 10, pp. 2537-2552., Registrované v: SCOPUS
98. [1.2] KAMINARI, Agathi Anthoula - BOYATZIS, Stamatis C. - ALEXOPOULOU, Athina. Linking Infrared Spectra of Laboratory Iron Gall Inks Based on Traditional Recipes with their Material Components. In *Applied Spectroscopy*. ISSN 00037028, 2018-10-01, 72, 10, pp. 1511-1527., Registrované v: SCOPUS
99. [1.2] LEE, Ye Eun - JO, Jun Ho - KIM, I. Tae - YOO, Yeong Seok. Chemical characteristics and NaCl component behavior of biochar derived from the salty food waste by water flushing. In *Energies*, 2017-10-01, 10, 10, pp., Registrované v: SCOPUS
100. [1.2] LUO, Zhaohe - LIM, Zhen Fei - MERTENS, Kenneth Neil - GURDEBEKE, Pieter - BOGUS, Kara - CARBONELL-MOORE, M. Consuelo - VRIELINCK, Henk - LEAW, Chui Pin - LIM, Po Teen - CHOMÉRAT, Nicolas - LI, Xintian - GU, Haifeng. Morpho-molecular diversity and phylogeny of *Bysmatrum* (Dinophyceae) from the South China Sea and France. In *European Journal of Phycology*. ISSN 09670262, 2018-07-03, 53, 3, pp. 318-335., Registrované v: SCOPUS
101. [1.2] MERTENS, Kenneth Neil - GU, Haifeng - POSPELOVA, Vera - CHOMÉRAT, Nicolas - NÉZAN, Elisabeth - GURDEBEKE, Pieter Roger - BOGUS, Kara - VRIELINCK, Henk - RUMEBE, Myriam - METEIGNER, Claire. First record of resting cysts of the benthic dinoflagellate *Prorocentrum* leve in a natural reservoir in Gujan-Mestras, Gironde, France. In *Journal of*

Phycology. ISSN 00223646, 2017-12-01, 53, 6, pp. 1193-1205., Registrované v: SCOPUS

102. [1.2] OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. - KORYAKINA, Lena P. - VLADIMIROV, Leonid N. Bitter gentian teas: Nutritional and phytochemical profiles, polysaccharide characterisation and bioactivity. In *Molecules*, 2015-11-05, 20, 11, pp. 20014-20030., Registrované v: SCOPUS

103. [1.2] POURFARZAD, Amir - AHMADIAN, Zahra - TAVASSOLI-KAFRANI, Mohammad Hossein. The effect of sodium stearyl lactylate on structural changes of wheat gluten in a model system fortified with inulin: Investigation with Fourier transform infrared spectroscopy. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2019-01-01, 17, pp., Registrované v: SCOPUS

104. [1.2] PU, Yunqiao - MENG, Xianzhi - YOO, Chang Geun - LI, Mi - RAGAUSKAS, Arthur J. Analytical methods for biomass characterization during pretreatment and bioconversion? In *Valorization of Lignocellulosic Biomass in a Biorefinery: From Logistics to Environmental and Performance Impact*, 2016-01-01, pp. 37-78., Registrované v: SCOPUS

105. [1.2] RAJ, V. - PRABHA, G. Synthesis, characterization and in vitro drug release of cisplatin loaded Cassava starch acetate-PEG/gelatin nanocomposites. In *Journal of the Association of Arab Universities for Basic and Applied Sciences*. ISSN 18153852, 2016-10-01, 21, pp. 10-16., Registrované v: SCOPUS

106. [1.2] SHARMA, H. S.S. - SELBY, C. - CARMICHAEL, E. - MCROBERTS, C. - RAO, J. R. - AMBROSINO, P. - CHIURAZZI, M. - PUCCI, M. - MARTIN, T. Physicochemical analyses of plant biostimulant formulations and characterisation of commercial products by instrumental techniques. In *Chemical and Biological Technologies in Agriculture*, 2016-01-01, 3, 1, pp., Registrované v: SCOPUS

107. [1.2] SU, Wen Hao - SUN, Da Wen. Advanced Analysis of Roots and Tubers by Hyperspectral Techniques. In *Advances in Food and Nutrition Research*. ISSN 10434526, 2019-01-01, 87, pp. 255-303., Registrované v: SCOPUS

ADCA563 KAČURÁKOVÁ, Marta - MATHLOUTHI, M. FTIR and laser-Raman spectra of oligosaccharides in water: Characterization of the glycosidic bond. In *Carbohydrate Research*, 1996, vol. 284, no. 2, p. 145-157. (1995: 1.506 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(95\)00412-2](https://doi.org/10.1016/0008-6215(95)00412-2)

Ohlasy:

1. [1.1] ACIKGOZ, Eda - GULER, Gunnur - CAMLAR, Mahmut - OKTEM, Gulperi - AKTUG, Huseyin. Glycogen synthase kinase-3 inhibition in glioblastoma multiforme cells induces apoptosis, cell cycle arrest and changing biomolecular structure. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2019, vol. 209, no., pp. 150-164., Registrované v: WOS

2. [1.1] AHMAD, Mudasir - QURESHI, Shahida - MAQSOOD, Sajid - GANI, Adil - MASOODI, F. A. Micro-encapsulation of folic acid using horse chestnut starch and beta-cyclodextrin: Microcapsule characterization, release behavior & antioxidant potential during GI tract conditions. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 66, no., pp. 154-160.,

Registované v: WOS

3. [1.1] AJITO, Satoshi - HIRAI, Mitsuhiro. Recovery Effects of Trehalose on Acid Denaturation/Aggregation of Proteins. In BUNSEKI KAGAKU. ISSN 0525-1931, 2019, vol. 68, no. 1, pp. 43-49., Registrované v: WOS
4. [1.1] ALLAN, Matthew C. - RAJWA, Bartek - MAUER, Lisa J. Effects of sugars and sugar alcohols on the gelatinization temperature of wheat starch. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 84, no., pp. 593-607., Registrované v: WOS
5. [1.1] AMI, Diletta - MEREGHETTI, Paolo - LERI, Manuela - GIORGETTI, Sofia - NATALELLO, Antonino - DOGLIA, Silvia Maria - STEFANI, Massimo - BUCCIANINI, Monica. A FTIR microspectroscopy study of the structural and biochemical perturbations induced by natively folded and aggregated transthyretin in HL-1 cardiomyocytes. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
6. [1.1] ANDREOTTI, Alessia - BROWN, William P. - CAMAITI, Mara - COLOMBINI, Maria Perla - DECRUZ, Adele. Diagnosis of materials and effectiveness of Er:YAG laser cleaning as complementary treatment in a panel painting attributed to Lluís Borrassa (fifteenth century). In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, 2016, vol. 122, no. 6, pp., Registrované v: WOS
7. [1.1] BADER, Miriam - MUELLER, Katharina - FOERSTENDORF, Harald - SCHMIDT, Matthias - SIMMONS, Karen - SWANSON, Juliet S. - REED, Donald T. - STUMPF, Thorsten - CHERKOUK, Andrea. Comparative analysis of uranium bioassociation with halophilic bacteria and archaea. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
8. [1.1] BEESE-VASBENDER, Pascal F. - NAYAK, Simantini - ERBE, Andreas - STRATMANN, Martin - MAYRHOFER, Karl J. J. Electrochemical characterization of direct electron uptake in electrical microbially influenced corrosion of iron by the lithoautotrophic SRB *Desulfopila corrodens* strain IS4. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 167, no., pp. 321-329., Registrované v: WOS
9. [1.1] BERTERAME, Nadia Maria - PORRO, Danilo - AMI, Diletta - BRANDUARDI, Paola. Protein aggregation and membrane lipid modifications under lactic acid stress in wild type and OPI1 deleted *Saccharomyces cerevisiae* strains. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
10. [1.1] BISWAS, Atanu - KIM, Sanghoon - GOMEZ, Analía - BUTTRUM, Megan - BODDU, Veera - CHENG, Huai N. Microwave-Assisted Synthesis of Sucrose Polyurethanes and Their Semi-interpenetrating Polymer Networks with Polycaprolactone and Soybean Oil. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2018, vol. 57, no. 9, pp. 3227-3234., Registrované v: WOS
11. [1.1] BO, Surina - DAN, Mu - LI, Wenxi - ZHANG, Ping. Characterizations and immunostimulatory activities of a polysaccharide from *Arnebia euchroma* (Royle) Johnston roots. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 791-799., Registrované v: WOS
12. [1.1] BRUNCHI, Cristina-Eliza - BERCEA, Maria - MORARIU, Simona - AVADANEI, Mihaela. Investigations on the interactions between

- xanthan gum and poly(vinyl alcohol) in solid state and aqueous solutions. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2016, vol. 84, no., pp. 161-172., Registrované v: WOS
13. [1.1] BUREAU, Sylvie - COZZOLINO, Daniel - CLARK, Christopher J. Contributions of Fourier-transform mid infrared (FT-MIR) spectroscopy to the study of fruit and vegetables: A review. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2019, vol. 148, no., pp. 1-14., Registrované v: WOS
14. [1.1] CLARK, Christopher J. - COONEY, Janine M. - HOPKINS, Wendy A. - CURRIE, Alastair. Global Mid-Infrared Prediction Models Facilitate Simultaneous Analysis of Juice Composition from Berries of Actinidia, Ribes, Rubus and Vaccinium Species. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2018, vol. 11, no. 11, pp. 3147-3160., Registrované v: WOS
15. [1.1] COIMBRA, Manuel A. - ROCHA, Silvia M. - MARTINS, Catia - BARROS, Antonio S. Methodologies for Improved Quality Control Assessment of Food Products. In ADVANCES IN FOOD DIAGNOSTICS, 2ND EDITION, 2017, vol., no., pp. 13-61., Registrované v: WOS
16. [1.1] CONTRERAS-JIMENEZ, Brenda - VAZQUEZ-CONTRERAS, Gilberto - DE LOS ANGELES CORNEJO-VILLEGAS, Maria - DEL REAL-LOPEZ, Alicia - RODRIGUEZ-GARCIA, Mario E. Structural, morphological, chemical, vibrational, pasting, rheological, and thermal characterization of isolated jicama (Pachyrhizus spp.) starch and jicama starch added with Ca(OH)(2). In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 283, no., pp. 83-91., Registrované v: WOS
17. [1.1] COZAR, Onuc - CIOICA, Nicolae - COTA, Constantin - NAGY, Elena Mihaela - FECHETE, Radu. Plasticizers Effect on Native Biodegradable Package Materials. In TIM15-16 PHYSICS CONFERENCE. ISSN 0094-243X, 2017, vol. 1796, no., pp., Registrované v: WOS
18. [1.1] DA SILVA, Heitor Ribeiro - DE ASSIS, Daniele da Cruz - PRADA, Ariadna Lafourcade - CARRERA SILVA JUNIOR, Jose Otavio - DE SOUSA, Mayara Brito - FERREIRA, Adriana Maciel - RODRIGUEZ AMADO, Jesus Rafael - CARVALHO, Helison de Oliveira - DE LIMA TEIXEIRA DOS SANTOS, Abrahao Victor Tavares - TAVARES CARVALHO, Jose Carlos. Obtaining and characterization of anthocyanins from Euterpe oleracea (acai) dry extract for nutraceutical and food preparations. In REVISTA BRASILEIRA DE FARMACOGNOSIA-BRAZILIAN JOURNAL OF PHARMACOGNOSY. ISSN 0102-695X, 2019, vol. 29, no. 5, pp. 677-685., Registrované v: WOS
19. [1.1] DANKAR, Iman - HADDARAH, Amira - OMAR, Fawaz E. L. - PUJOLA, Montserrat - SEPULCRE, Francesc. Characterization of food additive-potato starch complexes by FTIR and X-ray diffraction. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 260, no., pp. 7-12., Registrované v: WOS
20. [1.1] DAS, D. - JHA, S. - KUMAR, K. Jayaram. Isolation and release characteristics of starch from the rhizome of Indian Palo. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 341-346., Registrované v: WOS
21. [1.1] DAS, Saprativ P. - GUPTA, Ashutosh - DAS, Debasish - GOYAL, Arun. Enhanced bioethanol production from water hyacinth (Eichhornia crassipes) by statistical optimization of fermentation process parameters using Taguchi orthogonal array design. In INTERNATIONAL

- BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2016, vol. 109, no., pp. 174-184., Registrované v: WOS
22. [1.1] DENG, Weihua - KENNEDY, James R. - TSILOMELEKIS, George - ZHENG, Weiqing - NIKOLAKIS, Vladimiro. Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2015, vol. 54, no. 19, pp. 5226-5236., Registrované v: WOS
23. [1.1] DEVI, Durairaj Vaishnu - VISWANATHAN, Pragasam. Sulphated polysaccharide from Sargassum myriocystum confers protection against gentamicin-induced nephrotoxicity in adult zebrafish. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2019, vol. 72, no., pp., Registrované v: WOS
24. [1.1] DHAR, Priyanka - CHERNYSHOVA, Irina - THORNHILL, Maria - ROELANTS, Sophie - SOETAERT, Wim - KOTA, Hanumantha Rao. Floatability of Chalcopyrite by Glycolipid Biosurfactants as Compared to Traditions Thiol Surfactants. In TENSIDE SURFACTANTS DETERGENTS. ISSN 0932-3414, 2019, vol. 56, no. 5, pp. 429-435., Registrované v: WOS
25. [1.1] DIVEKAR, Monali Trimbak - KARUNAKARAN, Chithra - LAHLALI, Rachid - KUMAR, Saroj - CHELLADURAI, Vellaichamy - LIU, Xia - BORONDICS, Ferenc - SHANMUGASUNDARAM, Saravanan - JAYAS, Digvir Singh. Effect of microwave treatment on the cooking and macronutrient qualities of pulses. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no. 2, pp. 409-422., Registrované v: WOS
26. [1.1] ELVIA ROSAS-MENDOZA, Marta - CORIA-HERNANDEZ, Jonathan - MELENDEZ-PEREZ, Rosalia - ARJONA-ROMAN, Jose Luis. Characteristics of Chia (*Salvia hispanica* L.) Seed Oil Extracted by Ultrasound Assistance. In JOURNAL OF THE MEXICAN CHEMICAL SOCIETY. ISSN 1870-249X, 2017, vol. 61, no. 4, pp. 326-335., Registrované v: WOS
27. [1.1] FERINO-PEREZ, Anthuan - GAMBOA-CARBALLO, Juan Jose - RANGUIN, Ronald - LEVALLOIS-GRUTZMACHER, Joelle - BERCION, Yves - GASPARD, Sarra - MIRANDA-QUINTANA, Ramon Alain - ARIAS, Melvin - JAUREGUI-HAZA, Ulises J. Evaluation of the molecular inclusion process of beta-hexachlorocyclohexane in cyclodextrins. In RSC ADVANCES, 2019, vol. 9, no. 47, pp. 27484-27499., Registrované v: WOS
28. [1.1] FRAMPTON, John P. - LAI, David - LOUNDS, Maxwell - CHUNG, Kyeongwoon - KIM, Jinsang - ELD, John F. Mansfi - TAKAYAMA, Shuichi. Elongation of Fibers from Highly Viscous Dextran Solutions Enables Fabrication of Rapidly Dissolving Drug Carrying Fabrics. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2015, vol. 4, no. 2, pp. 313-319., Registrované v: WOS
29. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS
30. [1.1] GLADYSZ-PLASKA, A. - LIPKE, A. - STERNIK, D. - TRYTEK, M. - MAJDAN, M. Spectroscopic, thermal and equilibrium characterization of U(VI) ions sorption on inulin in the presence of phosphates. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2018, vol. 1166, no., pp. 169-182., Registrované v: WOS
31. [1.1] GONZALEZ FA, Alejandro - LOPEZ-CORRAL, Ignacio - FACCIO, Ricardo - JUAN, Alfredo - SUSANA DI NEZIO, Maria. Surface

enhancement Raman spectroscopy and density functional theory study of silver nanoparticles synthesized with d-glucose. In JOURNAL OF RAMAN SPECTROSCOPY. ISSN 0377-0486, 2018, vol. 49, no. 11, pp. 1756-1764., Registrované v: WOS

32. [1.1] GRUNERT, Tom - JOVANOVIĆ, Dijana - SIRISARN, Wanchat - JOHLER, Sophia - WEIDENMAIER, Christopher - EHLING-SCHULZ, Monika - XIA, Guoqing. Analysis of Staphylococcus aureus wall teichoic acid glycoepitopes by Fourier Transform Infrared Spectroscopy provides novel insights into the staphylococcal glycode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

33. [1.1] GULER, Gunnur - GUVEN, Ummu - OKTEM, Gulperi. Characterization of CD133(+)/CD44(+) human prostate cancer stem cells with ATR-FTIR spectroscopy. In ANALYST. ISSN 0003-2654, 2019, vol. 144, no. 6, pp. 2138-2149., Registrované v: WOS

34. [1.1] HARI, Neethu - NAIR, Ananthakrishnan Jayakumaran. Development and characterization of chitosan-based antimicrobial films incorporated with streptomycin loaded starch nanoparticles. In NEW HORIZONS IN TRANSLATIONAL MEDICINE. ISSN 2352-7536, 2016, vol. 3, no. 1, pp. 22-29., Registrované v: WOS

35. [1.1] HAR, Chen Loon - FU, Nan - CHAN, Eng Seng - TEY, Beng Ti - CHEN, Xiao Dong. In situ crystallization kinetics and behavior of mannitol during droplet drying. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 354, no., pp. 314-326., Registrované v: WOS

36. [1.1] CHEN, Yin - MAO, Wenjun - WANG, Hui - ZHU, Weiming - NIU, Qingfeng - FANG, Xubo - LI, Tao. Structure elucidation of a galactofuranose-rich heteropolysaccharide from aciduric fungus penicillium purpurogenum JS03-21. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2015, vol. 32, no. 1-2, pp. 29-37., Registrované v: WOS

37. [1.1] CHOY, Sook Yan - PRASAD, Krishnamurthy Nagendra - WU, Ta Yeong - RAGHUNANDAN, Mavinakere Eshwaraiah - RAMANAN, Ramakrishnan Nagasundara. Performance of conventional starches as natural coagulants for turbidity removal. In ECOLOGICAL ENGINEERING. ISSN 0925-8574, 2016, vol. 94, no., pp. 352-364., Registrované v: WOS

38. [1.1] ILASLAN, Kerem - BOYACI, Ismail Hakki - TOPCU, Ali. Rapid analysis of glucose, fructose and sucrose contents of commercial soft drinks using Raman spectroscopy. In FOOD CONTROL. ISSN 0956-7135, 2015, vol. 48, no., pp. 56-61., Registrované v: WOS

39. [1.1] JAMIR, Kizukala - SESHAGIRIRAO, Kottapalli. Isolation, characterization and comparative study of starches from selected Zingiberaceae species, a non-conventional source. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 72, no., pp. 247-253., Registrované v: WOS

40. [1.1] JIANG, Ye - XUE, Junhui - WEN, Xiaodong - ZHAI, Yanjun - YANG, Limin - XU, Yizhuang - ZHAO, Guozhong - KOU, Kuan - LIU, Kexin - CHEN, Jia'er - WU, Jinguang. Sugar-metal ion interactions: The coordination behavior of cesium ion with lactose, D-arabinose and L-arabinose. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2016, vol. 1109, no., pp. 179-191., Registrované v: WOS

41. [1.1] KALLEL, Fatma - DRISS, Dorra - BOUAZIZ, Fatma - NEIFER, Mohamed - GHORBEL, Raoudha - CHAABOUNI, Semia Ellouz. Production of xylooligosaccharides from garlic straw xylan by purified xylanase

- from *Bacillus mojavensis* UEB-FK and their in vitro evaluation as prebiotics. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2015, vol. 94, no., pp. 536-546., Registrované v: WOS
42. [1.1] KALLEL, Fatma - DRISS, Dorra - CHAABOUNI, Semia Ellouz - GHORBEL, Raoudha. Biological Activities of Xylooligosaccharides Generated from Garlic Straw Xylan by Purified Xylanase from *Bacillus mojavensis* UEB-FK. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 175, no. 2, pp. 950-964., Registrované v: WOS
43. [1.1] KAMBLE, Prajakta P. - SURYAWANSHI, Suresh S. - JADHAV, Jyoti P. - ATTAR, Yasmin C. Enhanced inulinase production by *Fusarium solani* JALPK from invasive weed using response surface methodology. In *JOURNAL OF MICROBIOLOGICAL METHODS*. ISSN 0167-7012, 2019, vol. 159, no., pp. 99-111., Registrované v: WOS
44. [1.1] KAN, Yelena - LENSU, Lasse - HEHL, Gregor - VOLKMER, Andreas - VARTIAINEN, Erik M. Wavelet prism decomposition analysis applied to CARS spectroscopy: a tool for accurate and quantitative extraction of resonant vibrational responses. In *OPTICS EXPRESS*. ISSN 1094-4087, 2016, vol. 24, no. 11, pp. 1905-1916., Registrované v: WOS
45. [1.1] KAN, Zigui - YAN, Xiufen - MA, Jing. Conformation Dynamics and Polarization Effect of alpha,alpha-Trehalose in a Vacuum and in Aqueous and Salt Solutions. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2015, vol. 119, no. 9, pp. 1573-1589., Registrované v: WOS
46. [1.1] KHATRI, Kusum - RATHORE, Mangal S. - AGRAWAL, Surabhi - JHA, Bhavanath. Sugar contents and oligosaccharide mass profiling of selected red seaweeds to assess the possible utilization of biomasses for third-generation biofuel production. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2019, vol. 130, no., pp., Registrované v: WOS
47. [1.1] KIM, Eun-Ju - CHOI, Mingi - PARK, Hyeon Yeong - HWANG, Ji Young - KIM, Hyung-Eun - HONG, Seok Won - LEE, Jaesang - YONG, Kijung - KIM, Wooyul. Thorn-like TiO₂ nanoarrays with broad spectrum antimicrobial activity through physical puncture and photocatalytic action. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
48. [1.1] KONG, Lingyan - STAPLETON, Joshua J. - ZIEGLER, Gregory R. Characterization of macromolecular orientation in kappa-carrageenan fibers using polarized Fourier-transform infrared spectroscopy. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2018, vol. 94, no., pp. 61-65., Registrované v: WOS
49. [1.1] KOSKI, Caitlin - BOSE, Susmita. Effects of amylose content on the mechanical properties of starch-hydroxyapatite 3D printed bone scaffolds. In *ADDITIVE MANUFACTURING*. ISSN 2214-8604, 2019, vol. 30, no., pp., Registrované v: WOS
50. [1.1] KUANYISHEV, Nurzhan - AMI, Diletta - SIGNORI, Lorenzo - PORRO, Danilo - MORRISSEY, John P. - BRANDUARDI, Paola. Assessing physio-macromolecular effects of lactic acid on *Zygosaccharomyces bailii* cells during microaerobic fermentation. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2016, vol. 16, no. 5, pp., Registrované v: WOS
51. [1.1] LIOU, Je-Wen - HUNG, Yu-Jiun - YANG, Chin-Hao - CHEN, Yi-Cheng. The Antimicrobial Activity of Gramicidin A Is Associated with

- Hydroxyl Radical Formation. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 1, pp., Registrované v: WOS
52. [1.1] LI, Cai-xia - LIU, Ying-ying - FENG, Hai-sheng - MA, Shi-zhen. Effect of superfine grinding on the physicochemical properties of bulbs of *Fritillaria unibracteata* Hsiao et K.C. Hsia powder. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2019, vol. 7, no. 11, pp. 3527-3537., Registrované v: WOS
53. [1.1] LI, Xiao - DONG, Yi - GUO, Yan - ZHANG, Zihan - JIA, Lirong - GAO, Hong - XING, Zhihua - DUAN, Feixia. Okra polysaccharides reduced the gelling-required sucrose content in its synergistic gel with high-methoxyl pectin by microphase separation effect. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 95, no., pp. 506-516., Registrované v: WOS
54. [1.1] LU, Hao - XIONG, Liu - LI, Man - CHEN, Haihua - XIAO, Junxia - WANG, Shiqing - QIU, Lizhong - BIAN, Xiliang - SUN, Chunrui - SUN, Qingjie. Separation and characterization of linear glucans debranched from normal corn, potato and sweet potato starches. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 89, no., pp. 196-206., Registrované v: WOS
55. [1.1] MAIA, Lenize F. - GONZAGA, Tatiani A. - CARVALHO, Rafael G. - LEITE, Camila M. - LOBO-HAJDU, Gisele - AGUIAR, Jair A. K. - EDWARDS, Howell G. M. - DE OLIVEIRA, Luiz F. C. Monitoring of sulfated polysaccharide content in marine sponges by Raman spectroscopy. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2016, vol. 87, no., pp. 149-156., Registrované v: WOS
56. [1.1] MAKSHAKOVA, Olga N. - FAIZULLIN, Dzhigangir A. - MIKSHINA, Polina V. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Spatial structures of rhamnogalacturonan I in gel and colloidal solution identified by 1D and 2D-FTIR spectroscopy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 192, no., pp. 231-239., Registrované v: WOS
57. [1.1] MENG, Yeqiao - YE, Lin. Synthesis and swelling property of superabsorbent starch grafted with acrylic acid/2-acrylamido-2-methyl-1-propanesulfonic acid. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2017, vol. 97, no. 11, pp. 3831-3840., Registrované v: WOS
58. [1.1] MIRZAEI, Bahman - MOOSAVI, Seyed Fazlollah - BABAEI, Ryhane - SIADAT, Seyed Davar - VAZIRI, Farzam - SHAHROOEI, Mohammad. Purification and Evaluation of Polysaccharide Intercellular Adhesion (PIA) Antigen from *Staphylococcus epidermidis*. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2016, vol. 73, no. 5, pp. 611-617., Registrované v: WOS
59. [1.1] MYRON, Pang - SIDDIQUEE, Shafiquzzaman - AL AZAD, Sujjat. Partial structural studies of fucosylated chondroitin sulfate (FuCS) using attenuated total reflection fourier transform infrared spectroscopy (ATR-FTIR) and chemometrics. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2017, vol. 89, no., pp. 26-36., Registrované v: WOS
60. [1.1] NAGY, Elena Mihaela - TODICA, Mihai - CIOICA, Nicolae - COTA, Constantin - NICULAESCU, Carmen. IR Investigation of Some Degraded Starch Based Biopolymers. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2018, vol. 5, no. 8, pp. 15902-15908., Registrované v: WOS

61. [1.1] NAGY, E. M. - COTA, C. - CIOICA, N. - GYORGY, Z. - TODICA, M. - COZAR, O. FT-IR Investigation of Starch Based Composite Reinforced with Miscanthus Fibers. In 11TH INTERNATIONAL CONFERENCE OF PROCESSES IN ISOTOPES AND MOLECULES (PIM 2017). ISSN 0094-243X, 2017, vol. 1917, no., pp., Registrované v: WOS
62. [1.1] NGUYEN, Danny M. T. - ZHANG, Zhanying - DOHERTY, William O. S. Degradation of Hydroxycinnamic Acid Mixtures in Aqueous Sucrose Solutions by the Fenton Process. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 5, pp. 1582-1592., Registrované v: WOS
63. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS
64. [1.1] PEREZ-MASIA, Rocio - LOPEZ-NICOLAS, Ruben - JESUS PERIAGO, Maria - ROS, Gaspar - LAGARON, Jose M. - LOPEZ-RUBIO, Amparo. Encapsulation of folic acid in food hydrocolloids through nanospray drying and electrospraying for nutraceutical applications. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 168, no., pp. 124-133., Registrované v: WOS
65. [1.1] POURFARZAD, Amir - AHMADIAN, Zahra - HABIBI-NAJAFI, Mohammad B. Interactions between polyols and wheat biopolymers in a bread model system fortified with inulin: A Fourier transform infrared study. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 12, pp., Registrované v: WOS
66. [1.1] POURFARZAD, Amir - NAJAFI, Mohammad B. Habibi - KHODAPARAST, Mohammad H. Haddad - KHAYYAT, Mohammad Hassanzadeh. Serish inulin and wheat biopolymers interactions in model systems as a basis for understanding the impact of inulin on bread properties: a FTIR investigation. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2015, vol. 52, no. 12, pp. 7964-7973., Registrované v: WOS
67. [1.1] REYES, Guillermo - BORGHEI, Maryam - KING, Alistair W. T. - LAHTI, Johanna - ROJAS, Orlando J. Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 1, pp. 502-514., Registrované v: WOS
68. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (*Medicago sativa* (Fabaceae)) of Flora of Krasnoyarsk Krai. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS
69. [1.1] RUETERING, Marius - SCHMID, Jochen - RUEHMANN, Broder - SCHILLING, Martin - SIEBER, Volker. Controlled production of polysaccharides-exploiting nutrient supply for levan and heteropolysaccharide formation in *Paenibacillus* sp. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 148, no., pp. 326-334., Registrované v: WOS
70. [1.1] RUGGIERO, Ludovica - SODO, Armida - BRUNI, Fabio - RICCI, Maria Antonietta. Hydration of monosaccharides studied by Raman scattering. In JOURNAL OF RAMAN SPECTROSCOPY. ISSN 0377-0486, 2018, vol. 49, no. 6, pp. 1066-1075., Registrované v: WOS

71. [1.1] SABERI, Bahareh - CHOCKCHAI SAWASDEE, Suwimol - GOLDING, John B. - SCARLETT, Christopher J. - STATHOPOULOS, Costas E. Physical and mechanical properties of a new edible film made of pea starch and guar gum as affected by glycols, sugars and polyols. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 345-359., Registrované v: WOS
72. [1.1] SANCHEZ, Patricia M. - PAULI, Elis D. - SCHEEL, Guilherme L. - RAKOCEVIC, Miroslava - BRUNS, Roy E. - SCARMINIO, Ieda S. Irrigation and Light Access Effects on Coffea arabica L. Leaves by FTIR-Chemometric Analysis. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2018, vol. 29, no. 1, pp. 168-176., Registrované v: WOS
73. [1.1] SE, Kuan Wei - GHOSHAL, Sib Krishna - WAHAB, Roswanira Abdul - IBRAHIM, Raja Kamarulzaman Raja - LANI, Mohd Nizam. A simple approach for rapid detection and quantification of adulterants in stingless bees (Heterotrigona itama) honey. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 105, no., pp. 453-460., Registrované v: WOS
74. [1.1] SHI YAN - SUN KEN - QI XUEBIN - GAO QING. The Fabrication of Bio-ceramsite for the Removal of Heavy Metals and Its Toxicity to Bacteria. In JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION. ISSN 1000-2413, 2015, vol. 30, no. 3, pp. 649-654., Registrované v: WOS
75. [1.1] SHIRAGA, Keiichiro - ADACHI, Aya - NAKAMURA, Masahito - TAJIMA, Takuro - AJITO, Katsuhiko - OGAWA, Yuichi. Characterization of the hydrogen-bond network of water around sucrose and trehalose: Microwave and terahertz spectroscopic study. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2017, vol. 146, no. 10, pp., Registrované v: WOS
76. [1.1] SHIVARAJU, Vasanth Kumar - APPUKUTTAN, Sajeevkumar Vallayil - KUMAR, Sunny. The Influence of Bound Water on the FTIR Characteristics of Starch and Starch Nanocrystals Obtained from Selected Natural Sources. In STARCH-STARKE. ISSN 0038-9056, 2019, vol. 71, no. 5-6, pp., Registrované v: WOS
77. [1.1] SINGH, Inderjeet - GOYAL, Yasmeen - RANAWAT, Pavitra. Potential chemoprotective role of resveratrol against cisplatin induced testicular damage in mice. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2017, vol. 273, no., pp. 200-211., Registrované v: WOS
78. [1.1] SINGH, Ram Sarup - KAUR, Navpreet - SHARMA, Radhika - RANA, Vikas. Carbamoyl ethyl pullulan: QbD based synthesis, characterization and corneal wound healing potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2245-2255., Registrované v: WOS
79. [1.1] SINGH, Ram Sarup - KAUR, Navpreet - SINGH, Dhandeep - KENNEDY, John F. Investigating aqueous phase separation of pullulan from Aureobasidium pullulans and its characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 223, no., pp., Registrované v: WOS
80. [1.1] SRITHAM, Eakasit - GUNASEKARAN, Sundaram. FTIR spectroscopic evaluation of sucrose-maltodextrin-sodium citrate bioglass. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 70, no., pp. 371-382., Registrované v: WOS

81. [1.1] SUBRAMANIAM, Shankar - SIVASUBRAMANIAN, Aravind. An alternative green separation process for the pure isolation of commercially important bioactive molecules from plants. In GREEN PROCESSING AND SYNTHESIS. ISSN 2191-9542, 2017, vol. 6, no. 2, pp. 235-244., Registrované v: WOS
82. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS
83. [1.1] SU, Yuwen - ZHENG, Xufeng - ZHAO, Qiang - FU, Nan - XIONG, Hua - WU, Winston Duo - CHEN, Xiao Dong. Spray drying of *Lactobacillus rhamnosus* GG with calcium-containing protectant for enhanced viability. In POWDER TECHNOLOGY. ISSN 0032-5910, 2019, vol. 358, no., pp. 87-94., Registrované v: WOS
84. [1.1] TANG, Jinqiang - ZHU, Liangfang - FU, Xing - DAI, Jinhang - GUO, Xiawei - HU, Changwei. Insights into the Kinetics and Reaction Network of Aluminum Chloride-Catalyzed Conversion of Glucose in NaCl-H₂O/THF Biphasic System. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 1, pp. 256-266., Registrované v: WOS
85. [1.1] TAREB, R. - BERNARDEAU, M. - AMIEL, C. - VERNOUX, J. P. Usefulness of FTIR spectroscopy to distinguish rough and smooth variants of *Lactobacillus farciminis* CNCM-I-3699. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, 2017, vol. 364, no. 3, pp., Registrované v: WOS
86. [1.1] THIRUMAL, V. - CHISTOSERDOV, A. - BAJPAI, R. - BADER, J. - POPOVIC, M. K. - SUBRAMANIAM, R. Effect of Developed Low Cost Minimal Medium on Lipid and Exopolysaccharide Production by *Lipomyces starkeyi* Under Repeated Fed-batch and Continuous Cultivation. In CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY. ISSN 0352-9568, 2019, vol. 32, no. 4, pp. 473-481., Registrované v: WOS
87. [1.1] TODICA, Mihai - CIOICA, Nicolae - OLAR, Loredana Elena - PAPUC, Ionel - COTA, Constantin - MARIN, Eugen - MANEA, Dragos - NAGY, Elena Mihaela. Preliminary XRD and IR investigation of some starch based biodegradable systems. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2016, vol. 21, no. 5, pp. 11825-11831., Registrované v: WOS
88. [1.1] VAZQUEZ-CAMPOS, Xabier - KINSELA, Andrew S. - COLLINS, Richard N. - NEILAN, Brett A. - AOYAGI, Noboru - WAITE, T. David. Uranium Binding Mechanisms of the Acid-Tolerant Fungus *Coniochaeta fodinicola*. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2015, vol. 49, no. 14, pp. 8487-8496., Registrované v: WOS
89. [1.1] WANG, Hualin - LV, Jian - JIANG, Suwei - NIU, Baicheng - PANG, Min - JIANG, Shaotong. Preparation and characterization of porous corn starch and its adsorption toward grape seed proanthocyanidins. In STARCH-STARKE. ISSN 0038-9056, 2016, vol. 68, no. 11-12, pp. 1254-1263., Registrované v: WOS
90. [1.1] WANG, Xing-Quan - ZHOU, Ren-Wu - DE GROOT, Gerard - BAZAKA, Kateryna - MURPHY, Anthony B. - OSTRIKOV, Kostya (Ken). Spectral characteristics of cotton seeds treated by a dielectric barrier discharge plasma. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp.,

Registrované v: WOS

91. [1.1] WIERCIGROCH, Ewelina - SZAFRANIEC, Ewelina - CZAMARA, Krzysztof - PACIA, Marta Z. - MAJZNER, Katarzyna - KOCHAN, Kamila - KACZOR, Agnieszka - BARANSKA, Malgorzata - MALEK, Kamilla. Raman and infrared spectroscopy of carbohydrates: A review. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2017, vol. 185, no., pp. 317-335.,

Registrované v: WOS

92. [1.1] WU, Zhengzong - XU, Enbo - LONG, Jie - WANG, Fang - XU, Xueming - JIN, Zhengyu - JIAO, Aiquan. Measurement of fermentation parameters of Chinese rice wine using Raman spectroscopy combined with linear and non-linear regression methods. In FOOD CONTROL. ISSN 0956-7135, 2015, vol. 56, no., pp. 95-102., Registrované v: WOS

93. [1.1] XU, Ningning - LIU, Jianxin - YU, Peiqiang. Using vibrational molecular spectroscopy with chemometrics as an analytical method to investigate association of degradation with inherent molecular structures in grain. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2019, vol. 208, no., pp. 331-338.,

Registrované v: WOS

94. [1.1] ZHANG, Zhi-Peng - SHEN, Can-Can - GAO, Fu-Li - WEI, Hui - REN, Di-Feng - LU, Jun. Isolation, Purification and Structural Characterization of Two Novel Water-Soluble Polysaccharides from Anredera cordifolia. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS

95. [1.2] AGUIRRE CALVO, Tatiana - SANTAGAPITA, Patricio. Physicochemical Characterization of Alginate Beads Containing Sugars and Biopolymers. In Journal of Quality and Reliability Engineering. ISSN 23148055, 2016-01-01, 2016, pp., Registrované v: SCOPUS

96. [1.2] GHOLAMI, Sanaz Amir - GOLI, Hamid Reza - HAGHSHENAS, Mohammad Reza - MIRZAEI, Bahman. Evaluation of polysaccharide intercellular adhesion (PIA) and glycerol teichoic acid (Gly-TA) arisen antibodies to prevention of biofilm formation in Staphylococcus aureus and Staphylococcus epidermidis strains. In BMC Research Notes, 2019-10-25, 12, 1, pp., Registrované v: SCOPUS

97. [1.2] HUANG, Cao Xing - HE, Juan - MIN, Dou Yong - LI, Xin - YONG, Qiang. Isolation and characterization of hemicellulose from Moso bamboo green and bamboo yellow. In Chemistry and Industry of Forest Products. ISSN 02532417, 2015-01-01, 35, 5, pp. 29-36., Registrované v: SCOPUS

98. [1.2] KANOUE, Mikihiro - KAMEOKA, Takaharu - SUEHARA, Ken Ichiro - HASHIMOTO, Atsushi. Mid-infrared spectroscopic analysis of saccharides in aqueous solutions with sodium chloride. In Bioscience, Biotechnology and Biochemistry. ISSN 09168451, 2017-01-01, 81, 4, pp. 735-742., Registrované v: SCOPUS

99. [1.2] KOPPLIN, Georg - ROKSTAD, Anne Mari - MÉLIDA, Hugo - BULONE, Vincent - SKJÅK-BRÆK, Gudmund - AACHMANN, Finn Lillelund. Structural Characterization of Fucoidan from Laminaria hyperborea: Assessment of Coagulation and Inflammatory Properties and Their Structure-Function Relationship. In ACS Applied Bio Materials, 2018-12-17, 1, 6, pp. 1880-1892., Registrované v: SCOPUS

100. [1.2] REZVANI AMIN, Zohreh - KHASHYARMANESH, Zahra - FAZLY BAZZAZ, Bibi Sedigheh. Different behavior of Staphylococcus

epidermidis in intracellular biosynthesis of silver and cadmium sulfide nanoparticles: more stability and lower toxicity of extracted nanoparticles. In *World Journal of Microbiology and Biotechnology*. ISSN 09593993, 2016-09-01, 32, 9, pp., Registrované v: SCOPUS

101. [1.2] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seeding medicago sativa (fabaceae) flora of the Krasnoyarsk territory. In *Khimiya Rastitel'nogo Syr'ya*. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS

102. [1.2] SELMIN, Francesca - FRANCESCHINI, Ilaria - CUPONE, Irma E. - MINGHETTI, Paola - CILURZO, Francesco. Aminoacids as non-traditional plasticizers of maltodextrins fast-dissolving films. In *Carbohydrate Polymers*. ISSN 01448617, 2015-01-22, 115, pp. 613-616., Registrované v: SCOPUS

103. [1.2] SHI, Yan - QI, Xuebin - GAO, Qing. Removal of heavy metals by bacteria in bio-ceramsite and their toxicity to bacteria. In *Asian Journal of Chemistry*. ISSN 09707077, 2015-07-01, 27, 7, pp. 2463-2467., Registrované v: SCOPUS

104. [3.2] Singh, R. S.; Kaur, Navpreet. Biochemical and molecular characterization of a new pullulan producer *Rhodospiridium paludigenum* PUPY-06. IN *Journal of Applied Biology & Biotechnology*, 2018, vol. 6, iss. 1, p. 28-37, ISSN 2455-7005., Registrované v: BIOSIS Citation Index

ADCA564 KAČURÁKOVÁ, Marta - CAPEK, Peter - SASINKOVÁ, Vlasta - WELLNER, N. - EBRINGEROVÁ, Anna. FT-IR study of plant cell wall model compounds: pectic polysaccharides and hemicelluloses. In *Carbohydrate Polymers*, 2000, vol. 43, p. 195-203. (1999: 0.987 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00151-X](https://doi.org/10.1016/S0144-8617(00)00151-X)

Ohlasy:

1. [1.1] ABBASILIASI, Sahar - TAN, Joo Shun - BELLO, Bashirat - IBRAHIM, Tengku Azmi Tengku - TAM, Yew Joon - ARIFF, Arbakariya - MUSTAFA, Shuhaimi. Prebiotic efficacy of coconut kernel cake's soluble crude polysaccharides on growth rates and acidifying property of probiotic lactic acid bacteria in vitro. In *BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT*. ISSN 1310-2818, 2019, vol. 33, no. 1, pp. 1216-1227., Registrované v: WOS

2. [1.1] ABDEL-FATTAH, W. I. - EID, M. M. - HANAFY, M. F. - HUSSEIN, M. - EL-MOEZ, Sh I. Abd - EL-HALLOUTY, S. M. - MOHAMED, E. Verification of resistance to three mediated microbial strains and cancerous defense against MCF7 compared to HepG2 through microwave synthesized plant-mediated silver nanoparticle. In *ADVANCES IN NATURAL SCIENCES-NANOSCIENCE AND NANOTECHNOLOGY*. ISSN 2043-6254, 2015, vol. 6, no. 3, pp., Registrované v: WOS

3. [1.1] ABDULLAH, Amira Raudhah - HAPIDIN, Hermizi - ABDULLAH, Hasmah. Phytochemical analysis of *Quercus infectoria* galls extracts using FTIR, LC-MS and MS/MS analysis. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2017, vol. 12, no. 12, pp. 55-61., Registrované v: WOS

4. [1.1] ACEMI, Arda - COBANOGLU, Ozmen - TURKER-KAYA,

- Sevgi. FTIR-based comparative analysis of glucomannan contents in some tuberous orchids, and effects of pre-processing on glucomannan measurement. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 7, pp. 3681-3686., Registrované v: WOS
5. [1.1] ACEMI, Arda - TURKER-KAYA, Sevgi - OZEN, Fazil. FT-IR Spectroscopy Based Evaluation of Changes in Primary Metabolites of *Amsonia orientalis* after In vitro 6-benzylaminopurine Treatment. In NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA. ISSN 0255-965X, 2016, vol. 44, no. 1, pp. 209-214., Registrované v: WOS
6. [1.1] ADLER, Sophie - NOIROT, Michel - FOCK-BASTIDE, Isabelle - CITERNE, Sylvie - MOUILLE, Gregory. Variations in cell wall monosaccharide composition during seed development in *Coffea arabica* L. Comparison between *Coffea arabica* var. Bourbon and *Coffea arabica* var. Laurina. In TREES-STRUCTURE AND FUNCTION. ISSN 0931-1890, 2015, vol. 29, no. 6, pp. 1871-1881., Registrované v: WOS
7. [1.1] AGUSTIN-SALAZAR, Sarai - GAMEZ-MEZA, Nohemi - ANGEL MEDINA-JUAREZ, Luis - MALINCONICO, Mario - CERRUTI, Pierfrancesco. Stabilization of Polylactic Acid and Polyethylene with Nutshell Extract: Efficiency Assessment and Economic Evaluation. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 4607-4618., Registrované v: WOS
8. [1.1] AGUSTIN-SALAZAR, Sarai - CERRUTI, Pierfrancesco - ANGEL MEDINA-JUAREZ, Luis - SCARINZI, Gennaro - MALINCONICO, Mario - SOTO-VALDEZ, Herlinda - GAMEZ-MEZA, Nohemi. Lignin and holocellulose from pecan nutshell as reinforcing fillers in poly (lactic acid) biocomposites. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 727-736., Registrované v: WOS
9. [1.1] AKHTAR, Nadeem - GUPTA, Kanika - GOYAL, Dinesh - GOYAL, Arun. LIGNOCELLULOSIC BIOMASS CHARACTERISTICS FOR BIOENERGY APPLICATION: AN OVERVIEW. In ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. ISSN 1582-9596, 2019, vol. 18, no. 2, pp. 367-383., Registrované v: WOS
10. [1.1] AKSOY, Ozlem - TURKER-KAYA, Sevgi - TUTUNOGLU, Burcak. THE EFFECTS OF THE HERBICIDE ROUNDUP ON *ZEA MAYS* L. In FRESenius ENVIRONMENTAL BULLETIN. ISSN 1018-4619, 2019, vol. 28, no. 3, pp. 1693-1700., Registrované v: WOS
11. [1.1] AKWU, N. A. - NAIDOO, Y. - SINGH, M. A comparative study of the proximate, FTIR analysis and mineral elements of the leaves and stem bark of *Grewia lasiocarpa* E.Mey. ex Harv.: An indigenous southern African plant. In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2019, vol. 123, no., pp. 9-19., Registrované v: WOS
12. [1.1] ALEJANDRA LOPEZ-ORTEGA, Mayra - INES RODRIGUEZ-HERNANDEZ, Adriana - CAMACHO-RUIZ, Rosa M. - CORDOVA, Jesus - DEL ROD LOPEZ-CUELLAR, Ma. - CHAVARRIA-HERNANDEZ, Norberto - GONZALEZ-GARCIA, Yolanda. Physicochemical characterization and emulsifying properties of a novel exopolysaccharide produced by haloarchaeon *Haloferax mucosum*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 142, no., pp. 152-162. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.09.087>., Registrované v: WOS

13. [1.1] ALI, Gomaa A. M. - DIVYASHREE, A. - SUPRIYA, S. - CHONG, Kwok Feng - ETHIRAJ, Anita S. - REDDY, M. V. - ALGARNI, H. - HEGDE, Gurumurthy. Carbon nanospheres derived from *Lablab purpureus* for high performance supercapacitor electrodes: a green approach. In DALTON TRANSACTIONS. ISSN 1477-9226, 2017, vol. 46, no. 40, pp. 14034-14044., Registrované v: WOS

14. [1.1] ALMOHAMMED, Fouad - KOUBAA, Mohamed - KHELFA, Anissa - NAKAYA, Matheus - MHEMDI, Houcine - VOROBIEV, Eugene. Pectin recovery from sugar beet pulp enhanced by high-voltage electrical discharges. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2017, vol. 103, no., pp. 95-103., Registrované v: WOS

15. [1.1] ALUWI, Nurul Farhanah Mohd - IBRAHIM, Nor Hayati - HAMZAH, Yusnita - ROZAINI, Mohd Zul Helmi. Chemical and functional properties of rose cactus (*Pereskia bleo*) mucilage as affected by different purification mediums. In ASIAN JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 2307-8553, 2019, vol. 7, no. 1, pp. 10-18., Registrované v: WOS

16. [1.1] AMER, Hassan - NYPELO, Tiina - SULAEVA, Irina - BACHER, Markus - HENNIGES, Ute - POTTHAST, Antje - ROSENAU, Thomas. Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 9, pp. 2972-2980., Registrované v: WOS

17. [1.1] AMORIELLO, Tiziana - CICCORITTI, Roberto - CARBONE, Katya. Vibrational spectroscopy as a green technology for predicting nutraceutical properties and antiradical potential of early-to-late apricot genotypes. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2019, vol. 155, no., pp. 156-166., Registrované v: WOS

18. [1.1] ANDRES-ROBIN, Amelie - REYMOND, Mathieu C. - DUPIRE, Antoine - BATTU, Virginie - DUBRULLE, Nelly - MOUILLE, Gregory - LEFEBVRE, Valerie - PELLOUX, Jerome - BOUDAUD, Arezki - TRAAS, Jan - SCUTT, Charles P. - MONEGER, Francoise. Evidence for the Regulation of Gynoecium Morphogenesis by ETTIN via Cell Wall Dynamics. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1222-1232., Registrované v: WOS

19. [1.1] ANGELINI, Stefania - CERRUTI, Pierfrancesco - SCARINZI, Gennaro - MALINCONICO, Mario. EXTRACTION AND FRACTIONATION OF A LIGNOCELLULOSIC BIOMASS AND ITS USE AS A BIO-FILLER IN POLY(3-HYDROXYBUTYRATE). In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 3-4, pp. 429-437., Registrované v: WOS

20. [1.1] ANGELLINNOV, F. - YUSUF, H. - RAHAYU, D. U. C. - KRISNANDI, Y. K. Conversion of Rice Husks Cellulose to Levulinic Acid on Hierarchical Mn₃O₄/ZSM-5 Catalyst from Natural Aluminosilicate. In 8TH INTERNATIONAL CONFERENCE OF THE INDONESIAN CHEMICAL SOCIETY (ICICS)) 2019. ISSN 0094-243X, 2020, vol. 2243, no., pp. Dostupné na: <https://doi.org/10.1063/5.0001092>., Registrované v: WOS

21. [1.1] ANYIAM, C. K. - OGBIBE, O. - OGUZIE, E. E. - MADUFOR, I. C. - NWANONENYI, S. C. - ONUEGBU, G. C. - OBASI, H. C. - CHIDIEBERE, M. A. Corrosion inhibition of galvanized steel in hydrochloric

- acid medium by a physically modified starch. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 4, pp. Dostupné na: <https://doi.org/10.1007/s42452-020-2322-2>., Registrované v: WOS
22. [1.1] AN, Liangliang - WANG, Guanhua - JIA, Hongyu - LIU, Cuiyun - SUI, Wenjie - SI, Chuanling. Fractionation of enzymatic hydrolysis lignin by sequential extraction for enhancing antioxidant performance. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 674-681., Registrované v: WOS
23. [1.1] ARAYA, Juan A. - CARNEIRO, Renato L. - FREER, Juanita - NEIRA, Jose Y. - CASTILLO, Rosario del P. Fourier transform infrared imaging and quantitative analysis of pre-treated wood fibers: A comparison between partial least squares and multivariate curve resolution with alternating least squares methods in a case study. In CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS. ISSN 0169-7439, 2019, vol. 195, no., pp., Registrované v: WOS
24. [1.1] ASHARUDDIN, Syazwani Mohd - OTHMAN, Norzila - ZIN, Nur Shaylinda Mohd - DIN, Mohd Fadhil Md. - KUMAR, Vicky. Synthesis and Characterization of Dual Properties Coagulant from Natural Precursors for Raw Water Treatment. In INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING. ISSN 2229-838X, 2020, vol. 12, no. 8, pp. 257-267. Dostupné na: <https://doi.org/10.30880/ijie.2020.12.08.025>., Registrované v: WOS
25. [1.1] ASHI, Davoud Salarb - NOGHABI, Mostafa Shahidi - BAZZAZ, Bibi Sedigheh Fazly - SHAHABI-GHAHFARROKHI, Iman - JAFARI, Behrouz - AHMADI, Reza. Eco-friendly soluble soybean polysaccharide/nanoclay Na⁺ bionanocomposite: Properties and characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 524-532., Registrované v: WOS
26. [1.1] ASHRAF, Muhammad Umer - HUSSAIN, Muhammad Ajaz - BASHIR, Sajid - HASEEB, Muhammad Tahir - HUSSAIN, Zakir. Quince seed hydrogel (glucuronoxylan): Evaluation of stimuli responsive sustained release oral drug delivery system and biomedical properties. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2018, vol. 45, no., pp. 455-465., Registrované v: WOS
27. [1.1] ASTORECA, A. - ORTEGA, L. - FIGOLI, C. - CARDOS, M. - CAVAGLIERI, L. - BOSCH, A. - ALCONADA, T. Analytical techniques for deoxynivalenol detection and quantification in wheat destined for the manufacture of commercial products. In WORLD MYCOTOXIN JOURNAL. ISSN 1875-0710, 2017, vol. 10, no. 2, pp. 111-120., Registrované v: WOS
28. [1.1] AZUMA, Wakana A. - NAKASHIMA, Satoru - YAMAKITA, Eri - OHTA, Tamihisa. Water Adsorption to Leaves of Tall Cryptomeria japonica Tree Analyzed by Infrared Spectroscopy under Relative Humidity Control. In PLANTS-BASEL, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091107>., Registrované v: WOS
29. [1.1] BADHAN, Ajay - WANG, Yu-Xi - GRUNINGER, Robert - PATTON, Donald - POWLOWSKI, Justin - TSANG, Adrian - MCALLISTER, Tim A. Improvement in Saccharification Yield of Mixed Rumen Enzymes by Identification of Recalcitrant Cell Wall Constituents Using Enzyme Fingerprinting. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS
30. [1.1] BANERJEE, Pallabi - MUKHERJEE, Shuvam - BERA,

- Kaushik - GHOSH, Kanika - ALI, Imran - KHAWAS, Sadhana - RAY, Bimalendu - RAY, Sayani. Polysaccharides from *Thymus vulgaris* leaf: Structural features, antioxidant activity and interaction with bovine serum albumin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 125, no., pp. 580-587., Registrované v: WOS
31. [1.1] BARANA, Davide - SALANTI, Anika - ORLANDI, Marco - ALI, Danish S. - ZOIA, Luca. Biorefinery process for the simultaneous recovery of lignin, hemicelluloses, cellulose nanocrystals and silica from rice husk and *Arundo donax*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2016, vol. 86, no., pp. 31-39., Registrované v: WOS
32. [1.1] BARBUT, S. - HARPER, A. INFLUENCE OF RELATIVE HUMIDITY ON DRIED CA(++)-ALGINATE FILMS AND COMPOSITES MADE WITH SOY AND PECTIN. In *ITALIAN JOURNAL OF FOOD SCIENCE*. ISSN 1120-1770, 2020, vol. 32, no. 1, pp. 195-208., Registrované v: WOS
33. [1.1] BARI, Ehsan - DARYAEI, Mehrdad Ghodskhah - KARIM, Maryam - BAHMANI, Mohsen - SCHMIDT, Olaf - WOODWARD, Steve - GHANBARY, Mohammad Ali Tajick - SISTANI, Asghar. Decay of *Carpinus betulus* wood by *Trametes versicolor* An anatomical and chemical study. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2019, vol. 137, no., pp. 68-77., Registrované v: WOS
34. [1.1] BARSBERG, S. T. - LEE, Y.I. - RASMUSSEN, H. N. Development of C-lignin with G/S-lignin and lipids in orchid seed coats an unexpected diversity exposed by ATR-FT-IR spectroscopy. In *SEED SCIENCE RESEARCH*. ISSN 0960-2585, 2017, vol. 28, no. 1, pp. 41-51., Registrované v: WOS
35. [1.1] BARSBERG, S. T. - LEE, Y.I. - RASMUSSEN, H. N. Development of C-lignin with G/S-lignin and lipids in orchid seed coats an unexpected diversity exposed by ATR-FT-IR spectroscopy. In *SEED SCIENCE RESEARCH*. ISSN 0960-2585, 2017, vol. 28, no. 1, pp. 41-51., Registrované v: WOS
36. [1.1] BAUM, Andreas - DOMINIAK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS
37. [1.1] BEDNAREK, Piotr T. - ZEBROWSKI, Jacek - ORLOWSKA, Renata. Exploring the Biochemical Origin of DNA Sequence Variation in Barley Plants Regenerated via in Vitro Anther Culture. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 16, pp. Dostupné na: <https://doi.org/10.3390/ijms21165770>., Registrované v: WOS
38. [1.1] BEGUM, Rokeya - YUSOF, Yus Aniza - AZIZ, Mohammad Gulzarul - UDDIN, M. Burhan. Structural and functional properties of pectin extracted from jackfruit (*Artocarpus heterophyllus*) waste: Effects of drying. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no., pp. S190-S201., Registrované v: WOS
39. [1.1] BEHBAHANI, Behrooz Alizadeh - YAZDI, Farideh Tabatabaei - SHAHIDI, Fakhri - HESARINEJAD, Mohammad Ali - MORTAZAVI, Seyed

- Ali - MOHEBBI, Mohebbat. Plantago major seed mucilage: Optimization of extraction and some physicochemical and rheological aspects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 68-77., Registrované v: WOS
40. [1.1] BELLO, Bashirat - MUSTAFA, Shuhaimi - TAN, Joo Shun - IBRAHIM, Tengku Azmi Tengku - TAM, Yew Joon - ARIFF, Arbakariya B. - MANAP, Mohd Yazid - ABBASILIASI, Sahar. Evaluation of the effect of soluble polysaccharides of palm kernel cake as a potential prebiotic on the growth of probiotics. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
41. [1.1] BELTRAME, Gabriele - TRYGG, Jani - RAHKILA, Jani - LEINO, Reko - YANG, Baoru. Structural investigation of cell wall polysaccharides extracted from wild Finnish mushroom *Craterellus tubaeformis* (Funnel Chanterelle). In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 301, no., pp., Registrované v: WOS
42. [1.1] BEN SALEM, Yosra - AMRI, Safa - HAMMI, Khaoula Mkadmini - ABDELHAMID, Amal - LE CERF, Didier - BOURAOUI, Abderrahman - MAJDOUB, Hatem. Physico-chemical characterization and pharmacological activities of sulfated polysaccharide from sea urchin, *Paracentrotus lividus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, no., pp. 8-15., Registrované v: WOS
43. [1.1] BENDAOUD, Amine - KEHRBUSCH, Rene - BARANOV, Anton - DUCHEMIN, Benoit - MAIGRET, Jean Eudes - FALOURD, Xavier - STAIGER, Mark P. - CATHALA, Bernard - LOURDIN, Denis - LEROY, Eric. Nanostructured cellulose-xyloglucan blends via ionic liquid/water processing. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 168, no., pp. 163-172., Registrované v: WOS
44. [1.1] BENDAOUD, Amine - MAIGRET, Jean-Eudes - LEROY, Eric - CATHALA, Bernard - LOURDIN, Denis. Cellulose-Xyloglucan Composite Film Processing Using Ionic Liquids as Co-Solvents. In PROCEEDINGS OF PPS-32: THE 32ND INTERNATIONAL CONFERENCE OF THE POLYMER PROCESSING SOCIETY. ISSN 0094-243X, 2017, vol. 1914, no., pp., Registrované v: WOS
45. [1.1] BEREKSI, Zoubida Senouci - BENAÏSSA, Houcine. SPOTTED GOLDEN THISTLE STALKS AS A NOVEL LOW-COST SORBENT FOR METHYLENE BLUE SORPTION FROM SYNTHETIC AQUEOUS SOLUTIONS: EQUILIBRIUM AND KINETICS STUDIES. In ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. ISSN 1582-9596, 2019, vol. 18, no. 3, pp. 737-747., Registrované v: WOS
46. [1.1] BEREZIN, K. V. - LIKHTER, A. M. - SHAGAUTDINOVA, I. T. - CHERNAVINA, M. L. - NOVOSELOVA, A. V. FT-IR and DFT study of lemon peel. In SARATOV FALL MEETING 2016 OPTICAL TECHNOLOGIES IN BIOPHYSICS AND MEDICINE XVIII. ISSN 0277-786X, 2017, vol. 10336, no., pp., Registrované v: WOS
47. [1.1] BEREZIN, K. V. - SHAGAUTDINOVA, I. T. - CHERNAVINA, M. L. - NOVOSELOVA, A. V. - DVORETSKII, K. N. - LIKHTER, A. M. The experimental vibrational infrared spectrum of lemon peel and simulation of spectral properties of the plant cell wall. In OPTICS AND SPECTROSCOPY. ISSN 0030-400X, 2017, vol. 123, no. 3, pp. 495-500.,

Registrowané v: WOS

48. [1.1] BET, Camila Delinski - DE OLIVEIRA, Cristina Soltovski - DENCK COLMAN, Tiago Andre - BASSETTO BISINELLA, Radla Zabian - BENINCA, Cleoci - LACERDA, Luiz Gustavo - PUMACAHUA RAMOS, Augusto - SCHNITZLER, Egon. Aqueous extraction of organic amaranth starch and their by-products Characterisation before and after degreasing. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2019, vol. 138, no. 4, pp. 2733-2749., Registrowané v: WOS

49. [1.1] BHIMA, A. Naidu - PARK, J.H. - CHO, M. - OH, S.G. - MYUNG, H. - KAMALA-KANNAN, S. - OH, B.T. Processing of Soju Industrial Bioresidue to Extract Microcrystalline Cellulose and Characterization. In INTERNATIONAL POLYMER PROCESSING. ISSN 0930-777X, 2015, vol. 30, no. 3, pp. 337-343., Registrowané v: WOS

50. [1.1] BILGIC, E. - YAMAN, S. - HAYKIRI-ACMA, H. - KUCUKBAYRAK, S. Limits of variations on the structure and the fuel characteristics of sunflower seed shell through torrefaction. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2016, vol. 144, no., pp. 197-202., Registrowané v: WOS

51. [1.1] BLANCO, Kate Cristina - DOS SANTOS, Francisco Jose - JAFELICCI JUNIOR, Miguel - PALMUTI BRAGA VETTORI, Mary Helen - MARTINS FRANCHETTI, Sandra Mara - CONTIERO, Jonas. Sub-micrometric and nanometric solid phases obtained through reductive decomposition reaction of beta-cyclodextrin. In TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI. ISSN 0250-4685, 2015, vol. 40, no. 5, pp. 348-355., Registrowané v: WOS

52. [1.1] BORCHANI, Chema - FONTEYN, Fabienne - JAMIN, Guilhem - PAQUOT, Michel - THONART, Philippe - BLECKER, Christophe. Physical, functional and structural characterization of the cell wall fractions from baker's yeast *Saccharomyces cerevisiae*. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 194, no., pp. 1149-1155., Registrowané v: WOS

53. [1.1] BORSA, Judit - LASZLO, Krisztina - BOGUSLAVSKY, Lydia - TAKACS, Erzsebet - RACZ, Ilona - TOTH, Tunde - SZABO, David. Effect of mild alkali/ultrasound treatment on flax and hemp fibres: the different responses of the two substrates. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 3, pp. 2117-2128., Registrowané v: WOS

54. [1.1] BRAHEM, Marwa - RENARD, Catherine M. G. C. - GOUBLE, Barbara - BUREAU, Sylvie - LE BOURVELLEC, Carine. Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 152-164., Registrowané v: WOS

55. [1.1] BRAVO, Soraya - JOSE PARRA, Maria - CASTILLO, Rosario - SEPULVEDA, Francisco - TURNER, Aileen - BERTIN, Ariana - OSORIO, German - TERESZCZUK, Joanna - BRUNA, Carola - HASBUN, Rodrigo. Reversible in vivo cellular changes occur during desiccation and recovery: Desiccation tolerance of the resurrection filmy fern *Hymenophyllum dentatum* Cav. In GAYANA BOTANICA. ISSN 0717-6643, 2016, vol. 73, no. 2, pp. 402-413., Registrowané v: WOS

56. [1.1] BULOTA, Mindaugas - BUDTOVA, Tatiana. PLA/algae composites: Morphology and mechanical properties. In COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, 2015,

vol. 73, no., pp. 109-115., Registrované v: WOS

57. [1.1] BUTLER, Holly J. - ADAMS, Steven - MCAINSH, Martin R. - MARTIN, Francis L. Detecting nutrient deficiency in plant systems using synchrotron Fourier-transform infrared microspectroscopy. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2017, vol. 90, no., pp. 46-55., Registrované v: WOS

58. [1.1] BUTLER, Holly J. - MCAINSH, Martin R. - ADAMS, Steven - MARTIN, Francis L. Application of vibrational spectroscopy techniques to non-destructively monitor plant health and development. In ANALYTICAL METHODS. ISSN 1759-9660, 2015, vol. 7, no. 10, pp. 4059-4070., Registrované v: WOS

59. [1.1] CACICEDO, Maximiliano L. - LEON, Ignacio E. - GONZALEZ, Jimena S. - PORTO, Luismar M. - ALVAREZ, Vera A. - CASTRO, Guillermo R. Modified bacterial cellulose scaffolds for localized doxorubicin release in human colorectal HT-29 cells. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2016, vol. 140, no., pp. 421-429., Registrované v: WOS

60. [1.1] CACICEDO, Maximiliano L. - ISLAN, German A. - FLORENCIA DRACHEMBERG, M. - ALVAREZ, Vera A. - BARTEL, Laura C. - BOLZAN, Alejandro D. - CASTRO, Guillermo R. Hybrid bacterial cellulose-pectin films for delivery of bioactive molecules. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2018, vol. 42, no. 9, pp. 7457-7467., Registrované v: WOS

61. [1.1] CAI, Qian - FAN, Zhaosheng - CHEN, Jianbo - GUO, Wenji - MA, Fang - SUN, Suqin - HU, Liming - ZHOU, Qun. Dissolving process of bamboo powder analyzed by FT-IR spectroscopy. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2018, vol. 1171, no., pp. 639-643., Registrované v: WOS

62. [1.1] CAMPESTRINI, Luciano Henrique - RASERA, Gabriela Boscariol - DE CAMARGO, Adriano Costa - FRANCHIN, Marcelo - NANI, Bruno Dias - ROSALEN, Pedro Luiz - CANNIATTI-BRAZACA, Solange Guidolin - TELLES BIASOTO, Aline Camarao - SHAHIDI, Fereidoon - ALENCAR, Severino Matias. Alkaline conditions better extract anti-inflammatory polysaccharides from winemaking by-products. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108532>., Registrované v: WOS

63. [1.1] CAO, Cong - YANG, Zengling - HAN, Lujia - JIANG, Xunpeng - JI, Guanya. Study on in situ analysis of cellulose, hemicelluloses and lignin distribution linked to tissue structure of crop stalk internodal transverse section based on FTIR microspectroscopic imaging. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 139-149., Registrované v: WOS

64. [1.1] CARBALLO-MEILAN, Ara - GOODMAN, Adrian M. - BARON, Mark G. - GONZALEZ-RODRIGUEZ, Jose. Application of chemometric analysis to infrared spectroscopy for the identification of wood origin. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 1, pp. 901-913., Registrované v: WOS

65. [1.1] CARPITA, Nicholas C. - MCCANN, Maureen C. Characterizing visible and invisible cell wall mutant phenotypes. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 14, pp.

4145-4163., Registrované v: WOS

66. [1.1] CASTRO, Ricardo I. - MORALES-QUINTANA, Luis. Study of the cell wall components produced during different ripening stages through thermogravimetric analysis. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3009-3020., Registrované v: WOS

67. [1.1] CECILIA PORFIRI, Maria - RICARDO WAGNER, Jorge. Extraction and characterization of soy hull polysaccharide-protein fractions. Analysis of aggregation and surface rheology. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 79, no., pp. 40-47., Registrované v: WOS

68. [1.1] CIZOVA, Alzbeta - CSOMOROVA, Katarina - RYCHLY, Jozef - BYSTRICKY, Slavomir. Stability of cationic and amphoteric derivatives of mannan from the yeast *Candida albicans*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 440-446., Registrované v: WOS

69. [1.1] CIZOVA, Alzbeta - NESCAKOVA, Zuzana - MALOVIKOVA, Anna - BYSTRICKY, Slavomir. Preparation and characterization of cationic and amphoteric mannans from *Candida albicans*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 149, no., pp. 1-7., Registrované v: WOS

70. [1.1] COBS-ROSAS, M. - CONCHA-OLMOS, J. - WEINSTEIN-OPPENHEIMER, C. - ZUNIGA-HANSEN, M. E. Assessment of antiproliferative activity of pectic substances obtained by different extraction methods from rapeseed cake on cancer cell lines. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 923-932., Registrované v: WOS

71. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsippanthes chamaedrys* (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

72. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER, Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia.

Gastroprotective effects and structural characterization of a pectic fraction isolated from *Artemisia campestris* subsp. *maritima*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS

73. [1.1] CORSELLO, F. A. - BOLLA, P. A. - ANBINDER, P. S. - SERRADELL, M. A. - AMALVY, J. I. - PERUZZO, P. J. Morphology and properties of neutralized chitosan-cellulose nanocrystals biocomposite films. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 452-459., Registrované v: WOS

74. [1.1] COUTO, Ricardo - WONG, Emily - SEIFRIED, Bernhard - YEPEZ, Byron - MOQUIN, Paul - TEMELLI, Feral. Preparation of PGX-dried gum arabic and its loading with coQ10 by adsorptive precipitation. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104662>., Registrované v:

WOS

75. [1.1] CRAIG, Ana Paula - BOTELHO, Bruno G. - OLIVEIRA, Leandro S. - FRANCA, Adriana S. Mid infrared spectroscopy and chemometrics as tools for the classification of roasted coffees by cup quality. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 1052-1061., Registrované v: WOS
76. [1.1] CYBULSKA, Justyna - ZDUNEK, Artur - KOZIO, Arkadiusz. The self-assembled network and physiological degradation of pectins in carrot cell walls. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 43, no., pp. 41-50., Registrované v: WOS
77. [1.1] DA CRUZ, Mabel Ribeiro - SARAIVA MORAIS, Joao Paulo - MUNIZ, Celli Rodrigues - ROSA, Morsyleide de Freitas - MOREIRA DE SOUZA FILHO, Men de Sa - CORDEIRO DE AZEREDO, Henriette Monteiro. Mesquite seed gum and Nile tilapia fish gelatin composite films with cellulose nanocrystals. In *PESQUISA AGROPECUARIA BRASILEIRA*. ISSN 0100-204X, 2018, vol. 53, no. 4, pp. 495-503., Registrované v: WOS
78. [1.1] DAHI, Abdellatif - ABDELLAHI, Bah Mohamed-Lemine - DEIDA, Mohamed Fadel - HUCHER, Nicolas - MALHIAC, Catherine - RENOU, Frederic. Chemical and physicochemical characterizations of the water-soluble fraction of the Commiphora Africana exudate. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2019, vol. 86, no., pp. 2-10., Registrované v: WOS
79. [1.1] DAS, Arijit - DAS, Chandan - GOLDER, Animes K. Evaluation of Physico-Chemical Properties of Dried Aloe Gel: Comparison among Hot Air, Microwave-Assisted and Hybrid Drying Processes. In *NATURAL PRODUCTS JOURNAL*. ISSN 2210-3155, 2016, vol. 6, no. 3, pp. 219-226., Registrované v: WOS
80. [1.1] DAVACHI, Seyed Mohammad - SHEKARABI, Azadeh Sadat. Preparation and characterization of antibacterial, eco-friendly edible nanocomposite films containing Salvia macrosiphon and nanoclay. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 66-72., Registrované v: WOS
81. [1.1] DEMIREL, Fadime - GERMEC, Mustafa - COBAN, Hasan Bugra - TURHAN, Irfan. Optimization of dilute acid pretreatment of barley husk and oat husk and determination of their chemical composition. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 11, pp. 6377-6393., Registrované v: WOS
82. [1.1] DEMIR, Pinar - ONDE, Sertac - SEVERCAN, Feride. Phylogeny of cultivated and wild wheat species using ATR-FTIR spectroscopy. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2015, vol. 135, no., pp. 757-763., Registrované v: WOS
83. [1.1] DENG, Weihua - KENNEDY, James R. - TSILOMELEKIS, George - ZHENG, Weiqing - NIKOLAKIS, Vladimiro. Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2015, vol. 54, no. 19, pp. 5226-5236., Registrované v: WOS
84. [1.1] DEY, Ayan - BERA, Rabin - CHAKRABARTY, Debabrata. Influence of Aloe vera on the properties of N-vinylpyrrolidone-Acrylamide copolymer hydrogel. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, 2015, vol. 168, no., pp. 168-179., Registrované v: WOS

85. [1.1] DIVEKAR, Monali Trimbak - KARUNAKARAN, Chithra - LAHLALI, Rachid - KUMAR, Saroj - CHELLADURAI, Vellaichamy - LIU, Xia - BORONDICS, Ferenc - SHANMUGASUNDARAM, Saravanan - JAYAS, Digvir Singh. Effect of microwave treatment on the cooking and macronutrient qualities of pulses. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no. 2, pp. 409-422., Registrované v: WOS
86. [1.1] DIVYASHREE, A. - MANAF, Shoriya Aruni Bt Abdul - YALLAPPA, S. - CHAITRA, K. - KATHYAYINI, N. - HEGDE, Gurumurthy. Low cost, high performance supercapacitor electrode using coconut wastes: eco-friendly approach. In JOURNAL OF ENERGY CHEMISTRY. ISSN 2095-4956, 2016, vol. 25, no. 5, pp. 880-887., Registrované v: WOS
87. [1.1] DJIKANOVIC, D. - DEVEČERSKI, A. - STEINBACH, G. - SIMONOVIC, J. - MATOVIC, B. - GARAB, G. - KALAUZI, A. - RADOTIC, K. Comparison of macromolecular interactions in the cell walls of hardwood, softwood and maize by fluorescence and FTIR spectroscopy, differential polarization laser scanning microscopy and X-ray diffraction. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 3, pp. 547-566., Registrované v: WOS
88. [1.1] DOU, Zuman - CHEN, Chun - FU, Xiong. The effect of ultrasound irradiation on the physicochemical properties and alpha-glucosidase inhibitory effect of blackberry fruit polysaccharide. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 96, no., pp. 568-576., Registrované v: WOS
89. [1.1] DREISCHMEIER, Katharina - BUDKE, Carsten - WIEHEMEIER, Lars - KOTTKE, Tilman - KOOP, Thomas. Boreal pollen contain ice-nucleating as well as ice-binding 'antifreeze' polysaccharides. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
90. [1.1] DRIEMEIER, Carlos - MENDES, Fernanda M. - LING, Liu Yi. Hydrated fractions of celluloses probed by infrared spectroscopy coupled with dynamics of deuterium exchange. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 152-159., Registrované v: WOS
91. [1.1] DROBEK, Magdalena - FRAC, Magdalena - ZDUNEK, Artur - CYBULSKA, Justyna. The Effect of Cultivation Method of Strawberry (*Fragaria x ananassa* Duch.) cv. Honeoye on Structure and Degradation Dynamics of Pectin during Cold Storage. In MOLECULES, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184325>., Registrované v: WOS
92. [1.1] DURAK, Tomasz - DEPCIUCH, Joanna. Effect of plant sample preparation and measuring methods on ATR-FTIR spectra results. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 169, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2019.103915>., Registrované v: WOS
93. [1.1] DURMAZ, Sefa - OZGENC, Ozlem - BOYACI, Ismail H. - YILDIZ, Umit C. - ERISIR, Emir. Examination of the chemical changes in spruce wood degraded by brown-rot fungi using FT-IR and FT-Raman spectroscopy. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2016, vol. 85, no., pp. 202-207., Registrované v: WOS
94. [1.1] DURMAZ, Sefa - OZGENC, Ozlem - AVCI, Erkan - BOYACI, Ismail Hakki. Weathering performance of waterborne acrylic coating systems on flat-pressed wood-plastic composites. In JOURNAL OF APPLIED POLYMER

SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 14, pp. Dostupné na:
<https://doi.org/10.1002/app.48518>., Registrované v: WOS

95. [1.1] EINHORN-STOLL, Ulrike - KASTNER, Hanna - FATOUROS, Alexandra - KRAEHMER, Andrea - KROH, Lothar W. - DRUSCH, Stephan. Thermal degradation of citrus pectin in low-moisture environment Investigation of backbone depolymerisation. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 107, no., pp. Dostupné na:
<https://doi.org/10.1016/j.foodhyd.2020.105937>., Registrované v: WOS

96. [1.1] EL-AZAZY, Marwa - EL-SHAFIE, Ahmed S. - ELGENDY, Ahmed - ISSA, Ahmed A. - AL-MEER, Saeed - AL-SAAD, Khalid A. A Comparison between Different Agro-wastes and Carbon Nanotubes for Removal of Sarafloxacin from Wastewater: Kinetics and Equilibrium Studies. In MOLECULES, 2020, vol. 25, no. 22, pp. Dostupné na:
<https://doi.org/10.3390/molecules25225429>., Registrované v: WOS

97. [1.1] EMERSON ZAVALTA-GUTIERREZ, Nilthon - ROLANDO POLO-BRICENO, Elmer - SICHE, Raul - MANUEL ANGELATS-SILVA, Luis. Inhibition of corrosion of ASTM A192 steel in hydrochloric acid solution by the mucilage of *Linum usitatissimum*. In MATERIA-RIO DE JANEIRO. ISSN 1517-7076, 2018, vol. 23, no. 2, pp., Registrované v: WOS

98. [1.1] ESPINAL-RUIZ, Mauricio - RESTREPO-SANCHEZ, Luz-Patricia - NARVAEZ-CUENCA, Carlos-Eduardo - MCCLEMENTS, David Julian. Impact of pectin properties on lipid digestion under simulated gastrointestinal conditions: Comparison of citrus and banana passion fruit (*Passiflora tripartita* var. *mollissima*) pectins. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 52, no., pp. 329-342., Registrované v: WOS

99. [1.1] EYIGOR, Aysen - BAHADORI, Fatemeh - YENIGUN, Vildan Betul - EROGLU, Mehmet Sayip. Beta-Glucan based temperature responsive hydrogels for 5-ASA delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 201, no., pp. 454-463., Registrované v: WOS

100. [1.1] FAHEY, Leona M. - NIEUWOUDT, Michel K. - HARRIS, Philip J. Predicting the cell-wall compositions of *Pinus radiata* (radiata pine) wood using ATR and transmission FTIR spectroscopies. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 12, pp. 5275-5293., Registrované v: WOS

101. [1.1] FAN, Mingcong - HU, Ting - ZHAO, Siming - XIONG, Shanbai - XIE, Jing - HUANG, Qilin. Gel characteristics and microstructure of fish myofibrillar protein/cassava starch composites. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 218, no., pp. 221-230., Registrované v: WOS

102. [1.1] FARID-UL-HAQ, Muhammad - HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - NAEEM-UL-HASSAN, Muhammad - HUSSAIN, Syed Zajif - HUSSAIN, Irshad. A smart drug delivery system based on *Artemisia vulgaris* hydrogel: Design, on-off switching, and real-time swelling, transit detection, and mechanistic studies. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2020, vol. 58, no., pp. Dostupné na:
<https://doi.org/10.1016/j.jddst.2020.101795>., Registrované v: WOS

103. [1.1] FARID-UL-HAQ, Muhammad - HUSSAIN, Muhammad Ajaz - HASEEB, Muhammad Tahir - ASHRAF, Muhammad Umer - HUSSAIN, Syed Zajif - TABASSUM, Tahira - HUSSAIN, Irshad - SHER, Muhammad - BUKHARI, Syed Nasir Abbas - NAEEM-UL-HASSAN, Muhammad. A stimuli-responsive, superporous and non-toxic smart hydrogel from seeds of

mugwort (*Artemisia vulgaris*): stimuli responsive swelling/deswelling, intelligent drug delivery and enhanced aceclofenac bioavailability. In RSC ADVANCES, 2020, vol. 10, no. 34, pp. 19832-19843. Dostupné na:

<https://doi.org/10.1039/d0ra03176c>., Registrované v: WOS

104. [1.1] FARNET-DA SILVA, Anne Marie - FERRE, Elisee - DUPUY, Nathalie - DE LA BOUSSINIERE, Auriane - REBUFA, Catherine. Infra-red spectroscopy reveals chemical interactions driving water availability for enzyme activities in litters of typical Mediterranean tree species. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2017, vol. 114, no., pp. 72-81.,

Registrované v: WOS

105. [1.1] FASOLI, Marianna - DELL'ANNA, Rossana - DAL SANTO, Silvia - BALESTRINI, Raffaella - SANSON, Andrea - PEZZOTTI, Mario - MONTI, Francesca - ZENONI, Sara. Pectins, Hemicelluloses and Celluloses Show Specific Dynamics in the Internal and External Surfaces of Grape Berry Skin During Ripening. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2016, vol. 57, no. 6, pp. 1332-1349., Registrované v: WOS

106. [1.1] FATHI, Morteza - EMAM-DJOMEH, Zahra - SADEGHI-VARKANI, Atina. Extraction, characterization and rheological study of the purified polysaccharide from *Lallemantia ibrice* seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 1265-1274., Registrované v: WOS

107. [1.1] FATHI, Morteza - MOHEBBI, Mohebbat - KOOCHEKI, Arash. Introducing *Prunus cerasus* gum exudates: Chemical structure, molecular weight, and rheological properties. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 61, no., pp. 946-955., Registrované v: WOS

108. [1.1] FATHI, Morteza - MOHEBBI, Mohebbat - KOOCHEKI, Arash. Some physico-chemical properties of *Prunus armeniaca* L. gum exudates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 744-750., Registrované v: WOS

109. [1.1] FAZIO, Alessia - LA TORRE, Chiara - CAROLEO, Maria Cristina - CAPUTO, Paolino - PLASTINA, Pierluigi - CIONE, Erika. Isolation and Purification of Glucans from an Italian Cultivar of *Ziziphus jujuba* Mill. and In Vitro Effect on Skin Repair. In MOLECULES, 2020, vol. 25, no. 4, pp. Dostupné na: <https://doi.org/10.3390/molecules25040968>., Registrované v: WOS

110. [1.1] FAZIO, Alessia - LA TORRE, Chiara - DALENA, Francesco - PLASTINA, Pierluigi. Screening of glucan and pectin contents in broad bean (*Vicia faba* L.) pods during maturation. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2020, vol. 246, no. 2, pp. 333-347. Dostupné na: <https://doi.org/10.1007/s00217-019-03347-4>., Registrované v: WOS

111. [1.1] FELGITSCH, Laura - BALOH, Philipp - BURKART, Julia - MAYR, Maximilian - MOMKEN, Mohammad E. - SEIFRIED, Teresa M. - WINKLER, Philipp - SCHMALE, David G. - GROTHE, Hinrich. Birch leaves and branches as a source of ice-nucleating macromolecules. In ATMOSPHERIC CHEMISTRY AND PHYSICS. ISSN 1680-7316, 2018, vol. 18, no. 21, pp. 16063-16079., Registrované v: WOS

112. [1.1] FERNANDEZ, Jorge G. - FERNANDEZ-BALDO, Martin A. - BERNI, Elias - CAMI, Gerardo - DURAN, Nelson - RABA, Julio - SANZ, Maria I. Production of silver nano-particles using yeasts and evaluation of their antifungal activity against phytopathogenic fungi. In PROCESS

- BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 9, pp. 1306-1313.,
Registrované v: WOS
113. [1.1] FERREIRA-LAZARTE, Alvaro - KACHRIMANIDOU, Vasiliki - VILLAMIEL, Mar - RASTALL, Robert A. - JAVIER MORENO, F. In vitro fermentation properties of pectins and enzymatic-modified pectins obtained from different renewable bioresources. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 482-491., Registrované v: WOS
114. [1.1] FILOTHEOU, Andreas - RITZOULIS, Christos - AVGIDOU, Mary - KALOGIANNI, Eleni P. - PAVLOU, Alexandros - PANAYIOTOU, Costas. Novel emulsifiers from olive processing solid waste. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 48, no., pp. 274-281.,
Registrované v: WOS
115. [1.1] FLORES-ALAMO, N. - GOMEZ-ESPINOSA, R. M. - SOLACHE-RIOS, M. - GARCIA-RIVAS, J. L. - ZAVALA-ARCE, R. E. - GARCIA-GAITAN, B. Adsorption behaviour of copper onto a novel modified chitosan material: thermodynamic study. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2016, vol. 57, no. 52, pp. 25080-25088.,
Registrované v: WOS
116. [1.1] FONSECA, Daniela F. S. - COSTA, Paulo C. - ALMEIDA, Isabel F. - DIAS-PEREIRA, Patricia - CORREIA-SA, Ines - BASTOS, Veronica - OLIVEIRA, Helena - DUARTE-ARAUJO, Margarida - MORATO, Manuela - VILELA, Carla - SILVESTRE, Armando J. D. - FREIRE, Carmen S. R. Pullulan microneedle patches for the efficient transdermal administration of insulin envisioning diabetes treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2020.116314>., Registrované v: WOS
117. [1.1] GAIGNARD, Clement - MACAO, Vanessa - GARDARIN, Christine - RIHOUEY, Christophe - PICTON, Luc - MICHAUD, Philippe - LAROCHE, Celine. The red microalga *Flintia sanguinaria* as a new exopolysaccharide producer. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 5, pp. 2803-2814., Registrované v: WOS
118. [1.1] GALLARDO-RIVERA, Raquel - DE LOS ANGELES AGUILAR-SANTAMARIA, Maria - SILVA-BERMUDEZ, Phaedra - GARCIA-LOPEZ, Julieta - TECANTE, Alberto - VELASQUILLO, Cristina - ROMAN-GUERRERO, Angelica - PEREZ-ALONSO, Cesar - VAZQUEZ-TORRES, Humberto - SHIRAI, Keiko. Polyelectrolyte complex of Aloe vera, chitosan, and alginate produced fibroblast and lymphocyte viabilities and migration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 192, no., pp. 84-94., Registrované v: WOS
119. [1.1] GANGOITI, M. V. - PUERTAS, A. I. - HAMET, M. F. - PERUZZO, P. J. - LLAMAS, M. G. - MEDRANO, M. - PRIETO, A. - DUENAS, M. T. - ABRAHAM, A. G. *Lactobacillus plantarum* CIDCA 8327: An alpha-glucan producing-strain isolated from kefir grains. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 170, no., pp. 52-59., Registrované v: WOS
120. [1.1] GAO, Yu - FANGEL, Jonatan U. - WILLATS, William G. T. - VIVIER, Melane A. - MOORE, John P. Dissecting the polysaccharide-rich grape cell wall changes during winemaking using combined high-throughput and fractionation methods. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 567-577., Registrované v: WOS

121. [1.1] GAO, Yuefang - ZHOU, Yubo - ZHANG, Qiang - ZHANG, Kun - PENG, Pai - CHEN, Liangchao - XIAO, Bin. Hydrothermal extraction, structural characterization, and inhibition HeLa cells proliferation of functional polysaccharides from Chinese tea Zhongcha 108. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 39, no., pp. 1-8., Registrované v: WOS
122. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS
123. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS
124. [1.1] GAWORSKI, Michal - JABLONSKI, Slawomir - PAWLACZYK-GRAJA, Izabela - ZIEWIECKI, Rafal - RUTKOWSKI, Piotr - WIECZYNSKA, Anna - GANCARZ, Roman - LUKASZEWICZ, Marcin. Enhancing biogas plant production using pig manure and corn silage by adding wheat straw processed with liquid hot water and steam explosion. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
125. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS
126. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - KIYOHARA, Hiroaki - BATSALOVA, Tsvetelina G. - DZHAMBAZOV, Balik M. - CIZ, Milan - DENEV, Petko N. - YAMADA, Haruki - PAULSEN, Berit S. - VASICEK, Ondrej - LOJEK, Antonin - BARSETT, Hilde - ANTONOVA, Daniela - KRATCHANOVA, Maria G. Acidic polysaccharide complexes from purslane, silver linden and lavender stimulate Peyer's patch immune cells through innate and adaptive mechanisms. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 105, no., pp. 730-740., Registrované v: WOS
127. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin - BATSALOVA, Tsvetelina G. - DZHAMBAZOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS
128. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - YAMADA, Haruki - LOJEK, Antonin - KUSSOVSKI, Vesselin - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. The common lavender (*Lavandula angustifolia* Mill.) pectic polysaccharides modulate phagocytic

leukocytes and intestinal Peyer's patch cells. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 948-959., Registrované v: WOS

129. [1.1] GEORGIOU, D. - MARINOPOULOU, A. - RITZOULIS, C. - PAPASTERGIADIS, E. - KALOGIANNI, E. P. Capillary penetration in cellulose and polyethylene porous media: effect of contact with vapours and partial saturation with a non-miscible liquid. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2015, vol. 483, no., pp. 297-306., Registrované v: WOS

130. [1.1] GERBIN, Elise - FRAPART, Yves-Michel - MARCUELLO, Carlos - COTTYN, Betty - FOULON, Laurence - PERNES, Miguel - CRONIER, David - MOLINARI, Michael - CHABBERT, Brigitte - DUCROT, Paul-Henri - BAUMBERGER, Stephanie - AGUIE-BEGHIN, Veronique - KUREK, Bernard. Dual Antioxidant Properties and Organic Radical Stabilization in Cellulose Nanocomposite Films Functionalized by In Situ Polymerization of Coniferyl Alcohol. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 8, pp. 3163-3175. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00583>., Registrované v: WOS

131. [1.1] GHLISSI, Zohra - KALLEL, Rim - KRICHEN, Fatma - HAKIM, Ahmed - ZEGHAL, Khaled - BOUDAWARA, Tahiya - BOUGATEF, Ali - SAHNOUN, Zouheir. Polysaccharide from Pimpinella anisum seeds: Structural characterization, anti-inflammatory and laser burn wound healing in mice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 156, no., pp. 1530-1538. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.201>., Registrované v: WOS

132. [1.1] GHOBASHY, Mohamed Mohamady - ABD EL-WAHAB, H. - ISMAIL, Mohamed A. - NASER, A. M. - ABDELHAI, Farag - EL-DAMHOUGY, Basem Kh - NADY, Norhan - MEGANID, Abeer S. - ALKHURSANI, Sheikha A. Characterization of Starch-based three components of gamma-ray cross-linked hydrogels to be used as a soil conditioner. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.mseb.2020.114645>., Registrované v: WOS

133. [1.1] GHOSH, Arabinda - VERMA, Anil Kumar - TINGIRIKARI, Jaganmohan Rao - SHUKLA, Rishikesh - GOYAL, Arun. Recovery and Purification of Oligosaccharides from Copra Meal by Recombinant Endo-beta-mannanase and Deciphering Molecular Mechanism Involved and Its Role as Potent Therapeutic Agent. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2015, vol. 57, no. 2, pp. 111-127., Registrované v: WOS

134. [1.1] GHOSH, Kanika - NOSALOVA, Gabriela - RAY, Sayani - SIVOVA, Veronika - NOSAL, Slavomir - RAY, Bimalendu. Extracted polysaccharide from Nyctanthes arbor-tristis leaves: Chemical and antitussive properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 75, no., pp. 128-132., Registrované v: WOS

135. [1.1] GHOSH, Tuhin - BASU, Ankita - ADHIKARI, Dipan - ROY, Debnarayan - PAL, Achintya Kumar. Antioxidant activity and structural features of Cinnamomum zeylanicum. In 3 BIOTECH. ISSN 2190-5738, 2015, vol. 5, no.

- 6, pp. 939-947., Registrované v: WOS
136. [1.1] GHRIBI, Abir Mokni - SILA, Assaad - GAFSI, Ines Maklouf - BLECKER, Christophe - DANTHINE, Sabine - ATTIA, Hamadi - BOUGATEF, Ali - BESBES, Souhail. Structural, functional, and ACE inhibitory properties of water-soluble polysaccharides from chickpea flours. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 75, no., pp. 276-282., Registrované v: WOS
137. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS
138. [1.1] GILLGREN, Thomas - HEDENSTROM, Mattias - JONSSON, Leif J. Comparison of laccase-catalyzed cross-linking of organosolv lignin and lignosulfonates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 105, no., pp. 438-446., Registrované v: WOS
139. [1.1] GIL-RAMIREZ, Alicia - MARTIN SALAS-VEIZAGA, Daniel - GREY, Carl - KARLSSON, Eva Nordberg - RODRIGUEZ-MEIZOSO, Irene - LINARES-PASTEN, Javier A. Integrated process for sequential extraction of saponins, xylan and cellulose from quinoa stalks (*Chenopodium quinoa* Willd.). In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 121, no., pp. 54-65., Registrované v: WOS
140. [1.1] GODINHO, Joanna F. - BERTI, Fernanda V. - MUELLER, Daliana - RAMBO, Carlos R. - PORTO, Luismar M. Incorporation of Aloe vera extracts into nanocellulose during biosynthesis. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 1, pp. 545-555., Registrované v: WOS
141. [1.1] GONZALEZ-CABRERA, M. - DOMINGUEZ-VIDAL, A. - AYORA-CANADA, M. J. Hyperspectral FTIR imaging of olive fruit for understanding ripening processes. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2018, vol. 145, no., pp. 74-82., Registrované v: WOS
142. [1.1] GOPINATHAN, J. - MANO, Steffie - ELAKKIYA, V. - PILLAI, Mamatha M. - SAHANAND, K. Santosh - RAI, B. K. Dinakar - SELVAKUMAR, R. - BHATTACHARYYA, Amitava. Biomolecule incorporated poly-3-caprolactone nanofibrous scaffolds for enhanced human meniscal cell attachment and proliferation. In RSC ADVANCES, 2015, vol. 5, no. 90, pp. 73552-73561., Registrované v: WOS
143. [1.1] GORROCHATEGUI, Eva - LACORTE, Silvia - TAULER, Roma - MARTIN, Francis L. Perfluoroalkylated Substance Effects in *Xenopus laevis* A6 Kidney Epithelial Cells Determined by ATR-FTIR Spectroscopy and Chemometric Analysis. In CHEMICAL RESEARCH IN TOXICOLOGY. ISSN 0893-228X, 2016, vol. 29, no. 5, pp. 924-932., Registrované v: WOS
144. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
145. [1.1] GRIGATTI, Marco - MONTECCHIO, Daniela - FRANCIOSO, Ornella - CIAVATTA, Claudio. Structural and Thermal Investigation of Three Agricultural Biomasses Following Mild-NaOH Pretreatment to Increase Anaerobic Biodegradability. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2015, vol. 6, no. 6, pp. 1135-1148., Registrované v: WOS

146. [1.1] GRIP, Jostein - ENGSTAD, Rolf Einar - SKJAEVELAND, Ingrid - SKALKO-BASNET, Natasa - ISAKSSON, Johan - BASNET, Purusotam - HOLSAETER, Ann Mari. Beta-glucan-loaded nanofiber dressing improves wound healing in diabetic mice. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2018, vol. 121, no., pp. 269-280., Registrované v: WOS
147. [1.1] GRUNERT, Tom - JOVANOVIĆ, Dijana - SIRISARN, Wanchat - JOHLER, Sophia - WEIDENMAIER, Christopher - EHLING-SCHULZ, Monika - XIA, Guoqing. Analysis of Staphylococcus aureus wall teichoic acid glycoepitopes by Fourier Transform Infrared Spectroscopy provides novel insights into the staphylococcal glycode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
148. [1.1] GUO, Rui - XU, Zhongxiang - WU, Shengfang - LI, Xujiao - LI, Jinan - HU, Hao - WU, Yan - AI, Lianzhong. Molecular properties and structural characterization of an alkaline extractable arabinoxylan from hull-less barley bran. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 218, no., pp. 250-260., Registrované v: WOS
149. [1.1] GUO, Xiaoming - WANG, Zhiming - PI, Fang - PAN, Runquan - ZHAO, Zhengang - YU, Shujuan. Sequential extraction and physicochemical characterization of polysaccharides from chicory (Cichorium intybus) root pulp. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 77, no., pp. 277-285., Registrované v: WOS
150. [1.1] GU, Weidong - LI, Feng - LIU, Xiaorong - GAO, Qiang - GONG, Shanshan - LI, Jianzhang - SHI, Sheldon Q. Q. Borate chemistry inspired by cell walls converts soy protein into high-strength, antibacterial, flame-retardant adhesive. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1319-1328. Dostupné na: <https://doi.org/10.1039/c9gc03875b>., Registrované v: WOS
151. [1.1] HAJJI, Mohamed - HAMDİ, Marwa - SELLIMI, Sabrine - KSOUDA, Ghada - LAOUER, Hocine - LI, Suming - NASRI, Moncef. Structural characterization, antioxidant and antibacterial activities of a novel polysaccharide from Periploca laevigata root barks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 380-388., Registrované v: WOS
152. [1.1] HAMA, Tetsuya - KOUCHI, Akira - WATANABE, Naoki - ENAMI, Shinichi - SHIMOAKA, Takafumi - HASEGAWA, Takeshi. In Situ Nondestructive Analysis of Kalanchoe pinnata Leaf Surface Structure by Polarization-Modulation Infrared Reflection Absorption Spectroscopy. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 49, pp. 11124-11131., Registrované v: WOS
153. [1.1] HAMA, Tetsuya - SEKI, Kousuke - ISHIBASHI, Atsuki - MIYAZAKI, Ayane - KOUCHI, Akira - WATANABE, Naoki - SHIMOAKA, Takafumi - HASEGAWA, Takeshi. Probing the Molecular Structure and Orientation of the Leaf Surface of Brassica oleracea L. by Polarization Modulation-Infrared Reflection-Absorption Spectroscopy. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2019, vol. 60, no. 7, pp. 1567-1580., Registrované v: WOS
154. [1.1] HAMDANI, Afshan Mumtaz - WANI, Idrees Ahmed - GANI, Adil - BHAT, Naseer Ahmad - MASOODI, Farooq Ahmad. Effect of gamma irradiation on physicochemical, structural and rheological properties of plant

exudate gums. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2017, vol. 44, no., pp. 74-82., Registrované v: WOS

155. [1.1] HANIF, Zahid - JEON, Hyeonyeol - THANG HONG TRAN - JEGAL, Jonggeon - PARK, Seul-A - KIM, Seon-Mi - PARK, Jeyoung - HWANG, Sung Yeon - OH, Dongyeop X. Butanol-mediated oven-drying of nanocellulose with enhanced dehydration rate and aqueous re-dispersion. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2017, vol. 25, no. 3, pp., Registrované v: WOS

156. [1.1] HAN, Wenfang - LI, Jiangtao - DING, Yuqin - XIONG, Shanbai - ZHAO, Siming. Structural Features, Antitumor and Antioxidant Activities of Rice Bran Polysaccharides Using Different Extraction Methods. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2017, vol. 82, no. 10, pp. 2403-2410., Registrované v: WOS

157. [1.1] HAN, Yu-Lu - GAO, Jie - YIN, Yan-Yan - JIN, Zheng-Yu - XU, Xue-Ming - CHEN, Han-Qing. Extraction optimization by response surface methodology of mucilage polysaccharide from the peel of *Opuntia dillenii* haw. fruits and their physicochemical properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 381-391., Registrované v: WOS

158. [1.1] HAO, Changchun - QU, Hongjin - CHEN, Shi - HAN, Wenjing - SUN, Runguang. Ultrasound-assisted Extraction of Polysaccharide from *Radix Bupleuri* using Response Surface Methodology and Antioxidant Research of the Polysaccharide. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2018, vol. 13, no. 4, pp. 457-460., Registrované v: WOS

159. [1.1] HAO, Chen - LI, Jun - HE, Qiang - ZHOU, Zilong - GUO, Xiaowei - WANG, Xiaohong - GAO, Sijia - ZHANG, Yike. Ultrasonic Synthesis and Properties of Sodium Lignosulfonate-grafted Poly(Acrylic Acid-co-Vinyl Alcohol) Composite Superabsorbent Polymer. In AUSTRALIAN JOURNAL OF CHEMISTRY. ISSN 0004-9425, 2016, vol. 69, no. 10, pp. 1155-1161., Registrované v: WOS

160. [1.1] HARRISON, D. - RIVARD, B. - SANCHEZ-AZOFEIFA, A. Classification of tree species based on longwave hyperspectral data from leaves, a case study for a tropical dry forest. In INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION. ISSN 0303-2434, 2018, vol. 66, no., pp. 93-105., Registrované v: WOS

161. [1.1] HARSHA, Mysore R. - PRAKASH, Serkad V. Chandra - DHARMESH, Shylaja M. Modified pectic polysaccharide from turmeric (*Curcuma longa*): A potent dietary component against gastric ulcer. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 138, no., pp. 143-155., Registrované v: WOS

162. [1.1] HARTMAN, G. - BRITTINGHAM, A. - GILBOA, A. - HREN, M. - MAAS, K. - PILVER, J. - WEISS, E. Post-charring diagenetic alteration of archaeological lentils by bacterial degradation. In JOURNAL OF ARCHAEOLOGICAL SCIENCE. ISSN 0305-4403, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.jas.2020.105119>., Registrované v: WOS

163. [1.1] HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - BASHIR, Sajid - ASHRAF, Muhammad Umer - AHMAD, Naveed. Evaluation of superabsorbent linseed-polysaccharides as a novel stimuli-responsive oral sustained release drug delivery system. In DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY. ISSN 0363-9045, 2017, vol. 43, no. 3, pp.

409-420., Registrované v: WOS

164. [1.1] HASEEB, Muhammad Tahir - UL KHALIQ, Nisar - YUK, Soon Hong - HUSSAIN, Muhammad Ajaz - BASHIR, Sajid. Linseed polysaccharides based nanoparticles for controlled delivery of docetaxel: Design, in vitro drug release and cellular uptake. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2019, vol. 49, no., pp.

143-151., Registrované v: WOS

165. [1.1] HASHEMIFESHARAKI, Reza - XANTHAKIS, Epameinondas - ALTINTAS, Zeynep - GUO, Ya - GHARIBZAHEDI, Seyed Mohammad Taghi. Microwave-assisted extraction of polysaccharides from the marshmallow roots: Optimization, purification, structure, and bioactivity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116301>., Registrované v:

WOS

166. [1.1] HEGDE, Gurumurthy - MANAF, Shoriya Aruni Abdul - KUMAR, Anuj - ALI, Gomaa A. M. - CHONG, Kwok Feng - NGAINI, Zainab - SHARMA, K. V. Biowaste Sago Bark Based Catalyst Free Carbon Nanospheres: Waste to Wealth Approach. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 9, pp. 2247-2253.,

Registrované v: WOS

167. [1.1] HELLWIG, Michael - HENLE, Thomas. Isolation and quantification in food of 6-(2-formyl-5-methylpyrrol-1-yl)-l-norleucine ("rhamnolysine") and its precursor 3,6-dideoxy-l-mannosone. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2019, vol. 245, no. 5, pp., Registrované v: WOS

168. [1.1] HESARINEJAD, M. A. - RAZAVI, Seyed M. A. - KOOCHKEI, A. Alyssum homolocarpum seed gum: Dilute solution and some physicochemical properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 81, no., pp. 418-426., Registrované v: WOS

169. [1.1] HE, Liwen - WANG, Cheng - SHI, Honghui - ZHOU, Wei - ZHANG, Qing - CHEN, Xiaoyang. Combination of steam explosion pretreatment and anaerobic alkalization treatment to improve enzymatic hydrolysis of Hippophae rhamnoides. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 289, no., pp., Registrované v: WOS

170. [1.1] HE, Xirui - FANG, Jiacheng - RUAN, Yinlan - WANG, Xiaoxiao - SUN, Yin - WU, Ni - ZHAO, Zefeng - CHANG, Yu - NING, Ning - GUO, Hao - HUANG, Linhong. Structures, bioactivities and future prospective of polysaccharides from Morus alba (white mulberry): A review. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 245, no., pp. 899-910., Registrované v: WOS

171. [1.1] HONG, Yawen - YING, Tiejin. Characterization of a chitin-glucan complex from the fruiting body of Chock for Termitomyces albuminosus (Berk.) Heim. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 134, no., pp. 131-138., Registrované v: WOS

172. [1.1] HONG, Yawen - YING, Tiejin. Isolation, molecular characterization and antioxidant activity of a water-soluble polysaccharide extracted from the fruiting body of Termitomyces albuminosus (Berk.) Heim. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.

- ISSN 0141-8130, 2019, vol. 122, no., pp. 115-126., Registrované v: WOS
173. [1.1] HRIBLJAN, J. A. - KANE, E. S. - CHIMNER, R. A.
Implications of Altered Hydrology for Substrate Quality and Trace Gas
Production in a Poor Fen Peatland. In SOIL SCIENCE SOCIETY OF AMERICA
JOURNAL. ISSN 0361-5995, 2017, vol. 81, no. 3, pp. 633-646., Registrované v:
WOS
174. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana -
YILMAZ, Tuncay - TAVMAN, Sebnem. CHARACTERIZATION OF PECTIC
POLYSACCHARIDES EXTRACTED FROM HAZELNUT SKIN BY HOT
WATER. In PROCEEDINGS OF THE 12TH INTERNATIONAL
CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN
2336-6796, 2016, vol., no., pp. 148-152., Registrované v: WOS
175. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana.
ULTRASOUND EXTRACTION, PURIFICATION, AND
PHYSICOCHEMICAL PROPERTIES OF ARABINOGALACTAN FROM
LARIX DECIDUAS SAWDUST. In PROCEEDINGS OF THE 14TH
INTERNATIONAL CONFERENCE ON
POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, vol., no., pp.
152-156., Registrované v: WOS
176. [1.1] HUANG, Haidong - WU, Mengmeng - YANG, Hongpeng - LI,
Xiaoyan - REN, Mengnan - LI, Guoqiang - MA, Ting. Structural and physical
properties of sanxan polysaccharide from *Sphingomonas sanxanigenens*. In
CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 144, no., pp.
410-418., Registrované v: WOS
177. [1.1] HUANG, Weinan - NIE, Yating - ZHU, Nan - YANG, Yifan -
ZHU, Changqing - JI, Minbiao - WU, Di - CHEN, Kunsong. Hybrid Label-Free
Molecular Microscopies for Simultaneous Visualization of Changes in Cell Wall
Polysaccharides of Peach at Single- and Multiple-Cell Levels during Postharvest
Storage. In CELLS, 2020, vol. 9, no. 3, pp. Dostupné na:
<https://doi.org/10.3390/cells9030761>., Registrované v: WOS
178. [1.1] HUANG, Yating - LI, Naisheng - WAN, Jian-Bo - ZHANG,
Dezhi - YAN, Chunyan. Structural characterization and antioxidant activity of a
novel heteropolysaccharide from the submerged fermentation mycelia of
Ganoderma capense. In CARBOHYDRATE POLYMERS. ISSN 0144-8617,
2015, vol. 134, no., pp. 752-760., Registrované v: WOS
179. [1.1] HU, Huigang - ZHAO, Qiaoli - PANG, Zhencai - XIE, Jianghui
- LIN, Lijing - YAO, Quansheng. Optimization extraction, characterization and
anticancer activities of polysaccharides from mango pomace. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, 2018, vol. 117, no., pp. 1314-1325., Registrované v: WOS
180. [1.1] HU, Huigang - ZHAO, Qiaoli - XIE, Jianghui - SUN, Dequan.
Polysaccharides from pineapple pomace: new insight into ultrasonic-cellulase
synergistic extraction and hypoglycemic activities. In INTERNATIONAL
JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019,
vol. 121, no., pp. 1213-1226., Registrované v: WOS
181. [1.1] HU, Ruibo - LI, Junling - WANG, Xiaoyu - ZHAO, Xun -
YANG, Xuanwen - TANG, Qi - HE, Guo - ZHOU, Gongke - KONG, Yingzhen.
Xylan synthesized by Irregular Xylem 14 (IRX14) maintains the structure of seed
coat mucilage in *Arabidopsis*. In JOURNAL OF EXPERIMENTAL BOTANY.
ISSN 0022-0957, 2016, vol. 67, no. 5, pp. 1243-1257., Registrované v: WOS

182. [1.1] HU, Yichen - ZHANG, Jinming - ZOU, Liang - FU, Chaomei - LI, Peng - ZHAO, Gang. Chemical characterization, antioxidant, immune-regulating and anticancer activities of a novel bioactive polysaccharide from *Chenopodium quinoa* seeds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 99, no., pp. 622-629., Registrované v: WOS
183. [1.1] CHAI, Yangyang - ZHAO, Min. Purification, characterization and anti-proliferation activities of polysaccharides extracted from *Viscum coloratum* (Kom.) Nakai. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 149, no., pp. 121-130., Registrované v: WOS
184. [1.1] CHAI, Zhi - HUANG, Wuyang - ZHAO, Xue - WU, Han - ZENG, Xiaoxiong - LI, Chunyang. Preparation, characterization, antioxidant activity and protective effect against cellular oxidative stress of polysaccharide from *Cynanchum auriculatum* Royle ex Wight. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 1068-1076., Registrované v: WOS
185. [1.1] CHEN, Guangjing - LI, Changfeng - WANG, Shasha - MEI, Xiaofei - ZHANG, Hongxin - KAN, Jianquan. Characterization of physicochemical properties and antioxidant activity of polysaccharides from shoot residues of bamboo (*Chimonobambusa quadrangularis*): Effect of drying procedures. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 292, no., pp. 281-293., Registrované v: WOS
186. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - NIU, Yuge - DAI, Bona - YU, Liangli (Lucy). A Novel Alkaline Hemicellulosic Heteroxylan Isolated from Alfalfa (*Medicago sativa* L.) Stem and Its Thermal and Anti-inflammatory Properties. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 11, pp. 2970-2978., Registrované v: WOS
187. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - DAI, Bona - AN, Yuan - YU, Liangli (Lucy). Structural, Thermal, and Anti-inflammatory Properties of a Novel Pectic Polysaccharide from Alfalfa (*Medicago sativa* L.) Stem. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 12, pp. 3219-3228., Registrované v: WOS
188. [1.1] CHEN, Shuang - SU, Tingting - WANG, Zhanyong. Structural characterization, antioxidant activity, and immunological activity in vitro of polysaccharides from fruiting bodies of *Suillus granulatus*. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 3, pp., Registrované v: WOS
189. [1.1] CHEN, Xiaoqiang - XIE, Jianchun - HUANG, Wei - SHAO, Shengrong - WU, Zhengqi - WU, Long - LI, Qian. Comparative analysis of physicochemical characteristics of green tea polysaccharide conjugates and its decolored fraction and their effect on HepG2 cell proliferation. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2019, vol. 131, no., pp. 243-249., Registrované v: WOS
190. [1.1] CHEN, Xiaoxia - LI, Tianyu - QING, Degang - CHEN, Jun - ZHANG, Qian - YAN, Chunyan. Structural characterization and osteogenic bioactivities of a novel *Humulus lupulus* polysaccharide. In *FOOD & FUNCTION*. ISSN 2042-6496, 2020, vol. 11, no. 1, pp. 1165-1175. Dostupné na: <https://doi.org/10.1039/c9fo01918a>., Registrované v: WOS
191. [1.1] CHEN, Xiao-Qiang - ZHANG, Zhi-Fa - GAO, Zhi-Ming -

- HUANG, Yi - WU, Zheng-Qi. Physicochemical properties and cell-based bioactivity of Pu'erh tea polysaccharide conjugates. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 1294-1301., Registrované v: WOS
192. [1.1] CHEN, Yuxiang - YU, Hou-Yong - LI, Yingzhan. Highly Efficient and Superfast Cellulose Dissolution by Green Chloride Salts and Its Dissolution Mechanism. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18446-18454. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05788>., Registrované v: WOS
193. [1.1] CHEN, Zhiwen - HU, Thomas Q. - JANG, Ho Fan - GRANT, Edward. Modification of xylan in alkaline treated bleached hardwood kraft pulps as classified by attenuated total-internal-reflection (ATR) FTIR spectroscopy. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 127, no., pp. 418-426., Registrované v: WOS
194. [1.1] CHEN, Zhiwen - HU, Thomas Q. - JANG, Ho Fan - GRANT, Edward. Multivariate Analysis of Hemicelluloses in Bleached Kraft Pulp Using Infrared Spectroscopy. In *APPLIED SPECTROSCOPY*. ISSN 0003-7028, 2016, vol. 70, no. 12, pp. 1981-1993., Registrované v: WOS
195. [1.1] CHEN, Zhi-Yu - CHEN, Shih-Heng - CHEN, Chih-Hao - CHOU, Pang-Yun - YANG, Chun-Chen - LIN, Feng-Huei. Polysaccharide Extracted from *Bletilla striata* Promotes Proliferation and Migration of Human Tenocytes. In *POLYMERS*, 2020, vol. 12, no. 11, pp. Dostupné na: <https://doi.org/10.3390/polym12112567>., Registrované v: WOS
196. [1.1] CHEON, Hwayeong - YANG, Hee-Jin - SON, Joo-Hiuk. Toward Clinical Cancer Imaging Using Terahertz Spectroscopy. In *IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS*. ISSN 1077-260X, 2017, vol. 23, no. 4, pp., Registrované v: WOS
197. [1.1] CHIKARI, Fadzai - HAN, Juan - WANG, Yun - LUO, Peng - HE, Xingcheng - KWAU, Emmanuel - OTU, Phyllis. Dual-frequency ultrasound-assisted alcohol/salt aqueous two-phase extraction and purification of *Astragalus* polysaccharides. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2020, vol. 43, no. 4, pp. Dostupné na: <https://doi.org/10.1111/jfpe.13366>., Registrované v: WOS
198. [1.1] CHOW, Yiing Yng - TING, Adeline Su Yien. Influence of fungal infection on plant tissues: FTIR detects compositional changes to plant cell walls. In *FUNGAL ECOLOGY*. ISSN 1754-5048, 2019, vol. 37, no., pp. 38-47., Registrované v: WOS
199. [1.1] CHYLINSKA, Monika - SZYMANSKA-CHARGOT, Monika - ZDUNEK, Artur. FT-IR and FT-Raman characterization of non-cellulosic polysaccharides fractions isolated from plant cell wall. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 154, no., pp. 48-54., Registrované v: WOS
200. [1.1] CHYLINSKA, Monika - SZYMANSKA-CHARGOT, Monika - KRUK, Beata - ZDUNEK, Artur. Study on dietary fibre by Fourier transform-infrared spectroscopy and chemometric methods. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 196, no., pp. 114-122., Registrované v: WOS
201. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to

Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207.,

Registrované v: WOS

202. [1.1] IZQUIERDO, Lucia - MARTIN, Ignacio - ALBORNOS, Lucia - HERNANDEZ-NISTAL, Josefina - HUESO, Pablo - DOPICO, Berta - LABRADOR, Emilia. Overexpression of *Cicer arietinum* beta III-Gal but not beta IV-Gal in arabidopsis causes a reduction of cell wall beta-(1,4)-galactan compensated by an increase in homogalacturonan. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 231, no., pp. 135-146.,

Registrované v: WOS

203. [1.1] JACOMETTI, Giselle A. - MELLO, Lea R. P. F. - NASCIMENTO, Pedro H. A. - SUEIRO, Ana Claudia - YAMASHITA, Fabio - MALI, Suzana. The physicochemical properties of fibrous residues from the agro industry. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 62, no. 1, pp. 138-143., Registrované v: WOS

204. [1.1] JAMOSSI, Bassem - CHAKROUN, Radhouane - JABLAOUI, Cherif - RHAZI, Larbi. Efficiency of *Acacia Gummifera* powder as biosorbent for simultaneous decontamination of water polluted with metals. In ARABIAN JOURNAL OF CHEMISTRY. ISSN 1878-5352, 2020, vol. 13, no. 10, pp. 7459-7481. Dostupné na: <https://doi.org/10.1016/j.arabjc.2020.08.022>.,

Registrované v: WOS

205. [1.1] JANA, Subrata - MUKHERJEE, Shuvam - ALI, Imran - RAY, Bimalendu - RAY, Sayani. Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with beta-lactoglobulin of a polysaccharide from *Borassus flabellifer* fruit. In HELIYON, 2020, vol. 6, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e05499>., Registrované v: WOS

206. [1.1] JAN, Kushboo - AHMAD, Mudasir - REHMAN, Suriya - GANI, Adil - KHAQAN, Kashif. Effect of roasting on physicochemical and antioxidant properties of kalonji (*Nigella sativa*) seed flour. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2019, vol. 13, no. 2, pp. 1364-1372., Registrované v: WOS

207. [1.1] JIANG, Keming - HUANG, Dong - ZHANG, Dawei - WANG, Xinlun - CAO, Huijuan - ZHANG, Qian - YAN, Chunyan. Investigation of inulins from the roots of *Morinda officinalis* for potential therapeutic application as anti-osteoporosis agent. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 170-179.,

Registrované v: WOS

208. [1.1] JIANG, Yuan-yuan - YU, Jun - LI, Ya-bo - WANG, Long - HU, Liang - ZHANG, Li - ZHOU, Yong-hong. Extraction and antioxidant activities of polysaccharides from roots of *Arctium lappa* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 123, no., pp. 531-538., Registrované v: WOS

209. [1.1] JIAO, Fengping - WANG, Xiuxiu - SONG, Xinling - JING, Huijuan - LI, Shangshang - REN, Zhenzhen - GAO, Zheng - ZHANG, Jianjun - JIA, Le. Processing optimization and anti-oxidative activity of enzymatic extractable polysaccharides from *Pleurotus djamor*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 469-478., Registrované v: WOS

210. [1.1] JIA, Zhi Xin - YU, Zhu Ping - ZHENG, Ying - LIU, Xin Liang -

- ZHOU, Jing Hong. Impact of Sugar and Furfural Production from Cassava Residue of Hot Water Pretreatment. In JOURNAL OF BIOBASED MATERIALS AND BIOENERGY. ISSN 1556-6560, 2017, vol. 11, no. 6, pp. 616-621., Registrované v: WOS
211. [1.1] JI, Hai-yu - YU, Juan - DONG, Xiao-dan - LIU, An-jun. Preparation of soluble dietary fibers from Gracilaria lemaneiformis and its antitumor activity in vivo. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2019, vol. 13, no. 2, pp. 1574-1582., Registrované v: WOS
212. [1.1] KAMENNAYA, Nina A. - AHN, SeEun - PARK, Hanwool - BARTAL, Roy - SASAKI, Kenji A. - HOLMAN, Hoi-Ying - JANSSON, Christer. Installing extra bicarbonate transporters in the cyanobacterium Synechocystis sp PCC6803 enhances biomass production. In METABOLIC ENGINEERING. ISSN 1096-7176, 2015, vol. 29, no., pp. 76-85., Registrované v: WOS
213. [1.1] KANG CAICAI - HAO LIMIN - ZHANG LIMING - ZHENG ZHIQIANG - YANG YONGWU. Isolation, purification and antioxidant activity of polysaccharides from the leaves of maca (Lepidium Meyenii). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2611-2619., Registrované v: WOS
214. [1.1] KAPOOR, Sabeeta - DHARMESH, Shylaja M. Pectic Oligosaccharide from tomato exhibiting anticancer potential on a gastric cancer cell line: Structure-function relationship. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, no., pp. 52-61., Registrované v: WOS
215. [1.1] KARAKI, N. - ALJAWISH, A. - MUNIGLIA, L. - BOUGUET-BONNET, S. - LECLERC, S. - PARIS, C. - JASNIEWSKI, J. - HUMEAU-VIROT, C. Functionalization of pectin with laccase-mediated oxidation products of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 1-8., Registrované v: WOS
216. [1.1] KASTNER, Hanna - EINHORN-STOLL, Ulrike - FATOUROS, Alexandra - DRUSCH, Stephan. Impact of sodium ions on material properties, gelation and storage stability of citrus pectin. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 104, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105750>., Registrované v: WOS
217. [1.1] KESHANI-DOKHT, Shaghayegh - EMAM-DJOMEH, Zahra - YARMAND, Mohammad-Saeid - FATHI, Morteza. Extraction, chemical composition, rheological behavior, antioxidant activity and functional properties of Cordia myxa mucilage. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 485-493., Registrované v: WOS
218. [1.1] KHATRI, Kusum - RATHORE, Mangal S. - AGRAWAL, Surabhi - JHA, Bhavanath. Sugar contents and oligosaccharide mass profiling of selected red seaweeds to assess the possible utilization of biomasses for third-generation biofuel production. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2019, vol. 130, no., pp., Registrované v: WOS
219. [1.1] KHAWAS, Sadhana - NOSAL'OVA, Gabriela - MAJEE, Sujay Kumar - GHOSH, Kanika - RAJA, Washim - SIVOVA, Veronika - RAY, Bimalendu. In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic

- effect with piperine. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 335-342., Registrované v: WOS
220. [1.1] KHORASANI, Alireza Chackoshian - SHOJAOSADATI, Seyed Abbas. Bacterial nanocellulose-pectin bionanocomposites as prebiotics against drying and gastrointestinal condition. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 83, no., pp. 9-18., Registrované v: WOS
221. [1.1] KIM, Hyo Seon - KIM, Sung-Koo - JEONG, Gwi-Taek. Efficient conversion of glucosamine to levulinic acid in a sulfamic acid-catalyzed hydrothermal reaction. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 6, pp. 3198-3205., Registrované v: WOS
222. [1.1] KIRAN, Patruni - RAO, P. Srinivasa. Development and characterization of reconstituted hydrogel from Aloe vera (Aloe barbadensis Miller) powder. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 1932-7587, 2016, vol. 10, no. 3, pp. 411-424., Registrované v: WOS
223. [1.1] KOGKAKI, Efstathia A. - SOFOULIS, Manos - NATSKOULIS, Pantelis - TARANTILIS, Petros A. - PAPPAS, Christos S. - PANAGOU, Efstathios Z. Differentiation and identification of grape-associated black aspergilli using Fourier transform infrared (FT-IR) spectroscopic analysis of mycelia. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 259, no., pp. 22-28., Registrované v: WOS
224. [1.1] KOLIASTASI, Aikaterini - KOMPOTHEKRA, Vasiliki - GIOTIS, Charilaos - MOUSTAKAS, Antonis K. - SKOTTI, Efstathia P. - GERAKIS, Argyrios - KALOGIANNI, Eleni - RITZOULIS, Christos. Emulsifiers from Partially Composted Olive Waste. In FOODS, 2019, vol. 8, no. 7, pp., Registrované v: WOS
225. [1.1] KOLIASTASI, Aikaterini - KOMPOTHEKRA, Vasiliki - GIOTIS, Charilaos - MOUSTAKAS, Antonis K. - SKOTTI, Efstathia P. - GERAKIS, Argyrios - KALOGIANNI, Eleni P. - GEORGIOU, Despoina - RITZOULIS, Christos. Novel emulsifiers from olive mill compost. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 99, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105373>., Registrované v: WOS
226. [1.1] KOOCHKEI, Arash - HESARINEJAD, Mohammad Ali. Qodume Shirazi (Alyssum homolocarpum) Seed Gum. In EMERGING NATURAL HYDROCOLLOIDS: RHEOLOGY AND FUNCTIONS, 2019, vol., no., pp. 205-223., Registrované v: WOS
227. [1.1] KURT, Abdullah - ATALAR, Ilyas. Effects of quince seed on the rheological, structural and sensory characteristics of ice cream. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 82, no., pp. 186-195., Registrované v: WOS
228. [1.1] KUTZLI, Ines - GIBIS, Monika - BAIER, Stefan K. - WEISS, Jochen. Fabrication and characterization of food-grade fibers from mixtures of maltodextrin and whey protein isolate using needleless electrospinning. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 22, pp., Registrované v: WOS
229. [1.1] KUTZLI, Ines - GIBIS, Monika - BAIER, Stefan K. - WEISS, Jochen. Electrospinning of whey and soy protein mixed with maltodextrin Influence of protein type and ratio on the production and morphology of fibers. In

FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 93, no., pp. 206-214.,
Registrované v: WOS

230. [1.1] KUZNETSOV, B. N. - SUDAKOVA, I. G. - GARYNTSEVA, N. - LEVDANSKY, V. A. - IVANCHENKO, N. M. - PESTUNOV, A. - DJAKOVITCH, L. - PINEL, C. Green biorefinery of larch wood biomass to obtain the bioactive compounds, functional polymers and nanoporous materials. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2018, vol. 52, no. 5, pp. 1377-1394., Registrované v: WOS

231. [1.1] KYRALEOU, Maria - PAPPAS, Christos - VOSKIDI, Eleni - KOTSERIDIS, Yorgos - BASALEKOU, Marianthi - TARANTILIS, Petros A. - KALLITHRAKA, Stamatina. Diffuse reflectance Fourier transform infrared spectroscopy for simultaneous quantification of total phenolics and condensed tannins contained in grape seeds. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 74, no., pp. 784-791., Registrované v: WOS

232. [1.1] LA CAVA, Enzo L. - GERBINO, Esteban - SGROPPO, Sonia C. - GOMEZ-ZAVAGLIA, Andrea. Characterization of Pectins Extracted from Different Varieties of Pink/Red and White Grapefruits [Citrus Paradisi (Macf.)] by Thermal Treatment and Thermosonication. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2018, vol. 83, no. 6, pp. 1613-1621., Registrované v: WOS

233. [1.1] LAHLALI, Rachid - KARUNAKARAN, Chithra - WANG, Lipu - WILLICK, Ian - SCHMIDT, Marina - LIU, Xia - BORONDICS, Ferenc - FORSEILLE, Lily - FOBERT, Pierre R. - TANINO, Karen - PENG, Gary - HALLIN, Emil. Synchrotron based phase contrast X-ray imaging combined with FTIR spectroscopy reveals structural and biomolecular differences in spikelets play a significant role in resistance to Fusarium in wheat. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2015, vol. 15, no., pp., Registrované v: WOS

234. [1.1] LAHLALI, Rachid - KUMAR, Saroj - WANG, Lipu - FORSEILLE, Li - SYLVAIN, Nicole - KORBAS, Malgorzata - MUIR, David - SWERHONE, George - LAWRENCE, John R. - FOBERT, Pierre R. - PENG, Gary - KARUNAKARAN, Chithra. Cell Wall Biomolecular Composition Plays a Potential Role in the Host Type II Resistance to Fusarium Head Blight in Wheat. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS

235. [1.1] LAHLALI, Rachid - SONG, Tao - CHU, Mingguang - YU, Fengqun - KUMAR, Saroj - KARUNAKARAN, Chithra - PENG, Gary. Evaluating Changes in Cell-Wall Components Associated with Clubroot Resistance Using Fourier Transform Infrared Spectroscopy and RT-PCR. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 10, pp., Registrované v: WOS

236. [1.1] LAI, Yen-Liang - LIN, Yu-Ying - SADHASIVAM, Subramaniam - KUAN, Che-Yung - CHI, Chih-ying - DONG, Guo-Chung - LIN, Feng-Huei. Efficacy of Bletilla striata polysaccharide on hydrogen peroxide-induced apoptosis of osteoarthritic chondrocytes. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2018, vol. 25, no. 2, pp., Registrované v: WOS

237. [1.1] LAKSHMI, Suresh - SUVEDHA, Kalidoss - SRUTHI, Ramesh - LAVANYA, Jayaprakash - VARJANI, Sunita - NAKKEERAN, Ekambaram. Hexavalent chromium sequestration from electronic waste by biomass of Aspergillus carbonarius. In BIOENGINEERED. ISSN 2165-5979, 2020, vol.

- 11, no. 1, pp. 708-717. Dostupné na:
<https://doi.org/10.1080/21655979.2020.1780828>., Registrované v: WOS
238. [1.1] LAN, Fang - KONG, Dexin - LI, Yanqun - HUANG, Rongshao. STUDIES ON THE CHANGES OF PROTEIN SECONDARY STRUCTURE AND CARBOHYDRATE CONTENTS IN SEEDLING-STAGE OF *ABRUS CANTONIENSIS* HANCE IN DROUGHT STRESS BASED ON FTIR AND CHEMOMETRICS. In *PAKISTAN JOURNAL OF BOTANY*. ISSN 0556-3321, 2015, vol. 47, no. 4, pp. 1311-1316., Registrované v: WOS
239. [1.1] LAN, Weijie - RENARD, Catherine M. G. C. - JAILLAIS, Benoit - LECA, Alexandre - BUREAU, Sylvie. Fresh, freeze-dried or cell wall samples: Which is the most appropriate to determine chemical, structural and rheological variations during apple processing using ATR-FTIR spectroscopy? In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na:
<https://doi.org/10.1016/j.foodchem.2020.127357>., Registrované v: WOS
240. [1.1] LARSSON, E. - BOUJEMAOUI, A. - MALMSTROM, E. - CARLMARK, A. Thermoresponsive cryogels reinforced with cellulose nanocrystals. In *RSC ADVANCES*, 2015, vol. 5, no. 95, pp. 77643-77650., Registrované v: WOS
241. [1.1] LAZDOVICA, K. - LIEPINA, L. - KAMPARS, V. Comparative wheat straw catalytic pyrolysis in the presence of zeolites, Pt/C, and Pd/C by using TGA-FTIR method. In *FUEL PROCESSING TECHNOLOGY*. ISSN 0378-3820, 2015, vol. 138, no., pp. 645-653., Registrované v: WOS
242. [1.1] LEAO, Daniela P. - FRANCA, Adriana S. - OLIVEIRA, Leandro S. - BASTOS, Rita - COIMBRA, Manuel A. Physicochemical characterization, antioxidant capacity, total phenolic and proanthocyanidin content of flours prepared from pequi (*Caryocar brasiliense* Camb.) fruit by-products. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 225, no., pp. 146-153., Registrované v: WOS
243. [1.1] LIAO, Ningbo - ZHONG, Jianjun - YE, Xingqian - LU, Shan - WANG, Wenjun - ZHANG, Ronghua - XU, Jian - CHEN, Shiguo - LIU, Donghong. Ultrasonic-assisted enzymatic extraction of polysaccharide from *Corbicula fluminea*: Characterization and antioxidant activity. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2015, vol. 60, no. 2, pp. 1113-1121., Registrované v: WOS
244. [1.1] LIAO, Wenzhen - LUO, Zhen - LIU, Dan - NING, Zhengxiang - YANG, Jiguo - REN, Jiaoyan. Structure Characterization of a Novel Polysaccharide from *Dictyophora indusiata* and Its Macrophage Immunomodulatory Activities. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 2, pp. 535-544., Registrované v: WOS
245. [1.1] LIN, Haizhou - WANG, Shurong - ZHANG, Li - RU, Bin - ZHOU, Jinsong - LUO, Zhongyang. Structural evolution of chars from biomass components pyrolysis in a xenon lamp radiation reactor. In *CHINESE JOURNAL OF CHEMICAL ENGINEERING*. ISSN 1004-9541, 2017, vol. 25, no. 2, pp. 232-237., Registrované v: WOS
246. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS
247. [1.1] LIU, Hua-Min - LI, Hao-Yang - LI, Ming-Fei. Cornstalk

liquefaction in sub- and super-critical ethanol: Characterization of solid residue and the liquefaction mechanism. In JOURNAL OF THE ENERGY INSTITUTE. ISSN 1743-9671, 2017, vol. 90, no. 5, pp. 734-742., Registrované v: WOS

248. [1.1] LIU, Jianhua - LI, Hu - WU, Jinhong - XIE, Fan - ZHANG, Juan - WANG, Zhengwu. Determination of phosphoryl-oligosaccharides obtained from *Canna edulis* Ker starch. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 1-2, pp., Registrované v: WOS

249. [1.1] LIU, Jianing - BI, Jinfeng - LIU, Xuan - LIU, Dazhi - WU, Xinye - LYU, Jian - DING, Yingying. Effects of pectins and sugars on beta-carotene bioaccessibility in an in vitro simulated digestion model. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2020, vol. 91, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfca.2020.103537>., Registrované v: WOS

250. [1.1] LIU, Jinghua - HUANG, Qing. Screening of Astaxanthin-Hyperproducing *Haematococcus pluvialis* Using Fourier Transform Infrared (FT-IR) and Raman Microspectroscopy. In APPLIED SPECTROSCOPY. ISSN 0003-7028, 2016, vol. 70, no. 10, pp. 1639-1648., Registrované v: WOS

251. [1.1] LIU, Jun - WEN, Xiao-yuan - ZHANG, Xue-qing - PU, Hui-min - KAN, Juan - JIN, Chang-hai. Extraction, characterization and in vitro antioxidant activity of polysaccharides from black soybean. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 1182-1190., Registrované v: WOS

252. [1.1] LIU, Min - JING, Huijuan - ZHANG, Jianjun - CHE, Gen - ZHOU, Meng - GAO, Zheng - LI, Shangshang - REN, Zhenzhen - HAO, Long - LIU, Yu - JIA, Le. Optimization of Mycelia Selenium Polysaccharide Extraction from *Agrocybe cylindracea* SL-02 and Assessment of their Antioxidant and Anti-Ageing Activities. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 8, pp., Registrované v: WOS

253. [1.1] LIU, Min - LI, Shangshang - WANG, Xiuxiu - ZHU, Yongfa - ZHANG, Jianjun - LIU, Hui - JIA, Le. Characterization, anti-oxidation and anti-inflammation of polysaccharides by *Hypsizygus marmoreus* against LPS-induced toxicity on lung. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 121-128., Registrované v: WOS

254. [1.1] LIU, Wenjuan - LI, Weiyan - SUI, Yi - LI, Xiao-Qiang - LIU, Caiqi - JING, Hui - ZHANG, Hongmei - CAO, Wei. Structure characterization and anti-leukemia activity of a novel polysaccharide from *Angelica sinensis* (Oliv.) Diels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, no., pp. 161-172., Registrované v: WOS

255. [1.1] LIU, Xuan - LIU, Jianing - BI, Jinfeng - YI, Jianyong - PENG, Jian - NING, Chunyuan - WELLALA, Chandi Kanchana Deepali - ZHANG, Baiqing. Effects of high pressure homogenization on pectin structural characteristics and carotenoid bioaccessibility of carrot juice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 203, no., pp. 176-184., Registrované v: WOS

256. [1.1] LIU, Yan - QIU, Shuang - LI, Jinlong - CHEN, Hao - TATSUMI, Eizo - YADAV, Madhav - YIN, Lijun. Peroxidase-mediated conjugation of corn fiber gum and bovine serum albumin to improve emulsifying

- properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 118, no., pp. 70-78., Registrované v: WOS
257. [1.1] LIU, Yang - WANG, Lan - CHEN, Hong-Zhang. Two-steps gas double-dynamic solid-state fermentation enhances growth and spore production of *Conithyrium minitans*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 262, no., pp. 235-241., Registrované v: WOS
258. [1.1] LIU, Ying - HU, Chao-Fan - FENG, Xi - CHENG, Lei - IBRAHIM, Salam A. - WANG, Cheng-Tao - HUANG, Wen. Isolation, characterization and antioxidant of polysaccharides from *Stropharia rugosoannulata*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 883-889. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.045>., Registrované v: WOS
259. [1.1] LIU, Ying - ZHANG, Bin - IBRAHIM, S. A. - GAO, Shuang-Shuang - YANG, Hong - HUANG, Wen. Purification, characterization and antioxidant activity of polysaccharides from *Flammulina velutipes* residue. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 145, no., pp. 71-77., Registrované v: WOS
260. [1.1] LIU, Yongmei - GU, Qiuya - OFOSU, Fred Kwame - YU, Xiaobin. Production, structural characterization and gel forming property of a new exopolysaccharide produced by *Agrobacterium* HX1126 using glycerol or D-mannitol as substrate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 917-922., Registrované v: WOS
261. [1.1] LIU, Zhao-dong - WANG, Hai-cui - ZHOU, Qin - XU, Ren-kou. Effects of adhesions of amorphous Fe and Al hydroxides on surface charge and adsorption of K⁺ and Cd²⁺ on rice roots. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2017, vol. 145, no., pp. 207-213., Registrované v: WOS
262. [1.1] LIU, Zhao-Dong - ZHOU, Qin - HONG, Zhi-Neng - XU, Ren-Kou. Effects of Surface Charge and Functional Groups on the Adsorption and Binding Forms of Cu and Cd on Roots of indica and japonica Rice Cultivars. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
263. [1.1] LI, Helong - LI, Zhi - PENG, Pai - SHE, Diao - XU, Qiang - ZHANG, Xueming. Characteristics of hemicelluloses obtained from sweet sorghum based on successive extractions. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 46, pp., Registrované v: WOS
264. [1.1] LI, Jianxuan - ZHONG, Jing - CHEN, Haiyun - YU, Qian - YAN, Chunyan. Structural characterization and anti-neuroinflammatory activity of a heteropolysaccharide isolated from the rhizomes of *Polygala tenuifolia*. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112792>., Registrované v: WOS
265. [1.1] LI, Jing-En - WANG, Wen-Jun - ZHENG, Guo-Dong - LI, Lin-Yan. Physicochemical properties and antioxidant activities of polysaccharides from *Gynura procumbens* leaves by fractional precipitation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 719-724., Registrované v: WOS
266. [1.1] LI, Junhui - LI, Shan - LIU, Shanshan - WEI, Chaoyang - YAN,

- Lufeng - DING, Tian - LINHARDT, Robert J. - LIU, Donghong - YE, Xingqian - CHEN, Shiguo. Pectic oligosaccharides hydrolyzed from citrus canning processing water by Fenton reaction and their antiproliferation potentials. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 124, no., pp. 1025-1032., Registrované v: WOS 267. [1.1] LI, Long-Qing - SONG, Ang-Xin - YIN, Jun-Yi - SIU, Ka-Chai - WONG, Wing-Tak - WU, Jian-Yong. Anti-inflammation activity of exopolysaccharides produced by a medicinal fungus *Cordyceps sinensis* Cs-HK1 in cell and animal models. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, no., pp. 1042-1050. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.022>., Registrované v: WOS 268. [1.1] LI, M. - LOPEZ, R. - VENTURAS, M. - MARTIN, J. A. - DOMINGUEZ, J. - GORDALIZA, G. G. - GIL, L. - RODRIGUEZ-CALCERRADA, J. Physiological and biochemical differences among *Ulmus minor* genotypes showing a gradient of resistance to Dutch elm disease. In FOREST PATHOLOGY. ISSN 1437-4781, 2016, vol. 46, no. 3, pp. 215-228., Registrované v: WOS 269. [1.1] LI, Ningbo - QI, Guangyan - SUN, Xiuzhi Susan - WANG, Donghai. Characterization of gum isolated from *Camelina* seed. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 83, no., pp. 268-274., Registrované v: WOS 270. [1.1] LI, Qiao-Zhen - WU, Di - ZHOU, Shuai - LIU, Yan-Fang - LI, Zheng-peng - FENG, Jie - YANG, Yan. Structure elucidation of a bioactive polysaccharide from fruiting bodies of *Herichium erinaceus* in different maturation stages. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 144, no., pp. 196-204., Registrované v: WOS 271. [1.1] LI, Wei - XIE, Xin-an - SUN, Jiao - FAN, Di - WEI, Xing. Investigation of cornstalk cellulose liquefaction in supercritical acetone by FT-TR and GC-MS methods. In GREEN CHEMISTRY LETTERS AND REVIEWS. ISSN 1751-8253, 2019, vol. 12, no. 3, pp. 299-309., Registrované v: WOS 272. [1.1] LI, Xiao - BI, Jinfeng - JIN, Xin - LI, Xuan - WU, Xinye - LYU, Jian. Characterization of Water Binding Properties of Apple Pectin Modified by Instant Controlled Pressure Drop Drying (DIC) by LF-NMR and DSC Methods. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2020, vol. 13, no. 2, pp. 265-274. Dostupné na: <https://doi.org/10.1007/s11947-019-02387-8>., Registrované v: WOS 273. [1.1] LI, Xiao - DONG, Yi - GUO, Yan - ZHANG, Zihan - JIA, Lirong - GAO, Hong - XING, Zhihua - DUAN, Feixia. Okra polysaccharides reduced the gelling-required sucrose content in its synergistic gel with high-methoxyl pectin by microphase separation effect. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 95, no., pp. 506-516., Registrované v: WOS 274. [1.1] LI, Ying - QIN, Gaoyixin - CHENG, Chen - YUAN, Biao - HUANG, Dechun - CHENG, Shujie - CAO, Chongjiang - CHEN, Guitang. Purification, characterization and anti-tumor activities of polysaccharides from *Ecklonia kurome* obtained by three different extraction methods. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1000-1010. Dostupné na:

- <https://doi.org/10.1016/j.ijbiomac.2019.10.216>., Registrované v: WOS
275. [1.1] LI, Yongyu - CHEN, Jianyan - CAO, Lili - LI, Liang - WANG, Fang - LIAO, Zhengping - CHEN, Jianjun - WU, Shaohua - ZHANG, Liaoyuan. Characterization of a novel polysaccharide isolated from *Phyllanthus emblica* L. and analysis of its antioxidant activities. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2018, vol. 55, no. 7, pp. 2758-2764., Registrované v: WOS
276. [1.1] LI, Yun - ZHANG, Jin-Yu - WANG, Yuan-Zhong. FT-MIR and NIR spectral data fusion: a synergetic strategy for the geographical traceability of *Panax notoginseng*. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 91-103., Registrované v: WOS
277. [1.1] LI, Y. - ZHU, Y. - LIANG, R. - YANG, C. Synthesis and antioxidant properties of caffeic acid corn bran arabinoxylan esters. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2017, vol. 39, no. 4, pp. 402-410., Registrované v: WOS
278. [1.1] LI, Zheng - LUO, Yiping - WANG, Xiaoyan - JIANG, Zhicheng - XU, Shuguang - HU, Changwei. The effect of sodium chloride concentration on the mutarotation and structure of D-xylose in water: Experimental and theoretical investigation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 489, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107941>., Registrované v: WOS
279. [1.1] LI, Zhengwen - LIN, Lin - LIU, Xiang - WAN, Chunli - LEE, Duu-Jong. Understanding the role of extracellular polymeric substances in the rheological properties of aerobic granular sludge. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 705, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.135948>., Registrované v: WOS
280. [1.1] LODHI, Bilal Ahmad - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - HASEEB, Muhammad Tahir - MUHAMMAD, Gulzar - FARID-UL-HAQ, Muhammad - NAEEM-UL-HASSAN, Muhammad. Basil (*Ocimum basilicum* L.) seeds engender a smart material for intelligent drug delivery: On-Off switching and real-time swelling, in vivo transit detection, and mechanistic studies. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112780>., Registrované v: WOS
281. [1.1] LOPEZ-TORREZ, Lizeth - NIGEN, Michael - WILLIAMS, Pascale - DOCO, Thierry - SANCHEZ, Christian. Acacia senegal vs. Acacia seyal gums Part 1: Composition and structure of hyperbranched plant exudates. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 51, no., pp. 41-53., Registrované v: WOS
282. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
283. [1.1] LORON, Corentin C. - FRANCOIS, Camille - RAINBIRD, Robert H. - TURNER, Elizabeth C. - BORENSZTAJN, Stephan - JAVAUX, Emmanuelle J. Early fungi from the Proterozoic era in Arctic Canada. In NATURE. ISSN 0028-0836, 2019, vol. 570, no. 7760, pp. 232-+, Registrované v: WOS
284. [1.1] LUBAMBO, A. F. - ONO, L. - DRAGO, V. - MATTOSO, N. - VARALDA, J. - SIERAKOWSKI, M-R - SAKAKIBARA, C. N. - FREITAS, R.

- A. - SAUL, C. K. Tuning Fe₃O₄ nanoparticle dispersion through pH in PVA/guar gum/electrospun membranes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 134, no., pp. 775-783., Registrované v: WOS
285. [1.1] LUO, Jing - XU, Yong - FAN, Yimin. Upgrading Pectin Production from Apple Pomace by Acetic Acid Extraction. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 187, no. 4, pp. 1300-1311., Registrované v: WOS
286. [1.1] LUO, Yiping - LI, Zheng - ZUO, Yini - SU, Zhishan - HU, Changwei. A Simple Two-Step Method for the Selective Conversion of Hemicellulose in Pubescens to Furfural. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 9, pp. 8137-8147., Registrované v: WOS
287. [1.1] LUO, Yiping - LI, Zheng - ZUO, Yini - SU, Zhishan - HU, Changwei. Effects of gamma-Valerolactone/H₂O Solvent on the Degradation of pubescens for Its Fullest Utilization. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 24, pp. 6094-6103., Registrované v: WOS
288. [1.1] LUO, You - LIU, Haiqing - YANG, Shanzhong - ZENG, Jiarui - WU, Zhenqiang. Sodium Alginate-Based Green Packaging Films Functionalized by Guava Leaf Extracts and Their Bioactivities. In MATERIALS, 2019, vol. 12, no. 18, pp., Registrované v: WOS
289. [1.1] LUPOI, Jason S. - SMITH-MORITZ, Andreia - SINGH, Seema - MCQUALTER, Richard - SCHELLER, Henrik V. - SIMMONS, Blake A. - HENRY, Robert J. Localization of polyhydroxybutyrate in sugarcane using Fourier-transform infrared microspectroscopy and multivariate imaging. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
290. [1.1] MABEL HERNANDEZ-ALTAMIRANO, J. - LARGO-GOSENS, Asier - MARTINEZ-RUBIO, Romina - PEREDA, Diego - ALVAREZ, Jesus M. - ACEBES, Jose L. - ENCINA, Antonio - GARCIA-ANGULO, Penelope. Effect of ancymidol on cell wall metabolism in growing maize cells. In PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 987-999., Registrované v: WOS
291. [1.1] MACKIE, David M. - JAHNKE, Justin P. - BENYAMIN, Marcus S. - SUMNER, James J. Simple, fast, and accurate methodology for quantitative analysis using Fourier transform infrared spectroscopy, with bio-hybrid fuel cell examples. In METHODSX. ISSN 2215-0161, 2016, vol. 3, no., pp. 128-138., Registrované v: WOS
292. [1.1] MADEIRA, Juliana C. - DA SILVA, Gabriel V. L. - BATISTA, Jose Josenildo - SARAIVA, Gilberto Dantas - SANTOS, Gustavo R. C. - ASSREUY, Ana Maria S. - MOURAO, Paulo A. S. - PEREIRA, Maria G. An arabinogalactan-glycoconjugate from Genipa americana leaves present anticoagulant, antiplatelet and antithrombotic effects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 554-562., Registrované v: WOS
293. [1.1] MAKAREM, Mohamadamin - LEE, Christopher M. - KAFLE, Kabindra - HUANG, Shixin - CHAE, Inseok - YANG, Hui - KUBICKI, James D. - KIM, Seong H. Probing cellulose structures with vibrational spectroscopy. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 35-79., Registrované v: WOS

294. [1.1] MAKAREM, Mohamadamin - KIM, Hyojung - EMAMI, Parinaz - MELENDEZ, Jesus - STEINBACH, Adam - LIPKIE, Tristan - DELERIS, Isabelle - DESMET, Christina - WALLECAN, Joel - KIM, Seong H. Impact of Drying on Meso- and Nanoscale Structures of Citrus Fiber: A Study by SFG, ATR-IR, XRD, and DLS. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 7, pp. 2718-2724. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b06194.>, Registrované v: WOS
295. [1.1] MAKSHAKOVA, Olga N. - FAIZULLIN, Dzhigangir A. - MIKSHINA, Polina V. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Spatial structures of rhamnogalacturonan I in gel and colloidal solution identified by 1D and 2D-FTIR spectroscopy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 192, no., pp. 231-239., Registrované v: WOS
296. [1.1] MAKSHAKOVA, O. N. - FAIZULLIN, D. A. - ZUEV, Yu F. Interplay between secondary structure and ion binding upon thermoreversible gelation of kappa-carrageenan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 227, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115342.>, Registrované v: WOS
297. [1.1] MALISZEWSKA, Irena - TYLUS, Włodzimierz - CHECMANOWSKI, Jacek - SZCZYGIEL, Bogdan - PAWLACZYK-GRAJA, Izabela - PUSZ, Wojciech - BATURO-CIESNIEWSKA, Anna. Biomineralization of Gold by *Mucor Plumbeus*: The Progress in Understanding the Mechanism of Nanoparticles' Formation. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2017, vol. 33, no. 5, pp. 1381-1392., Registrované v: WOS
298. [1.1] MANAF, Shoriya Aruni Abdul - ROY, Partha - SHARMA, Korada V. - NGAINI, Zainab - MALGRAS, Victor - ALDALBAHI, Ali - ALSHEHRI, Saad M. - YAMAUCHI, Yusuke - HEGDE, Gurumurthy. Catalyst-free synthesis of carbon nanospheres for potential biomedical applications: waste to wealth approach. In RSC ADVANCES, 2015, vol. 5, no. 31, pp. 24528-24533., Registrované v: WOS
299. [1.1] MANEERAT, Nitjaree - TANGSUPHOOM, Nattapol - NITITHAMYONG, Anadi. Effect of extraction condition on properties of pectin from banana peels and its function as fat replacer in salad cream. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 2, pp. 386-397., Registrované v: WOS
300. [1.1] MAO, Kewei - CHEN, Honggao - QI, Hanghang - QIU, Zidong - ZHANG, Li - ZHOU, Jiangang. Visual degumming process of ramie fiber using a microbial consortium RAMCD407. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3513-3528., Registrované v: WOS
301. [1.1] MARCELINO, Henrique Rodrigues - DA SILVA, Acarilia Eduardo - SALGADO GOMES, Monique Christine - OLIVEIRA, Elquio Eleamen - NAGASHIMA-JUNIOR, Toshiyuki - PINHEIRO, Gardenia Sousa - DA SILVA, Acarizia Eduardo - DE SOUZA TIMOTEO, Ana Rafaela - AGNEZ-LIMA, Lucymara Fassarela - AYALA, Alejandro Pedro - OLIVEIRA, Anselmo Gomes - TABOSA DO EGITO, Eryvaldo Socrates. Leads from Physical, Chemical, and Thermal Characterization on Cytotoxic Effects of Xylan-Based Microparticles. In POLYMERS. ISSN 2073-4360, 2015, vol. 7, no. 11, pp. 2304-2315., Registrované v: WOS
302. [1.1] MASEK, Anna - LATOS-BROZIO, Malgorzata -

CHYZESCIJANSKA, Ewa - PODSEDEK, Anna. Polyphenolic Profile and Antioxidant Activity of *Juglans regia* L. Leaves and Husk Extracts. In *FORESTS*, 2019, vol. 10, no. 11, pp., Registrované v: WOS

303. [1.1] MAYORGA, Olga L. - KINGSTON-SMITH, Alison H. - KIM, Eun J. - ALLISON, Gordon G. - WILKINSON, Toby J. - HEGARTY, Matthew J. - THEODOROU, Michael K. - NEWBOLD, Charles J. - HUWS, Sharon A. Temporal Metagenomic and Metabolomic Characterization of Fresh Perennial Ryegrass Degradation by Rumen Bacteria. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS

304. [1.1] MAZLAN, Othman - AIZAT, Wan Mohd - BAHARUM, Syarul Nataqain - AZIZAN, Kamalrul Azlan - NOOR, Normah Mohd. Metabolomics analysis of developing *Garcinia mangostana* seed reveals modulated levels of sugars, organic acids and phenylpropanoid compounds. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2018, vol. 233, no., pp. 323-330., Registrované v: WOS

305. [1.1] MA, Fang - HUANG, An-min. Rapid identification and quantification three chicken-wing woods of *Millettia leucantha*, *Millettia laurentii* and *Cassia siamea* by FT-IR and 2DCOS-IR. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2018, vol. 1166, no., pp. 164-168., Registrované v: WOS

306. [1.1] MA, Jin-Shuang - LIU, Hong - HAN, Chang-Ri - ZENG, Si-Jie - XU, Xiao-Jun - LU, Deng-Jun - HE, Hong-Ju. Extraction, characterization and antioxidant activity of polysaccharide from *Pouteria campechiana* seed. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115409>., Registrované v: WOS

307. [1.1] MELIDA, Hugo - LARGO-GOSENS, Asier - NOVO-UZAL, Esther - SANTIAGO, Rogelio - POMAR, Federico - GARCIA, Pedro - GARCIA-ANGULO, Penelope - LUIS ACEBES, Jose - ALVAREZ, Jesus - ENCINA, Antonio. Ectopic lignification in primary cellulose-deficient cell walls of maize cell suspension cultures. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2015, vol. 57, no. 4, pp. 357-372., Registrované v: WOS

308. [1.1] MEYER, Claire-Lise - JURANIEC, Michal - HUGUET, Stephanie - CHAVES-RODRIGUEZ, Elena - SALIS, Pietro - ISAURE, Marie-Pierre - GOORMAGHTIGH, Erik - VERBRUGGEN, Nathalie. Intraspecific variability of cadmium tolerance and accumulation, and cadmium-induced cell wall modifications in the metal hyperaccumulator *Arabidopsis halleri*. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2015, vol. 66, no. 11, pp. 3215-3227., Registrované v: WOS

309. [1.1] MIERCZYNSKA, Joanna - CYBULSKA, Justyna - ZDUNEK, Artur. Rheological and chemical properties of pectin enriched fractions from different sources extracted with citric acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 443-451., Registrované v: WOS

310. [1.1] MIKSHINA, Polina V. - MAKSHAKOVA, Olga N. - PETROVA, Anna A. - GAIFULLINA, Ilzira Z. - IDIYATULLIN, Bulat Z. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Gelation of rhamnogalacturonan I is based on galactan side chain interaction and does not involve chemical modifications. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol.

171, no., pp. 143-151., Registrované v: WOS

311. [1.1] MILENKOVIC, Ivana - RADOTIC, Ksenija - MATOVIC, Branko - PREKAJSKI, Marija - ZIVKOVIC, Ljiljana - JAKOVLJEVIC, Dragica - GOJGIC-CVIJOVIC, Gordana - BESKOSKI, Vladimir. Improving stability of cerium oxide nanoparticles by microbial polysaccharides coating. In JOURNAL OF THE SERBIAN CHEMICAL SOCIETY. ISSN 0352-5139, 2018, vol. 83, no. 6, pp. 745-757., Registrované v: WOS

312. [1.1] MOHAMED, Amir Ibrahim - ABD-MOTAGALY, Amr Mohamed Elsayed - AHMED, Osama A. A. - AMIN, Suzan - ALI, Alaa Ibrahim Mohamed. Investigation of Drug-Polymer Compatibility Using Chemometric-Assisted UV-Spectrophotometry. In PHARMACEUTICS. ISSN 1999-4923, 2017, vol. 9, no. 1, pp., Registrované v: WOS

313. [1.1] MOHANRAJ, Remya. Plant-derived resorbable polymers in tissue engineering. In MATERIALS FOR BIOMEDICAL ENGINEERING: ABSORBABLE POLYMERS, 2019, vol., no., pp. 19-40., Registrované v: WOS

314. [1.1] MONEO-SANCHEZ, M. - IZQUIERDO, L. - MARTIN, I. - HERNANDEZ-NISTAL, J. - ALBORNOS, L. - DOPICO, B. - LABRADOR, E. Knockout mutants of Arabidopsis thaliana beta-galactosidase. Modifications in the cell wall saccharides and enzymatic activities. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2018, vol. 62, no. 1, pp. 80-88., Registrované v: WOS

315. [1.1] MORALES-MARTINEZ, Yareli - DEL ROCIO LOPEZ-CUELLAR, Ma - CHAVARRIA-HERNANDEZ, Norberto - INES RODRIGUEZ-HERNANDEZ, Adriana. Rheological behaviour of acetylated pectins from cactus pear fruits (*Opuntia albicarpa* and *O. matudae*). In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 85, no., pp. 110-119., Registrované v: WOS

316. [1.1] MUHAMMAD, Gulzar - HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - FARID-UL-HAQ, Muhammad - ZAMAN, Muhammad. Stimuli-responsive/smart tablet formulations (under simulated physiological conditions) for oral drug delivery system based on glucuronoxylan polysaccharide. In DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY. ISSN 0363-9045, 2020, vol. 46, no. 1, pp. 122-134. Dostupné na: <https://doi.org/10.1080/03639045.2019.1706551>., Registrované v: WOS

317. [1.1] NAGEL, Andreas - CONRAD, Juergen - LEITENBERGER, Martin - CARLE, Reinhold - NEIDHART, Sybille. Structural studies of the arabinogalactans in *Mangifera indica* L. fruit exudate. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 61, no., pp. 555-566., Registrované v: WOS

318. [1.1] NAKAGAWA, Yoshiyuki - NAKASAKO, Satoshi - OHTA, Seiichi - ITO, Taichi. A biocompatible calcium salt of hyaluronic acid grafted with polyacrylic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 43-53., Registrované v: WOS

319. [1.1] NEFFA, M. - TAOURIRTE, M. - OUAZZANI, N. - HANINE, H. Eco-friendly approach for elimination of olive mill wastewaters (OMW) toxicity using cactus prickly pears juice as a coagulant. In WATER PRACTICE AND TECHNOLOGY. ISSN 1751-231X, 2020, vol. 15, no. 4, pp. 1050-1067. Dostupné na: <https://doi.org/10.2166/wpt.2020.076>., Registrované v: WOS

320. [1.1] NEP, E. I. - SIMS, I. M. - MORRIS, G. A. - KONTOGIORGOS, V. - SMITH, A. M. Evaluation of some important

- physicochemical properties of starch free grewia gum. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 53, no., pp. 134-140., Registrované v: WOS
321. [1.1] NIEVA LOBOS, Maria Luz - SIEBEN, Juan Manuel - MOYANO, Elizabeth Laura. Softwood Kraft Pulp-Derived Carbon-Supported PtNi Catalysts for the Electrooxidation of Ethanol. In *FRONTIERS IN MATERIALS*. ISSN 2296-8016, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.3389/fmats.2020.588399>., Registrované v: WOS
322. [1.1] NOBRE, Karine A. - SOARES, Carlos E. A. - VIEIRA, Icaro G. P. - DE ALMEIDA, Raimondo R. - MOREIRA, Renato de A. - DE ARAUJO, Tamara G. - RIBEIRO, Maria E. N. P. - RICARDO, Nagila M. P. S. Adenantha pavonina GALACTOMANNAN FOR CONTROLLED DELIVERY OF RUTIN A PRELIMINARY STUDY. In *QUIMICA NOVA*. ISSN 0100-4042, 2018, vol. 41, no. 6, pp. 607-612., Registrované v: WOS
323. [1.1] OGNJANOV, Manol - GEORGIEV, Yordan - PETKOVA, Nadezhda - IVANOV, Ivan - VASILEVA, Ivelina - KRATCHANOVA, Maria. Isolation and Characterization of Pectic Polysaccharide Fraction from In Vitro Suspension Culture of *Fumaria officinalis* L. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
324. [1.1] OGNJANOV, Manol - REMOROZA, Connie - SCHOLS, Henk A. - GEORGIEV, Yordan N. - PETKOVA, Nadezhda Tr. - KRYSTYJAN, Magdalena. Structural, rheological and functional properties of galactose-rich pectic polysaccharide fraction from leek. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115549>., Registrované v: WOS
325. [1.1] OCHOA-YEPES, Oswaldo - DI GIOGIO, Luciana - GOYANES, Silvia - MAURI, Adriana - FAMA, Lucia. Influence of process (extrusion/thermo-compression, casting) and lentil protein content on physicochemical properties of starch films. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 208, no., pp. 221-231., Registrované v: WOS
326. [1.1] OINONEN, Petri - KRAWCZYK, Holger - EK, Monica - HENRIKSSON, Gunnar - MORIANA, Rosana. Bioinspired composites from cross-linked galactoglucomannan and microfibrillated cellulose: Thermal, mechanical and oxygen barrier properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 136, no., pp. 146-153., Registrované v: WOS
327. [1.1] OLAWUYI, Ibukunoluwa Fola - KIM, Soo Rin - HAHN, Dongyup - LEE, Won Young. Influences of combined enzyme-ultrasonic extraction on the physicochemical characteristics and properties of okra polysaccharides. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105396>., Registrované v: WOS
328. [1.1] OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. - KORYAKINA, Lena P. - VLADIMIROV, Leonid N. Bitter Gentian Teas: Nutritional and Phytochemical Profiles, Polysaccharide Characterisation and Bioactivity. In *MOLECULES*, 2015, vol. 20, no. 11, pp. 20014-20030., Registrované v: WOS
329. [1.1] OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. Meadowsweet Teas as New Functional Beverages: Comparative Analysis of Nutrients, Phytochemicals and Biological Effects of

- Four *Filipendula* Species. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 1, pp., Registrované v: WOS
330. [1.1] OLIVEIRA, Fernanda de Carvalho - SRINIVAS, Keerthi - HELMS, Gregory L. - ISERN, Nancy G. - CORT, John R. - GONCALVES, Adilson Roberto - AHRING, Birgitte Kiaer. Characterization of coffee (*Coffea arabica*) husk lignin and degradation products obtained after oxygen and alkali addition. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 172-180., Registrované v: WOS
331. [1.1] ONDITI, Mariah - ADELODUN, Adedeji A. - CHANGAMU, Evans O. - NGILA, Jane C. Removal of Pb²⁺ and Cd²⁺ from drinking water using polysaccharide extract isolated from cactus pads (*Opuntia ficus indica*). In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2016, vol. 133, no. 38, pp., Registrované v: WOS
332. [1.1] ONDITI, Mariah - BOSIRE, Geoffrey - CHANGAMU, Evans - NGILA, Catherine. Degradation of Rhodamine B Dye by Cactus Polysaccharide-Synthesized Silver Nanoparticles Monitored by Fluorescence Excitation-Emission Matrix (FEEM) Spectroscopy. In *STARCH-STARKE*. ISSN 0038-9056, 2019, vol. 71, no. 5-6, pp., Registrované v: WOS
333. [1.1] OZGENC, Ozlem - DURMAZ, Sefa - KUSTAS, Suleyman. Chemical Analysis of Tree Barks using ATR-FTIR Spectroscopy and Conventional Techniques. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 9143-9151., Registrované v: WOS
334. [1.1] PANIAGUA, Candelas - BLANCO-PORTALES, Rosario - BARCELO-MUNOZ, Marta - GARCIA-GAGO, Juan A. - WALDRON, Keith W. - QUESADA, Miguel A. - MUNOZ-BLANCO, Juan - MERCADO, Jose A. Antisense down-regulation of the strawberry beta-galactosidase gene *Fa beta Gal4* increases cell wall galactose levels and reduces fruit softening. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2016, vol. 67, no. 3, pp. 619-631., Registrované v: WOS
335. [1.1] PANIAGUA, Candelas - SANTIAGO-DOMENECH, Nieves - KIRBY, Andrew R. - GUNNING, A. Patrick - MORRIS, Victor J. - QUESADA, Miguel A. - MATAS, Antonio J. - MERCADO, Jose A. Structural changes in cell wall pectins during strawberry fruit development. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 118, no., pp. 55-63., Registrované v: WOS
336. [1.1] PAN, Xinwei - WANG, Liqing - LING, Feng - LI, Yuhui - HAN, Dongxu - PANG, Qi - JIA, Lishan. A novel biomass assisted synthesis of Au-SrTiO₃ as a catalyst for direct hydrogen generation from formaldehyde aqueous solution at low temperature. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. ISSN 0360-3199, 2015, vol. 40, no. 4, pp. 1752-1759., Registrované v: WOS
337. [1.1] PAPPAS, Christos - KYRALEOU, Maria - VOSKIDI, Eleni - KOTSERIDIS, Yorgos - TARANILIS, Petros A. - KALLITHRAKA, Stamatina. Direct and Simultaneous Quantification of Tannin Mean Degree of Polymerization and Percentage of Galloylation in Grape Seeds Using Diffuse Reflectance Fourier Transform-Infrared Spectroscopy. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2015, vol. 80, no. 2, pp. C298-C306., Registrované v: WOS
338. [1.1] PARK, Hye-Ryung - PARK, Su Beom - HONG, Hee-Do - SUH, Hyung Joo - SHIN, Kwang-Soon. Structural elucidation of anti-metastatic

- rhamnogalacturonan II from the pectinase digest of citrus peels (Citrus unshiu). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 161-169., Registrované v: WOS
339. [1.1] PARK, Hye-Ryung - SHIN, Kwang-Soon. Structural elucidation of an anti-metastatic polysaccharide from the peels of Korean citrus Hallabong. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 225, no., pp., Registrované v: WOS
340. [1.1] PARSHINA, Lidiya N. - GRISHCHENKO, Lyudmila A. - LARINA, Lyudmila I. - NOVIKOVA, Lyubov N. - TROFIMOV, Boris A. Cross-coupling of propargylated arabinogalactan with 2-bromothiophene. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 150, no., pp. 82-88., Registrované v: WOS
341. [1.1] PASCHOAL, Giovanni B. - MULLER, Carmen M. O. - CARVALHO, Gizilene M. - TISCHER, Cesar A. - MALI, Suzana. ISOLATION AND CHARACTERIZATION OF NANOFIBRILLATED CELLULOSE FROM OAT HULLS. In QUIMICA NOVA. ISSN 0100-4042, 2015, vol. 38, no. 4, pp. 478-482., Registrované v: WOS
342. [1.1] PAVLOU, Alexandros - RITZOULIS, Christos - FILOTHEOU, Andreas - PANAYIOTOU, Costas. Emulsifiers Extracted from Winery Waste. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2016, vol. 7, no. 3, pp. 533-542., Registrované v: WOS
343. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (Crataegus monogyna Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
344. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - WILK, Kazimiera A. Effect of various extraction methods on the structure of polyphenolic-polysaccharide conjugates from Fragaria vesca L. leaf. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 130, no., pp. 664-674., Registrované v: WOS
345. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - CAPEK, Peter - MATULOVA, Maria - WILK, Kazimiera A. New isolation process for bioactive food fiber from wild strawberry leaf. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107639>., Registrované v: WOS
346. [1.1] PEREIRA, Gustavo Araujo - SILVA, Eric Keven - PEIXOTO ARAUJO, Nayara Macedo - ARRUDA, Henrique Silvano - MEIRELES, M. Angela A. - PASTORE, Glaucia Maria. Obtaining a novel mucilage from mutamba seeds exploring different high intensity ultrasound process conditions. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2019, vol. 55, no., pp. 332-340., Registrované v: WOS
347. [1.1] PHILIPPE, Glenn - GENEIX, Nathalie - PETIT, Johann - GUILLON, Fabienne - SANDT, Christophe - ROTHAN, Christophe - LAHAYE, Marc - MARION, Didier - BAKAN, Benedicte. Assembly of tomato fruit cuticles: a cross-talk between the cutin polyester and cell wall polysaccharides. In NEW PHYTOLOGIST. ISSN 0028-646X, 2020, vol. 226, no. 3, pp. 809-822. Dostupné na: <https://doi.org/10.1111/nph.16402>., Registrované v: WOS
348. [1.1] PODGORSKA, Anna - BURIAN, Maria - GIECZEWSKA,

Katarzyna - OSTASZEWSKA-BUGAJSKA, Monika - ZEBROWSKI, Jacek - SOLECKA, Danuta - SZAL, Bozena. Altered Cell Wall Plasticity Can Restrict Plant Growth under Ammonium Nutrition. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS 349. [1.1] POP, Carmen R. - SALANTA, Liana - ROTAR, Ancuta M. - SEMENIUC, Cristina A. - SOCACIU, Carmen - SINDIC, Marianne. Influence of extraction conditions on characteristics of microbial polysaccharide kefiran isolated from kefir grains biomass. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2016, vol. 55, no. 2, pp. 121-130., Registrované v: WOS 350. [1.1] PORTO, Nathalia de A. - ROQUE, Jussara V. - WARTHA, Cleiton A. - CARDOSO, Wilson - PETERNELLI, Luiz A. - BARBOSA, Marcio H. P. - TEOFILLO, Reinaldo F. Early prediction of sugarcane genotypes susceptible and resistant to *Diatraea saccharalis* using spectroscopies and classification techniques. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2019, vol. 218, no., pp. 69-75., Registrované v: WOS 351. [1.1] POSE, Sara - KIRBY, Andrew R. - PANIAGUA, Candelas - WALDRON, Keith W. - MORRIS, Victor J. - QUESADA, Miguel A. - MERCADO, Jose A. The nanostructural characterization of strawberry pectins in pectate lyase or polygalacturonase silenced fruits elucidates their role in softening. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 134-145., Registrované v: WOS 352. [1.1] POUDEL, Suresh - GIANNONE, Richard J. - RODRIGUEZ, Miguel - RAMAN, Babu - MARTIN, Madhavi Z. - ENGLE, Nancy L. - MIELENZ, Jonathan R. - NOOKAEW, Intawat - BROWN, Steven D. - TSCHAPLINSKI, Timothy J. - USSERY, David - HETTICH, Robert L. Integrated omics analyses reveal the details of metabolic adaptation of *Clostridium thermocellum* to lignocellulose-derived growth inhibitors released during the deconstruction of switchgrass. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS 353. [1.1] POZO, Claudio - DIAZ-VISURRAGA, Judith - CONTRERAS, David - FREER, Juanita - RODRIGUEZ, Jaime. CHARACTERIZATION OF TEMPORAL BIODEGRADATION OF RADIATA PINE BY GLOEOPHYLLUM TRABEUM THROUGH PRINCIPAL COMPONENT ANALYSIS-BASED TWO-DIMENSIONAL CORRELATION FTIR SPECTROSCOPY. In JOURNAL OF THE CHILEAN CHEMICAL SOCIETY. ISSN 0717-9707, 2016, vol. 61, no. 2, pp. 2878-2883., Registrované v: WOS 354. [1.1] PRADO, Samira B. R. - BEUKEMA, Martin - JERMENDI, Eva - SCHOLS, Henk A. - DE VOS, Paul - FABI, Joao Paulo. Pectin Interaction with Immune Receptors is Modulated by Ripening Process in Papayas. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-58311-0>., Registrované v: WOS 355. [1.1] PU, Xiuying - MA, Xiaolong - LIU, Lu - REN, Jing - LI, Haibing - LI, Xiaoyue - YU, Shuang - ZHANG, Weijie - FAN, Wenbo. Structural characterization and antioxidant activity in vitro of polysaccharides from angelica and astragalus. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, no., pp. 154-164., Registrované v: WOS 356. [1.1] PYNAM, Hasitha - DHARMESH, Shylaja Mallaiah. A xylorhamnoarabinogalactan I from Bael (*Aegle marmelos* L.) modulates

- UV/DMBA induced skin cancer via galectin-3 & gut microbiota. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 60, no., pp., Registrované v: WOS
357. [1.1] QIN, Zhao - MA, Yu-Xiang - LIU, Hua-Min - QIN, Guang-Yong - WANG, Xue-De. Structural elucidation of lignin-carbohydrate complexes (LCCs) from Chinese quince (*Chaenomeles sinensis*) fruit. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 1240-1249., Registrované v: WOS
358. [1.1] QIU, Junqiang - ZHANG, Hua - WANG, Zhenyu - LIU, Shumin - REGENSTEIN, Joe M. Response surface methodology for the synthesis of an *Auricularia auriculajudae* polysaccharides-CDDP complex. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 333-343., Registrované v: WOS
359. [1.1] QI, Guangyan - LI, Ningbo - SUN, Xiuzhi Susan - SHI, Yong-chen - WANG, Donghai. Effects of glycerol and nanoclay on physiochemical properties of camelina gum-based films. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 747-754., Registrované v: WOS
360. [1.1] QUIJADA, Melesio - RIBOULLEAU, Armelle - FAURE, Pierre - MICHELS, Raymond - TRIBOVILLARD, Nicolas. Organic matter sulfurization on protracted diagenetic timescales: The possible role of anaerobic oxidation of methane. In MARINE GEOLOGY. ISSN 0025-3227, 2016, vol. 381, no., pp. 54-66., Registrované v: WOS
361. [1.1] QUILES-CARRILLO, Luis - MONTAVA-JORDA, Sergi - BORONAT, Teodomiro - SAMMON, Chris - BALART, Rafael - TORRES-GINER, Sergio. On the Use of Gallic Acid as a Potential Natural Antioxidant and Ultraviolet Light Stabilizer in Cast-Extruded Bio-Based High-Density Polyethylene Films. In POLYMERS, 2020, vol. 12, no. 1, pp. Dostupné na: <https://doi.org/10.3390/polym12010031>., Registrované v: WOS
362. [1.1] QU, Yan - LI, Chunxue - ZHANG, Chen - ZENG, Rui - FU, Chaomei. Optimization of infrared-assisted extraction of *Bletilla striata* polysaccharides based on response surface methodology and their antioxidant activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 148, no., pp. 345-353., Registrované v: WOS
363. [1.1] RABELO, Renata S. - TAVARES, Guilherme M. - PRATA, Ana S. - HUBINGER, Miriam D. Complexation of chitosan with gum Arabic, sodium alginate and kappa-carrageenan: Effects of pH, polymer ratio and salt concentration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 223, no., pp., Registrované v: WOS
364. [1.1] RAMOS DO PRADO, Samira Bernardino - SANTOS, Gustavo R. C. - MOURAO, Paulo A. S. - FABÍ, Joao Paulo. Chelate-soluble pectin fraction from papaya pulp interacts with galectin-3 and inhibits colon cancer cell proliferation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, no., pp. 170-178., Registrované v: WOS
365. [1.1] RAMOS-AGUILAR, Ana L. - VICTORIA-CAMPOS, Claudia I. - OCHOA-REYES, Emilio - DE JESUS ORNELAS-PAZ, Jose - ZAMUDIO-FLORES, Paul B. - RIOS-VELASCO, Claudio - REYES-HERNANDEZ, Jaime - PEREZ-MARTINEZ, Jaime D. - IBARRA-JUNQUERA, Vrani. Physicochemical properties of apple juice during

sequential steps of the industrial processing and functional properties of pectin fractions from the generated pomace. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 86, no., pp. 465-472.,

Registrované v: WOS

366. [1.1] RANA, Rumana - HERZ, Katharina - BRUELHEIDE, Helge - DIETZ, Sophie - HAIDER, Sylvia - JANDT, Ute - PENA, Rodica. Leaf Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) biochemical profile of grassland plant species related to land-use intensity. In ECOLOGICAL INDICATORS. ISSN 1470-160X, 2018, vol. 84, no., pp. 803-810., Registrované v: WOS

367. [1.1] RANJBARVAN, Parviz - MAHMOUDIFARD, Matin - KEHTARI, Mousa - BABAIE, Ali - HAMED, Shokoh - MIRZAEI, Samaneh - SOLEIMANI, Masoud - HOSSEINZADEH, Simzar. Natural Compounds for Skin Tissue Engineering by Electrospinning of Nylon-Beta Vulgaris. In ASAIIO JOURNAL. ISSN 1058-2916, 2018, vol. 64, no. 2, pp. 261-269., Registrované v: WOS

368. [1.1] RAZAVI, Seyed Mohammad Ali - CUI, Steve W. - DING, Huihuang. Structural and physicochemical characteristics of a novel water-soluble gum from Lallemandia royleana seed. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 83, no., pp. 142-151., Registrované v: WOS

369. [1.1] RAZMKHAH, Somayeh - RAZAVI, Seyed Mohammad Ali - MOHAMMADIFAR, Mohammad Amin - ALE, Marcel Tutor - GAVLIGHI, Hassan Ahmadi. Protein-free cress seed (Lepidium sativum) gum: Physicochemical characterization and rheological properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 14-24., Registrované v: WOS

370. [1.1] RAZMKHAH, Somayeh - RAZAVI, Seyed Mohammad Ali - MOHAMMADIFAR, Mohammad Amin - KOOCHKEI, Arash - ALE, Marcel Tutor. Stepwise extraction of Lepidium sativum seed gum: Physicochemical characterization and functional properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 88, no., pp. 553-564., Registrované v: WOS

371. [1.1] RAZMKHAH, Somayeh - MOHAMMADIFAR, Mohammad Amin - RAZAVI, Seyed Mohammad Ali - ALE, Marcel Tutor. Purification of cress seed (Lepidium sativum) gum: Physicochemical characterization and functional properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 141, no., pp. 166-174., Registrované v: WOS

372. [1.1] REBAQUE, Diego - MARTINEZ-RUBIO, Romina - FORNALE, Silvia - GARCIA-ANGULO, Penelope - ALONSO-SIMON, Ana - ALVAREZ, Jesus M. - CAPARROS-RUIZ, David - ACEBES, Jose L. - ENCINA, Antonio. Characterization of structural cell wall polysaccharides in cattail (Typha latifolia): Evaluation as potential biofuel feedstock. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 679-688., Registrované v: WOS

373. [1.1] REN, Huan - ZONG, Min-Hua - WU, Hong - LI, Ning. Utilization of Seawater for the Biorefinery of Lignocellulosic Biomass: Ionic Liquid Pretreatment, Enzymatic Hydrolysis, and Microbial Lipid Production. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5659-5666., Registrované v: WOS

374. [1.1] REN, Yi - YAKUBOV, Gleb E. - LINTER, Bruce R. - MACNAUGHTAN, William - FOSTER, Tim J. Temperature fractionation, physicochemical and rheological analysis of psyllium seed husk heteroxylan. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 104, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105737>., Registrované v: WOS
375. [1.1] RESENDE, Lais M. - OLIVEIRA, Leandro S. - FRANCA, Adriana S. Characterization of jabuticaba (*Plinia cauliflora*) peel flours and prediction of compounds by FTIR analysis. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.110135>., Registrované v: WOS
376. [1.1] REZAGHOLI, Fatemeh - HASHEMI, Seyed Mohammad Bagher - GHOLAMHOSSEINPOUR, Aliakbar - SHERAHI, Mousa Hamidabadi - HESARINEJAD, Mohammad Ali - ALE, Marcel T. Characterizations and rheological study of the purified polysaccharide extracted from quince seeds. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 1, pp. 143-151., Registrované v: WOS
377. [1.1] RICO, Cyren M. - PERALTA-VIDEA, Jose R. - GARDEA-TORRESDEY, Jorge L. Differential Effects of Cerium Oxide Nanoparticles on Rice, Wheat, and Barley Roots: A Fourier Transform Infrared (FT-IR) Microspectroscopy Study. In APPLIED SPECTROSCOPY. ISSN 0003-7028, 2015, vol. 69, no. 2, pp. 287-295., Registrované v: WOS
378. [1.1] RIEDER, Anne - BALLANCE, Simon - BOCKER, Ulrike - KNUTSEN, Svein. Quantification of 1,3-beta-D-glucan from yeast added as a functional ingredient to bread. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 34-42., Registrované v: WOS
379. [1.1] RJEIBI, Ilhem - HENTATI, Faiez - FERIANI, Anouar - HFAIEDH, Najla - DELATTRE, Cedric - MICHAUD, Philippe - PIERRE, Guillaume. Novel Antioxidant, Anti-alpha-Amylase, Anti-Inflammatory and Antinociceptive Water-Soluble Polysaccharides from the Aerial Part of *Nitraria retusa*. In FOODS, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/foods9010028>., Registrované v: WOS
380. [1.1] RODRIGUES, Delane C. - CUNHA, Arcelina P. - BRITO, Edy S. - AZEREDO, Henriette M. C. - GALLAO, Maria Izabel. Mesquite seed gum and palm fruit oil emulsion edible films: Influence of oil content and sonication. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 56, no., pp. 227-235., Registrované v: WOS
381. [1.1] RODRIGUEZ-RESTREPO, Yeimy A. - ROCHA, Cristina M. R. - TEIXEIRA, Jose A. - ORREGO, Carlos E. Valorization of Passion Fruit Stalk by the Preparation of Cellulose Nanofibers and Immobilization of Trypsin. In FIBERS AND POLYMERS. ISSN 1229-9197, 2020, vol. 21, no. 12, pp. 2807-2816. Dostupné na: <https://doi.org/10.1007/s12221-020-1342-2>., Registrované v: WOS
382. [1.1] ROJEK, Barbara - WESOŁOWSKI, Marek. Fourier transform infrared spectroscopy supported by multivariate statistics in compatibility study of atenolol with excipients. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2016, vol. 86, no., pp. 190-197., Registrované v: WOS
383. [1.1] RONG, A. - ZHANG, Meili - LU, Yu - ZHANG, Huijie - BAI, Xue. The structural studies of a polysaccharide purified from Oat Lao-Chao. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY.

ISSN 0950-5423, 2020, vol. 55, no. 12, pp. 3563-3573. Dostupné na:

<https://doi.org/10.1111/ijfs.14690>., Registrované v: WOS

384. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (*Medicago sativa* (Fabaceae)) of Flora of Krasnoyarsk Krai. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS

385. [1.1] ROZILAH, A. - JAAFAR, C. N. Aiza - SAPUAN, S. M. - ZAINOL, I. - ILYAS, R. A. The Effects of Silver Nanoparticles Compositions on the Mechanical, Physicochemical, Antibacterial, and Morphology Properties of Sugar Palm Starch Biocomposites for Antibacterial Coating. In POLYMERS, 2020, vol. 12, no. 11, pp. Dostupné na: <https://doi.org/10.3390/polym12112605>., Registrované v: WOS

386. [1.1] SABAGHI, Sanaz - FATEHI, Pedram. Polarity of Cationic Lignin Polymers: Physicochemical Behavior in Aqueous Solutions and Suspensions. In CHEMSUSCHEM. ISSN 1864-5631, 2020, vol. 13, no. 17, pp. 4722-4734. Dostupné na: <https://doi.org/10.1002/cssc.202000897>., Registrované v: WOS

387. [1.1] SALARBASHI, Davoud - TAFAGHODI, Mohsen - BAZZAZ, Bibi Sedigheh Fazly - JAFARI, Behrouz. Characterization of soluble soybean (SSPS) polysaccharide and development of eco-friendly SSPS/TiO₂ nanoparticle bionanocomposites. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 112, no., pp. 852-861., Registrované v: WOS

388. [1.1] SALARBASHI, Davoud - TAFAGHODI, Mohsen - BAZZAZ, Bibi Sedigheh Fazly. Soluble soybean polysaccharide/TiO₂ bionanocomposite film for food application. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 186, no., pp. 384-393., Registrované v: WOS

389. [1.1] SALEHI, Elnaz - EMAM-DJOMEH, Zahra - ASKARI, Gholamreza - FATHI, Morteza. Opuntia ficus indica fruit gum: Extraction, characterization, antioxidant activity and functional properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 565-572., Registrované v: WOS

390. [1.1] SALEHI, Mohammad - TABARSA, Mehdi - AMRAIE, Milad - ANVARI, Mohammad - REZAEI, Masoud - SMITH, Brennan M. Characterization of rheological and structural properties of a gum from Balangu seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 294-300., Registrované v: WOS

391. [1.1] SANGFAI, Tanatchaporn - TANTISHAIYAKUL, Vimom - HIRUN, Namon - LI, Lin. Preparation and characterization of kappa-carrageenan and xyloglucan blends for sustained release of a hydrophilic drug. In POLYMER BULLETIN. ISSN 0170-0839, 2015, vol. 72, no. 7, pp. 1647-1661., Registrované v: WOS

392. [1.1] SANTEK, M. Ivancic - ZVONAR, I. - BELUHAN, S. - SANTEK, B. Production of Bioethanol from Corn Cobs. In KEMIJA U INDUSTRIJI-JOURNAL OF CHEMISTS AND CHEMICAL ENGINEERS. ISSN 0022-9830, 2018, vol. 67, no. 7-8, pp. 297-308., Registrované v: WOS

393. [1.1] SAPINA, Maria - JIMENEZ-RELINQUE, Eva - NEVSHUPA, Roman - ROMAN, Elisa - CASTELLOTE, Marta. Degradation of pollen on

nanofunctionalized photocatalytic materials. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 1, pp. 210-216., Registrované v: WOS

394. [1.1] SAYIN, S. - KOHLHAAS, T. - VEZIROGLU, S. - OKUDAN, E. S. - NAZ, M. - SCHROEDER, S. - SAYGILI, E. - ACIL, Y. - FAUPEL, F. - WILTFANG, J. - AKTAS, O. C. - GUELSES, A. Marine Algae-PLA composites as de novo alternative to porcine derived collagen membranes. In MATERIALS TODAY CHEMISTRY. ISSN 2468-5194, 2020, vol. 17, no., pp. Dostupné na: <https://doi.org/10.1016/j.mtchem.2020.100276>., Registrované v: WOS

395. [1.1] SELLAMI, Sahar - LE HIR, Rozenn - THORPE, Michael R. - VILAINE, Francoise - WOLFF, Nelly - BRINI, Faical - DINANT, Sylvie. Salinity Effects on Sugar Homeostasis and Vascular Anatomy in the Stem of the Arabidopsis Thaliana Inflorescence. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 13, pp., Registrované v: WOS

396. [1.1] SELVAN, D. Arumai - MAHENDIRAN, D. - KUMAR, R. Senthil - RAHIMAN, A. Kalilur. Garlic, green tea and turmeric extracts-mediated green synthesis of silver nanoparticles: Phytochemical, antioxidant and in vitro cytotoxicity studies. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2018, vol. 180, no., pp. 243-252., Registrované v: WOS

397. [1.1] SEMJONOV, P. - SHAKIROVA, L. - TREIMANE, R. - SHVIRKSTS, K. - AUZINA, L. - CLEENWERCK, I. - ZIKMANIS, P. Production of extracellular fructans by Gluconobacter naphelii P1464. In LETTERS IN APPLIED MICROBIOLOGY. ISSN 0266-8254, 2016, vol. 62, no. 2, pp. 145-152., Registrované v: WOS

398. [1.1] SHAH, Asima - AHMAD, Mudassir - ASHWAR, Bilal Ahmad - GANI, Adil - MASOODI, Farooq Ahmad - WANI, Idrees Ahmed - WANI, Sajad Mohd - GANI, Asir. Effect of gamma-irradiation on structure and nutraceutical potential of beta-D-glucan from barley (Hordeum vulgare). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 1168-1175., Registrované v: WOS

399. [1.1] SHAH, Asima - GANI, Adil - AHMAD, Mudassir - ASHWAR, Bilal Ahmad - MASOODI, F. A. beta-Glucan as an encapsulating agent: Effect on probiotic survival in simulated gastrointestinal tract. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 217-222., Registrované v: WOS

400. [1.1] SHAH, Asima - MASOODI, F. A. - GANI, Adil - ASHWAR, Bilal Ahmad. Effect of gamma-irradiation on antioxidant and antiproliferative properties of oat beta-glucan. In RADIATION PHYSICS AND CHEMISTRY. ISSN 0969-806X, 2015, vol. 117, no., pp. 120-127., Registrované v: WOS

401. [1.1] SHARIFI, M. - KHOSHGOFTARMANESH, A. H. - HADADZADEH, H. Changes in the chemical properties and swelling coefficient of alfalfa root cell walls in the presence of toluene as a toxic agent. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 7, pp. 7022-7031., Registrované v: WOS

402. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN

- 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS
403. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. Extraction, characterization of xylan from *Azadirachta indica* (neem) sawdust and production of antiproliferative xylooligosaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>., Registrované v: WOS
404. [1.1] SHARMA, Sweta - UTTAM, K. N. Investigation of the manganese stress on wheat plant by attenuated total reflectance Fourier transform infrared spectroscopy. In *SPECTROSCOPY LETTERS*. ISSN 0038-7010, 2016, vol. 49, no. 8, pp. 520-528., Registrované v: WOS
405. [1.1] SHARMA, Sweta - UTTAM, Rahul - SINGH, Praveen - UTTAM, K. N. Detection of Vibrational Spectroscopic Biomarkers of the Effect of Gold Nanoparticles on Wheat Seedlings Using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2018, vol. 51, no. 14, pp. 2271-2294., Registrované v: WOS
406. [1.1] SHARMA, Sweta - UTTAM, K. N. Early Diagnosis of Mercury Stress of Wheat Seedlings Using Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2018, vol. 51, no. 10, pp. 1544-1563., Registrované v: WOS
407. [1.1] SHARMA, Sweta - UTTAM, K. N. Non-Destructive Assessment of the Impact of Selenium Treatment on the Biochemical Profile of the Leaves of Wheat Seedlings by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2020, vol. 53, no. 11, pp. 1794-1811. Dostupné na: <https://doi.org/10.1080/00032719.2020.1719127>., Registrované v: WOS
408. [1.1] SHARM, Sweta - UTTAM, K. N. Rapid analyses of stress of copper oxide nanoparticles on wheat plants at an early stage by laser induced fluorescence and attenuated total reflectance Fourier transform infrared spectroscopy. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2017, vol. 92, no., pp. 135-150., Registrované v: WOS
409. [1.1] SHEIKH, Fatima Akbar - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - HASEEB, Muhammad Tahir - FARID-UL-HAQ, Muhammad. Linseed hydrogel based floating drug delivery system for fluoroquinolone antibiotics: Design, in vitro drug release and in vivo real-time floating detection. In *SAUDI PHARMACEUTICAL JOURNAL*. ISSN 1319-0164, 2020, vol. 28, no. 5, pp. 538-549. Dostupné na: <https://doi.org/10.1016/j.jsps.2020.03.005>., Registrované v: WOS
410. [1.1] SHERAHI, Mousa Hamidabadi - FATHI, Morteza - ZHANDARI, Fatemeh - HASHEMI, Seyed Mohammad Bagher - RASHIDI, Afshin. Structural characterization and physicochemical properties of *Descurainia sophia* seed gum. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 66, no., pp. 82-89., Registrované v: WOS
411. [1.1] SHIN, Myoung-Sook - PARK, Su Beom - SHIN, Kwang-Soon. Molecular mechanisms of immunomodulatory activity by polysaccharide isolated from the peels of *Citrus unshiu*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 112, no.,

pp. 576-583., Registrované v: WOS

412. [1.1] SHI, Chen-Shan - SANG, Ya-Xin - SUN, Gui-Qing - LI, Tian-Ye - GONG, Zheng-Si - WANG, Xiang-Hong. Characterization and bioactivities of a novel polysaccharide obtained from *Gracilariopsis lemaneiformis*. In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2017, vol. 89, no. 1, pp. 175-189., Registrované v: WOS

413. [1.1] SHI, Xiaofeng - WANG, Chao - ZHANG, Jiaoxia - GUO, Li - LIN, Jing - PAN, Duo - ZHOU, Juying - FAN, Jincheng - DING, Tao - GUO, Zhanhu. Zwitterionic glycine modified Fe/Mg-layered double hydroxides for highly selective and efficient removal of oxyanions from polluted water. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY. ISSN 1005-0302, 2020, vol. 51, no., pp. 8-15. Dostupné na:

<https://doi.org/10.1016/j.jmst.2019.12.034>., Registrované v: WOS

414. [1.1] SHI, Xiao-Dan - YIN, Jun-Yi - ZHANG, Liu-Jing - HUANG, Xiao-Jun - NIE, Shao-Ping. Studies on O-acetyl-glucomannans from *Amorphophallus* species: Comparison of physicochemical properties and primary structures. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 89, no., pp. 503-511., Registrované v: WOS

415. [1.1] SCHEEPERS, Maxime - SPIELMANN, Julien - BOULANGER, Madeleine - CARNOL, Monique - BOSMAN, Bernard - DE PAUW, Edwin - GOORMAGHTIGH, Erik - MOTTE, Patrick - HANIKENNE, Marc. Intertwined metal homeostasis, oxidative and biotic stress responses in the *Arabidopsis frd3* mutant. In PLANT JOURNAL. ISSN 0960-7412, 2020, vol. 102, no. 1, pp. 34-52. Dostupné na: <https://doi.org/10.1111/tpj.14610>., Registrované v: WOS

416. [1.1] SCHOENAERS, Sebastien - BALCEROWICZ, Daria - BREEN, Gordon - HILL, Kristine - ZDANIO, Malgorzata - MOUILLE, Gregory - HOLMAN, Tara J. - OH, Jaesung - WILSON, Michael H. - NIKONOROVA, Natalia - VU, Lam Dai - DE SMET, Ive - SWARUP, Ranjan - DE VOS, Winnok H. - PINTELOON, Isabel - ADRIAENSEN, Dirk - GRIERSON, Claire - BENNETT, Malcolm J. - VISSENBERG, Kris. The Auxin-Regulated CrRLK1L Kinase ERULUS Controls Cell Wall Composition during Root Hair Tip Growth. In CURRENT BIOLOGY. ISSN 0960-9822, 2018, vol. 28, no. 5, pp. 722-+, Registrované v: WOS

417. [1.1] SILAMBARASAN, Sivagnanam - LOGESWARI, Peter - CORNEJO, Pablo - KANNAN, Velu Rajesh. Evaluation of the production of exopolysaccharide by plant growth promoting yeast *Rhodotorula* sp. strain CAH2 under abiotic stress conditions. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, no., pp. 55-62., Registrované v: WOS

418. [1.1] SIMS, Ian M. - SMITH, Alan M. - MORRIS, Gordon A. - GHORI, Muhammad U. - CARNACHAN, Susan M. Structural and rheological studies of a polysaccharide mucilage from lacebark leaves (*Hoheria populnea* A. Cunn.). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 839-847., Registrované v: WOS

419. [1.1] SINGH, Mandeep - PAHAL, Vikas - AHUJA, Dheeraj. Isolation and characterization of microfibrillated cellulose and nanofibrillated cellulose with "biomechanical hotspots". In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na:

- <https://doi.org/10.1016/j.carbpol.2020.115827>., Registrované v: WOS
420. [1.1] SINGH, Ravindra Pal - PRAKASH, Suraj - BHATIA, Ruchika - NEGI, Manorma - SINGH, Jagdeep - BISHNOI, Mahendra - KONDEPUDI, Kanthi Kiran. Generation of structurally diverse pectin oligosaccharides having prebiotic attributes. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 108, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105988>., Registrované v: WOS
421. [1.1] SINGH, R. D. - BHUYAN, K. - BANERJEE, J. - MUIR, J. - ARORA, A. Hydrothermal and microwave assisted alkali pretreatment for fractionation of arecanut husk. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 102, no., pp. 65-74., Registrované v: WOS
422. [1.1] SINGH, R. S. - KAUR, Navpreet. Understanding response surface optimization of medium composition for pullulan production from de-oiled rice bran by *Aureobasidium pullulans*. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, 2019, vol. 28, no. 5, pp. 1507-1520., Registrované v: WOS
423. [1.1] SKENDI, Adriana - MOUSELEMIDOU, Panagiota - PAPAGEORGIOU, Maria - PAPASTERGIADIS, Efthimios. Effect of acorn meal-water combinations on technological properties and fine structure of gluten-free bread. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 253, no., pp. 119-126., Registrované v: WOS
424. [1.1] SLAVOV, Anton - OGNJANOV, Manol - VASILEVA, Ivelina. Pectic polysaccharides extracted from pot marigold (*Calendula officinalis*) industrial waste. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 101, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105545>., Registrované v: WOS
425. [1.1] SLAVOV, Anton - YANTCHEVA, Nikoleta - VASILEVA, Ivelina. Chamomile Wastes (*Matricaria chamomilla*): New Source of Polysaccharides. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2019, vol. 10, no. 9, pp. 2583-2594., Registrované v: WOS
426. [1.1] SOLEIMANI, Majid - TABIL, Lope G. - NIU, Catherine. Delignification of intact biomass and cellulosic coproduct of acid-catalyzed hydrolysis. In AICHE JOURNAL. ISSN 0001-1541, 2015, vol. 61, no. 6, pp. 1783-1791., Registrované v: WOS
427. [1.1] SONG, Young-Ran - HAN, Ah-Ram - LIM, Tae-Gyu - KANG, Ji-Hyun - HONG, Hee-Do. Discrimination of Structural and Immunological Features of Polysaccharides from Persimmon Leaves at Different Maturity Stages. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 2, pp., Registrované v: WOS
428. [1.1] SONG, Young-Ran - HAN, Ah-Ram - PARK, Seul-Gi - CHO, Chang-Won - RHEE, Young-Kyoung - HONG, Hee-Do. Effect of enzyme-assisted extraction on the physicochemical properties and bioactive potential of lotus leaf polysaccharides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 153, no., pp. 169-179. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.252>., Registrované v: WOS
429. [1.1] SOURKI, Abdollah Hematian - KOOCHKEI, Arash - ELAHI, Mohammad. Ultrasound-assisted extraction of beta-D-glucan from hull-less barley: Assessment of physicochemical and functional properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.

- ISSN 0141-8130, 2017, vol. 95, no., pp. 462-475., Registrované v: WOS
430. [1.1] SOUSA, Sonia - PEDROSA, Jorge - RAMOS, Ana - FERREIRA, Paulo J. - GAMELAS, Jose A. F. Surface properties of xylan and xylan derivatives measured by inverse gas chromatography. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2016, vol. 506, no., pp. 600-606., Registrované v: WOS
431. [1.1] SOUSA, Sonia - RAMOS, Ana - EVTUGUIN, Dmitry V. - GAMELAS, Jose A. F. Xylan and xylan derivatives-Their performance in bio-based films and effect of glycerol addition. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 94, no., pp. 682-689., Registrované v: WOS
432. [1.1] SOUZA, N. D. G. - FREIRE, R. M. - CUNHA, A. P. - DA SILVA, M. A. S. - MAZZETTO, S. E. - SOMBRA, A. S. B. - DENARDIN, J. C. - RICARDO, N. M. P. S. - FECHINE, P. B. A. New magnetic nanobiocomposite based in galactomannan/glycerol and superparamagnetic nanoparticles. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2015, vol. 156, no., pp. 113-120., Registrované v: WOS
433. [1.1] SOUZA, Racquel O. S. - ASSREUY, Ana M. S. - MADEIRA, Juliana C. - CHAGAS, Francisco D. S. - PARREIRAS, Luane A. - SANTOS, Gustavo R. C. - MOURAO, Paulo A. S. - PEREIRA, Maria G. Purified polysaccharides of *Geoffroea spinosa* barks have anticoagulant and antithrombotic activities devoid of hemorrhagic risks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 124, no., pp. 208-215., Registrované v: WOS
434. [1.1] STAN, Manuela - POPA, Adriana - TOLOMAN, Dana - DEHELEAN, Adriana - LUNG, Ildiko - KATONA, Gabriel. Enhanced photocatalytic degradation properties of zinc oxide nanoparticles synthesized by using plant extracts. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, 2015, vol. 39, no., pp. 23-29., Registrované v: WOS
435. [1.1] STARR, Timothy - HARPER, David P. - RIALS, Timothy G. The Effects of Electron Beam Irradiation Dose on the Mechanical Performance of Red Maple (*Acer rubrum*). In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 1, pp. 956-969., Registrované v: WOS
436. [1.1] SUNDARRAJ, Antony Allwyn - RANGANATHAN, Thottiam Vasudevan. Physicochemical characterization of Jackfruit (*Artocarpus integer* (Thumb.)). In RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2017, vol. 8, no. 3, pp. 2285-2295., Registrované v: WOS
437. [1.1] SUN, Dan - SUN, Shao-Chao - WANG, Bin - SUN, Shao-Fei - SHI, Quentin - ZHENG, Lu - WANG, Shuang-Fei - LIU, Shi-Jie - LI, Ming-Fei - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. Effect of various pretreatments on improving cellulose enzymatic digestibility of tobacco stalk and the structural features of co-produced hemicelluloses. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122471>., Registrované v: WOS
438. [1.1] SUN, Jiao - XIE, Xin-an - FAN, Di - WANG, Xin - LIAO, Weiting. Effect of TEMPO and characterization of bio-oil from cellulose liquefaction in supercritical ethanol. In RENEWABLE ENERGY. ISSN 0960-1481, 2020, vol. 145, no., pp. 1949-1956. Dostupné na:

<https://doi.org/10.1016/j.renene.2019.07.098>., Registrované v: WOS

439. [1.1] SUN, Shaolong - CAO, Xuefei - LI, Huiling - CHEN, Xue - TANG, Jianing - SUN, Shaoni. Preparation of furfural from Eucalyptus by the MIBK/H₂O pretreatment with biphasic system and enzymatic hydrolysis of the resulting solid fraction. In *ENERGY CONVERSION AND MANAGEMENT*. ISSN 0196-8904, 2018, vol. 173, no., pp. 539-544., Registrované v: WOS

440. [1.1] SUN, Shao-Long - SUN, Shao-Ni - WEN, Jia-Long - ZHANG, Xue-Ming - PENG, Feng - SUN, Run-Cang. Assessment of integrated process based on hydrothermal and alkaline treatments for enzymatic saccharification of sweet sorghum stems. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2015, vol. 175, no., pp. 473-479., Registrované v: WOS

441. [1.1] SUSHYTSKYI, Leonid - LUKAC, Pavol - SYNITSYA, Andriy - BLEHA, Roman - RAJSIGLOVA, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - COPIKOVA, Jana - KASTANEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HY1 (Chlorellaceae). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116588>., Registrované v: WOS

442. [1.1] SU, Jinjuan - SUN, Jing - JIAN, Tongtong - ZHANG, Guoying - LING, Jianya. Immunomodulatory and Antioxidant Effects of Polysaccharides from the Parasitic Fungus *Cordyceps kyushuensis*. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/8257847>., Registrované v: WOS

443. [1.1] SZYMANSKA-CHARGOT, M. - CHYLINSKA, M. - KRUK, B. - ZDUNEK, A. Combining FT-IR spectroscopy and multivariate analysis for qualitative and quantitative analysis of the cell wall composition changes during apples development. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 115, no., pp. 93-103., Registrované v: WOS

444. [1.1] TABARSA, Mehdi - ANVARI, Mohammad - JOYNER (MELITO), Helen S. - BEHNAM, Shabnam - TABARSA, Alireza. Rheological behavior and antioxidant activity of a highly acidic gum from *Althaea officinalis* flower. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 69, no., pp. 432-439., Registrované v: WOS

445. [1.1] TAHERI, Hesam - SAMYN, Pieter. Effect of homogenization (microfluidization) process parameters in mechanical production of micro- and nanofibrillated cellulose on its rheological and morphological properties. In *CELLULOSE*. ISSN 0969-0239, 2016, vol. 23, no. 2, pp. 1221-1238., Registrované v: WOS

446. [1.1] TANG, Tingting - DUAN, Xiaoyu - KE, Yu - ZHANG, Lan - SHEN, Yingbin - HU, Bin - LIU, Aiping - CHEN, Hong - LI, Cheng - WU, Wenjuan - SHEN, Li - LIU, Yuntao. Antidiabetic activities of polysaccharides from *Anoectochilus roxburghii* and *Anoectochilus formosanus* in STZ-induced diabetic mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 112, no., pp. 882-888., Registrované v: WOS

447. [1.1] TANG, Yujia - XIAO, Yirong - TANG, Zizhong - JIN, Weiqiong - WANG, Yinsheng - CHEN, Hui - YAO, Huipeng - SHAN, Zhi - BU, Tongliang - WANG, Xiaoli. Extraction of polysaccharides from *Amaranthus hybridus* L. by hot water and analysis of their antioxidant activity. In *PEERJ*. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS

448. [1.1] TAN, Kok Bing - ABDULLAH, Ahmad Zuhairi - HORRI, Bahman Amini - SALAMATINIA, Babak. Adsorption Mechanism of Microcrystalline Cellulose as Green Adsorbent for the Removal of Cationic Methylene Blue Dye. In JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. ISSN 0253-5106, 2016, vol. 38, no. 4, pp. 651-664., Registrované v: WOS
449. [1.1] TETARD, L. - PASSIAN, A. - FARAHI, R. H. - THUNDAT, T. - DAVISON, B. H. Opto-nanomechanical spectroscopic material characterization. In NATURE NANOTECHNOLOGY. ISSN 1748-3387, 2015, vol. 10, no. 10, pp. 870-877., Registrované v: WOS
450. [1.1] THUMANU, Kanjana - SOMPONG, Mathukorn - PHANSAK, Piyaporn - NONTAPOT, Kanokwan - BUENSANTEAI, Natthiya. Use of infrared microspectroscopy to determine leaf biochemical composition of cassava in response to *Bacillus subtilis* CaSUT007. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2015, vol. 10, no. 1, pp. 270-279., Registrované v: WOS
451. [1.1] TIPLEA, Raluca - SUHAROSCHI, Ramona - LEOPOLD, Loredana - FETEA, Florinela - SOCACI, Sonia Ancuta - VODNAR, Dan Cristian - POP, Oana Lelia. Alfalfa Leaf Powder and its Potential Utilisation in Raw Vegan Chocolate. In BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY. ISSN 2344-2344, 2019, vol. 76, no. 1, pp. 74-78., Registrované v: WOS
452. [1.1] TOAN LE THANH - THUMANU, Kanjana - WONGKAEW, Sopone - BOONKERD, Nantakorn - TEAUMROONG, Neung - PHANSAK, Piyaporn - BUENSANTEAI, Natthiya. Salicylic acid-induced accumulation of biochemical components associated with resistance against *Xanthomonas oryzae* pv. *oryzae* in rice. In JOURNAL OF PLANT INTERACTIONS. ISSN 1742-9145, 2017, vol. 12, no. 1, pp. 108-120., Registrované v: WOS
453. [1.1] TONDI, G. - PETUTSCHNIGG, A. Middle infrared (ATR FT-MIR) characterization of industrial tannin extracts. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 65, no., pp. 422-428., Registrované v: WOS
454. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
455. [1.1] TORRES-GARCIA, Enelio - BRACHI, Paola. Non-isothermal pyrolysis of grape marc Thermal behavior, kinetics and evolved gas analysis. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2020, vol. 139, no. 2, pp. 1463-1478. Dostupné na: <https://doi.org/10.1007/s10973-019-08530-z>., Registrované v: WOS
456. [1.1] TORRES-GINER, Sergio - WILKANOWICZ, Sabina - MELENDEZ-RODRIGUEZ, Beatriz - LAGARON, Jose M. Nanoencapsulation of Aloe vera in Synthetic and Naturally Occurring Polymers by Electrohydrodynamic Processing of Interest in Food Technology and Bioactive Packaging. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 22, pp. 4439-4448., Registrované v: WOS

457. [1.1] TOSCANO, G. - PIZZI, A. - PEDRETTI, E. Foppa - ROSSINI, G. - CICERI, G. - MARTIGNON, G. - DUCA, D. Torrefaction of tomato industry residues. In FUEL. ISSN 0016-2361, 2015, vol. 143, no., pp. 89-97., Registrované v: WOS
458. [1.1] TOTH, Annamaria - HALASZ, Katalin. Characterization of edible biocomposite films directly prepared from psyllium seed husk and husk flour. In FOOD PACKAGING AND SHELF LIFE. ISSN 2214-2894, 2019, vol. 20, no., pp., Registrované v: WOS
459. [1.1] TRONCOZO, Maria - FIGOLI, Cecilia B. - FRANCO, Mario E. E. - MIRIFICO, Maria - BOSCH, Alejandra - RAJCHENBERG, Mario - BALATTI, Pedro A. - SAPARRAT, Mario C. N. Biotransformation of grape pomace from Vitis labrusca by Peniophora albobadia LPSC # 285 (Basidiomycota). In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2020, vol. 92, no. 1, pp. Dostupné na: <https://doi.org/10.1590/0001-3765202020181174>., Registrované v: WOS
460. [1.1] TROSHCHYNSKA, Yana - SYNYTSYA, Andriy - KYSELKA, Jan - STETINA, Jiri. FLAXSEED MEAL MUCILAGE POLYSACCHARIDES: CHEMICAL CHARACTERIZATION AND PURIFICATION. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, vol., no., pp. 273-277., Registrované v: WOS
461. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS
462. [1.1] TSIRIGOTIS-MANIECKA, Marta - LAMCH, Lukasz - CHOJNACKA, Ida - GANCARZ, Roman - WILK, Kazimiera A. Microencapsulation of hesperidin in polyelectrolyte complex microbeads: Physico-chemical evaluation and release behavior. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2017, vol. 214, no., pp. 104-116., Registrované v: WOS
463. [1.1] VALARIKOVA, Jana - CIZOVA, Alzbeta - RACKOVA, Lucia - BYSTRICKY, Slavomir. Anti-staphylococcal activity of quaternized mannan from the yeast Candida albicans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116288>., Registrované v: WOS
464. [1.1] VANESSA CALDERON-PERALTA, Cinthya - JIMENEZ-HERNANDEZ, Javier - IXCHEL MALDONADO-ASTUDILLO, Yanik - FLORES-CASAMAYOR, Veronica - ARAMBULA-VILLA, Geronimo - SALAZAR, Ricardo. Influence of Hymenaea courbaril gum as a new additive on nixtamalized flour properties and quality of tortilla. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2017, vol. 40, no. 5, pp., Registrované v: WOS
465. [1.1] VUILLEMIN, Marie E. - MICHAUX, Florentin - ADAM, Aurelie A. - LINDER, Michel - MUNIGLIA, Lionel - JASNIEWSKI, Jordane.

- Physicochemical characterizations of gum Arabic modified with oxidation products of ferulic acid. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 107, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105919>., Registrované v: WOS
466. [1.1] WAGNER, Leopold - BADER, Thomas K. - TERS, Thomas - FACKLER, Karin - DE BORST, Karin. A combined view on composition, molecular structure, and micromechanics of fungal degraded softwood. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2015, vol. 69, no. 4, pp. 471-482., Registrované v: WOS
467. [1.1] WANDEE, Yuree - UTTAPAP, Dudsadee - MISCHNICK, Petra. Yield and structural composition of pomelo peel pectins extracted under acidic and alkaline conditions. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2019, vol. 87, no., pp. 237-244., Registrované v: WOS
468. [1.1] WANG, Chenzhou - YANG, Jiyu - WEN, Jingyun - BIAN, Jing - LI, Mingfei - PENG, Feng - SUN, Runcang. Structure and distribution changes of Eucalyptus hemicelluloses during hydrothermal and alkaline pretreatments. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 133, no., pp. 514-521., Registrované v: WOS
469. [1.1] WANG, Chun-Ying - CHEN, Yean-Chang. EXTRACTION AND CHARACTERIZATION OF FUCOIDAN FROM SIX BROWN MACROALGAE. In *JOURNAL OF MARINE SCIENCE AND TECHNOLOGY-TAIWAN*. ISSN 1023-2796, 2016, vol. 24, no. 2, pp. 319-328., Registrované v: WOS
470. [1.1] WANG, Jia - SALEM, David R. - SANI, Rajesh Kumar. Synthesis of Biopolymers from a *Geobacillus* sp. WSUCF1 Using Unprocessed Corn Stover. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 25, pp. 9483-9496. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c02435>., Registrované v: WOS
471. [1.1] WANG, Kunli - LI, Mo - WEN, Xin - CHEN, Xiaosong - HE, Zhengyu - NI, Yuanying. Optimization of ultrasound-assisted extraction of okra (*Abelmoschus esculentus* (L.) Moench) polysaccharides based on response surface methodology and antioxidant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 114, no., pp. 1056-1063., Registrované v: WOS
472. [1.1] WANG, Li - LIU, Hua-Min - QIN, Guang-Yong. Structure characterization and antioxidant activity of polysaccharides from Chinese quince seed meal. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 234, no., pp. 314-322., Registrované v: WOS
473. [1.1] WANG, Li - LIU, Hua-Min - XIE, Ai-Jun - WANG, Xue-De - ZHU, Chun-Yan - QIN, Guang-Yong. Chinese quince (*Chaenomeles sinensis*) seed gum: Structural characterization. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 75, no., pp. 237-245., Registrované v: WOS
474. [1.1] WANG, Qing - TIAN, Dong - HU, Jinguang - SHEN, Fei - YANG, Gang - ZHANG, Yanzong - DENG, Shihuai - ZHANG, Jing - ZENG, Yongmei - HU, Yaodong. Fates of hemicellulose, lignin and cellulose in concentrated phosphoric acid with hydrogen peroxide (PHP) pretreatment. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 23, pp. 12714-12723., Registrované v: WOS
475. [1.1] WANG, Quanliang - XIAO, Shengling - SHI, Sheldon Q. - CAI,

- Liping. Mechanical property enhancement of self-bonded natural fiber material via controlling cell wall plasticity and structure. In MATERIALS & DESIGN. ISSN 0264-1275, 2019, vol. 172, no., pp., Registrované v: WOS
476. [1.1] WANG, Shurong - LIN, Haizhou - ZHANG, Li - DAI, Gongxin - ZHAO, Yuan - WANG, Xiaoliu - RU, Bin. Structural Characterization and Pyrolysis Behavior of Cellulose and Hemicellulose Isolated from Softwood *Pinus armandii* Franch. In ENERGY & FUELS. ISSN 0887-0624, 2016, vol. 30, no. 7, pp. 5721-5728., Registrované v: WOS
477. [1.1] WANG, Shurong - RU, Bin - LIN, Haizhou - SUN, Wuxing. Pyrolysis behaviors of four O-acetyl-preserved hemicelluloses isolated from hardwoods and softwoods. In FUEL. ISSN 0016-2361, 2015, vol. 150, no., pp. 243-251., Registrované v: WOS
478. [1.1] WANG, Wei - ZHAO, Xue Qiang - CHEN, Rong Fu - DONG, Xiao Ying - LAN, Ping - MA, Jian Feng - SHEN, Ren Fang. Altered cell wall properties are responsible for ammonium-reduced aluminium accumulation in rice roots. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2015, vol. 38, no. 7, pp. 1382-1390., Registrované v: WOS
479. [1.1] WANG, Weixiang - FANG, Shengping - XIONG, Zhixin. Protective effect of polysaccharide from *Ligusticum chuanxiong* hort against H₂O₂-induced toxicity in zebrafish embryo. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 221, no., pp. 73-83., Registrované v: WOS
480. [1.1] WANG, Xiaoli - ZHANG, Yifei - LIU, Zhikai - ZHAO, Mingqin - LIU, Pengfei. Purification, Characterization, and Antioxidant Activity of Polysaccharides Isolated from Cortex *Periplocae*. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 11, pp., Registrované v: WOS
481. [1.1] WANG, Xing-Quan - ZHOU, Ren-Wu - DE GROOT, Gerard - BAZAKA, Kateryna - MURPHY, Anthony B. - OSTRIKOV, Kostya (Ken). Spectral characteristics of cotton seeds treated by a dielectric barrier discharge plasma. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
482. [1.1] WANG, Xuefei - ZHANG, Hua - WANG, Zhenyu - BAI, Haina. Optimization of ultrasonic-assisted alkaline extraction of polysaccharides from *Phellodendron amurense* Rupr. pollen using response surface methodology and its structure features. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 129, pp. 106800-106808., Registrované v: WOS
483. [1.1] WANG, Yacheng - ZHENG, Dongfang - ZHAO, Yong - WANG, Ting - YANG, Yafeng - ASHRAF, Muhammad Aqeel - PENG, Wanxi. Active Components in Branches and Leaves of *Koeleruteria paniculata*. In CARIBBEAN JOURNAL OF SCIENCE. ISSN 0008-6452, 2018, vol. 51, no. 1, pp. 11-21., Registrované v: WOS
484. [1.1] WANG, Yao-Yao - QIU, Wen-Yi - WANG, Zhen-Bin - MA, Hai-Le - YAN, Jing-Kun. Extraction and characterization of anti-oxidative polysaccharide-protein complexes from *Corbicula fluminea* through three-phase partitioning. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 18, pp. 11067-11075., Registrované v: WOS
485. [1.1] WANG, Yatao - LIU, Yanfang - YU, Huazheng - ZHOU, Shuai - ZHANG, Zhong - WU, Di - YAN, Mengqiu - TANG, Qingjiu - ZHANG, Jingsong. Structural characterization and immuno-enhancing activity of a highly branched water-soluble beta-glucan from the spores of *Ganoderma lucidum*. In

CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 337-344., Registrované v: WOS

486. [1.1] WANG, Yonggang - XU, Ye - MA, Xueqing - LIU, Xiaofeng - YANG, Mingjun - FAN, Wenguang - REN, Haiwei - EFEHI, Nehikhare - WANG, Xiaoli - ZHU, Xinqiang. Extraction, purification, characterization and antioxidant activities of polysaccharides from *Zizyphus jujuba* cv. Linzexiaoza. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2138-2148., Registrované v: WOS

487. [1.1] WANG, Yun - WEI, Xuelian - WANG, Fuhou - XU, Jingjing - TANG, Xiaozhen - LI, Ningyang. Structural characterization and antioxidant activity of polysaccharide from ginger. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 862-869., Registrované v: WOS

488. [1.1] WANG, Zhen-Bin - CHEN, Bing-Bing - LUO, Lin - YAN, Jing-Kun. Fractionation, physicochemical characteristics and biological activities of polysaccharides from *Pueraria lobata* roots. In JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070, 2016, vol. 67, no., pp. 54-60., Registrované v: WOS

489. [1.1] WANG, Zhijun - XIE, Jianhua - SHEN, Mingyue - NIE, Shaoping - XIE, Mingyong. Sulfated modification of polysaccharides: Synthesis, characterization and bioactivities. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 74, no., pp. 147-157., Registrované v: WOS

490. [1.1] WANG, Zhi-Wen - ZHU, Ming-Qiang - LI, Ming-Fei - WEI, Qin - SUN, Run-Cang. Effects of hydrothermal treatment on enhancing enzymatic hydrolysis of rapeseed straw. In RENEWABLE ENERGY. ISSN 0960-1481, 2019, vol. 134, no., pp. 446-452., Registrované v: WOS

491. [1.1] WANG, Zichao - ZHANG, Huiru - SHEN, Yingbin - ZHAO, Xiaoxiao - WANG, Xueqin - WANG, Jiaqi - FAN, Kun - ZHAN, Xiaobei. Characterization of a novel polysaccharide from *Ganoderma lucidum* and its absorption mechanism in Caco-2 cells and mice model. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 320-326., Registrované v: WOS

492. [1.1] WANI, Idrees Ahmed - GANI, Adil - TARIQ, Aanisa - SHARMA, Paras - MASOODI, Farooq Ahmad - WANI, Haroon Maqbool. Effect of roasting on physicochemical, functional and antioxidant properties of arrowhead (*Sagittaria sagittifolia* L.) flour. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 197, no., pp. 345-352., Registrované v: WOS

493. [1.1] WAN, Yu Jun - SHI, Hui-Fang - XU, Rou - YIN, Jun-Yi - NIE, Shao-Ping - XIONG, Tao - XIE, Ming-Yong. Origin of Hypoglycemic Benefits of Probiotic-Fermented Carrot Pulp. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 3, pp. 895-904., Registrované v: WOS

494. [1.1] WEI, Chaoyang - ZHANG, Yu - ZHANG, Hua - LI, Junhui - TAO, Wenyang - LINHARDT, Robert J. - CHEN, Shiguo - YE, Xingqian. Physicochemical properties and conformations of water-soluble peach gums via different preparation methods. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 95, no., pp. 571-579., Registrované v: WOS

495. [1.1] WEI, Chaoyang - ZHANG, Yu - HE, Liang - CHENG, Junwen - LI, Junhui - TAO, Wenyang - MAO, Guizhu - ZHANG, Hua - LINHARDT,

- Robert J. - YE, Xingqian - CHEN, Shiguo. Structural characterization and anti-proliferative activities of partially degraded polysaccharides from peach gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 203, no., pp. 193-202., Registrované v: WOS
496. [1.1] WEI, Yi - SHEN, Chaoyue - XIE, Jiale - BU, Quan. Study on reaction mechanism of superior bamboo biochar catalyst production by molten alkali carbonates pyrolysis and its application for cellulose hydrolysis. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 712, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.136435.>, Registrované v: WOS
497. [1.1] WHITE, Kathryn E. - COALE, Frank J. - REEVES, James B. Degradation changes in plant root cell wall structural molecules during extended decomposition of important agricultural crop and forage species. In ORGANIC GEOCHEMISTRY. ISSN 0146-6380, 2018, vol. 115, no., pp. 233-245., Registrované v: WOS
498. [1.1] WIATER, Adrian - PADUCH, Roman - TROJNAR, Sylwia - CHOMA, Adam - PLESZCZYNSKA, Malgorzata - ADAMCZYK, Paulina - PIET, Mateusz - PROCHNIAK, Katarzyna - SZCZODRAK, Janusz - STRAWA, Jakub - TOMCZYK, Michal. The Effect of Water-Soluble Polysaccharide from Jackfruit (*Artocarpus heterophyllus* Lam.) on Human Colon Carcinoma Cells Cultured In Vitro. In PLANTS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/plants9010103.>, Registrované v: WOS
499. [1.1] WIERCIGROCH, Ewelina - SZAFRANIEC, Ewelina - CZAMARA, Krzysztof - PACIA, Marta Z. - MAJZNER, Katarzyna - KOCHAN, Kamila - KACZOR, Agnieszka - BARANSKA, Malgorzata - MALEK, Kamilla. Raman and infrared spectroscopy of carbohydrates: A review. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2017, vol. 185, no., pp. 317-335., Registrované v: WOS
500. [1.1] WILLICK, Ian R. - STOBBS, Jarvis - KARUNAKARAN, Chithra - TANINO, Karen K. Phenotyping Plant Cellular and Tissue Level Responses to Cold with Synchrotron-Based Fourier-Transform Infrared Spectroscopy and X-Ray Computed Tomography. In PLANT COLD ACCLIMATION, 2 EDITION. ISSN 1064-3745, 2020, vol. 2156, no., pp. 141-159. Dostupné na: https://doi.org/10.1007/978-1-0716-0660-5_11., Registrované v: WOS
501. [1.1] WONGKAEW, Malaiporn - SOMMANO, Sarana Rose - TANGPAO, Tibet - RACHTANAPUN, Pornchai - JANTANASAKULWONG, Kittisak. Mango Peel Pectin by Microwave-Assisted Extraction and Its Use as Fat Replacement in Dried Chinese Sausage. In FOODS, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040450.>, Registrované v: WOS
502. [1.1] WU, Boran - DAI, Xiaohu - CHAI, Xiaoli. Simultaneous enhancement of sludge dewaterability and removal of sludge-borne heavy metals through a novel oxidative leaching induced by nano-CaO₂. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 19, pp. 16263-16275., Registrované v: WOS
503. [1.1] WU, Miao - PANG, Jin-Hui - SONG, Ping-Ping - ZHANG, Xue-Ming - PENG, Jian-Jun. Enhancing the Fractionation Efficiency of Hemicellulose from Agricultural Waste using Expansion Pretreatment. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8976-8992.,

Registrované v: WOS

504. [1.1] XIANG, Xiao - TAN, Cui - SUN, Xinjuan - ZHAO, Yansheng - ZHANG, Jiayan - ZHU, Ying - BAI, Juan - DONG, Ying - ZHOU, Xinghua. Effects of fermentation on structural characteristics and in vitro physiological activities of barley beta-glucan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 231, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2019.115685>., Registrované v: WOS

505. [1.1] XIAO, Yidong - HUANG, Qilin - ZHENG, Zhaomin - GUAN, Han - LIU, Shiyu. Construction of a Cordyceps sinensis exopolysaccharide-conjugated selenium nanoparticles and enhancement of their antioxidant activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 483-491.,

Registrované v: WOS

506. [1.1] XIA, Huimin - SUI, Kun - GE, Tengting - WU, Fazong - SUN, Qiqi - WANG, Zhongwei - SONG, Liang - HUANG, Xiaowen - YU, Qing. Natural compounds from Punica granatum peel as multiple stabilizers for polyethylene. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2020, vol. 60, no. 11, pp. 2761-2769. Dostupné na:

<https://doi.org/10.1002/pen.25506>., Registrované v: WOS

507. [1.1] XIA, Yong-Gang - WANG, Tian-Long - YU, Si-Miao - LIANG, Jun - KUANG, Hai-Xue. Structural characteristics and hepatoprotective potential of Aralia elata root bark polysaccharides and their effects on SCFAs produced by intestinal flora metabolism. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 256-265., Registrované v: WOS

508. [1.1] XIE, Song-Zi - LIU, Bing - ZHANG, Dan-Dan - ZHA, Xue-Qiang - PAN, Li-Hua - LUO, Jian-Ping. Intestinal immunomodulating activity and structural characterization of a new polysaccharide from stems of Dendrobium officinale. In FOOD & FUNCTION. ISSN 2042-6496, 2016, vol. 7, no. 6, pp. 2789-2799., Registrované v: WOS

509. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS, 2020, vol. 12, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/polym12030608>., Registrované v: WOS

510. [1.1] XING, Ming - YOU, Jian - CHEN, Xia. Wrinkled surface on helical cell wall thickening of vessel elements in flower style. In TURKISH JOURNAL OF BOTANY. ISSN 1300-008X, 2019, vol. 43, no. 3, pp. 358-365., Registrované v: WOS

511. [1.1] XU, Feng - WANG, Donghai. Analysis of Lignocellulosic Biomass Using Infrared Methodology. In PRETREATMENT OF BIOMASS: PROCESSES AND TECHNOLOGIES, 2015, vol., no., pp. 7-25., Registrované v: WOS

512. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from Eucalyptus grandis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS

513. [1.1] XU, Kaimeng - LIU, Can - KANG, Kunyong - ZHENG, Zhifeng - WANG, Siqun - TANG, Zhenguan - YANG, Wenxiu. Isolation of nanocrystalline cellulose from rice straw and preparation of its biocomposites with chitosan: Physicochemical characterization and evaluation of interfacial

- compatibility. In COMPOSITES SCIENCE AND TECHNOLOGY. ISSN 0266-3538, 2018, vol. 154, no., pp. 8-17., Registrované v: WOS
514. [1.1] XU, Lishan - CAO, Jingjing - CHEN, Wenrong. Structural characterization of a broccoli polysaccharide and evaluation of anti-cancer cell proliferation effects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 126, no., pp. 179-184., Registrované v: WOS
515. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W. Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS
516. [1.1] XU, Ning - XUE, Feng - DING, Enyong. Nonisothermal crystallization kinetics in isotactic polypropylene/microcrystalline cellulose (II) composites. In POLYMER COMPOSITES. ISSN 0272-8397, 2018, vol. 39, no. 4, pp. 1064-1075., Registrované v: WOS
517. [1.1] XU, Ningning - LIU, Jianxin - YU, Peiqiang. Using vibrational molecular spectroscopy with chemometrics as an analytical method to investigate association of degradation with inherent molecular structures in grain. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2019, vol. 208, no., pp. 331-338., Registrované v: WOS
518. [1.1] XU, Xiaoqi - CHEN, Aijun - GE, Xinyan - LI, Sha - ZHANG, Tao - XU, Hong. Chain conformation and physicochemical properties of polysaccharide (glucuronoxylomannan) from Fruit Bodies of Tremella fuciformis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 245, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116354>., Registrované v: WOS
519. [1.1] XU, Yingni - LI, Caixin - GU, Ju. Effects of MAH/St grafted nanocellulose on the properties of carbon reinforced styrene butadiene rubber. In JOURNAL OF POLYMER ENGINEERING. ISSN 0334-6447, 2019, vol. 39, no. 5, pp. 450-458., Registrované v: WOS
520. [1.1] YAMASSAKI, F. T. - CAMPESTRINI, L. H. - ZAWADZKI-BAGGIO, S. F. - MAURER, J. B. B. Chemical characterization and complement modulating activities of an arabinogalactan-protein-rich fraction from an aqueous extract of avocado leaves. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 513-521., Registrované v: WOS
521. [1.1] YAMASSAKI, F. T. - LENZI, R. M. - CAMPESTRINI, L. H. - BOVO, F. - SEYFRIED, M. - SOLDERA-SILVA, A. - STEVAN-HANCKE, F. R. - ZAWADZKI-BAGGIO, S. F. - PETTOLINO, F. A. - BACIC, A. - MAURER, J. B. B. Effect of the native polysaccharide of cashew-nut tree gum exudate on murine peritoneal macrophage modulatory activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 125, no., pp. 241-248., Registrované v: WOS
522. [1.1] YANG, Yuexi - CUI, Steve W. - GONG, Jianhua - GUO, Qian - WANG, Qi - HUA, Yufei. A soy protein-polysaccharides Maillard reaction product enhanced the physical stability of oil-in-water emulsions containing citral. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 48, no., pp. 155-164., Registrované v: WOS
523. [1.1] YAN, Jing-Kun - DING, Zhi-Chao - GAO, Xianli - WANG,

- Yao-Yao - YANG, Yan - WU, Di - ZHANG, He-Nan. Comparative study of physicochemical properties and bioactivity of *Hericium erinaceus* polysaccharides at different solvent extractions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 193, no., pp. 373-382., Registrované v: WOS
524. [1.1] YAN, Jing-Kun - WANG, Yao-Yao - WANG, Zhen-Bin - MA, Hai-Le - PEI, Juan-Juan - WU, Jian-Yong. Structure and antioxidative property of a polysaccharide from an ammonium oxalate extract of *Phellinus linteus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 92-99., Registrované v: WOS
525. [1.1] YAN, Jing-Kun - WANG, Yao-Yao - MA, Hai-Le - WANG, Zhen-Bin - PEI, Juan-Juan. Structural characteristics and antioxidant activity in vivo of a polysaccharide isolated from *Phellinus linteus* mycelia. In JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070, 2016, vol. 65, no., pp. 110-117., Registrované v: WOS
526. [1.1] YAN, Jing-Kun - WANG, Yao-Yao - MA, Hai-Le - WANG, Zhen-Bin. Ultrasonic effects on the degradation kinetics, preliminary characterization and antioxidant activities of polysaccharides from *Phellinus linteus* mycelia. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2016, vol. 29, no., pp. 251-257., Registrované v: WOS
527. [1.1] YAO, Yang - ZHU, Yingying - GAO, Yue - REN, Guixing. Effect of ultrasonic treatment on immunological activities of polysaccharides from adlay. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 80, no., pp. 246-252., Registrované v: WOS
528. [1.1] YE, Jufeng - WANG, Xiangdong - WANG, Ke - DENG, Yudi - YANG, Yichao - ALI, Rufida - CHEN, Feilong - WU, Zijian - LIAO, Wenzhen - MAO, Limei. A novel polysaccharide isolated from *Flammulina velutipes*, characterization, macrophage immunomodulatory activities and its impact on gut microbiota in rats. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439, 2020, vol. 104, no. 2, pp. 735-748. Dostupné na: <https://doi.org/10.1111/jpn.13290>., Registrované v: WOS
529. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS
530. [1.1] YOU, Jiaqi - CHANG, Yaning - ZHAO, Di - ZHUANG, Jiafeng - ZHUANG, Wei. A Mixture of Functional Complex Extracts from *Lycium barbarum* and Grape Seed Enhances Immunity Synergistically In Vitro and In Vivo. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2019, vol. 84, no. 6, pp. 1577-1585., Registrované v: WOS
531. [1.1] YUANITA, E. - ISMOJO - ADI, H. K. - CHALID, M. Crystallinity Index Evaluation of *Dendrocalamus asper* Fibers Through Variation of Chemical Treatment. In PROCEEDINGS OF THE 5TH INTERNATIONAL SYMPOSIUM ON APPLIED CHEMISTRY 2019. ISSN 0094-243X, 2019, vol. 2175, no., pp., Registrované v: WOS
532. [1.1] YUAN, Cheng - CHEN, Mingsong - LUO, Jing - LI, Xiaona - GAO, Qiang - LI, Jianzhang. A novel water-based process produces eco-friendly bio-adhesive made from green cross-linked soybean soluble polysaccharide and soy protein. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol.

- 169, no., pp. 417-425., Registrované v: WOS
533. [1.1] YUAN, Yanyan - KANG, Nianxin - LI, Qingxia - ZHANG, Yali - LIU, Yonggang - TAN, Peng. Study of the Effect of Neutral Polysaccharides from *Rehmannia glutinosa* on Lifespan of *Caenorhabditis elegans*. In MOLECULES, 2019, vol. 24, no. 24, pp., Registrované v: WOS
534. [1.1] YUAN, Yunfei - WANG, Yan-Bo - JIANG, Yueming - PRASAD, K. Nagendra - YANG, Jiali - QU, Hongxia - WANG, Ying - JIA, Yongxia - MO, Hui - YANG, Bao. Structure identification of a polysaccharide purified from *Lycium barbarum* fruit. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 696-701., Registrované v: WOS
535. [1.1] YU, Long - XUE, Changhu - CHANG, Yaoguang - HU, Yanfang - XU, Xiaoqi - GE, Lei - LIU, Guanchen. Structure and rheological characteristics of fucoidan from sea cucumber *Apostichopus japonicus*. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 180, no., pp. 71-76., Registrované v: WOS
536. [1.1] YU, Shunhui - SHENG, Li - ZHANG, Chunyan - DENG, Hongping. Physiological response of *Arundo donax* to cadmium stress by Fourier transform infrared spectroscopy. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2018, vol. 198, no., pp. 88-91., Registrované v: WOS
537. [1.1] ZANCAJO, Victor M. R. - DIEHN, Sabrina - FILIBA, Nurit - GOOBES, Gil - KNEIPP, Janina - ELBAUM, Rivka. Spectroscopic Discrimination of Sorghum Silica Phytoliths. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
538. [1.1] ZANCAJO, Victor M. R. - LINDTNER, Tom - EISELE, Max - HUBER, Andreas J. - ELBAUM, Rivka - KNEIPP, Janina. FTIR Nanospectroscopy Shows Molecular Structures of Plant Biominerals and Cell Walls. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 13694-13701. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c00271>., Registrované v: WOS
539. [1.1] ZDANIO, Malgorzata - BORON, Agnieszka Karolina - BALCEROWICZ, Daria - SCHOENAERS, Sebastjen - MARKAKIS, Marios Nektarios - MOUILLE, Gregory - PINTELON, Isabel - SUSLOV, Dmitry - GONNEAU, Martine - HOFTE, Herman - VISSENBERG, Kris. The Proline-Rich Family Protein EXTENSIN33 Is Required for Etiolated *Arabidopsis thaliana* Hypocotyl Growth. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2020, vol. 61, no. 6, pp. 1191-1203. Dostupné na: <https://doi.org/10.1093/pcp/pcaa049>., Registrované v: WOS
540. [1.1] ZDANOWICZ, Magdalena - STACIWA, Piotr - JEDRZEJEWSKI, Roman - SPYCHAJ, Tadeusz. Sugar Alcohol-Based Deep Eutectic Solvents as Potato Starch Plasticizers. In POLYMERS, 2019, vol. 11, no. 9, pp., Registrované v: WOS
541. [1.1] ZHANG, Hua - CHEN, Jianle - LI, Junhui - YAN, Lufeng - LI, Shan - YE, Xingqian - LIU, Donghong - DING, Tian - LINHARDT, Robert J. - ORFILA, Caroline - CHEN, Shiguo. Extraction and characterization of RG-I enriched pectic polysaccharides from mandarin citrus peel. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 79, no., pp. 579-586., Registrované v: WOS
542. [1.1] ZHANG, Hui - ZHANG, Ning - XIONG, Zhiqiang - WANG,

- Guangqiang - XIA, Yongjun - LAI, Phoeny - AI, Lianzhong. Structural characterization and rheological properties of beta-D-glucan from hull-less barley (*Hordeum vulgare* L. var. nudum Hook. f.). In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2018, vol. 155, no., pp. 155-163., Registrované v: WOS
543. [1.1] ZHANG, Chen - LI, Shangshang - ZHANG, Jianjun - HU, Chunlong - CHE, Gen - ZHOU, Meng - JIA, Le. Antioxidant and hepatoprotective activities of intracellular polysaccharide from *Pleurotus eryngii* SI-04. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 91, no., pp. 568-577., Registrované v: WOS
544. [1.1] ZHANG, Jianjun - LIU, Min - YANG, Yongheng - LIN, Lin - XU, Nuo - ZHAO, Huajie - JIA, Le. Purification, characterization and hepatoprotective activities of mycelia zinc polysaccharides by *Pleurotus djamor*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 136, no., pp. 588-597., Registrované v: WOS
545. [1.1] ZHANG, Jianjun - MENG, Guangyuan - ZHAI, Guoyin - YANG, Yongheng - ZHAO, Huajie - JIA, Le. Extraction, characterization and antioxidant activity of polysaccharides of spent mushroom compost of *Ganoderma lucidum*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 82, no., pp. 432-439., Registrované v: WOS
546. [1.1] ZHANG, Lan - HU, Yu - DUAN, Xiaoyu - TANG, Tingting - SHEN, Yingbin - HU, Bin - LIU, Aiping - CHEN, Hong - LI, Cheng - LIU, Yuntao. Characterization and antioxidant activities of polysaccharides from thirteen boletus mushrooms. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 1-7., Registrované v: WOS
547. [1.1] ZHANG, Lin - ZHANG, Wuxia - WANG, Qingjie - WANG, Dongdong - DONG, Dongqi - MU, Haibo - YE, Xin-Shan - DUAN, Jinyou. Purification, antioxidant and immunological activities of polysaccharides from *Actinidia Chinensis* roots. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 72, no., pp. 975-983., Registrované v: WOS
548. [1.1] ZHANG, Peng - SUN, Feifei - CHENG, Xiang - LI, Xiaojun - MU, Haibo - WANG, Shunchun - GENG, Huling - DUAN, Jinyou. Preparation and biological activities of an extracellular polysaccharide from *Rhodopseudomonas palustris*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 131, no., pp. 933-940., Registrované v: WOS
549. [1.1] ZHANG, Wei - JOHNSON, Amanda M. - BARONE, Justin R. - RENNECKAR, Scott. Reducing the heterogeneity of xylan through processing. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 150, no., pp. 250-258., Registrované v: WOS
550. [1.1] ZHANG, Wuxia - LI, Peng - SONG, Dan - NIU, Hong - SHI, Songshan - WANG, Shunchun - DUAN, Jinyou. Structural characterization and biological activities of two alpha-glucans from *Radix Paeoniae Alba*. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2016, vol. 33, no. 2, pp. 147-157., Registrované v: WOS
551. [1.1] ZHANG, Wuxia - SONG, Dan - XU, Dan - WANG, Tingting - CHEN, Lu - DUAN, Jinyou. Characterization of polysaccharides with

- antioxidant and immunological activities from *Rhizoma Acori Tatarinowii*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 154-162., Registrované v: WOS
552. [1.1] ZHANG, Xueqin - LIU, Chuanfu - ZHANG, Aiping - SUN, Runcang. Organic Catalysis for the Ring-Opening Graft Polymerization of p-Dioxanone with Xylan in Ionic Liquid. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 8, pp., Registrované v: WOS
553. [1.1] ZHANG, Xueqin - LIU, Chuanfu - ZHANG, Aiping - SUN, Runcang. Synergistic effects of graft polymerization and polymer blending on the flexibility of xylan-based films. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 1128-1135., Registrované v: WOS
554. [1.1] ZHANG, Xueqin - LUO, Wenhan - XIAO, Naiyu - CHEN, Mingjie - LIU, Chuanfu. Construction of functional composite films originating from hemicellulose reinforced with poly(vinyl alcohol) and nano-ZnO. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 3, pp. 1341-1355. Dostupné na: <https://doi.org/10.1007/s10570-019-02878-z>., Registrované v: WOS
555. [1.1] ZHANG, Xueqin - ZHANG, Aiping - LIU, Chuanfu - REN, Junli. Per-O-acylation of xylan at room temperature in dimethylsulfoxide/N-methylimidazole. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 5, pp. 2863-2876., Registrované v: WOS
556. [1.1] ZHANG, Yan - SHI, Junling - GAO, Zhenhong - CHE, Jinxin - SHAO, Dongyan - LIU, Yanlin. Comparison of pinorensinol diglucoside production by *Phomopsis* sp XP-8 in different media and the characterisation and product profiles of the cultivation in mung bean. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2016, vol. 96, no. 12, pp. 4015-4025., Registrované v: WOS
557. [1.1] ZHANG, Yaping - CHEN, Zhenyan - XU, Weiwei - LIAO, Qilin - ZHANG, Huiyan - HAO, Shefeng - CHEN, Sihui. Pyrolysis of various phytoremediation residues for biochars: Chemical forms and environmental risk of Cd in biochar. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 299, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122581>., Registrované v: WOS
558. [1.1] ZHANG, Yi - ZHANG, Meng - CHEN, Mingsong - LUO, Jing - LI, Xiaona - GAO, Qiang - LI, Jianzhang. Preparation and characterization of a soy protein-based high-performance adhesive with a hyperbranched cross-linked structure. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 354, no., pp. 1032-1041., Registrované v: WOS
559. [1.1] ZHANG, Yuedong - YU, Guang - LI, Bin - MU, Xindong - PENG, Hui - WANG, Haisong. Hemicellulose isolation, characterization, and the production of xylo-oligosaccharides from the wastewater of a viscose fiber mill. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 141, no., pp. 238-243., Registrované v: WOS
560. [1.1] ZHANG, Zhongshan - WANG, Xiaomei - LIU, Chongbin - LI, Jingfen. The degradation, antioxidant and antimutagenic activity of the mucilage polysaccharide from *Dioscorea opposita*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 150, no., pp. 227-231., Registrované v: WOS
561. [1.1] ZHANG, Ziling - KONG, Fansheng - NI, Hui - MO, Zhixian - WAN, Jian-Bo - HUA, Dehong - YAN, Chunyan. Structural characterization, alpha-glucosidase inhibitory and DPPH center dot scavenging activities of polysaccharides from guava. In CARBOHYDRATE POLYMERS. ISSN

- 0144-8617, 2016, vol. 144, no., pp. 106-114., Registrované v: WOS
562. [1.1] ZHAN, Juan - HUANG, Huagang - YU, Haiying - ZHANG, Xizhou - ZHENG, Zicheng - WANG, Yongdong - LIU, Tao - LI, Tingxuan. The combined effects of Cd and Pb enhanced metal binding by root cell walls of the phytostabilizer *Athyrium wardii* (Hook.). In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 258, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2019.113663>., Registrované v: WOS
563. [1.1] ZHAO, Huajie - LI, Huaping - LAI, Qiangqiang - YANG, Qihang - DONG, Yuhang - LIU, Xinchao - WANG, Wenshuai - ZHANG, Jianjun - JIA, Le. Antioxidant and hepatoprotective activities of modified polysaccharides from *Coprinus comatus* in mice with alcohol-induced liver injury. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 127, no., pp. 476-485., Registrované v: WOS
564. [1.1] ZHAO, Huajie - LI, Juan - ZHANG, Jianjun - WANG, Xiuxiu - HAO, Long - JIA, Le. Purification, in vitro antioxidant and in vivo anti-aging activities of exopolysaccharides by *Agrocybe cylindracea*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 351-357., Registrované v: WOS
565. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO, Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from *Salvia miltiorrhiza*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.113>., Registrované v: WOS
566. [1.1] ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS
567. [1.1] ZHAO, Xianhai - QIAO, Lijun - WU, Ai-Min. Effective extraction of *Arabidopsis* adherent seed mucilage by ultrasonic treatment. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
568. [1.1] ZHAO, Yi - WANG, Na - PANG, Shu-Feng - ZHANG, Yun-Hong. In-situ micro-FTIR spectroscopic observation on the hydration process of *Poria cocos*. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2016, vol. 164, no., pp. 61-66., Registrované v: WOS
569. [1.1] ZHAO, Yuan - WANG, Shurong - LIN, Haizhou - CHEN, Jingping - XU, Hao. Influence of a Lewis acid and a Bronsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 13, pp. 7235-7242., Registrované v: WOS
570. [1.1] ZHAO, Zhongyuan - SUN, Shijing - WU, Di - ZHANG, Min - HUANG, Caoping - UMEMURA, Kenji - YONG, Qiang. Synthesis and Characterization of Sucrose and Ammonium Dihydrogen Phosphate (SADP)

- Adhesive for Plywood. In POLYMERS, 2019, vol. 11, no. 12, pp., Registrované v: WOS
571. [1.1] ZHAO, Zhongyuan - UMEMURA, Kenji. Investigation of a New Natural Particleboard Adhesive Composed of Tannin and Sucrose. 2. Effect of Pressing Temperature and Time on Board Properties, and Characterization of Adhesive. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 2, pp. 2444-2460., Registrované v: WOS
572. [1.1] ZHENG, Pimiao - FAN, Wentao - WANG, Shenghua - HAO, Pan - WANG, Yang - WAN, Huiyu - HAO, Zhihui - LIU, Jianzhu - ZHAO, Xiaona. Characterization of polysaccharides extracted from *Platycodon grandiflorus* (Jacq.) A.DC. affecting activation of chicken peritoneal macrophages. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 96, no., pp. 775-785., Registrované v: WOS
573. [1.1] ZHENG, Shimei - ZHOU, Qixing - CHEN, Cuihong - YANG, Fengxia - CAI, Zhang - LI, Dan - GENG, Qijin - FENG, Yimin - WANG, Huiqin. Role of extracellular polymeric substances on the behavior and toxicity of silver nanoparticles and ions to green algae *Chlorella vulgaris*. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2019, vol. 660, no., pp. 1182-1190., Registrované v: WOS
574. [1.1] ZHENG, Yan-Fei - ZHANG, Qiang - LIU, Xiong-Min - MA, Li - LAI, Fang. Extraction of polysaccharides and its antitumor activity on *Magnolia kwangsiensis* Figlar & Noot. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 98-104., Registrované v: WOS
575. [1.1] ZHENG, Zhaomin - HUANG, Qilin - GUAN, Han - LIU, Shiyu. In situ synthesis of silver nanoparticles dispersed or wrapped by a *Cordyceps sinensis* exopolysaccharide in water and their catalytic activity. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 85, pp. 69790-69799., Registrované v: WOS
576. [1.1] ZHONG, Liezhou - FANG, Zhongxiang - WAHLQVIST, Mark L. - HODGSON, Jonathan M. - JOHNSON, Stuart K. Extrusion cooking increases soluble dietary fibre of lupin seed coat. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2019, vol. 99, no., pp. 547-554., Registrované v: WOS
577. [1.1] ZHOU, Jun - XU, Gang - YAN, Junyan - LI, Kaicheng - BAI, Zhaoshuai - CHENG, Weinan - HUANG, Kaixun. *Rehmannia glutinosa* (Gaertn.) DC. polysaccharide ameliorates hyperglycemia, hyperlipemia and vascular inflammation in streptozotocin-induced diabetic mice. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 164, no., pp. 229-238., Registrované v: WOS
578. [1.1] ZHOU, Xinwei - KANG, Fuxing - QU, Xiaolei - FU, Heyun - ALVAREZ, Pedro J. J. - TAO, Shu - ZHU, Dongqiang. Role of Extracellular Polymeric Substances in Microbial Reduction of Arsenate to Arsenite by *Escherichia coli* and *Bacillus subtilis*. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2020, vol. 54, no. 10, pp. 6185-6193. Dostupné na: <https://doi.org/10.1021/acs.est.0c01186>., Registrované v: WOS
579. [1.1] ZHOU, Yuhou - ZUO, Zhitian - XU, Furong - WANG, Yuanzhong. Origin identification of *Panax notoginseng* by multi-sensor information fusion strategy of infrared spectra combined with random forest. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR

SPECTROSCOPY. ISSN 1386-1425, 2020, vol. 226, no., pp. Dostupné na: <https://doi.org/10.1016/j.saa.2019.117619>., Registrované v: WOS

580. [1.1] ZHU, Kexue - ZHANG, Yanjun - NIE, Shaoping - XU, Fei - HE, Shuzhen - GONG, Deming - WU, Gang - TAN, Lehe. Physicochemical properties and in vitro antioxidant activities of polysaccharide from *Artocarpus heterophyllus* Lam. pulp. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 354-361., Registrované v: WOS

581. [1.1] ZHU, Yuanting - WANG, Chengtao - JIA, Sisi - WANG, Boyang - ZHOU, Kang - CHEN, Shujuan - YANG, Yong - LIU, Shuliang. Purification, characterization and antioxidant activity of the exopolysaccharide from *Weissella cibaria* SJ14 isolated from Sichuan paocai. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 820-828., Registrované v: WOS

582. [1.1] ZIETSMAN, Ansha J. J. - MOORE, John P. - FANGEL, Jonatan U. - WILLATS, William G. T. - TRYGG, Johan - VIVIER, Melane A. Following the Compositional Changes of Fresh Grape Skin Cell Walls during the Fermentation Process in the Presence and Absence of Maceration Enzymes. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 10, pp. 2798-2810., Registrované v: WOS

583. [1.1] ZLATANOVIC, Snezana - OSTOJIC, Sanja - MICIC, Darko - RANKOV, Sofija - DODEVSKA, Margarita - VUKOSAVLJEVIC, Predrag - GORJANOVIC, Stanislava. Thermal behaviour and degradation kinetics of apple pomace flours. In THERMOCHIMICA ACTA. ISSN 0040-6031, 2019, vol. 673, no., pp. 17-25., Registrované v: WOS

584. [1.1] ZMEJKOSKI, Danica - SPASOJEVIC, Dragica - ORLOVSKA, Irina - KOZYROVSKA, Natalia - SOKOVIC, Marina - GLAMOCLIIJA, Jasmina - DMITROVIC, Svetlana - MATOVIC, Branko - TASIC, Nikola - MAKSIMOVIC, Vuk - SOSNIN, Mikhail - RADOTIC, Ksenija. Bacterial cellulose-lignin composite hydrogel as a promising agent in chronic wound healing. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 494-503., Registrované v: WOS

585. [1.1] ZOU JUNYU - SONG ZEFENG - YANG YUESUO. Preparation of low-cost sludge-based mesoporous carbon and its adsorption of tetracycline antibiotics. In WATER SCIENCE AND TECHNOLOGY. ISSN 0273-1223, 2019, vol. 79, no. 4, pp. 676-687., Registrované v: WOS

586. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvild - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI, Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of *Ligusticum chuanxiong*. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS

587. [1.2] ANSELL, Martin P. Wood microstructure-A cellular composite. In Wood Composites, 2015-08-01, pp. 3-26., Registrované v: SCOPUS

588. [1.2] BARROS, A. - BOWRA, S. - OVERTON, T. Subcritical water conversion of cellulose into glucose for bioethanol production in an integrated biorefinery process. In European Biomass Conference and Exhibition Proceedings, 2016-01-01, 2016, 24thEUBCE, pp. 1168-1172., Registrované v: SCOPUS

589. [1.2] DESCHATRE, M. - LESCOP, B. - COLIN, C. Simon - GHILLEBAERT, F. - GUEZENNEC, J. - RIOUAL, S. Characterization of exopolysaccharides after sorption of silver ions in aqueous solution. In *Journal of Environmental Chemical Engineering*, 2015-01-01, 3, 1, pp. 210-216., Registrované v: SCOPUS
590. [1.2] FANG, Xubo - YIN, Xiaoxiong - YUAN, Gaofeng - CHEN, Xiaoe. Chemical and biological characterization of polysaccharides from the bark of *Avicennia marina*. In *European Food Research and Technology*. ISSN 14382377, 2015-07-15, 241, 1, pp. 17-25., Registrované v: SCOPUS
591. [1.2] FANG, Yu Hao - WEI, Yi - MA, Bing Bing - JI, Wei Rong. Effects of Impregnation Agents on Structure and Catalytic Performance of Bamboo Carbon-Based Solid Acids. In *Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities*. ISSN 10039015, 2018-06-01, 32, 3, pp. 731-738., Registrované v: SCOPUS
592. [1.2] FERNÁNDEZ, Jorge G. - FERNÁNDEZ-BALDO, Martín A. - BERNI, Elias - CAMÍ, Gerardo - DURÁN, Nelson - RABA, Julio - SANZ, María I. Production of silver nanoparticles using yeasts and evaluation of their antifungal activity against phytopathogenic fungi. In *Process Biochemistry*. ISSN 13595113, 2016-09-01, 51, 9, pp. 1306-1313., Registrované v: SCOPUS
593. [1.2] FERRER, Alexis - ALCIATURI, Carlos - FANEITE, Alexis - RÍOS, Josybel. Analyses of biomass fibers by XRD, FT-IR, and NIR. In *Analytical Techniques and Methods for Biomass*, 2016-01-01, pp. 45-83., Registrované v: SCOPUS
594. [1.2] FLÓREZ-PARDO, Luz Marina - GONZÁLEZ-CÓRDOBA, Andrea - LÓPEZ-GALÁN, Jorge Enrique. Characterization of hemicelluloses from leaves and tops of the CC 8475, CC 8592, and V 7151 varieties of sugarcane (*Saccharum officinarum* L.). In *DYNA (Colombia)*. ISSN 00127353, 2019-07-01, 86, 210, pp. 98-107., Registrované v: SCOPUS
595. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou Min. Effect of delignification on hemicellulose extraction from switchgrass, poplar, and pine and its effect on enzymatic convertibility of Cellulose-rich Residues. In *BioResources*, 2019-01-01, 13, 3, pp. 4946-4963., Registrované v: SCOPUS
596. [1.2] HEREHER, Faten - ELFALLAL, Amira - TOSON, Elshahat - ABOU-DOBARA, Mohammed. Antitumor effect of a crude protein-bound polysaccharide substance extracted from *Volvariella speciosa*. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2018-10-01, 16, pp. 75-81., Registrované v: SCOPUS
597. [1.2] KURIAN, Jiby Kudakasseril - NAIR, Gopu Raveendran - GARIEPY, Yvan - ORSAT, Valerie - LEFSRUD, Mark - YAYLAYAN, Varoujan - RAGHAVAN, G. S. Vijaya. Comparative evaluation of steam-assisted treatments of biomass components and sweet sorghum bagasse. In *Biofuels*. ISSN 17597269, 2015-01-01, 6, 1-2, pp. 87-99., Registrované v: SCOPUS
598. [1.2] LIU, Hongzhi - JIANG, Nan - LIU, Li - SHENG, Xiaojing - SHI, Aimin - HU, Hui - YANG, Ying - WANG, Qiang. Extraction, purification and primary characterization of polysaccharides from defatted peanut (*Arachis hypogaea*) cakes. In *Molecules*, 2016-06-01, 21, 6, pp., Registrované v: SCOPUS
599. [1.2] LUPOI, Jason S. Analytical methods for lignocellulosic biomass structural polysaccharides. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1121-1180., Registrované v: SCOPUS

600. [1.2] MEIJA-FELDMANE, Anete - MOROZOV, Andris - SPULLE, Uldis. Chemical alterations of hardwood veneers due to thermal treatment. In Vide. Tehnologija. Resursi Environment, Technology, Resources. ISSN 16915402, 2019-01-01, 1, pp. 159-163., Registrované v: SCOPUS
601. [1.2] RAKITIKUL, Waleepan. Determination of tannin in coffee pulp using experimental and theoretical approaches. In Key Engineering Materials. ISSN 10139826, 2017-01-01, 751 KEM, pp. 683-688., Registrované v: SCOPUS
602. [1.2] ROVKINA, K. I. - KRIVOSHCHEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seeding medicago sativa (fabaceae) flora of the Krasnoyarsk territory. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS
603. [1.2] SHAH, Asima - GANI, Adil - MASOODI, F. A. - WANI, Shuib M. - ASHWAR, Bilal Ahmad. Structural, rheological and nutraceutical potential of β -glucan from barley and oat. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2017-04-01, 10, pp. 10-16., Registrované v: SCOPUS
604. [1.2] SLEPTSOV, I. V. - ZHURAVSKAY, A. N. Polysaccharides in tissues amaranthus retroflexus, Agastache rugosa and Thlaspi arvense in the conditions of Central Yakutia. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2018-01-01, 21, 4, pp. 73-79., Registrované v: SCOPUS
605. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
606. [1.2] TONGKHAM, Nudthapong - JUNTASALAY, Boonyawee - LASUNON, Patareeya - SENGKHAMARN, Nipaporn. Dragon fruit peel pectin: Microwave-assisted extraction and fuzzy assessment. In Agriculture and Natural Resources. ISSN 2452316X, 2017-08-01, 51, 4, pp. 262-267., Registrované v: SCOPUS
607. [1.2] WANG, Fengxia - WANG, Wei - HUANG, Yulong - LIU, Zhongwang - ZHANG, Ji. Characterization of a novel polysaccharide purified from a herb of Cynomorium songaricum Rupr. In Food Hydrocolloids. ISSN 0268005X, 2015-05-01, 47, pp. 79-86., Registrované v: SCOPUS
608. [1.2] WANG, Liqin - WANG, Cuiqin - GAO, Xia - XU, Nuo - LIN, Lin - ZHAO, Huajie - JIA, Shouhua - JIA, Le. Purification, characterization and anti-aging capacity of mycelia zinc polysaccharide by Lentinus edodes SD-08. In BMC Complementary and Alternative Medicine, 2015-04-09, 15, 1, pp., Registrované v: SCOPUS
609. [1.2] YADAV, Preeti - YADAV, Harsh - SHAH, Veena Gowri - SHAH, Gaurav - DHAKA, Gaurav. Biomedical biopolymers, their origin and evolution in biomedical sciences: A systematic review. In Journal of Clinical and Diagnostic Research. ISSN 2249782X, 2015-09-01, 9, 9, pp. 21-25., Registrované v: SCOPUS
610. [1.2] YU, Shunhui - ZHANG, Jing - CHEN, Huahua - ZHANG, Bo - HU, Chaosheng - DENG, Hongping. Physiological responses of Vetiveria zizanioides to cadmium stress by fourier transform infrared spectroscopy. In Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2019-01-01, 39, 19, pp. 7267-7273., Registrované v: SCOPUS
611. [1.2] ZHOU, Duan - HUANG, Hui Hua. Extraction and structural

characterization of celluloses and hemicelluloses from pineapple peels. In Modern Food Science and Technology. ISSN 16739078, 2016-10-15, 32, 10, pp., Registrované v: SCOPUS

612. [3.2] Glagoleva, L.E.; Gubin, A.S.; Aleksandrova, A.V.; Korotkih, I.V. Determination of the functional groups of the green buckwheat plant complexes by infrared spectroscopy method. IN Vestnik rossiiskoi sel'skokhozyaistvennoi nauki, 2017, iss. 4, p. 57-60., Registrované v: Russian Science Citation Index

613. [3.2] Pan, Feng; Yao, Yunxin; Tang, Xin; Wu, Wei. Physicochemical property and antioxidant activity of exopolysaccharide produced by endophytic fungal *Fusarium redolens* 6WBY3 isolated from *Fritillaria unibracteata* var. *wabuensis*. IN Acta Microbiologica Sinica, 2017, vol. 57, p. 240-253., Registrované v: BIOSIS Citation Index

614. [3.2] Singh, R. S.; Kaur, Navpreet. Biochemical and molecular characterization of a new pullulan producer *Rhodospiridium paludigenum* PUPY-06. In: Journal of Applied Biology & Biotechnology, 2018, volume: 6, issue: 1 pages: 28-37, ISSN 2455-7005., Registrované v: BIOSIS Citation Index

ADCA565 KAČURÁKOVÁ, Marta - BELTON, P.S. - WILSON, R.H. - HIRSCH, Ján - EBRINGEROVÁ, Anna. Hydration properties of xylan-type structures: an FTIR study of xylooligosaccharides. In *Journal of the Science of Food and Agriculture*, 1998, vol. 77, no. 1, p. 38-44. Dostupné na: [https://doi.org/10.1002/\(SICI\)1097-0010\(199805\)77:1<38::AID-JSFA999>3.0.CO;2-5](https://doi.org/10.1002/(SICI)1097-0010(199805)77:1<38::AID-JSFA999>3.0.CO;2-5)

Ohlasy:

1. [1.1] ADILETTA, Giuseppina - BRACHI, Paola - RIIANOVA, Evelina - CRESCITELLI, Alessio - MICCIO, Michele - KOSTRYUKOVA, Natalia. A Simplified Biorefinery Concept for the Valorization of Sugar Beet Pulp: Ecofriendly Isolation of Pectin as a Step Preceding Torrefaction. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 6, pp. 2721-2733. Dostupné na: <https://doi.org/10.1007/s12649-019-00582-4>., Registrované v: WOS

2. [1.1] AMER, Hassan - NYPELO, Tiina - SULAEVA, Irina - BACHER, Markus - HENNIGES, Ute - POTTHAST, Antje - ROSENAU, Thomas. Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 9, pp. 2972-2980., Registrované v: WOS

3. [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS

4. [1.1] BADER, Matyas - NEMETH, Robert - SANDAK, Jakub - SANDAK, Anna. FTIR analysis of chemical changes in wood induced by steaming and longitudinal compression. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 12, pp. 6811-6829. Dostupné na: <https://doi.org/10.1007/s10570-020-03131-8>., Registrované v: WOS

5. [1.1] BALACHANDRAMOHAN, Jayachandrabal - SIVASANKAR, Thirugnanasambandam. Ultrasound assisted synthesis of guar gum-zero valent iron nanocomposites as a novel catalyst for the treatment of pollutants. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp.

41-50., Registrované v: WOS

6. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. A simple approach for the sonochemical synthesis of Fe₃O₄-guargum nanocomposite and its catalytic reduction of p-nitroaniline. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS

7. [1.1] BARRA, B. N. - SANTOS, S. F. - BERGO, P. V. A. - ALVES, C. - GHAVAMI, K. - SAVASTANO, H. Residual sisal fibers treated by methane cold plasma discharge for potential application in cement based material. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 77, no., pp. 691-702., Registrované v: WOS

8. [1.1] BENITEZ, Jose J. - CASTILLO, Paula M. - DEL RIO, Jose C. - LEON-CAMACHO, Manuel - DOMINGUEZ, Eva - HEREDIA, Antonio - GUZMAN-PUYOL, Susana - ATHANASSIOU, Athanassia - HEREDIA-GUERRERO, Jose A. Valorization of Tomato Processing by-Products: Fatty Acid Extraction and Production of Bio-Based Materials. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 11, pp., Registrované v: WOS

9. [1.1] BOIX, Estefania - GEORGI, Frederic - NAVARD, Patrick. Influence of alkali and Si-based treatments on the physical and chemical characteristics of miscanthus stem fragments. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 91, no., pp. 6-14., Registrované v: WOS

10. [1.1] BONNIER-FIGUEROA, D. C. - QUEVEDO-LOPEZ, M. A. - ROSAS-DURAZO, A. - SOTELO-LERMA, M. HYDROTHERMAL TECHNIQUE FOR ISOLATION OF GALACTOMANNAN FROM SEEDS OF SONORAN MEZQUITE (Prosopis spp.). In REVISTA MEXICANA DE INGENIERIA QUIMICA. ISSN 1665-2738, 2017, vol. 16, no. 2, pp. 457-465., Registrované v: WOS

11. [1.1] BOUTTIER-FIGUEROA, D. C. - SOTELO-LERMA, M. Fabrication and characterization of an eco-friendly antibacterial nanocomposite of galactomannan/ZnO by in situ chemical co-precipitation method. In COMPOSITE INTERFACES. ISSN 0927-6440, 2019, vol. 26, no. 2, pp. 83-95., Registrované v: WOS

12. [1.1] BRITO, Talita Katiane - SILVA VIANA, Rony Lucas - GONCALVES MORENO, Claudia Jassica - BARBOSA, Jefferson da Silva - DE SOUSA JUNIOR, Francimar Lopes - CAMPOS DE MEDEIROS, Mayara Jane - MELO-SILVEIRA, Raniere Fagundes - ALMEIDA-LIMA, Jailma - PONTES, Daniel de Lima - SILVA, Marcelo Sousa - OLIVEIRA ROCHA, Hugo Alexandre. Synthesis of Silver Nanoparticle Employing Corn Cob Xylan as a Reducing Agent with Anti-Trypanosoma cruzi Activity. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2020, vol. 15, no., pp. 965-979. Dostupné na: <https://doi.org/10.2147/IJN.S216386>., Registrované v: WOS

13. [1.1] CARRILLO, Isabel - TEIXEIRA MENDONCA, Regis - AGO, Mariko - ROJAS, Orlando J. Comparative study of cellulosic components isolated from different Eucalyptus species. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 2, pp. 1011-1029., Registrované v: WOS

14. [1.1] DAS, Archana M. - HAZARIKA, Manash P. - GOSWAMI, Monmi - YADAV, Archana - KHOUND, Pradip. Extraction of cellulose from agricultural waste using Montmorillonite K-10/LiOH and its conversion to

renewable energy: Biofuel by using *Myrothecium gramineum*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 141, no., pp. 20-27., Registrované v: WOS

15. [1.1] DAS, Saprativ P. - GUPTA, Ashutosh - DAS, Debasish - GOYAL, Arun. Enhanced bioethanol production from water hyacinth (*Eichhornia crassipes*) by statistical optimization of fermentation process parameters using Taguchi orthogonal array design. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2016, vol. 109, no., pp. 174-184., Registrované v: WOS

16. [1.1] DE CARVALHO, Danila Morais - MARTINEZ-ABAD, Antonio - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronoarabinoxylan from sugarcane bagasse and straw. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 223-234., Registrované v: WOS

17. [1.1] DE CARVALHO, Danila Morais - BERGLUND, Jennie - MARCHANDA, Celia - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Improving the thermal stability of different types of xylan by acetylation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 220, no., pp. 132-140., Registrované v: WOS

18. [1.1] DE CARVALHO, Danila Morais - MOSER, Carl - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena. Impact of the chemical composition of cellulosic materials on the nanofibrillation process and nanopaper properties. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 127, no., pp. 203-211., Registrované v: WOS

19. [1.1] DE CARVALHO, Danila Morais - MARCHAND, Celia - BERGLUND, Jennie - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Impact of birch xylan composition and structure on film formation and properties. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 184-196. Dostupné na: <https://doi.org/10.1515/hf-2018-0224>., Registrované v: WOS

20. [1.1] GONG, Jixian - ZHANG, Qiuya - LOU, Jiangfei - ZHANG, Tao - LI, Huiqin - LI, Zheng - LI, Qiuji - ZHANG, Jianfei. Investigation of the degradation of bio-recalcitrance in *Apocynum venetum* fiber biodegumming. In JOURNAL OF NATURAL FIBERS. ISSN 1544-0478, 2019, vol. 16, no. 1, pp. 1-12., Registrované v: WOS

21. [1.1] HALYSH, Vita - SEVASTYANOVA, Olena - DE CARVALHO, Danila Morais - RIAZANOVA, Anastasia - LINDSTROM, Mikael E. - GOMELYA, Mykola. Effect of oxidative treatment on composition and properties of sorbents prepared from sugarcane residues. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 139, no., pp., Registrované v: WOS

22. [1.1] HALYSH, Vita - SEVASTYANOVA, Olena - PIKUS, Stanislaw - DOBELE, Galina - PASALSKIY, Bogdan - GUN'KO, Volodymyr M. - KARTEL, Mykola. Sugarcane bagasse and straw as low-cost lignocellulosic sorbents for the removal of dyes and metal ions from water. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 14, pp. 8181-8197. Dostupné na: <https://doi.org/10.1007/s10570-020-03339-8>., Registrované v: WOS

23. [1.1] HUANG, Xiujie - HU, Ning - WANG, Xiaoying - ZHANG, Yu Shrike - SUN, Runcang. Copper Sulfide Nanoparticle/Cellulose Composite

Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 3, pp. 2648-2655.,

Registrované v: WOS

24. [1.1] CHENG, Heli - FENG, Qinghua - WANG, Duan - WANG, Peng - LIU, Hao - ZHAN, Huaiyu - LIU, Yu - XIE, Yimin. SEPARATION, PURIFICATION AND CHARACTERIZATION OF CORN STOVER HEMICELLULOSES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2017, vol. 51, no. 3-4, pp. 215-222., Registrované v: WOS

25. [1.1] CHENG, He-Li - LIU, Hao - FENG, Qing-Hua - XIE, Yi-Min - ZHAN, Huai-Yu. Preparation, characterization and in vitro anticoagulant activity of corn stover xylan sulfates. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2017, vol. 28, no. 3, pp. 271-283., Registrované v: WOS

26. [1.1] CHEN, Lei - LIU, Jie - ZHANG, Yaqiong - NIU, Yuge - DAI, Bona - YU, Liangli (Lucy). A Novel Alkaline Hemicellulosic Heteroxylan Isolated from Alfalfa (*Medicago sativa* L.) Stem and Its Thermal and Anti-inflammatory Properties. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 11, pp. 2970-2978., Registrované v: WOS

27. [1.1] CHEN, Zhiwen - HU, Thomas Q. - JANG, Ho Fan - GRANT, Edward. Modification of xylan in alkaline treated bleached hardwood kraft pulps as classified by attenuated total-internal-reflection (ATR) FTIR spectroscopy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 418-426., Registrované v: WOS

28. [1.1] CHEN, Zhiwen - HU, Thomas Q. - JANG, Ho Fan - GRANT, Edward. Multivariate Analysis of Hemicelluloses in Bleached Kraft Pulp Using Infrared Spectroscopy. In APPLIED SPECTROSCOPY. ISSN 0003-7028, 2016, vol. 70, no. 12, pp. 1981-1993., Registrované v: WOS

29. [1.1] CHIMPHANGO, Annie F. A. - MATAVIRE, Thokozani O. Performance and structural comparison of hydrogels made from wheat bran arabinoxylan using enzymatic and coacervation methods as micro- and nano-encapsulation and delivery devices. In BIOMEDICAL MICRODEVICES. ISSN 1387-2176, 2019, vol. 21, no. 4, pp., Registrované v: WOS

30. [1.1] LIANG, Jiajin - CHEN, Jiao - WU, Shubin - LIU, Chao - LEI, Ming. Comprehensive insights into xylan structure evolution via multi-perspective analysis during slow pyrolysis process. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2019, vol. 186, no., pp. 1-7., Registrované v: WOS

31. [1.1] LIANG, Yuan - DUAN, Wenjing - AN, Xiaoxi - QIAO, Yingyun - TIAN, Yuanyu - ZHOU, Haifeng. Novel betaine-amino acid based natural deep eutectic solvents for enhancing the enzymatic hydrolysis of corncob. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123389>., Registrované v: WOS

32. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS

33. [1.1] LIU, Hua-Min - WANG, Fei-Yun - LIU, Yu-Lan.

Hot-compressed water extraction of polysaccharides from soy hulls. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 202, no., pp. 104-109., Registrované v: WOS

34. [1.1] LIU, Hua-Min - WEI, Ya-Nan - YAN, Yuan-Yuan - WU, Min - QIN, Guang-Yong - WANG, Xue-De. Extraction and Characterization of Pectic Polysaccharides from *Chaenomeles sinensis* Fruit by Hot Compressed Water. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 1, pp. 854-868. Dostupné na: <https://doi.org/10.15376/biores.15.1.854-868>., Registrované v: WOS

35. [1.1] LIU, Shuai - JIA, Mengyun - CHEN, Jiajun - WAN, Haisheng - DONG, Ruihong - NIE, Shaoping - XIE, Mingyong - YU, Qiang. Removal of bound polyphenols and its effect on antioxidant and prebiotics properties of carrot dietary fiber. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 93, no., pp. 284-292., Registrované v: WOS

36. [1.1] LI, Han-Yin - SUN, Shao-Ni - ZHOU, Xia - PENG, Feng - SUN, Run-Cang. Structural characterization of hemicelluloses and topochemical changes in Eucalyptus cell wall during alkali ethanol treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 123, no., pp. 17-26., Registrované v: WOS

37. [1.1] LI, Helong - LI, Zhi - PENG, Pai - SHE, Diao - XU, Qiang - ZHANG, Xueming. Characteristics of hemicelluloses obtained from sweet sorghum based on successive extractions. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 46, pp., Registrované v: WOS

38. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS

39. [1.1] LUO, Jing - HUANG, Kaixuan - ZHOU, Xin - XU, Yong. Green integration of alcohol-mediated hemicelluloses separation and alkali recycling (AHSAR) technologies in a viscose fiber plant. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2020, vol. 237, no., pp. Dostupné na: <https://doi.org/10.1016/j.seppur.2019.116359>., Registrované v: WOS

40. [1.1] LUO, Yiping - FAN, Jiajun - BUDARIN, Vitaliy L. - HU, Changwei - CLARK, James H. Microwave-assisted hydrothermal selective dissolution and utilisation of hemicellulose in *Phyllostachys heterocycla* cv. pubescens. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 20, pp. 4889-4899., Registrované v: WOS

41. [1.1] MAANI, Bahareh - ALIM, Mazdak - SHOKOOHI, Shirin - FAZELI, Fatemeh. Substitution of modified starch with hydrogen peroxide-modified rice bran in salad dressing formulation: physicochemical, texture, rheological and sensory properties. In JOURNAL OF TEXTURE STUDIES. ISSN 0022-4901, 2017, vol. 48, no. 3, pp. 205-214., Registrované v: WOS

42. [1.1] MAO, Kewei - CHEN, Honggao - QI, Hanghang - QIU, Zidong - ZHANG, Li - ZHOU, Jiangang. Visual degumming process of ramie fiber using a microbial consortium RAMCD407. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3513-3528., Registrované v: WOS

43. [1.1] MITTAL, Neeraj - KAUR, Gurpreet. Amination of a Natural

- Polymer, *Leucaena leucocephala* (Lam.) galactomannan: Synthesis, Optimization and Characterization. In JOURNAL OF POLYMER MATERIALS. ISSN 0973-8622, 2018, vol. 35, no. 4, pp. 433-448., Registrované v: WOS
44. [1.1] MITTAL, Neeraj - KAUR, Gurpreet. Investigations on Polymeric Nanoparticles for Ocular Delivery. In ADVANCES IN POLYMER TECHNOLOGY. ISSN 0730-6679, 2019, vol., no., pp., Registrované v: WOS
45. [1.1] MODICA, Aurora - ROSSELLI, Sergio - CATINELLA, Giorgia - SOTTILE, Francesco - CATANIA, C. Anna - CAVALLARO, Giuseppe - LAZZARA, Giuseppe - BOTTA, Luigi - SPINELLA, Alberto - BRUNO, Maurizio. Solid state ¹³C-NMR methodology for the cellulose composition studies of the shells of *Prunus dulcis* and their derived cellulosic materials. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116290>., Registrované v: WOS
46. [1.1] MUNIR, Hira - SHAHID, Muhammad - ANJUM, Fozia - MUDGIL, Deepak. Structural, thermal and rheological characterization of modified *Dalbergia sissoo* gum-A medicinal gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 84, no., pp. 236-245., Registrované v: WOS
47. [1.1] NIU, Hui - CHEN, Weijun - CHEN, Wenxue - YUN, Yonghuan - ZHONG, Qiuping - FU, Xiong - CHEN, Haiming - LIU, Gang. Preparation and Characterization of a Modified-beta-Cyclodextrin/beta-Carotene Inclusion Complex and Its Application in Pickering Emulsions. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 46, pp. 12875-12884., Registrované v: WOS
48. [1.1] NOPPARUT, Ajjima - AMORNSAKCHAI, Taweechai. Influence of pineapple leaf fiber and it's surface treatment on molecular orientation in, and mechanical properties of, injection molded nylon composites. In POLYMER TESTING. ISSN 0142-9418, 2016, vol. 52, no., pp. 141-149., Registrované v: WOS
49. [1.1] OBAIDAT, Rana M. - TASHTOUSH, Bassam M. - BAYAN, Mohammad F. - AL BUSTAMI, Rana T. - ALNAIEF, Mohammad. Drying Using Supercritical Fluid Technology as a Potential Method for Preparation of Chitosan Aerogel Microparticles. In AAPS PHARMSCITECH. ISSN 1530-9932, 2015, vol. 16, no. 6, pp. 1235-1244., Registrované v: WOS
50. [1.1] OZPARPUCU, Merve - GIERLINGER, Notburga - BURGERT, Ingo - VAN ACKER, Rebecca - VANHOLME, Ruben - BOERJAN, Wout - PILATE, Gilles - DEJARDIN, Annabelle - RUGGEBERG, Markus. The effect of altered lignin composition on mechanical properties of CINNAMYL ALCOHOL DEHYDROGENASE (CAD) deficient poplars. In PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 887-897., Registrované v: WOS
51. [1.1] OZPARPUCU, Merve - GIERLINGER, Notburga - CESARINO, Igor - BURGERT, Ingo - BOERJAN, Wout - RUGGEBERG, Markus. Significant influence of lignin on axial elastic modulus of poplar wood at low microfibril angles under wet conditions. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2019, vol. 70, no. 15, pp. 4039-4047., Registrované v: WOS
52. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. Characterization of xylan from rice bran and finger millet seed coat for functional food applications.

In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 75, no., pp. 296-305., Registrované v: WOS

53. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS

54. [1.1] PENG, Xiaopeng - NIE, Shuangxi - LI, Xiaoping - HUANG, Xiong - LI, Quanzi. Characteristics of the Water- and Alkali-Soluble Hemicelluloses Fractionated by Sequential Acidification and Graded-Ethanol from Sweet Maize Stems. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 1, pp., Registrované v: WOS

55. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Intensification of degradation of guar gum: Comparison of approaches based on ozone, ultraviolet and ultrasonic irradiations. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 98, no., pp. 165-173., Registrované v: WOS

56. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Intensification of depolymerization of aqueous guar gum using hydrodynamic cavitation. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 93, no., pp. 1-9., Registrované v: WOS

57. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Depolymerization of guar gum solution using different approaches based on ultrasound and microwave irradiations. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2015, vol. 88, no., pp. 1-9., Registrované v: WOS

58. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Intensification of depolymerization of polyacrylic acid solution using different approaches based on ultrasound and solar irradiation with intensification studies. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2016, vol. 32, no., pp. 290-299., Registrované v: WOS

59. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Depolymerization of carboxymethyl cellulose using hydrodynamic cavitation combined with ultraviolet irradiation and potassium persulfate. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2019, vol. 51, no., pp. 258-263., Registrované v: WOS

60. [1.1] QI, Xian-Ming - CHEN, Ge-Gu - GONG, Xiao-Dong - FU, Gen-Que - NIU, Ya-Shuai - BIAN, Jing - PENG, Feng - SUN, Run-Cang. Enhanced mechanical performance of biocompatible hemicelluloses-based hydrogel via chain extension. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS

61. [1.1] RAO, Jun - GAO, Hui - GUAN, Ying - LI, Wen-qi - LIU, Qiang. Fabrication of hemicelluloses films with enhanced mechanical properties by graphene oxide for humidity sensing. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 208, no., pp. 513-520., Registrované v: WOS

62. [1.1] REMON, Javier - SANTOMAURO, Fabio - CHUCK, Christopher J. - MATHARU, Avtar S. - CLARK, James H. Production of fermentable species by microwave-assisted hydrothermal treatment of biomass carbohydrates: reactivity and fermentability assessments. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 19, pp. 4507-4520., Registrované v: WOS

63. [1.1] ROMANELLI, Steven M. - KNOLL, Grant A. - SANTORA, Anthony M. - BROWN, Alexandra M. - BANERJEE, Ipsita A. Comparison of Engineered Peptide-Glycosaminoglycan Microfibrous Hybrid Scaffolds for Potential Applications in Cartilage Tissue Regeneration. In FIBERS. ISSN 2079-6439, 2015, vol. 3, no. 3, pp. 265-295., Registrované v: WOS
64. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (*Medicago sativa* (Fabaceae)) of Flora of Krasnoyarsk Krai. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS
65. [1.1] SABIHA-HANIM, Saleh - NOOR, Mohd Azemi Mohd - ROSMA, Ahmad. Fractionation of oil palm frond hemicelluloses by water or alkaline impregnation and steam explosion. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 533-539., Registrované v: WOS
66. [1.1] SAMANTA, A. K. - CHIKKERUR, J. - ROY, Sohini - KOLTE, A. P. - SRIDHAR, Manpal - DHALI, A. - GIRIDHAR, K. - SENANI, S. Xylooligosaccharides production from tobacco stalk xylan using edible acid. In CURRENT SCIENCE. ISSN 0011-3891, 2019, vol. 117, no. 9, pp. 1521-1525., Registrované v: WOS
67. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Recombinant GH-26 endo-mannanase from *Bacillus* sp CFR1601: Biochemical characterization and application in preparation of partially hydrolysed guar gum. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 64, no. 2, pp. 809-816., Registrované v: WOS
68. [1.1] TEMENOUGA, V. - CHARITIDIS, T. - AVGIDOU, M. - KARAYANNAKIDIS, P. D. - DIMOPOULOU, M. - KALOGIANNI, E. P. - PANAYIOTOU, C. - RITZOULIS, C. Novel emulsifiers as products from internal Maillard reactions in okra hydrocolloid mucilage. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 52, no., pp. 972-981., Registrované v: WOS
69. [1.1] TROSHCHYNSKA, Yana - SYNYTSYA, Andriy - KYSELKA, Jan - STETINA, Jiri. FLAXSEED MEAL MUCILAGE POLYSACCHARIDES: CHEMICAL CHARACTERIZATION AND PURIFICATION. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, vol., no., pp. 273-277., Registrované v: WOS
70. [1.1] VEERAMACHINENI, Anand Kumar - SATHASIVAM, Thenapakiam - PARAMASIVAM, Ragul - MUNIYANDY, Saravanan - PUSHPAMALAR, Janarthanan. Synthesis and Characterization of a Novel pH-Sensitive Aluminum Crosslinked Carboxymethyl Tragacanth Beads for Extended and Enteric Drug Delivery. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2019, vol. 27, no. 7, pp. 1516-1528., Registrované v: WOS
71. [1.1] WANDEE, Yuree - UTTAPAP, Dudsadee - MISCHNICK, Petra. Yield and structural composition of pomelo peel pectins extracted under acidic and alkaline conditions. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 87, no., pp. 237-244., Registrované v: WOS
72. [1.1] WANG, Kai-li - WANG, Bo - HU, Ruibo - ZHAO, Xianhai - LI, Huiling - ZHOU, Gongke - SONG, Lili - WU, Ai-min. Characterization of

- hemicelluloses in *Phyllostachys edulis* (moso bamboo) culm during xylogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 221, no., pp. 127-136., Registrované v: WOS
73. [1.1] WANG, Shurong - LIN, Haizhou - ZHANG, Li - DAI, Gongxin - ZHAO, Yuan - WANG, Xiaoliu - RU, Bin. Structural Characterization and Pyrolysis Behavior of Cellulose and Hemicellulose Isolated from Softwood *Pinus armandii* Franch. In ENERGY & FUELS. ISSN 0887-0624, 2016, vol. 30, no. 7, pp. 5721-5728., Registrované v: WOS
74. [1.1] WANG, Shurong - RU, Bin - LIN, Haizhou - SUN, Wuxing. Pyrolysis behaviors of four O-acetyl-preserved hemicelluloses isolated from hardwoods and softwoods. In FUEL. ISSN 0016-2361, 2015, vol. 150, no., pp. 243-251., Registrované v: WOS
75. [1.1] XIA, Siqing - ZHOU, Lijie - ZHANG, Zhiqiang - HERMANOWICZ, Slawomir W. Removal mechanism of low-concentration Cr (VI) in a submerged membrane bioreactor activated sludge system. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 12, pp. 5351-5360., Registrované v: WOS
76. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
77. [1.1] XU, Jiyuan - XIA, Ruirui - YUAN, Tongqi - SUN, Runcang. Use of xylooligosaccharides (XOS) in hemicelluloses/chitosan-based films reinforced by cellulose nanofiber: Effect on physicochemical properties. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 298, no., pp., Registrované v: WOS
78. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from *Eucalyptus grandis*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS
79. [1.1] YANG, Sheng - HE, Wei-Tao - FU, Yi - ZHANG, Yue - YUAN, Tong-Qi - SUN, Run-Cang. A bio-based coating onto the surface Populus fiber for oil spillage cleanup applications. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 98, no., pp. 38-45., Registrované v: WOS
80. [1.1] YAN, Jipeng - OYEDEJI, Oluwafemi - LEAL, Juan H. - DONOHOE, Bryon S. - SEMELSBERGER, Troy A. - LI, Chenlin - HOOVER, Amber N. - WEBB, Erin - BOSE, Elizabeth A. - ZENG, Yining - WILLIAMS, C. Luke - SCHALLER, Kastli D. - SUN, Ning - RAY, Allison E. - TANJORE, Deepti. Characterizing Variability in Lignocellulosic Biomass: A Review. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8059-8085. Dostupné na: <https://doi.org/10.1021/acssuschemeng.9b06263>., Registrované v: WOS
81. [1.1] YAO, Shun - YANG, Ying-ying - SONG, Hang - WANG, Yan - WAN, Hai-qing. Quantitative industrial Analysis of Lignocellulosic Composition in Typical Agro-Residues and Extraction of Inner Hemicelluloses with Ionic Liquid. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2015, vol. 74, no. 1, pp. 58-63., Registrované v: WOS
82. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI,

- Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (*Neosinocalamus affinis*) Culms. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS
83. [1.1] YUN, Liyuan - WU, Tao - LIU, Rui - LI, Kun - ZHANG, Min. Structural Variation and Microrheological Properties of a Homogeneous Polysaccharide from Wheat Germ. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 11, pp. 2977-2987., Registrované v: WOS
84. [1.1] ZHANG, Chuang - KHOO, Siew Lin Ada - SWEDLUND, Peter - OGAWA, Yukiharu - SHAN, Yang - QUEK, Siew Young. Fabrication of Spray-Dried Microcapsules Containing Noni Juice Using Blends of Maltodextrin and Gum Acacia: Physicochemical Properties of Powders and Bioaccessibility of Bioactives during In Vitro Digestion. In FOODS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091316>., Registrované v: WOS
85. [1.1] ZHANG, Ni - TAO, Peng - LU, Yanxv - NIE, Shuangxi. Effect of lignin on the thermal stability of cellulose nanofibrils produced from bagasse pulp. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 13-14, pp. 7823-7835., Registrované v: WOS
86. [1.1] ZHAO, Yuan - WANG, Shurong - LIN, Haizhou - CHEN, Jingping - XU, Hao. Influence of a Lewis acid and a Bronsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 13, pp. 7235-7242., Registrované v: WOS
87. [1.1] ZONG, Peijie - JIANG, Yuan - TIAN, Yuanyu - LI, Jie - YUAN, Meng - JI, Yaoyao - CHEN, Minshen - LI, Dawei - QIAO, Yingyun. Pyrolysis behavior and product distributions of biomass six group components: Starch, cellulose, hemicellulose, lignin, protein and oil. In ENERGY CONVERSION AND MANAGEMENT. ISSN 0196-8904, 2020, vol. 216, no., pp. Dostupné na: <https://doi.org/10.1016/j.enconman.2020.112777>., Registrované v: WOS
88. [1.2] EVSTAF'EV, S. N. - KHOANG, K. K. Ultrasonic treatment wheat straw in the environment 1-butyl-3-methylimidazolium chloride. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2018-01-01, 1, pp. 5-12., Registrované v: SCOPUS
89. [1.2] GAO, Zhiyong - SONG, Shaobo - SUN, Wei - HU, Yuehua - ZHONG, Hong. Depressant behavior and mechanism of guar and xanthan gums on calcite flotation. In Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology). ISSN 16727207, 2016-05-26, 47, 5, pp. 1459-1464., Registrované v: SCOPUS
90. [1.2] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seeding medicago sativa (fabaceae) flora of the Krasnoyarsk territory. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS
91. [1.2] SAFOU-TCHIAMA, R. - ANDZI BARHÉ, T. - SOULOUNGANGA, P. - AKAGAH, A. G. - DE JESO, B. A comparative study of the syringyl, guaiacyl and hydroxyl groups units distribution in some African

tropical hardwoods' lignin by Py-GC/MS and spectroscopic techniques. In Journal of Materials and Environmental Science. ISSN 20282508, 2017-01-01, 8, 7, pp. 2530-2540., Registrované v: SCOPUS

92. [1.2] SWAMINATHAN, Jonesh - JAYAPAL, Perumal Raj - ASOKAN, Meera - RAMASAMY, Dhanasekar. Dilute acid pretreatment of sweet sorghum stalk and its characterization. In International Journal of ChemTech Research. ISSN 09744290, 2015-01-01, 8, 6, pp. 589-598., Registrované v: SCOPUS

93. [1.2] XIA, Qing - YAO, Lan - ZHANG, Hong Wei - YANG, Hai Tao. Isolation and characteristic research of LCC from enzymatic hydrolysis liquor of kraft wheat straw pulp. In Zhongguo Zaozhi Xuebao/Transactions of China Pulp and Paper. ISSN 10006842, 2015-01-01, 30, 3, pp. 5-9., Registrované v: SCOPUS

94. [1.2] XU, Ji Kun - LI, Ming Fei - SUN, Run Cang. Identifying the impact of ultrasound-assisted extraction on polysaccharides and natural antioxidants from *Eucommia ulmoides* Oliver. In Process Biochemistry. ISSN 13595113, 2015-01-01, 50, 3, pp. 473-481., Registrované v: SCOPUS

95. [1.2] ZULYADI, Nur Hazlilla - SALEH, Sabiha Hanim - SARIJO, Siti Halimah. Fractionation of hemicellulose from rice straw by alkaline extraction and ethanol precipitation. In Malaysian Journal of Analytical Sciences. ISSN 13942506, 2016-01-01, 20, 2, pp. 329-334., Registrované v: SCOPUS

96. [3.1] Zhu, N., Shi, H., Cao, N., Xiong, X., Niu, M., & Ping, Q. (2016). Isolation of hemicelluloses from acacia wood with hydrothermal prehydrolysis and its characterization of structure and component. Huagong Xuebao/CIESC Journal, 67(6), 2605-2611

ADCA566 KAČURÁKOVÁ, Marta - WELLNER, N. - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - WILSON, R.H. - BELTON, P.S. Characterisation of xylan-type polysaccharides and associated cell wall components by FT-IR and FT-Raman spectroscopies. In *Food Hydrocolloids*, 1999, vol. 13, p. 35-41. ISSN 0268-005X.

Ohlasy:

1. [1.1] ACEMI, Arda - TURKER-KAYA, Sevgi - OZEN, Fazil. FT-IR Spectroscopy Based Evaluation of Changes in Primary Metabolites of *Amsonia orientalis* after In vitro 6-benzylaminopurine Treatment. In NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA. ISSN 0255-965X, 2016, vol. 44, no. 1, pp. 209-214., Registrované v: WOS

2. [1.1] ALMKVIST, Gunnar - NORBAKHSH, Shahin - BJURHAGER, Ingela - VARMUZA, Kurt. Prediction of tensile strength in iron-contaminated archaeological wood by FT-IR spectroscopy a study of degradation in recent oak and Vasa oak. In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 9, pp. 855-865., Registrované v: WOS

3. [1.1] ALTANGEREL, Narangerel - WALKER, John W. - GONZALEZ, Piedad Mayagoitia - BAILEY, Derek W. - ESTELL, Rick E. - SCULLY, Marlan O. Comparison of Near Infrared Reflectance Spectroscopy and Raman Spectroscopy for Predicting Botanical Composition of Cattle Diets. In RANGELAND ECOLOGY & MANAGEMENT. ISSN 1550-7424, 2017, vol. 70, no. 6, pp. 781-786., Registrované v: WOS

4. [1.1] AZUMA, Wakana - NAKASHIMA, Satoru - YAMAKITA, Eri - ISHII, H. Roaki - KURODA, Keiko. Water retained in tall *Cryptomeria*

japonica leaves as studied by infrared micro-spectroscopy. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2017, vol. 37, no. 10, pp. 1367-1378., Registrované v: WOS

5. [1.1] BANDARA, Nandika - WU, Jianping. Chemically Modified Canola Protein-Nanomaterial Hybrid Adhesive Shows Improved Adhesion and Water Resistance. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 1, pp. 1152-1161., Registrované v: WOS

6. [1.1] BAUM, Andreas - DOMINIAK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS

7. [1.1] BENITEZ-GUERRERO, Monica - PEREZ-MAQUEDA, Luis A. - ARTIAGA, Ramon - SANCHEZ-JIMENEZ, Pedro E. - PASCUAL-COSP, Jose. Structural and Chemical Characteristics of Sisal Fiber and Its Components: Effect of Washing and Grinding. In *JOURNAL OF NATURAL FIBERS*. ISSN 1544-0478, 2017, vol. 14, no. 1, pp. 26-39., Registrované v: WOS

8. [1.1] BORGHESE, Roberto - BRUCALE, Marco - FORTUNATO, Gianuario - LANZI, Massimiliano - MEZZI, Alessio - VALLE, Francesco - CAVALLINI, Massimiliano - ZANNONI, Davide. Extracellular production of tellurium nanoparticles by the photosynthetic bacterium *Rhodobacter capsulatus*. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2016, vol. 309, no., pp. 202-209., Registrované v: WOS

9. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of hemicelluloses through an azetidinium salt ring-opening reaction. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 428, no., pp. 23-30., Registrované v: WOS

10. [1.1] CEBI, Nur - BOZKURT, Fatih - YILNNAZ, Mustafa Tahsin - SAGDIC, Osman. An evaluation of FTIR spectroscopy for prediction of royal jelly content in hive products. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 2, pp. 146-155. Dostupné na: <https://doi.org/10.1080/00218839.2019.1707009>., Registrované v: WOS

11. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsypianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

12. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS

13. [1.1] DEVAUX, Marie-Francoise - JAMME, Frederic - ANDRE, William - BOUCHET, Brigitte - ALVARADO, Camille - DURAND, Sylvie - ROBERT, Paul - SAULNIER, Luc - BONNIN, Estelle - GUILLON, Fabienne.

Synchrotron Time-Lapse Imaging of Lignocellulosic Biomass Hydrolysis: Tracking Enzyme Localization by Protein Autofluorescence and Biochemical Modification of Cell Walls by Microfluidic Infrared Microspectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

14. [1.1] DI FRANCESCO, Alessandra - DI FOGGIA, Michele - BARALDI, Elena. Aureobasidium pullulans volatile organic compounds as alternative postharvest method to control brown rot of stone fruits. In FOOD MICROBIOLOGY. ISSN 0740-0020, 2020, vol. 87, no., pp. Dostupné na: <https://doi.org/10.1016/j.fm.2019.103395>., Registrované v: WOS

15. [1.1] EL-AHMADY EL-NAGGAR, Noura - RABEI, Nashwa H. - EL-MALKEY, Sahar E. Eco-friendly approach for biosorption of Pb²⁺ and carcinogenic Congo red dye from binary solution onto sustainable Ulva lactuca biomass. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-73031-1>., Registrované v: WOS

16. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS

17. [1.1] GHOSHAL, G. - SHIVHARE, U. S. - BANERJEE, U. C. Rheological properties and microstructure of xylanase containing whole wheat bread dough. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 7, pp. 1928-1937., Registrované v: WOS

18. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS

19. [1.1] GUAN, Ying - QI, Xian-Ming - CHEN, Ge-Gu - PENG, Feng - SUN, Run-Cang. Facile approach to prepare drug-loading film from hemicelluloses and chitosan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 542-548., Registrované v: WOS

20. [1.1] HACHEM, Kadda - BOUDRAA, Kamel Eddine - KAID-HARCHE, Meriem. Chemical and thermal characteristics of soluble polysaccharides from fruit pericarps of the Algerian Argania spinosa. In POLISH JOURNAL OF CHEMICAL TECHNOLOGY. ISSN 1509-8117, 2020, vol. 22, no. 4, pp. 17-21. Dostupné na: <https://doi.org/10.2478/pjct-2020-0033>., Registrované v: WOS

21. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian Argania spinosa. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

22. [1.1] CHENG, H. N. - BISWAS, Atanu. Novel polyurethanes from Xylan and TDI: Preparation and characterization. In ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0065-7727, 2017, vol. 253, no., pp., Registrované v: WOS

23. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543,

- 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS
24. [1.1] CHEN, Ge-Gu - QI, Xian-Ming - GUAN, Ying - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 4, pp. 1985-1993., Registrované v: WOS
25. [1.1] CHEN, Changjie - CHEN, Guicui - LI, Xin - GUO, Hongyun - WANG, Guohe. The influence of chemical treatment on the mechanical properties of windmill palm fiber. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 4, pp. 1611-1620., Registrované v: WOS
26. [1.1] CHEN, Yajie - JIANG, Xue - XIE, Hongqing - LI, Xiaotong - SHI, Liangen. Structural characterization and antitumor activity of a polysaccharide from ramulus mori. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 190, no., pp. 232-239., Registrované v: WOS
27. [1.1] CHEN, Yanjun - SUN, Xiangxiang - SHAN, Junqiang - TANG, Chenglun - HU, Ruijia - SHEN, Tao - QIAO, Hongqun - LI, Ming - ZHUANG, Wei - ZHU, Chenjie - YING, Hanjie. Flow synthesis, characterization, anticoagulant activity of xylan sulfate from sugarcane bagasse. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1460-1467. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.124>., Registrované v: WOS
28. [1.1] CHOI, Yu-Ra - CHANG, Yoon Hyuk. Microencapsulation of gallic acid through the complex of whey protein concentrate-pectic polysaccharide extracted from Ulmus davidiana. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 85, no., pp. 222-228., Registrované v: WOS
29. [1.1] CHYLINSKA, Monika - SZYMANSKA-CHARGOT, Monika - ZDUNEK, Artur. FT-IR and FT-Raman characterization of non-cellulosic polysaccharides fractions isolated from plant cell wall. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 154, no., pp. 48-54., Registrované v: WOS
30. [1.1] IBRAHIM, Samia M. - BOUREZGUI, A. - ABD-ELMAGEED, A. A. I. - KACEM, I. - AL-HOSSAINY, Ahmed F. Structural and optical characterization of novel [ZnKCMC](TF) for optoelectronic device applications. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, 2020, vol. 31, no. 11, pp. 8690-8704. Dostupné na: <https://doi.org/10.1007/s10854-020-03404-9>., Registrované v: WOS
31. [1.1] JAASKELAINEN, Anna-Stiina - ROJAS, Leonardo Galvis - BERTINETTO, Carlo G. Localization of Cereal Grain Components by Vibrational Microscopy and Chemometric Analysis. In IMAGING TECHNOLOGIES AND DATA PROCESSING FOR FOOD ENGINEERS, 2016, vol., no., pp. 41-68., Registrované v: WOS
32. [1.1] JAIN, Ashay - THAKUR, Deepika - GHOSHAL, Gargi - KATARE, O. P. - SHIVHARE, U. S. Characterization of microcapsulated beta-carotene formed by complex coacervation using casein and gum tragacanth. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 87, no., pp. 101-113., Registrované v: WOS
33. [1.1] JIANG, Zhicheng - BUDARIN, Vitaliy L. - FAN, Jiajun - REMON, Javier - LI, Tianzong - HU, Changwei - CLARK, James H. Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol.

6, no. 3, pp. 4098-+., Registrované v: WOS

34. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDYANI, Harsha - GUPTA, Prerna. Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS

35. [1.1] KERROUCHE, Djamila - SADOON, Tahar - ROUBA, Nabila - SOTCLET, G. - SOL, Vincent - GLOAGUEN, Vincent - CHALEIX, Vincent. Synthesis and characterization of xylan-graft-poly(L-lactide). In INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION. ISSN 1023-666X, 2018, vol. 23, no. 3, pp. 193-206., Registrované v: WOS

36. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice husk. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS

37. [1.1] KUSHWAH, Sunita - BANASIAK, Alicja - NISHIKUBO, Nobuyuki - DERBA-MACELUCH, Marta - MAJDA, Mateusz - ENDO, Satoshi - KUMAR, Vikash - GOMEZ, Leonardo - GORZSAS, Andras - MCQUEEN-MASON, Simon - BRAAM, Janet - SUNDBERG, Bjorn - MELLEROWICZ, Ewa J. Arabidopsis XTH4 and XTH9 Contribute to Wood Cell Expansion and Secondary Wall Formation(1)([OPEN]). In PLANT PHYSIOLOGY. ISSN 0032-0889, 2020, vol. 182, no. 4, pp. 1946-1965. Dostupné na: <https://doi.org/10.1104/pp.19.01529>., Registrované v: WOS

38. [1.1] LAN, Weijie - RENARD, Catherine M. G. C. - JAILLAIS, Benoit - LECA, Alexandre - BUREAU, Sylvie. Fresh, freeze-dried or cell wall samples: Which is the most appropriate to determine chemical, structural and rheological variations during apple processing using ATR-FTIR spectroscopy? In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127357>., Registrované v: WOS

39. [1.1] LI, Li - MA, Sen - FAN, Ling - ZHANG, Chi - PU, Xiaoqing - ZHENG, Xueling - WANG, Xiaoxi. The influence of ultrasonic modification on arabinoxylans properties obtained from wheat bran. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2016, vol. 51, no. 11, pp. 2338-2344., Registrované v: WOS

40. [1.1] LI, Xiaoli - SHA, Junjing - XIA, Yihua - SHENG, Kuichuan - LIU, Yufei - HE, Yong. Quantitative visualization of subcellular lignocellulose revealing the mechanism of alkali pretreatment to promote methane production of rice straw. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-1648-8>., Registrované v: WOS

41. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS

42. [1.1] MATEU, Batirtze Prats - BOCK, Peter - GIERLINGER, Notburga. Raman Imaging of Plant Cell Walls. In PLANT CELL WALL, 2

- EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 251-295. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_15., Registrované v: WOS
43. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - ORTEGA-GARCIA, Jesus - SANTIAGO-GOMEZ, Lubitza B. - DE ANDA-FLORES, Yubia - MARTINEZ-ROBINSON, Karla G. - VALENCIA-RIVERA, Dora E. Effect of Ultrasound-Treated Arabinoxylans on the Oxidative Stability of Soybean Oil. In ANTIOXIDANTS, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/antiox9020147>., Registrované v: WOS
44. [1.1] MUCHLISYAM - SILALAH, Jansen - HARAHAP, Urip. Hemicellulose: Isolation and Its Application in Pharmacy. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 305-339., Registrované v: WOS
45. [1.1] PASCU, Daniela-E. - MIRON, Alexandra R. - PASCU-NEAGU, Mihaela - NECHIFOR, Aurelia C. - BITA, Bogdan I. - POPESCU, Marian C. - TRISCA-RUSU, Corneliu - TOTU, Eugenia Eftimie. Fabrication, characterization, and modelling of polysulfone composite membranes with enhanced adsorbent capabilities. In SEPARATION SCIENCE AND TECHNOLOGY. ISSN 0149-6395, 2016, vol. 51, no. 15-16, pp. 2628-2638., Registrované v: WOS
46. [1.1] PAVLOVICH-ABRIL, Alan - ROUZAUD-SANDEZ, Ofelia - CARVAJAL-MILLAN, Elizabeth - ELENA NAVARRO, Rosa - MARIBEL ROBLES-SANCHEZ, Rosario - MANUEL BARRON-HOYOS, Jesus. Molecular characterization of water extractable arabinoxylans isolated from wheat fine bran and their effect on dough viscosity. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2016, vol. 74, no., pp. 484-492., Registrované v: WOS
47. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
48. [1.1] PAWLAK-KRUCZEK, Halina - ARORA, Amit - GUPTA, Ashish - SAEED, Muhammad Azam - NIEDZWIECKI, Lukasz - ANDREWS, Gordon - PHYLAKTU, Herodotos - GIBBS, Bernard - NEWLACZYL, Anna - LIVESEY, Penelope M. Biocoal Quality control and assurance. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 135, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105509>., Registrované v: WOS
49. [1.1] SAMANTA, Ashis Kumar - KOLTE, A. P. - ELANGOVAN, A. V. - DHALI, A. - SENANI, S. - SRIDHAR, M. - SURESH, K. P. - JAYAPAL, N. - JAYARAM, C. - ROY, Sohini. Value addition of corn husks through enzymatic production of xylooligosaccharides. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2016, vol. 59, no., pp., Registrované v: WOS
50. [1.1] SAPINA, Maria - JIMENEZ-RELINQUE, Eva - NEVSHUPA, Roman - ROMAN, Elisa - CASTELLOTE, Marta. Degradation of pollen on nanofunctionalized photocatalytic materials. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 1, pp. 210-216., Registrované v: WOS
51. [1.1] SENAPITAKKUL, Viradee - VANITJINDA, Gawisara - TORGBO, Selorm - PINMANEE, Phitsanu - NIMCHUA, Thidarat -

- RUNGTHAWORN, Prapassorn - SUKATTA, Udomlak - SUKYAI, Prakit. Pretreatment of Cellulose from Sugarcane Bagasse with Xylanase for Improving Dyeability with Natural Dyes. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 43, pp. 28168-28177. Dostupné na: <https://doi.org/10.1021/acsomega.0c03837>., Registrované v: WOS
52. [1.1] SINGH, R. D. - BHUYAN, K. - BANERJEE, J. - MUIR, J. - ARORA, A. Hydrothermal and microwave assisted alkali pretreatment for fractionation of arecanut husk. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 102, no., pp. 65-74., Registrované v: WOS
53. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953. Dostupné na: <https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS
54. [1.1] SUSHYTSKYI, Leonid - LUKAC, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVA, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - COPIKOVA, Jana - KASTANEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HY1 (Chlorellaceae). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116588>., Registrované v: WOS
55. [1.1] SYNYTSYA, Alla - POUCKOVA, Pavla - ZADINOVA, Marie - TROSHCHYNSKA, Yana - STETINA, Jiri - SYNYTSYA, Andriy - SALON, Ivan - KRAL, Vladimir. Hydrogels based on low-methoxyl amidated citrus pectin and flaxseed gum formulated with tripeptide glycyl-L-histidyl-L-lysine improve the healing of experimental cutting wounds in rats. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 3156-3168. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.251>., Registrované v: WOS
56. [1.1] TROSHCHYNSKA, Yana - SYNYTSYA, Andriy - KYSELKA, Jan - STETINA, Jiri. FLAXSEED MEAL MUCILAGE POLYSACCHARIDES: CHEMICAL CHARACTERIZATION AND PURIFICATION. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, vol., no., pp. 273-277., Registrované v: WOS
57. [1.1] TROSHCHYNSKA, Yana - SINICA, Andrej - STETINA, Jiri - SILVA, Soraia - FERREIRA, Sonia - COELHO, Elisabete - COIMBRA, Manuel A. FRACTIONATION OF FLAXSEED MUSILAGE POLYSACCHARIDES BY CHEMICAL AND SEPARATION METHODS. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, vol., no., pp. 73-77., Registrované v: WOS
58. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in *Plantago ovata* Using Gamma Irradiation Spectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
59. [1.1] URBIZO-REYES, Uriel - SAN MARTIN-GONZALEZ, M.

- Fernanda - GARCIA-BRAVO, Jose - LICEAGA, Andrea M. Development of chia seed (*Salvia hispanica*) mucilage films plasticized with polyol mixtures: Mechanical and barrier properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 854-864. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.023>., Registrované v: WOS
60. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
61. [1.1] WANG, Zhen-Bin - CHEN, Bing-Bing - LUO, Lin - YAN, Jing-Kun. Fractionation, physicochemical characteristics and biological activities of polysaccharides from *Pueraria lobata* roots. In *JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS*. ISSN 1876-1070, 2016, vol. 67, no., pp. 54-60., Registrované v: WOS
62. [1.1] WANG, Zhijun - XIE, Jianhua - YANG, Yujiao - ZHANG, Fan - WANG, Shengnan - WU, Ting - SHEN, Mingyue - XIE, Mingyong. Sulfated *Cyclocarya paliurus* polysaccharides markedly attenuates inflammation and oxidative damage in lipopolysaccharide-treated macrophage cells and mice. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
63. [1.1] WU, Hongyang - XU, Huimin - LI, Hanyin - WEI, Dongmei - LIN, Jinxing - LI, Xiaojuan. Seasonal development of cambial activity in relation to xylem formation in Chinese fir. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2016, vol. 195, no., pp. 23-30., Registrované v: WOS
64. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In *FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL*. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS
65. [1.1] YILMAZ-TURAN, Secil - JIMENEZ-QUERO, Amparo - MENZEL, Carolin - DE CARVALHO, Danila Morais - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena - MORIANA, Rosana - VILAPLANA, Francisco. Bio-based films from wheat bran feruloylated arabinoxylan: Effect of extraction technique, acetylation and feruloylation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116916>., Registrované v: WOS
66. [1.1] ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In *POLYMERS*, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS
67. [1.1] ZENG, Yining - YARBROUGH, John M. - MITTAL, Ashutosh - TUCKER, Melvin P. - VINZANT, Todd B. - DECKER, Stephen R. - HIMMEL, Michael E. In situ label-free imaging of hemicellulose in plant cell walls using stimulated Raman scattering microscopy. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
68. [1.2] Nie, S., Cui, S. W., & Xie, M. Bioactive Polysaccharides. IN

Bioactive Polysaccharides, 2017. (Elsevier, pp. 1-554), Registrované v: SCOPUS
69. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

ADCA567 KAČURÁKOVÁ, Marta - PETRÁKOVÁ, Eva - HIRSCH, Ján - EBRINGEROVÁ, Anna. Infrared study of intramolecular hydrogen bonds in methyl mono-O-substituted beta-D-xylopyranosides. In *Vibrational Spectroscopy*, 1994, vol., p. 31-36. ISSN 0924-2031.

Ohlasy:

1. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHANSSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS

2. [1.1] VITNIK, Zeljko J. - FABIAN, Walter M. F. Ring- and side-group conformational properties of di-O-acylated xylopyranosides: A computational study. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2015, vol. 1051, no., pp. 104-109., Registrované v: WOS

ADCA568 KAČURÁKOVÁ, Marta - EBRINGEROVÁ, Anna - HIRSCH, Ján - HROMÁDKOVÁ, Zdenka. Infrared study of arabinoxylans. In *Journal of the Science of Food and Agriculture*, 1994, vol. 66, no. 3, p. 423-427. Dostupné na: <https://doi.org/10.1002/jsfa.2740660323>

Ohlasy:

1. [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS

2. [1.1] ALYASSIN, M. - CAMPBELL, G. M. Challenges and constraints in analysis of oligosaccharides and other fibre components. In *VALUE OF FIBRE: ENGAGING THE SECOND BRAIN FOR ANIMAL NUTRITION*, 2019, vol., no., pp. 257-277., Registrované v: WOS

3. [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS

4. [1.1] BAG, Janmejaya - MUKHERJEE, Sumit - GHOSH, Sumanta Kumar - DAS, Aatrayee - MUKHERJEE, Arup - SAHOO, Jitendra Kumar - TUNG, Kshyama Subhadarsini - SAHOO, Harekrushna - MISHRA, Monalisa. Fe₃O₄ coated guar gum nanoparticles as non-genotoxic materials for biological application. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 333-345. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.144>., Registrované v: WOS

5. [1.1] BAHRPAIMA, Khatereh - FATEHI, Pedram. Synthesis and

- Characterization of Carboxyethylated Lignosulfonate. In CHEMSUSCHEM. ISSN 1864-5631, 2018, vol. 11, no. 17, pp. 2967-2980., Registrované v: WOS
6. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. A simple approach for the sonochemical synthesis of Fe₃O₄-guargum nanocomposite and its catalytic reduction of p-nitroaniline. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS
7. [1.1] BENDAOUD, Amine - MAIGRET, Jean-Eudes - LEROY, Eric - CATHALA, Bernard - LOURDIN, Denis. Cellulose-Xyloglucan Composite Film Processing Using Ionic Liquids as Co-Solvents. In PROCEEDINGS OF PPS-32: THE 32ND INTERNATIONAL CONFERENCE OF THE POLYMER PROCESSING SOCIETY. ISSN 0094-243X, 2017, vol. 1914, no., pp., Registrované v: WOS
8. [1.1] COUTO, Ricardo - WONG, Emily - SEIFRIED, Bernhard - YEPEZ, Byron - MOQUIN, Paul - TEMELLI, Feral. Preparation of PGX-dried gum arabic and its loading with coQ10 by adsorptive precipitation. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104662>., Registrované v: WOS
9. [1.1] DE ANDA-FLORES, Yubia - CARVAJAL-MILLAN, Elizabeth - LIZARDI-MENDOZA, Jaime - RASCON-CHU, Agustin - LUISA MARTINEZ-LOPEZ, Ana - MARQUEZ-ESCALANTE, Jorge - BROWN-BOJORQUEZ, Francisco - TANORI-CORDOVA, Judith. Covalently Cross-Linked Nanoparticles Based on Ferulated Arabinoxylans Recovered from a Distiller's Dried Grains Byproduct. In PROCESSES, 2020, vol. 8, no. 6, pp. Dostupné na: <https://doi.org/10.3390/pr8060691>., Registrované v: WOS
10. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
11. [1.1] GAO, Yanhong - LI, Qun - SHI, Yu - CHA, Ruitao. Preparation and Application of Cationic Modified Cellulose Fibrils as a Papermaking Additive. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2016, vol., no., pp., Registrované v: WOS
12. [1.1] GUAN, Ying - QI, Xian-Ming - CHEN, Ge-Gu - PENG, Feng - SUN, Run-Cang. Facile approach to prepare drug-loading film from hemicelluloses and chitosan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 542-548., Registrované v: WOS
13. [1.1] GUAN, Ying - QI, Xian-Ming - CHEN, Ge-Gu - PENG, Feng - SUN, Run-Cang. Facile approach to prepare drug-loading film from hemicelluloses and chitosan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 542-548., Registrované v: WOS
14. [1.1] GUO, Jiaqi - FILPPONEN, Ilari - SU, Pingping - LAINE, Janne - ROJAS, Orlando J. Attachment of gold nanoparticles on cellulose nanofibrils via click reactions and electrostatic interactions. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 5, pp. 3065-3075., Registrované v: WOS
15. [1.1] CHEN, Gegu - LI, Tian - CHEN, Chaoji - WANG, Chengwei - LIU, Yang - KONG, Weiqing - LIU, Dapeng - JIANG, Bo - HE, Shuaiming - KUANG, Yudi - HU, Liangbing. A Highly Conductive Cationic Wood

- Membrane. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2019, vol. 29, no. 44, pp., Registrované v: WOS
16. [1.1] CHEN, Ge-Gu - QI, Xian-Ming - GUAN, Ying - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 4, pp. 1985-1993., Registrované v: WOS
17. [1.1] KARLSSON, Kristina - NYLANDER, Filip - LUNDMAN, Malin - BERTA, Marco - STADING, Mats - WESTMAN, Gunnar - RIGDAHL, Mikael. Hot-mould foaming of modified hemicelluloses and hydroxypropyl methylcellulose. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2019, vol. 26, no. 8, pp., Registrované v: WOS
18. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice husk. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
19. [1.1] KINYUA, Esther Mbuci - MWANGI, Isaac W. - WANJAU, Ruth N. - NGILA, J. C. Clarification of colloidal and suspended material in water using triethanolamine modified maize tassels. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 6, pp. 5214-5221., Registrované v: WOS
20. [1.1] LIANG, Yuan - DUAN, Wenjing - AN, Xiaoxi - QIAO, Yingyun - TIAN, Yuanyu - ZHOU, Haifeng. Novel betaine-amino acid based natural deep eutectic solvents for enhancing the enzymatic hydrolysis of corncob. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123389>., Registrované v: WOS
21. [1.1] LIU, Shuai - JIA, Mengyun - CHEN, Jiajun - WAN, Haisheng - DONG, Ruihong - NIE, Shaoping - XIE, Mingyong - YU, Qiang. Removal of bound polyphenols and its effect on antioxidant and prebiotics properties of carrot dietary fiber. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 93, no., pp. 284-292., Registrované v: WOS
22. [1.1] LIU, Zhijun - LI, Dianxin - DAI, Hongjie - HUANG, Huihua. Enhanced properties of tea residue cellulose hydrogels by addition of graphene oxide. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 244, no., pp. 110-116., Registrované v: WOS
23. [1.1] LIU, Zhijun - LI, Dianxin - DAI, Hongjie - HUANG, Huihua. Preparation and characterization of papain embedded in magnetic cellulose hydrogels prepared from tea residue. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 232, no., pp. 449-456., Registrované v: WOS
24. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS
25. [1.1] LI, Li - MA, Sen - FAN, Ling - ZHANG, Chi - PU, Xiaoqing - ZHENG, Xuelling - WANG, Xiaoxi. The influence of ultrasonic modification on arabinoxylans properties obtained from wheat bran. In INTERNATIONAL

- JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2016, vol. 51, no. 11, pp. 2338-2344., Registrované v: WOS
26. [1.1] MARQUEZ-ESCALANTE, Jorge A. - CARVAJAL-MILLAN, Elizabeth. Feruloylated Arabinoxylans from Maize Distiller's Dried Grains with Solubles: Effect of Feruloyl Esterase on their Macromolecular Characteristics, Gelling, and Antioxidant Properties. In SUSTAINABILITY, 2019, vol. 11, no. 22, pp., Registrované v: WOS
27. [1.1] MA, Lijuan - DU, Liping - CUI, Youzhi - SONG, Pan - JIANG, Fengchao - MA, Qing - XIAO, Dongguang. Isolation and structural analysis of hemicellulose from corncobs after a delignification pretreatment. In ANALYTICAL METHODS. ISSN 1759-9660, 2016, vol. 8, no. 41, pp. 7500-7506., Registrované v: WOS
28. [1.1] MEDRONHO, Bruno - DUARTE, Hugo - ALVES, Luis - ANTUNES, Filipe E. - ROMANO, Anabela - VALENTE, Artur J. M. The role of cyclodextrin-tetrabutylammonium complexation on the cellulose dissolution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 136-143., Registrované v: WOS
29. [1.1] MUNIR, Hira - SHAHID, Muhammad - ANJUM, Fozia - MUDGIL, Deepak. Structural, thermal and rheological characterization of modified Dalbergia sissoo gum-A medicinal gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 84, no., pp. 236-245., Registrované v: WOS
30. [1.1] NYLANDER, Filip - SVENSSON, Olof - JOSEFSON, Mats - LARSSON, Anette - WESTMAN, Gunnar. New features of arabinoxylan ethers revealed by using multivariate analysis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 204, no., pp. 255-261., Registrované v: WOS
31. [1.1] RAO, Jun - GAO, Hui - GUAN, Ying - LI, Wen-qi - LIU, Qiang. Fabrication of hemicelluloses films with enhanced mechanical properties by graphene oxide for humidity sensing. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 208, no., pp. 513-520., Registrované v: WOS
32. [1.1] REN, Junli - DAI, Qingqing - ZHONG, Haoquan - LIU, Xinxin - MENG, Ling - WANG, Xiaohui - XIN, Fengxue. Quaternized xylan/cellulose nanocrystal reinforced magnetic hydrogels with high strength. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4537-4549., Registrované v: WOS
33. [1.1] SAHOO, Jitendra Kumar - KUMAR, Aniket - RATH, Juhi - MOHANTY, Tanuja - DASH, Priyabrat - SAHOO, Harekrushna. Guar gum-coated iron oxide nanocomposite as an efficient adsorbent for Congo red dye. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2017, vol. 95, no., pp. 342-354., Registrované v: WOS
34. [1.1] SARKER, Niloy C. - RAY, Priyanka - PFAU, Creighton - KALAVACHARLA, Venu - HOSSAIN, Khwaja - QUADIR, Mohiuddin. Development of Functional Nanomaterials from Wheat Bran Derived Arabinoxylan for Nucleic Acid Delivery. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 15, pp. 4367-4373. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c00029>., Registrované v: WOS
35. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290.,

Registrované v: WOS

36. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in *Plantago ovata* Using Gamma Irradiation Spectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
37. [1.1] WHITE, Kathryn E. - COALE, Frank J. - REEVES, James B. Degradation changes in plant root cell wall structural molecules during extended decomposition of important agricultural crop and forage species. In ORGANIC GEOCHEMISTRY. ISSN 0146-6380, 2018, vol. 115, no., pp. 233-245., Registrované v: WOS
38. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
39. [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
40. [1.1] YUAN, Lin - PENG, Hong - HU, Lifang - YU, Ruobing - PENG, Wenyi - RUAN, Roger - XIA, Qi - ZHANG, Yu - LIU, Aihong. Dissolution of Bamboo Hemicellulose in 1-Butyl-3-Methylimidazolium Halide-based Ionic Liquids. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 1, pp. 2097-2112., Registrované v: WOS
41. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI, Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (*Neosinocalamus affinis*) Culms. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS
42. [1.1] ZENG, Ganmin - HAN, Jing - DAI, Beibei - LIU, Xiaohui - LI, Jinkun - CHEN, Chuntao - YANG, Jiazhi - SUN, Dongping. Preparation and Characterization of Alkaline Anion Exchange Membrane for Fuel Cells Application. In JOURNAL OF NANOTECHNOLOGY. ISSN 1687-9503, 2017, vol., no., pp., Registrované v: WOS
43. [1.1] ZHANG, Bing - GUAN, Ying - BIAN, Jing - PENG, Feng - REN, Jun-Li - YAO, Chun-Li - SUN, Run-Cang. STRUCTURE OF HEMICELLULOSES UPON MATURATION OF BAMBOO (*Neosinocalamus affinis*) CULMS. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 2, pp. 189-198., Registrované v: WOS
44. [1.1] ZHAO, Wenhong - CHEN, Hui - WU, Ligen - MA, Weibin - XIE, Yanli. Antioxidant properties of feruloylated oligosaccharides of different degrees of polymerization from wheat bran. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2018, vol. 35, no. 6, pp. 547-559., Registrované v: WOS

45. [1.2] BOONTUM, Auangfa - PHETSOM, Jirapa - RODIAHWATI, Wawat - KITSUBTHAWEE, Kanyarat - KUNTOTHOM, Teerachai. Characterization of Diluted-acid Pretreatment of Water Hyacinth. In Applied

Science and Engineering Progress. ISSN 26729156, 2019-01-01, 12, 4, pp. 253-263., Registrované v: SCOPUS

46. [1.2] GAO, Zhiyong - SONG, Shaobo - SUN, Wei - HU, Yuehua - ZHONG, Hong. Depressant behavior and mechanism of guar and xanthan gums on calcite flotation. In Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology). ISSN 16727207, 2016-05-26, 47, 5, pp. 1459-1464., Registrované v: SCOPUS

47. [1.2] ODIYO, John O. - EDOKPAYI, Joshua N. Physico-chemical and surface characterisation of a renewable low-cost biosorbent for the uptake of heavy metal ions from aqueous solution. In WIT Transactions on Ecology and the Environment. ISSN 1746448X, 2018-01-01, 228, pp. 317-327., Registrované v: SCOPUS

48. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

49. [1.2] THEN, Yoon Yee - IBRAHIM, Nor Azowa - ZAINUDDIN, Norhazlin - CHIENG, Buong Woei - ENG, Chern Chiet - ARIFFIN, Hidayah - WAN YUNUS, Wan Md Zin. Enhancement of tensile properties of surface treated oil palm mesocarp fiber/poly(Butylene succinate) biocomposite by (3-aminopropyl)trimethoxysilane. In Materials Science Forum. ISSN 02555476, 2016-01-01, 846, pp. 665-672., Registrované v: SCOPUS

50. [1.2] ZHOU, Hui Fang - YANG, Gui Hua - CHEN, Jia Chuan - KONG, Fan Gong - WANG, Qiang. Improvement of APMP Pulp Properties by Using Cinnamoylated Xylans as Additive. In Chung-kuo Tsao Chih/China Pulp and Paper. ISSN 0254508X, 2017-02-01, 36, 2, pp. 1-5., Registrované v: SCOPUS

51. [1.2] ZULYADI, Nur Hazlilla - SALEH, Sabiha Hanim - SARIJO, Siti Halimah. Fractionation of hemicellulose from rice straw by alkaline extraction and ethanol precipitation. In Malaysian Journal of Analytical Sciences. ISSN 13942506, 2016-01-01, 20, 2, pp. 329-334., Registrované v: SCOPUS

52. [3.1] Bii, T. A., Mwangi, I. W., Wanjau, R. N., Swaleh, S., Ram, M., Ngila, J. C. (2016). Remediation of some selected heavy metals from water using modified and unmodified mushrooms. Journal of Pollution Effects & Control, 4(2), 1-15, art. no. 1000162

53. [3.1] Mwangi Kamathi, C., Mwangi, I. W., Wanjau, R. N., Swaleh, S., Ram, M., Ngila, J. C. (2016). Remediation of fluoride laden water by complexation with triethylamine modified maize tassels. Environment and Natural Resources Research, 6(1), 44-58

ADCA569 KAČURÁKOVÁ, Marta - PETRAKOVA, E. - EBRINGEROVÁ, Anna.

Infrared-spectra of the positional isomers of the methyl xylobiosides in the anomeric region. In *Carbohydrate Research*, 1990, vol. 207, no. 1, p. 121-125. (1990 - Current Contents, SCOPUS). ISSN 0008-6215.

Ohlasy:

1. [1.1] THONGJAMROON, Sunida - PATTANAPORKKRATANA, Apichart. Fluorescence study of sugars. In INTERNATIONAL CONFERENCE ON PHOTONICS SOLUTIONS 2015. ISSN 0277-786X, 2015, vol. 9659, no., pp., Registrované v: WOS

ADCA570 KÁKONIOVÁ, Daniela - HLINKOVÁ, Elena - LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin. Oligosaccharides induce changes in protein patterns of regenerating spruce protoplasts. In *Central European Journal of Biology*, 2010, vol.5, no.3, p. 353-363. (2009: 0.915 - IF, Q3 - JCR, Current Contents - CCC). (2010 - Current Contents). ISSN 1895-104X. Dostupné na: <https://doi.org/10.2478/s11535-010-0018-0>

Ohlasy:

1. [3.1] Kalia, RK (Kalia, Rajwant K.); Singh, R (Singh, Rohtas); Kalia, S (Kalia, Sanjay); Sharma, SK (Sharma, SK), Kumar, S (Kumar, Suresh). (2016). Recent advances in understanding the role of growth regulators in plant growth and development in vitro - II. Non-conventional growth regulators. The Indian Forester, 142(6), 524-535

ADCA571 KÁKOŠOVÁ, Anna - DIGONNET, Catherine - GOFFNER, Deborah - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides are assumed to affect tracheary element formation via interaction with auxin in *Zinnia* xylogenic cell culture. In *Plant Cell Reports*, 2013, vol. 32, p. 479-487. (2012: 2.509 - IF, Q1 - JCR, 0.995 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0721-7714. Dostupné na: <https://doi.org/10.1007/s00299-012-1379-9>

Ohlasy:

1. [1.1] IAKIMOVA, Elena T. - WOLTERING, Ernst J. Xylogenesis in zinnia (*Zinnia elegans*) cell cultures: unravelling the regulatory steps in a complex developmental programmed cell death event. In *PLANTA*. ISSN 0032-0935, 2017, vol. 245, no. 4, pp. 681-705., Registrované v: WOS
2. [1.1] LARSKAYA, I. A. - GORSHKOVA, T. A. Plant oligosaccharides outsiders among elicitors? In *BIOCHEMISTRY-MOSCOW*. ISSN 0006-2979, 2015, vol. 80, no. 7, pp. 881-900., Registrované v: WOS
3. [3.2] LARSKAYA, I.A.; GORSHKOVA, T.A.: Plant Oligosaccharides - Outsiders among Elicitors? (review). In *BIOCHEMISTRY (MOSCOW)*. Source: *Биохимия*, 2015, vol. 80, iss. 7, p. 1049-1071., Registrované v: Russian Science Citation Index

ADCA572 KÁKOŠOVÁ, Anna - DIGONNET, Catherine - GOUBET, Florencie - RANOCHA, Philippe - JAUNEAU, Alain - PESQUET, Eduard - BARBIER, Odile - ZHANG, Zhinong - CAPEK, Peter - DUPREE, Paul - LIŠKOVÁ, Desana - GOFFNER, Deborah. Galactoglucomannans increase cell population density and alter the protoxylem/metaxylem tracheary element ratio in xylogenic cultures of zinnia. In *Plant Physiology*, 2006, vol. 142, p.696-709. (2005: 6.114 - IF, Q1 - JCR, 3.532 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0032-0889. Dostupné na: <https://doi.org/10.1104/pp.106.085712>

Ohlasy:

1. [1.1] ABEDI, Tayebbeh - KHALIL, Mohamed Farouk Mohamed - ASAI, Toshihiko - ISHIHARA, Nami - KITAMURA, Kenji - ISHIDA, Nobuhiro - TANAKA, Nobukazu. UDP-galactose transporter gene hUGT1 expression in tobacco plants leads to hyper-galactosylated cell wall components. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2016, vol. 121, no. 5, pp. 573-583., Registrované v: WOS
2. [1.1] GOYAL, Megh R. TREE INJECTION IRRIGATION: PRINCIPLES, PERSPECTIVES AND PROBLEMS. In *PERFORMANCE*

EVALUATION OF MICRO IRRIGATION MANAGEMENT: PRINCIPLES AND PRACTICES, 2017, vol., no., pp. 77-107., Registrované v: WOS

3. [1.1] IQBAL, Amjad - MILLER, Janice G. - MURRAY, Lorna - SADLER, Ian H. - FRY, Stephen C. The pectic disaccharides lepidimoic acid and beta-d-xylopyranosyl-(1→3)-d-galacturonic acid occur in cress-seed exudate but lack allelochemical activity. In ANNALS OF BOTANY. ISSN 0305-7364, 2016, vol. 117, no. 4, pp. 607-623., Registrované v: WOS

4. [1.1] KARAKOESE, Hande - MUELLER, Anja - KUHNERT, Nikolai. Profiling and Quantification of Phenolics in Stevia rebaudiana Leaves. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 41, pp. 9188-9198., Registrované v: WOS

5. [1.1] VOINICIUC, Catalin - SCHMIDT, Maximilian Heinrich-Wilhelm - BERGER, Adeline - YANG, Bo - EBERT, Berit - SCHELLER, Henrik V. - NORTH, Helen M. - USADEL, Bjoern - GUENL, Markus. MUCILAGE-RELATED10 Produces Galactoglucomannan That Maintains Pectin and Cellulose Architecture in Arabidopsis Seed Mucilage. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 169, no. 1, pp. 403-+, Registrované v: WOS

6. [1.1] WOLF, Sebastian. Plant cell wall signalling and receptor-like kinases. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2017, vol. 474, no., pp. 471-492., Registrované v: WOS

7. [1.2] NGUYEN, Suong T.T. - MCCURDY, David W. Transdifferentiation: A plant perspective. In Molecular Cell Biology of the Growth and Differentiation of Plant Cells, 2017-01-01, pp. 298-319., Registrované v: SCOPUS

8. [1.2] ZHANG, Rui - LI, Lai Geng. Research progress of the plant cell wall signaling. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2018-08-20, 54, 8, pp. 1254-1262., Registrované v: SCOPUS

ADCA573 KALEBINA, T. - FARKAŠ, Vladimír - LAURIAVICHUTE, D.K. - GORLOVOY, P.M. - FOMINOV, G.. - BARTEK, Peter - KULAEV, I.S. Deletion of BGL2 results in an increased chitin level in the cell wall of *Saccharomyces cerevisiae*. In *Antonie van Leeuwenhoek*, 2003, vol. 84, p. 179-184. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1023/A:1026034123673>

Ohlasy:

1. [1.1] AIMANIANDA, Vishukumar - SIMENEL, Catherine - GARNAUD, Cecile - CLAVAUD, Cecile - TADA, Rui - BARBIN, Lise - MOUYNA, Isabelle - HEDDERGOTT, Christoph - POPOLO, Laura - OHYA, Yoshikazu - DELEPIERRE, Muriel - LATGE, Jean-Paul. The Dual Activity Responsible for the Elongation and Branching of beta-(1,3)-Glucan in the Fungal Cell Wall. In MBIO. ISSN 2150-7511, 2017, vol. 8, no. 3, pp., Registrované v: WOS

2. [1.1] ANTONIO PORRAS-AGUERA, Juan - CARLOS MAURICIO, Juan - MORENO-GARCIA, Jaime - MORENO, Juan - GARCIA-MARTINEZ, Teresa. A Differential Proteomic Approach to Characterize the Cell Wall Adaptive Response to CO₂ Overpressure during Sparkling Wine-Making Process. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081188>., Registrované v: WOS

3. [1.1] RIBEIRO, Marcela Suriani - DE PAULA, Renato Graciano - VOLTAN, Aline Raquel - DE CASTRO, Raphaela Georg - CARRARO, Claudia

Batista - DE ASSIS, Leandro Jose - STEINDORFF, Andrei Stecca - GOLDMAN, Gustavo Henrique - SILVA, Roberto Nascimento - ULHOA, Cirano Jose - MONTEIRO, Valdirene Neves. Endo-beta-1,3-glucanase (GH16 Family) from *Trichoderma harzianum* Participates in Cell Wall Biogenesis but Is Not Essential for Antagonism Against Plant Pathogens. In *BIOMOLECULES*, 2019, vol. 9, no. 12, pp., Registrované v: WOS

4. [1.1] TEPARIC, Renata - LOZANCIC, Mateja - MRSA, Vladimir. Evolutionary Overview of Molecular Interactions and Enzymatic Activities in the Yeast Cell Walls. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21238996>., Registrované v: WOS

ADCA574 KALEBINA, T. - FARKAŠ, Vladimír - LAURINAVICHUTE, D.K. - GORLOVOY, P.M. - FOMINOV, G.B. - BARTEK, Peter - KULAEV, I.S. Deletion of BGL2 result in increased chitin level in the cell wall of *Saccharomyces cerevisiae*. In *Antonie van Leeuwenhoek*, 2003, vol. 84, p. 179-184. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1023/A:1026034123673>

Ohlasy:

1. [1.1] MARTINEZ-NUNEZ, Leonora - RIQUELME, Meritxell. Role of BGT-1 and BGT-2, two predicted GPI-anchored glycoside hydrolases/glycosyltransferases, in cell wall remodeling in *Neurospora crassa*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2015, vol. 85, no., pp. 58-70., Registrované v: WOS

ADCA575 KALIMUTHU, Palraj - TKÁČ, Ján - KAPPLER, Ulrike - DAVIS, Jason J. - BERNHARDT, Paul V. Highly sensitive and stable electrochemical sulfite biosensor incorporating a bacterial sulfite dehydrogenase. In *Analytical Chemistry*, 2010, vol.82, p. 7374-7379. (2009: 5.214 - IF, 2.343 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac101493y>

Ohlasy:

1. [1.1] AGARWALLA, Hridesh - PAL, Suman - PAUL, Anirban - JUN, Yong Woong - BAE, Juryang - AHN, Kyo Han - SRIVASTAVA, Divesh N. - DAS, Amitava. A fluorescent probe for bisulfite ions: its application to two-photon tissue imaging. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2016, vol. 4, no. 48, pp. 7888-7894., Registrované v: WOS

2. [1.1] BERCHMANS, Sheela - BALAMURUGAN, T. Direct Electron Transfer in Redox Enzymes and Microorganisms. In *BIOELECTROCHEMICAL INTERFACE ENGINEERING*, 2020, vol., no., pp. 21-35., Registrované v: WOS

3. [1.1] DIWAN, Uzra - KUMAR, Virendra - MISHRA, Rakesh K. - RANA, Nishant Kumar - KOCH, Biplob - SINGH, Manish Kumar - UPADHYAY, K. K. A pyrene-benzthiazolium conjugate portraying aggregation induced emission, a ratiometric detection and live cell visualization of HSO₃⁻. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2016, vol. 929, no., pp. 39-48., Registrované v: WOS

4. [1.1] DO NASCIMENTO MARREIRO TEIXEIRA, Ana Siqueira Siqueira - SOUSA TEIXEIRA, Paulo Ronaldo - DE OLIVEIRA FARIAS, Emanuel Airton - FERRAZ E SOUSA, Brandon - DE LEITE MOURA SERVULO, Katia Bonfim - DA SILVA, Durcilene Alves - EIRAS, Carla. Babassu mesocarp (*Orbignya phalerata* Mart) nanoparticle-based biosensors for

indirect sulfite detection in industrial juices. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2020, vol. 24, no. 5, pp. 1143-1155. Dostupné na: <https://doi.org/10.1007/s10008-020-04546-w.>, Registrované v: WOS

5. [1.1] GIMENEZ-GOMEZ, Pablo - GUTIERREZ-CAPITAN, Manuel - PUIG-PUJOL, Anna - CAPDEVILA, Fina - MUNOZ, Sergio - TOBENA, Andreu - MIRO, Antoni - JIMENEZ-JORQUERA, Cecilia. Analysis of free and total sulfur dioxide in wine by using a gas-diffusion analytical system with pH detection. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 228, no., pp. 518-525., Registrované v: WOS

6. [1.1] CHATTERJEE, Sobhan - PAITAL, Alok Ranjan. Functionalized Cubic Mesoporous Silica as a Non-Chemodosimetric Fluorescence Probe and Adsorbent for Selective Detection and Removal of Bisulfite Anions along with Toxic Metal Ions. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2018, vol. 28, no. 9, pp., Registrované v: WOS

7. [1.1] CHEN, Yanhong - WANG, Xin - YANG, Xiao-Feng - ZHONG, Yaogang - LI, Zheng - LI, Hua. Development of a ratiometric fluorescent probe for sulfite based on a coumarin-benzopyrylium platform. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 206, no., pp. 268-275., Registrované v: WOS

8. [1.1] LEE, Seungah - YU, Hyunung - KANG, Seong Ho. Plasmonic metal scattering immunoassay by total internal reflection scattering microscopy with nanoscale lateral resolution. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2015, vol. 51, no. 5, pp. 945-947., Registrované v: WOS

9. [1.1] LI, Dongyu - TIAN, Xinwei - LI, Zhao - ZHANG, Jiahang - YANG, Xingbin. Preparation of a Near-Infrared Fluorescent Probe Based on IR-780 for Highly Selective and Sensitive Detection of Bisulfite-Sulfite in Food, Living Cells, and Mice. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 10, pp. 3062-3067., Registrované v: WOS

10. [1.1] LI, Kun - LI, Ling-Ling - ZHOU, Qian - YU, Kang-Kang - KIM, Jong Seung - YU, Xiao-Qi. Reaction-based fluorescent probes for SO₂ derivatives and their biological applications. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2019, vol. 388, no., pp. 310-333., Registrované v: WOS

11. [1.1] MA, Su - LUDWIG, Roland. Direct Electron Transfer of Enzymes Facilitated by Cytochromes. In CHEMELECTROCHEM. ISSN 2196-0216, 2019, vol. 6, no. 4, pp. 958-975., Registrované v: WOS

12. [1.1] SONG, Jianhua - ZHANG, Di - LIU, Yaqi - ZHAO, Yufen - YE, Yong. A highly sensitive and selective turn-on fluorescent probe for sulfite and its application in biological imaging. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2015, vol. 39, no. 8, pp. 6284-6288., Registrované v: WOS

13. [1.1] SPRICIGO, Roberto - LEIMKUEHLER, Silke - GORTON, Lo - SCHELLER, Frieder W. - WOLLENBERGER, Ulla. The Electrically Wired Molybdenum Domain of Human Sulfite Oxidase is Bioelectrocatalytically Active. In EUROPEAN JOURNAL OF INORGANIC CHEMISTRY. ISSN 1434-1948, 2015, vol., no. 21, pp. 3526-3531., Registrované v: WOS

14. [1.1] WANG, Qian - WEN, Yanli - LI, Yan - LIANG, Wen - LI, Wen - LI, Yuan - WU, Jiahuan - ZHU, Huichen - ZHAO, Keke - ZHANG, Jun - JIA, Nengqin - DENG, Wangping - LIU, Gang. Ultrasensitive Electrochemical

Biosensor of Bacterial 16S rRNA Gene Based on polyA DNA Probes. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 14, pp. 9277-9283., Registrované v: WOS

15. [1.1] XU, Jing - ZHENG, Da-Jun - SU, Mi-Mi - CHEN, Yan-Chi - JIAO, Qing-Cai - YANG, Yu-Shun - ZHU, Hai-Liang. A rapid cell-permeating turn-on probe for sensitive and selective detection of sulfite in living cells. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 37, pp. 8318-8324., Registrované v: WOS
16. [1.1] YANG, Bing - XU, Jing - ZHU, Hai-Liang. Recent progress in the small-molecule fluorescent probes for the detection of sulfur dioxide derivatives (HSO₃⁻/SO₃²⁻). In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2019, vol. 145, no., pp. 42-60., Registrované v: WOS
17. [1.1] ZENG, Ting - LEIMKUEHLER, Silke - KOETZ, Joachim - WOLLENBERGER, Ulla. Effective Electrochemistry of Human Sulfite Oxidase Immobilized on Quantum-Dots-Modified Indium Tin Oxide Electrode. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 38, pp. 21487-21494., Registrované v: WOS
18. [1.1] ZHAI, Yiwen - ZHANG, Hui - ZHANG, Lingling - DONG, Shaojun. A high performance fluorescence switching system triggered electrochemically by Prussian blue with upconversion nanoparticles. In NANOSCALE. ISSN 2040-3364, 2016, vol. 8, no. 18, pp. 9493-9497., Registrované v: WOS
19. [1.1] ZHOU, Fang - SULTANBAWA, Yasmina - FENG, Huan - WANG, Yong-Lei - MENG, Qingtao - WANG, Yue - ZHANG, Zhiqiang - ZHANG, Run. A New Red-Emitting Fluorescence Probe for Rapid and Effective Visualization of Bisulfite in Food Samples and Live Animals. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 15, pp. 4375-4383., Registrované v: WOS

ADCA576 KALOGERIS, E. - CHRISTAKOPOULOS, P. - VRŠANSKÁ, Mária - KEKOS, D. - BIELY, Peter - MACRIS, B.J. Catalytic properties of the endoxylanase I from *Thermoascus aurantiacus*. In *Journal of Molecular Catalysis B - Enzymatic*, 2001, vol. 11, p. 491-501. (2001 - Current Contents, SCOPUS). ISSN 1381-1177. Dostupné na: [https://doi.org/10.1016/S1381-1177\(00\)00178-8](https://doi.org/10.1016/S1381-1177(00)00178-8)

Ohlasy:

1. [1.1] CHADHA, B. S. - KAUR, Baljit - BASOTRA, Neha - TSANG, Adrian - PANDEY, Ashok. Thermostable xylanases from thermophilic fungi and bacteria: Current perspective. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 277, no., pp. 195-203., Registrované v: WOS
2. [1.1] CHANWICHA, Nantawan - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of alkaline xylanase from *Thermoascus aurantiacus* var. *levisporus* KKU-PN-I2-1 cultivated by solid-state fermentation. In MYCOSCIENCE. ISSN 1340-3540, 2015, vol. 56, no. 3, pp. 309-318., Registrované v: WOS
3. [1.2] CARLI, Sibeli - MELEIRO, Luana Parras - ROSA, Jose Cesar - MORAES, Luiz Alberto Beraldo - JORGE, João Atílio - MASUI, Douglas Chodi - FURRIEL, Rosa P.M. A novel thermostable and halotolerant xylanase from *Colletotrichum graminicola*. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-10-17, 133, pp. S508-S517., Registrované v: SCOPUS

ADCA577 KAMARÝT, J. - ZEMEK, Juraj - KUNIAK, Ľudovít. Determination of the molecular weight of alpha amylase. as the enzyme-inhibitor complex, using thin-layer gel filtration on Sephadex. In *Journal of clinical chemistry and clinical biochemistry : Zeitschrift für klinische Chemie und klinische Biochemie*, 1982, vol. 20, p. 451-455. ISSN 0340-076X.

Ohlasy:

1. [1.1] KRACUN, Stjepan Kresimir - SCHUCKEL, Julia - WESTERENG, Bjorge - THYGESEN, Lisbeth Garbrecht - MONRAD, Rune Nygaard - EIJSINK, Vincent G. H. - WILLATS, William George Tycho. A new generation of versatile chromogenic substrates for high-throughput analysis of biomass-degrading enzymes. In *BIOTECHNOLOGY FOR BIOFUELS*, 2015, vol. 8, no., pp., Registrované v: WOS

ADCA578 KAMMER, VON DER, H. - HANES, Jozef - KLAUDINY, Jaroslav - SCHEIT K.H. A human amyloid precursor-like protein is highly homologous to a mouse sequence-specific DNA-binding protein. In *DNA and Cell Biology*, 1994, vol. 13, p. 1137-1143. ISSN 1044-5498. Dostupné na: <https://doi.org/10.1089/dna.1994.13.1137>

Ohlasy:

1. [3.2] Group Author(s). Uniprot Consortium. Q06481. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/Q06481>, Registrované v: Data Citation Index
2. [3.2] Group Author(s): Uniprot Consortium. Q06481. IN UniProt Knowledgebase, 2018, Source URL: <http://www.uniprot.org/uniprot/Q06481>, Registrované v: Data Citation Index

ADCA579 KARÁCSONYI, Štefan - TOMAN, Rudolf - JANEČEK, František - KUBAČKOVÁ, Marta. Polysaccharides from the bark of the white willow (*Salix alba* L.): Structure of an arabian. In *Carbohydrate Research*, 1975, vol. 44, p. 285-293. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)84172-5](https://doi.org/10.1016/S0008-6215(00)84172-5)

Ohlasy:

1. [1.1] DING, Huihuang H. - CUI, Steve W. - GOFF, H. Douglas - CHEN, Jie - WANG, Qi - HAN, Nam Fong. Arabinan-rich rhamnogalacturonan-I from flaxseed kernel cell wall. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 47, no., pp. 158-167., Registrované v: WOS
2. [1.2] HEMINGWAY, Richard W. Bark: Its chemistry and prospects for chemical utilization. In *Organic Chemicals from Biomass*, 2018-01-01, pp. 189-248., Registrované v: SCOPUS
3. [1.2] SONG, Woo Yong - HAN, Sim Hee - SHIN, Soo Jeong. Studies on chemical composition and calorimetric value of four populus enuramericana clones in reclaimed land for short rotation coppice production. In *Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry*. ISSN 02533200, 2016-12-01, 48, 6, pp. 137-143., Registrované v: SCOPUS
4. [1.2] TORRES, Ana I. - ASHRAF, Muhammad T. - CHATURVEDI, Tanmay - SCHMIDT, Jens Ejbye - STEPHANOPOULOS, George. Hydrothermal pretreatment: Process modeling and economic assessment within the framework of biorefinery processes. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of*

ADCA580 KARÁCSONYI, Š. - KOVÁČIK, Vladimír - ALFOLDI, Juraj - KUBAČKOVÁ, Marta. Chemical and C-13-NMR studies of an arabinogalactan from *Larix sibirica* L. In *Carbohydrate Research*, 1984, vol. 134, p. 265-274. ISSN 0008-6215.

Ohlasy:

1. [1.1] BABKIN, V. A. - NEVEROVA, N. A. - MEDVEDEVA, E. N. - FEDOROVA, T. E. - LEVCHUK, A. A. Investigation of physicochemical properties of arabinogalactan of different larch species. In *RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY*. ISSN 1068-1620, 2016, vol. 42, no. 7, pp. 707-711., Registrované v: WOS
2. [1.1] DOOST, Ali Sedaghat - NASRABADI, Maryam Nikbakht - KASSOZI, Vincent - DEWETTINCK, Koen - STEVENS, Christian V. - VAN DER MEEREN, Paul. Pickering stabilization of thymol through green emulsification using soluble fraction of almond gum Whey protein isolate nano-complexes. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2019, vol. 88, no., pp. 218-227., Registrované v: WOS
3. [1.1] FARHADI, Neda. Structural elucidation of a water-soluble polysaccharide isolated from Balangu shirazi (*Lallemantia royleana*) seeds. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 72, no., pp. 263-270., Registrované v: WOS
4. [1.1] GRISHCHENKO, Lyudmila A. - PARSHINA, Lidiya N. - LARINA, Lyudmila I. - BELOVEZHETS, Lyudmila A. - KLIMENKOV, Igor V. - USTINOV, Alexander Yu. - TROFIMOV, Boris A. Arabinogalactan propargyl ethers: Au-catalysed hydroamination by imidazols. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116638>., Registrované v: WOS
5. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana - ONDREJOVIC, Miroslav - CHMELOVA, Daniela. ISOLATION, COMPOSITION AND STRUCTURE OF POLYSACCHARIDES FROM *LARIX DECIDUA*. In *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*, 2016. ISSN 2336-6796, 2016, vol., no., pp. 142-147., Registrované v: WOS
6. [1.1] KAZACHENKO, Aleksandr S. - TOMILIN, Felix N. - POZDNYAKOVA, Anastasia A. - VASILYEVA, Natalia Yu - MALYAR, Yuriy N. - KUZNETSOVA, Svetlana A. - AVRAMOV, Pavel. Theoretical DFT interpretation of infrared spectra of biologically active arabinogalactan sulphated derivatives. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2020, vol. 74, no. 11, pp. 4103-4113. Dostupné na: <https://doi.org/10.1007/s11696-020-01220-3>., Registrované v: WOS
7. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS
8. [1.1] MAKAROVA, E. N. - SHAKHMATOV, E. G. - UDORATINA, E. V. - KUTCHIN, A. V. Structural and chemical characteristics of pectins, arabinogalactans, and arabinogalactan proteins from conifers. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2015, vol. 64, no. 6, pp.

1302-1318., Registrované v: WOS

9. [1.1] MUDARISOVA, R. Kh. - KOPTYAEVA, E. I. - BADYKOVA, L. A. Solid-phase modification of chitosan, pectin, and arabinogalactan with poorly soluble herbicide chlorsulfuron. In POLYMER SCIENCE SERIES B. ISSN 1560-0904, 2017, vol. 59, no. 5, pp. 570-576., Registrované v: WOS

10. [1.1] NEVEROVA, N. A. - MEDVEDEVA, E. N. - LEVCHUK, A. A. - BABKIN, V. A. The Research of Gmelin Larch (*Larix gmelinii* (Rupr.) Rupr.) Gum. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 912-915., Registrované v: WOS

11. [1.1] TANG, Shuo - JIANG, Meiyun - HUANG, Caoxing - LAI, Chenhuan - FAN, Yimin - YONG, Qiang. Characterization of arabinogalactans from *Larix principis-rupprechtii* and their effects on NO production by macrophages. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 200, no., pp. 408-415., Registrované v: WOS

12. [1.2] NEVEROVA, N. A. - MEDVEDEVA, E. N. - LEVCHUK, A. A. - BABKIN, V. A. The research of gmelin larch (*Larix Gmelinii* (Rupr.) Rupr.) Gum. In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2017-01-01, 2, pp. 137-141., Registrované v: SCOPUS

ADCA581 KARÁCSONYI, Š. - KUNIAK, Ľudovít. Polysaccharides of *Pleurotus ostreatus*: Isolation and structure of pleuran, an alkali-insoluble beta-D-glucan. In *Carbohydrate Polymers*, 1994, vol. 24, p. 107-111. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90019-1](https://doi.org/10.1016/0144-8617(94)90019-1)

Ohlasy:

1. [1.1] AMIRULLAH, Nur Amalina - ABIDIN, Nurhayati Zainal - ABDULLAH, Noorlidah. The potential applications of mushrooms against some facets of atherosclerosis: A review. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 105, no., pp. 517-536., Registrované v: WOS

2. [1.1] BAEVA, Ekaterina - BLEHA, Roman - LAVROVA, Ekaterina - SUSHYTSKYI, Leonid - COPIKOVA, Jana - JABLONSKY, Ivan - KLOUCEK, Pavel - SYNYTSYA, Andriy. Polysaccharides from Basidiocarps of Cultivating Mushroom *Pleurotus ostreatus*: Isolation and Structural Characterization. In MOLECULES, 2019, vol. 24, no. 15, pp., Registrované v: WOS

3. [1.1] ELKHATEEB, Waill A. - DABA, Ghoson M. - THOMAS, Paul W. - WEN, Ting-Chi. Medicinal mushrooms as a new source of natural therapeutic bioactive compounds. In EGYPTIAN PHARMACEUTICAL JOURNAL. ISSN 1687-4315, 2019, vol. 18, no. 2, pp. 88-101., Registrované v: WOS

4. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS, 2015, vol., no., pp. 61-103., Registrované v: WOS

5. [1.1] JAYACHANDRAN, Muthukumaran - CHEN, Jiali - CHUNG, Stephen Sum Man - XU, Baojun. A critical review on the impacts of beta-glucans on gut microbiota and human health. In JOURNAL OF NUTRITIONAL BIOCHEMISTRY. ISSN 0955-2863, 2018, vol. 61, no., pp. 101-110., Registrované v: WOS

6. [1.1] JESENÁK, Milos - URBANCEK, Slavomir - MAJTAN, Juraj - BANOVCIN, Peter - HERCOGOVA, Jana. beta-Glucan-based cream (containing

pleuran isolated from pleurotus ostreatus) in supportive treatment of mild-to-moderate atopic dermatitis. In JOURNAL OF DERMATOLOGICAL TREATMENT. ISSN 0954-6634, 2016, vol. 27, no. 4, pp. 351-354., Registrované v: WOS

7. [1.1] LAVELLI, Vera - PROSERPIO, Cristina - GALLOTTI, Francesca - LAUREATI, Monica - PAGLIARINI, Ella. Circular reuse of bio-resources: the role of Pleurotus spp. in the development of functional foods. In FOOD & FUNCTION. ISSN 2042-6496, 2018, vol. 9, no. 3, pp. 1353-1372., Registrované v: WOS

8. [1.1] PEREZ-MARTINEZ, Ana S. - ACEVEDO-PADILLA, Sergio A. - BIBBINS-MARTINEZ, Martha - GALVAN-ALONSO, Jenifer - ROSALES-MENDOZA, Sergio. A perspective on the use of Pleurotus for the development of convenient fungi-made oral subunit vaccines. In VACCINE. ISSN 0264-410X, 2015, vol. 33, no. 1, pp. 25-33., Registrované v: WOS

9. [1.1] PISKA, Kamil - SULKOWSKA-ZIAJA, Katarzyna - MUSZYNSKA, Bozena. EDIBLE MUSHROOM Pleurotus ostreatus (OYSTER MUSHROOM) ITS DIETARY SIGNIFICANCE AND BIOLOGICAL ACTIVITY. In ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS. ISSN 1644-0692, 2017, vol. 16, no. 1, pp. 151-161., Registrované v: WOS

10. [1.1] PROSERPIO, Cristina - PAGLIARINI, Ella - LAUREATI, Monica - FRIGERIO, Beatrice - LAVELLI, Vera. Acceptance of a New Food Enriched in beta-Glucans among Adolescents: Effects of Food Technology Neophobia and Healthy Food Habits. In FOODS, 2019, vol. 8, no. 10, pp., Registrované v: WOS

11. [1.1] PULFER, Wanda May. Mycotherapy for Animals: Medicinal Mushrooms: Healing Power, Effects and Application Foreword. In MYKOTHERAPIE FÜR TIERE: VITALPILZE: HEILKRAFT, WIRKUNG UND ANWENDUNG, 2., AUFLAGE, 2019, vol., no., pp. 6-+., Registrované v: WOS

12. [1.1] SAMUELSEN, Anne Berit C. - RISE, Frode - WILKINS, Alistair L. - TEVELEVA, Liubov - NYMAN, Anna Armika Tussilago - AACHMANN, Finn L. The edible mushroom Albatrellus ovinus contains a alpha-L-fuco-alpha-D-galactan, alpha-D-glucan, a branched (1> 6)-beta-D-glucan and a branched (1> 3)-beta-glucan. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 471, no., pp. 28-38., Registrované v: WOS

13. [1.1] SYNITSYA, Andriy - NOVAK, Miroslav. FUNGAL GLUCANS: A VARIETY OF STRUCTURES. In PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2015, vol., no., pp. 56-59., Registrované v: WOS

14. [1.1] SZWENGIEL, Artur - STACHOWIAK, Barbara. Deproteinization of water-soluble beta-glucan during acid extraction from fruiting bodies of Pleurotus ostreatus mushrooms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 310-319., Registrované v: WOS

15. [1.1] VLASENKO, Vyacheslav - VLASENKO, Anastasia. Antiviral activity of fungi of the Novosibirsk Region: Pleurotus ostreatus and P-pulmonarius (Review). In IV(VI)TH ALL-RUSSIA SCIENTIFIC-PRACTICAL CONFERENCE PROSPECTS OF

DEVELOPMENT AND CHALLENGES OF MODERN BOTANY. ISSN 2117-4458, 2018, vol. 11, no., pp., Registrované v: WOS

16. [1.1] WAHYUDI, Priyo - MANGUNWARDYO, Wibowo - SUMARYONO, Wahono - GANDJAR, Indrawati. Optimization of submerged culture for biomass and polysaccharide of *Pleurotus ostreatus* BPPTCC 6017 using response surface methodology. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2015, vol. 11, no. 1, pp. 27-39., Registrované v: WOS

17. [1.2] KHAN, Asma Ashraf - GANI, Adil - KHANDAY, Firdous A. - MASOODI, F. A. Biological and pharmaceutical activities of mushroom β -glucan discussed as a potential functional food ingredient. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2018-10-01, 16, pp. 1-13., Registrované v: SCOPUS

18. [1.2] PASNIK, Jaroslaw - ŚLEMP, Agnieszka - CYWINSKA-BERNAS, Agnieszka - ZEMAN, Krzysztof - JESENAK, Milos. Preventive effect of pleuran (β -glucan from *Pleurotus ostreatus*) in children with recurrent respiratory tract infections Open-label prospective study. In Current Pediatric Research. ISSN 09719032, 2017-01-01, 21, 1, pp. 99-104., Registrované v: SCOPUS

ADCA582 KARÁCSONYI, Š. - PÄTOPRSTÝ, Vladimír - KUBAČKOVÁ, M. Structural study on arabinogalactan-proteins from *Picea abies* L. Karst. In *Carbohydrate Research*, 1998, vol. 307, p. 271-279. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(98\)00052-4](https://doi.org/10.1016/S0008-6215(98)00052-4)

Ohlasy:

1. [1.1] KETHA, Kiranmayi - GUDIPATI, Muralikrishna. Purification, structural characterization of an arabinogalactan from green gram (*Vigna radiata*) and its role in macrophage activation. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 50, no., pp. 127-136., Registrované v: WOS

2. [1.1] KORINEK, R. - MIKULKA, J. - HRIB, J. - HUDEC, J. - HAVEL, L. - BARTUSEK, K. Characterization of the Embryogenic Tissue of the Norway Spruce Including a Transition Layer between the Tissue and the Culture Medium by Magnetic Resonance Imaging. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2017, vol. 17, no. 1, pp. 19-26., Registrované v: WOS

3. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Structural characteristics of oxalate-soluble polysaccharides of Sosnowsky's hogweed (*Heracleum sosnowskyi* Manden). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 66-77., Registrované v: WOS

4. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS

5. [1.1] MAKAROVA, E. N. - SHAKHMATOV, E. G. - UDORATINA, E. V. - KUTCHIN, A. V. Structural and chemical characteristics of pectins, arabinogalactans, and arabinogalactan proteins from conifers. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2015, vol. 64, no. 6, pp.

1302-1318., Registrované v: WOS

6. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (*Picea abies*). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS

7. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of *Picea abies*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS

ADCA583 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁLOVÁ, G. - FRAŇOVÁ, S. - HRÍBALOVÁ, V. A biologically active fructan from the roots of *Arctium lappa* L., var. *Herkules*. In *International Journal of Biological Macromolecules*, 2003, vol. 33., p. 135-140. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(03\)00079-5](https://doi.org/10.1016/S0141-8130(03)00079-5)

Ohlasy:

1. [1.1] FANK-DE-CARVALHO, Suzane Margaret - SOMAVILLA, Nadia Silvia - MARCHIORETTO, Maria Salete - BAO, Sonia Nair. Plant Structure in the Brazilian Neotropical Savannah Species. In BIODIVERSITY IN ECOSYSTEMS LINKING STRUCTURE AND FUNCTION, 2015, vol., no., pp. 407-442., Registrované v: WOS

2. [1.1] HERNANDEZ-ALMANZA, Ayerim - MUNIZ-MARQUEZ, Diana B. - DE LA ROSA, Orlando - NAVARRO, Victor - MARTINEZ-MEDINA, Gloria - RODRIGUEZ-HERRERA, Raul - AGUILAR, Cristobal N. Microbial Production of Bioactive Pigments, Oligosaccharides, and Peptides. In FOOD BIOSYNTHESIS, VOL 1, 2017, vol., no., pp. 95-134., Registrované v: WOS

3. [1.1] JIANG, Yuan-yuan - YU, Jun - LI, Ya-bo - WANG, Long - HU, Liang - ZHANG, Li - ZHOU, Yong-hong. Extraction and antioxidant activities of polysaccharides from roots of *Arctium lappa* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 123, no., pp. 531-538., Registrované v: WOS

4. [1.1] KUMAR, V. Prasanna - PRASHANTH, K. V. Harish - VENKATESH, Y. P. Structural analyses and immunomodulatory properties of fructo-oligosaccharides from onion (*Allium cepa*). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 115-122., Registrované v: WOS

5. [1.1] LANS, Cheryl. Do recent research studies validate the medicinal plants used in British Columbia, Canada for pet diseases and wild animals taken into temporary care? In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2019, vol. 236, no., pp. 366-392., Registrované v: WOS

6. [1.1] LI, Xinpeng - ZHAO, Zhilong - KUANG, Pengqun - SHI, Xiaowei - WANG, Zhen - GUO, Lanping. Regulation of lipid metabolism in diabetic rats by *Arctium lappa* L. polysaccharide through the PKC/NF-kappa B pathway. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 136, no., pp. 115-122., Registrované v: WOS

7. [1.1] MENG, Yan - XU, Yujie - CHANG, Cong - QIU, Zhenpeng - HU, Junjie - WU, Yong - ZHANG, Baohui - ZHENG, Guohua. Extraction,

- characterization and anti-inflammatory activities of an inulin-type fructan from *Codonopsis pilosula*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1677-1686. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.117>., Registrované v: WOS
8. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In *ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE*. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
9. [1.1] SHI, Lei. Bioactivities, isolation and purification methods of polysaccharides from natural products: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 92, no., pp. 37-48., Registrované v: WOS
10. [1.1] WANG, Dongdong - BADARAU, Alexandru Sabin - SWAMY, Mallappa Kumara - SHAW, Subrata - MAGGI, Filippo - DA SILVA, Luiz Everson - LOPEZ, Victor - YEUNG, Andy Wai Kan - MOCAN, Andrei - ATANASOV, Atanas G. *Arctium Species Secondary Metabolites Chemodiversity and Bioactivities*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
11. [1.1] WATANABE, Aya - SASAKI, Hiroyuki - MIYAKAWA, Hiroki - NAKAYAMA, Yuki - LYU, Yijin - SHIBATA, Shigenobu. Effect of Dose and Timing of Burdock (*Arctium lappa*) Root Intake on Intestinal Microbiota of Mice. In *MICROORGANISMS*, 2020, vol. 8, no. 2, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8020220>., Registrované v: WOS
12. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS
13. [1.1] ZEBARJADI, Alireza - KAZEM, Samaneh - KAHIRIZI, Danial. Cell dedifferentiation and multiplication of Burdock (*Arctium Lappa*) as a medicinal plant. In *CELLULAR AND MOLECULAR BIOLOGY*. ISSN 0145-5680, 2018, vol. 64, no. 7, pp. 92-96., Registrované v: WOS
14. [1.1] ZHANG, Xin - ZHANG, Nianfeng - KAN, Juan - SUN, Rui - TANG, Sixue - WANG, Zhihao - CHEN, Mengfei - LIU, Jun - JIN, Changhai. Anti-inflammatory activity of alkali-soluble polysaccharides from *Arctium lappa* L. and its effect on gut microbiota of mice with inflammation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 773-787. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.111>., Registrované v: WOS
15. [1.1] ZHANG, Xue - HU, Pei - ZHANG, Xiaorui - LI, Xiaojun. Chemical structure elucidation of an inulin-type fructan isolated from *Lobelia chinensis* Lour with anti-obesity activity on diet-induced mice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116357>., Registrované v: WOS
16. [1.2] PETKOVA, Nadezhda - IVANOVA, Lili - FILOVA, Gerasima - IVANOV, Ivan - DENEV, Panteley. Antioxidants and carbohydrate content in infusions and microwave extracts from eight medicinal plants. In *Journal of*

Applied Pharmaceutical Science, 2017-10-01, 7, 10, pp. 55-61., Registrované v: SCOPUS

17. [1.2] SONG, In Bong - NA, Ji Young - SONG, Kibbeum - KIM, Sokho - LEE, Ji Hyun - KWON, Young Bae - KIM, Dae Ki - KIM, Dae Sung - JO, Hyoung Kwon - KWON, Jungkee. Effects of extract mixture (Yg-1) of anti-inflammatory herbs on LPS-induced acute inflammation in macrophages and rats. In Journal of the Korean Society of Food Science and Nutrition. ISSN 12263311, 2015-01-01, 44, 4, pp. 497-505., Registrované v: SCOPUS

ADCA584 KARDOŠOVÁ, Alžbeta - MACHOVÁ, Eva. Antioxidant activity of medicinal plant polysaccharides. In *Fitoterapia*, 2006, vol. 77, p. 367-373. (2005: 0.845 - IF, Q4 - JCR, 0.512 - SJR, Q2 - SJR). ISSN 0367-326X. Dostupné na: <https://doi.org/10.1016/j.fitote.2006.05.001>

Ohlasy:

1. [1.1] AFTAB, Arusa - KHAN, Zaheer-ud-Din - YOUSAF, Zubaida - KHALID, Sana. Ethnopharmacological Investigation of Rhynchosia pseudo-cajan: A Perennial Shrub for Various Activities. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2016, vol. 18, no. 6, pp. 1098-1102., Registrované v: WOS

2. [1.1] AMERI, Ahmad - HEYDARIRAD, Ghazaleh - JAFARI, Jamileh Mahdavi - GHOBADI, Ali - REZAEIZADEH, Hossein - CHOOPANI, Rasool. Medicinal plants contain mucilage used in traditional Persian medicine (TPM). In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2015, vol. 53, no. 4, pp. 615-623., Registrované v: WOS

3. [1.1] BARUAH, Adrisyanti - BORDOLOI, Manobjyoti - BARUAH, Hari Prasanna Deka. Aloe vera: A multipurpose industrial crop. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 94, no., pp. 951-963., Registrované v: WOS

4. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS

5. [1.1] FRANCO, Rodrigo Rodrigues - CARVALHO, Dambia da Silva - ROSA DE MOURA, Francielle Borges - JUSTINO, Allisson Benatti - GUERRA SILVA, Heitor Cappato - PEIXOTO, Leonardo Gomes - ESPINDOLA, Foued Salmen. Antioxidant and anti-glycation capacities of some medicinal plants and their potential inhibitory against digestive enzymes related to type 2 diabetes mellitus. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 215, no., pp. 140-146., Registrované v: WOS

6. [1.1] GUPTA, Mehak - KAUL, Sanjana - DHAR, Manoj K. Identification and characterization of some putative genes involved in arabinoxylan biosynthesis in Plantago ovata. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 6, pp., Registrované v: WOS

7. [1.1] HAGHGOO, Roza - MEHRAN, Majid - AFSHARI, Elahe - ZADEH, Hamide Farajian - AHMADVAND, Motahare. Antibacterial effects of different concentrations of Althaea officinalis root extract versus 0.2% chlorhexidine and penicillin on Streptococcus mutans and Lactobacillus (in vitro). In JOURNAL OF INTERNATIONAL SOCIETY OF PREVENTIVE AND COMMUNITY DENTISTRY. ISSN 2231-0762, 2017, vol. 7, no. 4, pp.

180-185., Registrované v: WOS

8. [1.1] HEYDARIRAD, Ghazaleh - REZAEIZADEH, Hossein - CHOOPANI, Rasool - MOSAVAT, Seyed Hamdollah - AMERI, Ahmad. Efficacy of a traditional Persian medicine preparation for radiation-induced xerostomia: a randomized, open-label, active-controlled trial. In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, 2017, vol. 15, no. 3, pp. 201-208., Registrované v: WOS

9. [1.1] CHI, Aiping - LI, Hong - KANG, Chenzhe - GUO, Huanhuan - WANG, Yimin - GUO, Fei - TANG, Liang. Anti-fatigue activity of a novel polysaccharide conjugates from Ziyang green tea. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 80, no., pp. 566-572., Registrované v: WOS

10. [1.1] CHON, Sang-Uk - YUN, Kyeong Won. Antioxidant Characteristics of Korean Edible Wild Plants. In PLANTS AS A SOURCE OF NATURAL ANTIOXIDANTS, 2015, vol., no., pp. 110-128., Registrované v: WOS

11. [1.1] CHU, Qiang - ZHANG, Shuang - YU, Lushuang - LI, Yonglu - LIU, Yangyang - YE, Xiang - ZHENG, Xiaodong. Apios americana Medikus tuber polysaccharide exerts anti-inflammatory effects by activating autophagy. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 130, no., pp. 892-902., Registrované v: WOS

12. [1.1] JIAO, Yingchun - KUANG, Hui - HU, Jingjin - CHEN, Qihe. Structural characterization and anti-hypoxia activities of polysaccharides from the sporocarp, fermentation broth and cultured mycelium of Agaricus bitorquis (Quel.) Sacc. Chaidam in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 51, no., pp. 75-85., Registrované v: WOS

13. [1.1] KASIPANDI, Muniyandi - VRINDARANI, A. S. - SREEJA, Puthanpura Sasidharan - THAMBURAJ, Suman - SAIKUMAR, Sathyanarayanan - DHIVYA, Sivaraj - PARIMELAZHAGAN, Thangaraj. Effect of in vitro simulated digestion on sugar content and biological activities of Zehneria maysorensis (Wight & Arn.) Arn. leaf polysaccharides. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2019, vol. 13, no. 3, pp. 1765-1772., Registrované v: WOS

14. [1.1] KORBKANDI, Hassan - ASGHARI, Gholamreza - CHITSAZI, Mohammad Reza - NAJAFI, Rahim Bahri - BADII, Akbar - IRAVANI, Siavash. Green biosynthesis of silver nanoparticles using Althaea officinalis radix hydroalcoholic extract. In ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY. ISSN 2169-1401, 2016, vol. 44, no. 1, pp. 209-215., Registrované v: WOS

15. [1.1] LEI, Ni - CHEN, He - FENG, Jinghui. OPTIMIZATION OF EXTRACTION OF POLYSACCHARIDES FROM WHITE HYACINTH BEAN USING PLACKETT-BURMAN AND STEEPEST ASCENT EXPERIMENT. In CARPATHIAN JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 2066-6845, 2016, vol. 8, no. 4, pp. 73-82., Registrované v: WOS

16. [1.1] LEI, Ni - SHU, Guowei - CAO, Jili - WAN, Hongchang - FENG, Jinghui. EXTRACTION AND ANTIOXIDANT ACTIVITIES ASSAY OF POLYSACCHARIDES FROM WHITE HYACINTH BEAN AND PROMOTING GROWTH TO PROBIOTICS. In ANNALS OF THE UNIVERSITY DUNAREA DE JOS OF GALATI, FASCICLE VI-FOOD TECHNOLOGY. ISSN 1843-5157, 2016, vol. 40, no. 2, pp. 51-62., Registrované

v: WOS

17. [1.1] LIANG, Xiaoxia - GAO, Yingying - FEI, Wenbo - ZOU, Yuanfeng - HE, Min - YIN, Lizi - YUAN, Zhixiang - YIN, Zhongqiong - ZHANG, Wei. Chemical characterization and antioxidant activities of polysaccharides isolated from the stems of *Parthenocissus tricuspidata*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 70-78., Registrované v: WOS
18. [1.1] LIU, Di - SUN, Qianwen - XU, Jing - LI, Na - LIN, Jianan - CHEN, Shan - LI, Fan. Purification, characterization, and bioactivities of a polysaccharide from mycelial fermentation of *Bjerkandera fumosa*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 115-122., Registrované v: WOS
19. [1.1] LI, Peiqin - ZHOU, Ligang - MOU, Yan - MAO, Ziling. Extraction optimization of polysaccharide from *Zanthoxylum bungeanum* using RSM and its antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 19-27., Registrované v: WOS
20. [1.1] LUKOVA, P. K. - KARCHEVA-BAHCHEVANSKA, D. P. - NIKOLOVA, M. M. - ILIEV, Ilia N. - MLADENOV, R. D. Comparison of structure and antioxidant activity of polysaccharides extracted from the leaves of *Plantago major* L., *P. media* L. and *P. lanceolata* L. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2017, vol. 49, no., pp. 282-288., Registrované v: WOS
21. [1.1] MENG, Li - GAO, Hui - CHEN, Bin - LIU, Peng-peng - SHAN, Guo-shun - ZHANG, Fan - JIA, Tian-zhu. Simultaneous Determination of Five Chromones of *Radix Saposhnikovia* Extract in Rat Plasma by UPLC-MS/MS: Application to a Comparative Pharmacokinetic Study in Normal and Febrile Rats. In JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY. ISSN 2090-8865, 2019, vol. 2019, no., pp., Registrované v: WOS
22. [1.1] MOMBEINI, Tajmah - POURBADIE, Hamid Gholami - KAMALINEJAD, Mohammad - MAZLOUMI, Soroush - DEHPOUR, Ahmad Reza. Anxiolytic-Like and Sedative Effects of *Alcea Aucheri* (Boiss.) Alef. Flower Extract in the Laboratory Rat. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2017, vol. 16, no. 4, pp. 1495-1508., Registrované v: WOS
23. [1.1] NAZ, Ruphi - ANIS, Mohammad - AREF, Ibrahim M. Management of cytokinin-auxin interactions for in vitro shoot proliferation of *Althaea officinalis* L.: a valuable medicinal plant. In RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI. ISSN 2037-4631, 2015, vol. 26, no. 3, pp. 323-334., Registrované v: WOS
24. [1.1] REZAEIPOUR, Nasser - JAFARI, Farhad - REZAEIZADEH, Hossein - NASSERI, Mohsen - KAMALINEJAD, Mohammad - GHOBADI, Ali - SHAMSIPOUR, Mansour - ZARGARAN, Arman - AMERI, Ahmad. Efficacy of a Persian Medicine Herbal Compound (*Alcea digitata* Alef and *Malva sylvestris* L.) on Prevention of Radiation Induced Acute Mucositis in Patients with Head and Neck Cancer: A Pilot Study. In INTERNATIONAL JOURNAL OF CANCER MANAGEMENT. ISSN 2538-4422, 2017, vol. 10, no. 9, pp., Registrované v: WOS
25. [1.1] SALEHI, Elnaz - EMAM-DJOMEH, Zahra - ASKARI, Gholamreza - FATHI, Morteza. *Opuntia ficus indica* fruit gum: Extraction,

- characterization, antioxidant activity and functional properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 565-572., Registrované v: WOS
26. [1.1] SHU, Guo-Wei - HE, Yun-Xia - LEI, Ni - CAO, Ji-Li - CHEN, He - CHEN, Li. Cellulase-Assisted Extraction of Polysaccharides from White Hyacinth Bean: Characterization of Antioxidant Activity and Promotion for Probiotics Proliferation. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 10, pp., Registrované v: WOS
27. [1.1] WANG, Junqiao - HU, Shuzhen - NIE, Shaoping - YU, Qiang - XIE, Mingyong. Reviews on Mechanisms of In Vitro Antioxidant Activity of Polysaccharides. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS
28. [1.1] XIE, Zhuohong - SINTARA, Marsha - CHANG, Tony - OU, Boxin. Functional beverage of Garcinia mangostana (mangosteen) enhances plasma antioxidant capacity in healthy adults. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2015, vol. 3, no. 1, pp. 32-38., Registrované v: WOS
29. [1.1] YUAN, Bo - YANG, Xu-qin - KOU, Meng - LU, Chang-yan - WANG, Yuan-yuan - PENG, Jun - CHEN, Ping - JIANG, Ji-hong. Selenylation of Polysaccharide from the Sweet Potato and Evaluation of Antioxidant, Antitumor, and Antidiabetic Activities. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 3, pp. 605-617., Registrované v: WOS
30. [1.1] ZHANG, Wuxia - LI, Peng - SONG, Dan - NIU, Hong - SHI, Songshan - WANG, Shunchun - DUAN, Jinyou. Structural characterization and biological activities of two alpha-glucans from Radix Paeoniae Alba. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2016, vol. 33, no. 2, pp. 147-157., Registrované v: WOS
31. [1.1] ZHANG, Wuxia - SONG, Dan - XU, Dan - WANG, Tingting - CHEN, Lu - DUAN, Jinyou. Characterization of polysaccharides with antioxidant and immunological activities from Rhizoma Acori Tatarinowii. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 154-162., Registrované v: WOS
32. [1.1] ZHENG, Pimiao - FAN, Wentao - WANG, Shenghua - HAO, Pan - WANG, Yang - WAN, Huiyu - HAO, Zhihui - LIU, Jianzhu - ZHAO, Xiaona. Characterization of polysaccharides extracted from Platycodon grandiflorus (Jacq.) A.DC. affecting activation of chicken peritoneal macrophages. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 96, no., pp. 775-785., Registrované v: WOS
33. [1.1] ZHOU, Changming - YIN, Shaojie - YU, Zhongfang - FENG, Yuxiang - WEI, Kai - MA, Weiming - GE, Lijiang - YAN, Zhengui - ZHU, Ruiliang. Preliminary Characterization, Antioxidant and Hepatoprotective Activities of Polysaccharides from Taishan Pinus massoniana Pollen. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
34. [1.2] AMERI, Ahmad - HEYDARIRAD, Ghazaleh - REZAEIZADEH, Hossein - CHOOPANI, Rasool - GHOBADI, Ali - GACHKAR, Latif. Evaluation of Efficacy of an Herbal Compound on Dry Mouth in Patients With Head and Neck Cancers: A Randomized Clinical Trial. In Journal of Evidence-Based Complementary and Alternative Medicine. ISSN

- 21565872, 2016-01-01, 21, 1, pp. 30-33., Registrované v: SCOPUS
35. [1.2] ARAB, Atefeh - YAZDIAN-ROBATI, Rezvan - REZAEI-SERESHT, Hasan - EHTESHAM-GHARAEI, Melika - SOLTANI, Fatemeh. Evaluation of neuroprotective effect of *althaea officinalis* flower aqueous and methanolic extracts against Hinf2/infOinf2/inf-induced oxidative stress in PC12 cells. In Iranian Journal of Pharmaceutical Sciences. ISSN 17352444, 2017-12-01, 13, 1, pp. 49-56., Registrované v: SCOPUS
36. [1.2] HEYDARIRAD, Ghazaleh - CHOOPANI, Rasool. "Dry Mouth" From the Perspective of Traditional Persian Medicine and Comparison with Current Management. In Journal of Evidence-Based Complementary and Alternative Medicine. ISSN 21565872, 2015-01-01, 20, 2, pp. 137-142.
37. [1.2] LIU, Di - SUN, Qianwen - XU, Jing - LI, Na - LIN, Jianan - CHEN, Shan - LI, Fan. Purification, characterization, and bioactivities of a polysaccharide from mycelial fermentation of *Bjerkandera fumosa*. In Carbohydrate Polymers. ISSN 01448617, 2017-07-01, 167, pp. 115-122., Registrované v: SCOPUS
38. [1.2] MEYGHAN, Narges - MORADI, Pezhman. The effect of nitrogen and phosphorous fertilizers on morphophysiological properties of *Althaea officinalis*. In Iranian Journal of Plant Physiology. ISSN 22285512, 2018-06-01, 8, 4, pp. 2563-2571., Registrované v: SCOPUS
39. [1.2] TAO, Cui - MENG, Dehao - LI, Linzhu - YAN, Zixi - ZHANG, Xinying - HU, Jianzhong - LV, Zhaolin. Characterization of blueberry polysaccharides in different species at various growth stages. In International Agricultural Engineering Journal. ISSN 08582114, 2018-03-01, 27, 1, pp. 281-288., Registrované v: SCOPUS
40. [1.2] WANG, Lu Yi - ZHU, Hua Xu. Development and Application Status of Polysaccharide Resources and Analysis on Existing Problems. In Chinese Journal of Pharmaceutical Biotechnology. ISSN 10058915, 2018-02-01, 25, 1, pp. 90-94., Registrované v: SCOPUS

ADCA585 KARDOŠOVÁ, Alžbeta - MALOVÍKOVÁ, Anna - PÄTOPRSTÝ, Vladimír - NOSÁLOVÁ, G. - MATÁKOVÁ, T. Structural characterization and antitussive activity of a glucuronoxylan from *Mahonia aquifolium* (Pursh) Nutt. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2002, vol. 47, p. 27-33. (2001: 1.203 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00341-6](https://doi.org/10.1016/S0144-8617(00)00341-6)

Ohlasy:

1. [1.1] ARSHADI, Mehrdad - ATTARD, Thomas M. - LUKASIK, Rafal M. - BRNCIC, Mladen - LOPES, Andre M. da Costa - FINELL, Michael - GELADI, Paul - NOEMI GERSCHENSON, Lia - GOGUS, Fahrettin - HERRERO, Miguel - HUNT, Andrew J. - IBANEZ, Elena - KAMM, Birgit - MATEOS-APARICIO, Inmaculada - MATIAS, Ana - MAVROUDIS, Nikolaos E. - MONTONERI, Enzo - MORAIS, Ana Rita C. - NILSSON, Calle - PAPAIOANNOU, Emmanouil H. - RICHEL, Aurore - RUPEREZ, Pilar - SKRBIC, Biljana - SOLAROV, Marija Bodroza - SVARC-GAJIC, Jaroslava - WALDRON, Keith W. - YUSTE-CORDOBA, F. J. Pre-treatment and extraction techniques for recovery of added value compounds from wastes throughout the agri-food chain. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 23, pp. 6160-6204., Registrované v: WOS

2. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Rhoudha Ellouz - CHAABOUNI, Semia Ellouz. Biological properties of water-soluble polysaccharides and hemicelluloses from almond gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 667-674., Registrované v: WOS
3. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS
4. [1.1] GUAN, Ying - ZHANG, Bing - QI, Xian-Ming - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. Fractionation of bamboo hemicelluloses by graded saturated ammonium sulphate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 129, no., pp. 201-207., Registrované v: WOS
5. [1.1] CHEN, Jiachuan - DONG, Jiran - YANG, Guihua - HE, Ming - XU, Feng - FATEHI, Pedram. A process for purifying xylosugars of pre-hydrolysis liquor from kraft-based dissolving pulp production process. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
6. [1.1] KUMAR, Pradeep - KUMAR, Vineet. Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from Vitex negundo Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS
7. [1.1] LAKHERA, Ajeet Kumar - KUMAR, Vineet. Monosaccharide composition of acidic gum exudates from Indian Acacia tortilis ssp raddiana (Savi) Brenan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 45-50., Registrované v: WOS
8. [1.1] OCH, Anna - SZEWCZYK, Katarzyna - PECIO, Lukasz - STOCHMAL, Anna - ZALUSKI, Daniel - BOGUCKA-KOCKA, Anna. UPLC-MS/MS Profile of Alkaloids with Cytotoxic Properties of Selected Medicinal Plants of the Berberidaceae and Papaveraceae Families. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS
9. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
10. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of Dendrobium officinale and anti-angiogenesis activities of its sulfated derivative. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS
11. [1.2] GUPTA, Praveen Kumar - AGRAWAL, Pushpa - HEDGE, Prabha - AKHTAR, Mohd Sayeed. Xylooligosaccharides and their anticancer potential: An update. In Anticancer Plants: Natural Products and Biotechnological Implements, 2018-01-01, 2, pp. 255-271., Registrované v: SCOPUS

ADCA586 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁLOVÁ, G. - MATÁKOVÁ, T. - HŘÍBALOVÁ, V. Structural features and biological activity of an acidic polysaccharide complex from Mahonia aquifolium (Pursh) Nutt. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2004, vol. 57, p.165-176. (2003: 1.597 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2004.04.016>

Ohlasy:

1. [1.1] OCH, Anna - SZEWCZYK, Katarzyna - PECIO, Lukasz - STOCHMAL, Anna - ZALUSKI, Daniel - BOGUCKA-KOCKA, Anna. UPLC-MS/MS Profile of Alkaloids with Cytotoxic Properties of Selected Medicinal Plants of the Berberidaceae and Papaveraceae Families. In *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS
2. [1.1] SAWHNEY, Neha - CROOKS, Casey - CHOW, Virginia - PRESTON, James F. - ST JOHN, Franz J. Genomic and transcriptomic analysis of carbohydrate utilization by *Paenibacillus* sp JDR-2: systems for bioprocessing plant polysaccharides. In *BMC GENOMICS*. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
3. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of *Picea abies*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS
4. [1.1] SHAKHMATOV, Evgeny G. - TOUKACH, Philip - MAKAROVA, Elena N. Structural studies of the pectic polysaccharide from fruits of *Punica granatum*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115978>., Registrované v: WOS
5. [1.1] WU, Miao - PANG, Jin-Hui - SONG, Ping-Ping - ZHANG, Xue-Ming - PENG, Jian-Jun. Enhancing the Fractionation Efficiency of Hemicellulose from Agricultural Waste using Expansion Pretreatment. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8976-8992., Registrované v: WOS

ADCA587 KARDOŠOVÁ, Alžbeta - MATULOVÁ, Mária - MALOVÍKOVÁ, Anna. (4-O-methyl- α -D-glucurono)-D-xylan from *Rudbeckia fulgida*, var. *sullivantii* (Boynton et Beadle. In *Carbohydrate Research*, 1998, vol.308, p. 99-105. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(98\)00072-X](https://doi.org/10.1016/S0008-6215(98)00072-X)

Ohlasy:

1. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS
2. [1.1] GUAN, Ying - ZHANG, Bing - QI, Xian-Ming - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. Fractionation of bamboo hemicelluloses by

- graded saturated ammonium sulphate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 129, no., pp. 201-207., Registrované v: WOS
3. [1.1] KAUSHIK, Pratibha - DOWLING, Kim - ADHIKARI, Raju - BARROW, Colin J. - ADHIKARI, Benu. Effect of extraction temperature on composition, structure and functional properties of flaxseed gum. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 215, no., pp. 333-340., Registrované v: WOS
 4. [1.1] PEREIRA CHAVES, Pedro Felipe - HOCAYEN, Palloma de Almeida S. - DALLAZEN, Jorge Luiz - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - ANDREATINI, Roberto - CORDEIRO, Lucimara M. C. Chamomile tea: Source of a glucuronoxylan with antinociceptive, sedative and anxiolytic-like effects. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 1675-1682. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.039>., Registrované v: WOS
 5. [1.1] PEREIRA, Caroline S. - SILVEIRA, Rodrigo L. - DUPREE, Paul - SKAF, Munir S. Effects of Xylan Side-Chain Substitutions on Xylan-Cellulose Interactions and Implications for Thermal Pretreatment of Cellulosic Biomass. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 4, pp. 1311-1321., Registrované v: WOS
 6. [1.1] RHEE, Mun Su - WEI, Lusha - SAWHNEY, Neha - KIM, Young Sik - RICE, John D. - PRESTON, James F. Metabolic potential of *Bacillus subtilis* 168 for the direct conversion of xylans to fermentation products. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 3, pp. 1501-1510., Registrované v: WOS
 7. [1.1] SHAO, Hui - HU, Yu - SUN, Hui - YANG, Biao - FAN, Baomin - ZHANG, Huijuan. Response Surface Optimization of Alkali Extraction and Characterization of Poplar Hemicellulose. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 2, pp. 3844-3859., Registrované v: WOS
 8. [1.1] SHIVUDU, Godhulayyagari - CHANDRARAJ, Krishnan - SELVAM, Parasuraman. Production of xylooligosaccharides from xylan catalyzed by endo-1,4-beta-D-xylanase-immobilized nanoscale carbon, silica and zirconia matrices. In MOLECULAR CATALYSIS. ISSN 2468-8231, 2020, vol. 484, no., pp. Dostupné na: <https://doi.org/10.1016/j.mcat.2019.110745>., Registrované v: WOS
 9. [1.1] VERMA, Anil Kumar - GOYAL, Arun. A novel member of family 30 glycoside hydrolase subfamily 8 glucuronoxylan endo-beta-1,4-xylanase (CtXynGH30) from *Clostridium thermocellum* orchestrates catalysis on arabinose decorated xylans. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 129, no., pp. 6-14., Registrované v: WOS
 10. [1.1] WEI, Lusha - RHEE, Mun Su - PRESTON, James F. - CHEN, Hui. Production of acidic xylooligosaccharides from methylglucuronarabinoxylans by *Bacillus subtilis* strain MR44. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2016, vol. 91, no. 7, pp. 2056-2062., Registrované v: WOS
 11. [1.1] WEI, Lusha - YAN, Tongjing - WU, Yifei - CHEN, Hui - ZHANG, Baoshan. Optimization of alkaline extraction of hemicellulose from sweet sorghum bagasse and its direct application for the production of acidic xylooligosaccharides by *Bacillus subtilis* strain MR44. In PLOS ONE. ISSN

1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS

12. [1.2] Les, D. H. (2017). In *Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics* (CRC Press, pp. 1-1334), Registrované v: SCOPUS

13. [1.2] LI, Lijun - CHENG, Wenjia - MENG, Lingyan - WANG, Bo - XU, Feng - ZHANG, Xueming. Separation Efficiency of Hemicelluloses from Cotton Stalk Treated with Novel Complete Dissolution Systems. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2019-06-01, 38, 6, pp. 33-40., Registrované v: SCOPUS

ADCA588 KARELIN, Alexander A - TSVETKOV, Yury E - PAULOVÍČOVÁ, Lucia - BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - NIFANTIEV, Nikolay E. Synthesis of a heptasaccharide fragment of the mannan from *Candida guilliermondii* cell wall and its conjugate with BSA. Lucia Paulovičová, Slavomír Bystrický, Ema Paulovičová, Nikolay E Nifantiev. In *Carbohydrate Research*, 2009, vol.344, pp.29-35. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2008.09.016>

Ohlasy:

1. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In *CARBOHYDRATE CHEMISTRY*, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS

2. [1.1] MALLICK, Asadulla - MALLIKHARJUNARAO, Yakkala - RAJASEKARAN, Parasuraman - ROY, Rashmi - VANKAR, Yashwant D. Au-III-Halide/Phenylacetylene-Catalysed Glycosylations Using 1-O-Acetylfuranoses and Pyranose 1,2-Orthoesters as Glycosyl Donors. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2016, vol., no. 3, pp. 579-588., Registrované v: WOS

3. [1.1] MARTIN, Harlei - SOMERS, Tara - DWYER, Mathew - ROBSON, Ryan - PFEFFER, Frederick M. - BJORNSSON, Ragnar - KRAMER, Tobias - KAVANAGH, Kevin - VELASCO-TORRIJOS, Trinidad. Scaffold diversity for enhanced activity of glycosylated inhibitors of fungal adhesion. In *RSC MEDICINAL CHEMISTRY*, 2020, vol. 11, no. 12, pp. Dostupné na: <https://doi.org/10.1039/d0md00224k>., Registrované v: WOS

4. [1.1] PALMA, Angelina S. - CHAI, Wengang. Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology. In *SYNTHETIC GLYCOMES*. ISSN 2055-1975, 2019, vol. 11, no., pp. 421-446., Registrované v: WOS

5. [1.1] SCHUSTER, Heiko J. - VIJAYAKRISHNAN, Balakumar - DAVIS, Benjamin G. Chain-growth polyglycosylation: synthesis of linker-equipped mannosyl oligomers. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 403, no., pp. 135-141., Registrované v: WOS

ADCA589 KARELIN, Alexander A. - TSVETKOV, Yury E. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - NIFANTIEV, Nikolay E. A blockwise approach to the synthesis of (1→2)-linked oligosaccharides corresponding to fragments of the acid-stable β -mannan from the *Candida albicans* cell wall. In *European Journal of Organic Chemistry*, 2016, vol. 2016, p. 1173-1181. (2015: 3.068 - IF, Q2 - JCR,

1.225 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1434-193X. Dostupné na: <https://doi.org/10.1002/ejoc.201501464>

Ohlasy:

1. [1.1] ORLOV, N. V. Rational design of complex molecular structures starting from readily available precursors. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2016, vol. 65, no. 6, pp. 1418-1440., Registrované v: WOS
2. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS
3. [1.1] ZENG, Jing - LIU, Yan - CHEN, Wei - ZHAO, Xiang - MENG, Lingkui - WAN, Qian. Glycosyl Sulfoxides in Glycosylation Reactions. In TOPICS IN CURRENT CHEMISTRY. ISSN 2365-0869, 2018, vol. 376, no. 4, pp., Registrované v: WOS

ADCA590 KARELIN, A.A. - TSVETKOV, Yu. E. - KOGAN, Grigorij - BYSTRICKÝ, Slavomír - NIFANTIEV, N.E. Synthesis of oligosaccharide fragments of mannan from *Candida albicans* cell wall and their BSA conjugates. In *Russian Journal of Bioorganic Chemistry*, 2007, vol. 33, p. 110-1212. Dostupné na: <https://doi.org/10.1134/S106816200701013X>

Ohlasy:

1. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS
2. [1.1] SCHUSTER, Heiko J. - VIJAYAKRISHNAN, Balakumar - DAVIS, Benjamin G. Chain-growth polyglycosylation: synthesis of linker-equipped mannosyl oligomers. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 403, no., pp. 135-141., Registrované v: WOS

ADCA591 KARELIN, A.A. - TSVETKOV, Y.E. - PAULOVÍČOVÁ, Lucia - BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - NIFANTIEV, N.E. Synthesis of 3,6-branched oligomannoside fragments of the mannan from *Candida albicans* cell wall corresponding to the antigenic factor 4. In *Carbohydrate Research*, 2010, vol. 345, p. 1283-1290. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] KASHIWAGI, Gustavo A. Intrinsic Issues in the Assembly of 1,2-Linked Oligosaccharides. In ASIAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 2193-5807, 2020, vol. 9, no. 5, pp. 684-697. Dostupné na: <https://doi.org/10.1002/ajoc.202000107>., Registrované v: WOS
2. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS
3. [1.1] XOLIN, Amandine - NORSIKIAN, Stephanie - BOYER, Francois-Didier - BEAU, Jean-Marie. Iron(III)-Triflate-Catalyzed Multiple Glycosylations with Peracetylated beta-D-Glucosamine. In EUROPEAN

- ADCA592 POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír.
Enzymatic synthesis of tyrosol glycosides. In *Journal of Molecular Catalysis B - Enzymatic*, 2015, vol. 113, p. 23-28. (2014: 2.128 - IF, Q3 - JCR, 0.744 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1381-1177.
Dostupné na: <https://doi.org/10.1016/j.molcatb.2014.12.017>
- Ohlasy:
1. [1.1] BAI, Xiang-Li - DENG, Xiu-Ling - WU, Guang-Jie - LI, Wen-Jing - JIN, Si. Rhodiola and Salidroside in the Treatment of Metabolic Disorders. In *MINI-REVIEWS IN MEDICINAL CHEMISTRY*. ISSN 1389-5575, 2019, vol. 19, no. 19, pp. 1611-1626., Registrované v: WOS
 2. [1.1] FAN, Bo - CHEN, Tianyi - ZHANG, Sen - WU, Bin - HE, Bingfang. Mining of efficient microbial UDP-glycosyltransferases by motif evolution cross plant kingdom for application in biosynthesis of salidroside. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
 3. [1.1] GONZALEZ-ALFONSO, Jose L. - MIGUEZ, Noa - DANIEL PADILLA, J. - LEEMANS, Laura - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - SANDOVAL, Georgina - PLOU, Francisco J. Optimization of Regioselective alpha-Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
 4. [1.1] MANGAS-SANCHEZ, Juan - ADLERCREUTZ, Patrick. Enzymatic preparation of oligosaccharides by transglycosylation: A comparative study of glucosidases. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2015, vol. 122, no., pp. 51-55., Registrované v: WOS
 5. [1.1] MIGUEZ, Noa - RAMIREZ-ESCUADERO, Mercedes - GIMENO-PEREZ, Maria - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - FERNANDEZ-LOBATO, Maria - SANZ-APARICIO, Julia - PLOU, Francisco J. Fructosylation of Hydroxytyrosol by the beta-Fructofuranosidase from *Xanthophyllomyces dendrorhous*: Insights into the Molecular Basis of the Enzyme Specificity. In *CHEMCATCHER*. ISSN 1867-3880, 2018, vol. 10, no. 21, pp. 4892-4901., Registrované v: WOS
 6. [1.1] QI, Tingting - GU, Guofeng - XU, Li - XIAO, Min - LU, Lili. Efficient synthesis of tyrosol galactosides by the beta-galactosidase from *Enterobacter cloacae* B5. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 4995-5003., Registrované v: WOS
 7. [1.1] TIAN, Hao - MA, Jian-Ping - GUO, Tao - XIE, Guang-Yue - ZHANG, Ju-bao - WANG, Ya. Chemical Constituents of Bark of *Phellodendron chinense*. In *CHEMISTRY OF NATURAL COMPOUNDS*. ISSN 0009-3130, 2019, vol. 55, no. 3, pp. 563-564., Registrované v: WOS
 8. [1.1] WANG, Feng - HUANG, Dengfa - MA, Yong - ZHANG, Fuming - LINHARDT, Robert J. Preparation of salidroside with n-butylD-glucoside as the glycone donor via a two-step enzymatic synthesis catalyzed by immobilized glucosidase from bitter almonds. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2019, vol. 37, no. 4, pp.

246-260., Registrované v: WOS

9. [1.2] CUI, Ze Xu - XU, Wei - YANG, Xiu Wei - LI, Fu Jun - GONG, Yun - LIU, Ni Fu - ZHANG, Peng. Chemical constituents of lipophilic parts in water extract from stem of *Mahonia fortunei*. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-01-12, 49, 1, pp. 80-89., Registrované v: SCOPUS

ADCA593 KASÁK, Peter** - DANKO, Martin - ZAVAHIR, Sifani - MRLÍK, Miroslav - XIONG, Yuan - YOUSAF, Ammar Bin - LAI, Wing-Fu - KRUPA, Igor - TKÁČ, Ján - ROGACH, Andrey L.**. Identification of molecular fluorophore as a component of carbon dots able to induce gelation in a fluorescent multivalent-metal-ion-free alginate hydrogel. In *Scientific Reports*, 2019, vol. 9, art.no. 15080, [11] p. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-019-51512-2>

Ohlasy:

1. [1.1] LANGER, M. - PALONCYOVA, M. - MEDVED', M. - OTYPEPKA, M. Molecular Fluorophores Self-Organize into C-Dot Seeds and Incorporate into C-Dot Structures. In *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*. ISSN 1948-7185, OCT 1 2020, vol. 11, no. 19, p. 8252-8258.,

Registrované v: WOS

2. [1.1] SU, W.W. - WANG, R. - QIAN, C. - LI, X.T. - TONG, Q. - JIAO, T.F. Research Progress Review of Preparation and Applications of Fluorescent Hydrogels. In *JOURNAL OF CHEMISTRY*. ISSN 2090-9063, NOV 29 2020, vol. 2020., Registrované v: WOS

ADCA594 KASSAI, Zoltán - BAUEROVÁ, Katarína - KOPRDA, Vasil' - ŠANDULA, Jozef - HARANGOZÓ, Margita. Penetration of radionuclides across the skin: glucans as possible inhibitors of metals permeation. In *Journal of Radioanalytical and Nuclear Chemistry-Articles*, 2001, vol. 250, no. 1, p. 189-191. (2000: 0.488 - IF). ISSN 0236-5731. Dostupné na: <https://doi.org/10.1023/A:1013272005838>

Ohlasy:

1. [1.1] YUAN, H.J. - LAN, P. - HE, Y. - LI, C.L. - MA, X. Effect of the Modifications on the Physicochemical and Biological Properties of beta-Glucan-A Critical Review. In *MOLECULES*. eISSN 1420-3049, 2020, vol. 25, no. 1, art. no. 57., Registrované v: WOS

ADCA595 KATAPODIS, P. - VRŠANSKÁ, Mária - KEKOS, D. - NERINCKX, W. - BIELY, Peter - CLAEYSSSENS, M. - MACRIS, B.J. - CHRISTAKOPOULOS, P. Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of *Sporotrichum thermophile*. In *Carbohydrate Research*, 2003, vol. 338, p. 1881-1890. (2002: 1.631 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(03\)00291-X](https://doi.org/10.1016/S0008-6215(03)00291-X)

Ohlasy:

1. [1.1] DAHIYA, Seema - KUMAR, Anil - SINGH, Bijender. Enhanced endoxylanase production by *Myceliophthora thermophila* using rice straw and its synergism with phytase in improving nutrition. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 94, no., pp. 235-242. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.032>., Registrované v: WOS

2. [1.1] DAHIYA, Seema - SATYANARAYANA, T. - SINGH, Bijender. Thermophilic Fungal Diversity in Sustainable Development. In

MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS: VOL 1. MICROBIAL DIVERSITY IN NORMAL & EXTREME ENVIRONMENTS, 2019, vol., no., pp. 187-224., Registrované v: WOS

3. [1.1] DAHIYA, Seema - SINGH, Bijender. Enhanced endoxylanase production by *Myceliophthorathermophila* with applicability in saccharification of agricultural substrates. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 6, pp., Registrované v: WOS

4. [1.1] MONTANIER, Cedric Y. - FANUEL, Mathieu - ROGNIAUX, Helene - ROPARTZ, David - DI GUILLMI, Anne-Marie - BOUCHOUX, Antoine. Changing surface grafting density has an effect on the activity of immobilized xylanase towards natural polysaccharides. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

5. [1.1] RAI, Rohit - AGRAWAL, Dhruv - CHADHA, B. S. New Paradigm in Degradation of Lignocellulosic Biomass and Discovery of Novel Microbial Strains. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 403-440., Registrované v: WOS

6. [1.1] SADAF, Ayesha - MORYA, Vivek K. - KHARE, S. K. Applicability of *Sporotrichum thermophile* xylanase in the in situ saccharification of wheat straw pre-treated with ionic liquids. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 12, pp. 2090-2096., Registrované v: WOS

7. [1.1] SINGH, Bijender. *Myceliophthora thermophila* syn. *Sporotrichum thermophile*: a thermophilic mould of biotechnological potential. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 1, pp. 59-69., Registrované v: WOS

8. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. Industrial Enzymes: Xylanases. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 127-148., Registrované v: WOS

9. [1.1] YU, Xiaohong - ZHU, Xuemei - LIN, Xinwen - LI, Fengwei - GU, Zhenxin. Effects of Two-stage Controlled pH and Temperature vs. One-step Process for Hemicellulase Biosynthesis and Feruloyl Oligosaccharide Fermentation using *Aureobasidium pullulans*. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5113-5123., Registrované v: WOS

10. [1.2] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. Industrial Enzymes: Xylanases. In Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products, 2016-09-16, pp. 127-148., Registrované v: SCOPUS

ADCA596 KATRLÍK, Jaroslav - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana - TKÁČ, Ján - MASTIHUBA, Vladimír - VALACH, M. - ŠTEFUCA, V. - GEMEINER, Peter. A novel microbial biosensor based on cells of *Gluconobacter oxydans* for the selective determination of 1,3-propanediol in the presence of glycerol and its application to bioprocess monitoring. In *Analytical and Bioanalytical Chemistry*, 2007, vol. 338, p.287-295. (2006: 2.591 - IF, Q1 - JCR, 0.981 - SJR, Q2 - SJR). ISSN 1618-2642. Dostupné na: <https://doi.org/10.1007/s00216-007-1211-5>

Ohlasy:

1. [1.1] ALMENA, Alberto - BUENO, Laura - DIEZ, Marcos - MARTIN, Mariano. Integrated biodiesel facilities: review of glycerol-based production of fuels and chemicals. In CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY. ISSN 1618-954X, 2018, vol. 20, no. 7, pp. 1639-1661., Registrované v: WOS
2. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
3. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and Gluconobacter oxydans DSM 2343 Cells. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
4. [1.1] CEVIK, Emre - CERIT, Alaaddin - TOMBULOGLU, Huseyin - SABIT, Hussein - YILDIZ, Huseyin Bekir. Electrochemical Glucose Biosensors: Whole Cell Microbial and Enzymatic Determination Based on 10-(4H-Dithieno[3,2-b:2',3'-d]Pyrrol-4-yl)Decan-1-Amine Interfaced Glassy Carbon Electrodes. In ANALYTICAL LETTERS. ISSN 0003-2719, 2019, vol. 52, no. 7, pp. 1138-1152., Registrované v: WOS
5. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on Gluconobacter oxydans. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
6. [1.1] HEJNA, Aleksander - KOSMELA, Paulina - FORMELA, Krzysztof - PISZCZYK, Lukasz - HAPONIUK, Jozef T. Potential applications of crude glycerol in polymer technology Current state and perspectives. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2016, vol. 66, no., pp. 449-475., Registrované v: WOS
7. [1.1] HOPKINS, Jonathan - FIDANOVSKI, Kristina - LAUTO, Antonio - MAWAD, Damia. All-Organic Semiconductors for Electrochemical Biosensors: An Overview of Recent Progress in Material Design. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2019, vol. 7, no., pp., Registrované v: WOS
8. [1.1] CHO, Changhee - JANG, Yu-Sin - MOON, Hyeon Gi - LEE, Joungmin - LEE, Sang Yup. Metabolic engineering of clostridia for the production of chemicals. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2015, vol. 9, no. 2, pp. 211-225., Registrované v: WOS
9. [1.1] LEE, C. S. - AROUA, M. K. - DAUD, W. M. A. W. - COGNET, P. - PERES-LUCCHESI, Y. - FABRE, P-L - REYNES, O. - LATAPIE, L. A review: Conversion of bioglycerol into 1,3-propanediol via biological and chemical method. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2015, vol. 42, no., pp. 963-972., Registrované v: WOS

10. [1.1] MOTA, Maria J. - LOPES, Rita P. - SOUSA, Sergio - GOMES, Ana M. - LORENZO, Jose M. - BARBA, Francisco J. - DELGADILLO, Ivonne - SARAIVA, Jorge A. Utilization of glycerol during consecutive cycles of *Lactobacillus reuteri* fermentation under pressure: The impact on cell growth and fermentation profile. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 75, no., pp. 39-48., Registrované v: WOS
11. [1.1] MOTA, Maria J. - LOPES, Rita P. - SOUSA, Sergio - GOMES, Ana M. - DELGADILLO, Ivonne - SARAIVA, Jorge A. *Lactobacillus reuteri* growth and fermentation under high pressure towards the production of 1,3-propanediol. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2018, vol. 113, no., pp. 424-432., Registrované v: WOS
12. [1.1] Ostos-Ortíz, Olga Lucía; Rosas-Arango, Sonia Marcela; González-Devia, Johanna Lizeth. Biotechnological applications of microorganisms. In: Nova Volume: 17 Issue: 31 Pages: 129-163, Registrované v: WOS
13. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnO_x-MoO_x electrode decorated with Pt nanoparticles. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
14. [1.1] PLEKHANOVA, Yu. V. - RESHETILOV, A. N. Microbial Biosensors for the Determination of Pesticides. In *JOURNAL OF ANALYTICAL CHEMISTRY*. ISSN 1061-9348, 2019, vol. 74, no. 12, pp. 1159-1173., Registrované v: WOS
15. [1.1] PRZYSTALOWSKA, Hanna - LIPINSKI, Daniel - SLOMSKI, Ryszard. Biotechnological conversion of glycerol from biofuels to 1,3-propanediol using *Escherichia coli*. In *ACTA BIOCHIMICA POLONICA*. ISSN 0001-527X, 2015, vol. 62, no. 1, pp. 23-34., Registrované v: WOS
16. [1.1] RESHETILOV, A. N. - KITOVA, A. E. - KOLESOV, V. V. - YAROPOLOV, A. I. Mediator-Free Bioelectrocatalytic Oxidation of Ethanol on an Electrode from Thermally Expanded Graphite Modified by *Gluconobacter oxydans* Membrane Fractions. In *ELECTROANALYSIS*. ISSN 1040-0397, 2015, vol. 27, no. 6, pp. 1443-1448., Registrované v: WOS
17. [1.1] VITORINO, Luciana C. - BESSA, Layara A. Technological Microbiology: Development and Applications. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
18. [1.1] YILDIRIM, Nimet - DEMIRKOL, Dilek Odaci - TIMUR, Suna. Modified Gold Surfaces with Gold Nanoparticles and 6-(Ferrocenyl)hexanethiol: Design of a Mediated Microbial Sensor. In *ELECTROANALYSIS*. ISSN 1040-0397, 2015, vol. 27, no. 1, pp. 52-57., Registrované v: WOS

ADCA597 KATRLÍK, Jaroslav - MASTIHUBA, Vladimír - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana - ŠTEFUCA, V. - GEMEINER, Peter. Amperometric biosensors based on two different enzyme systems and their use for glycerol determination in samples from biotechnological fermentation process. In *Analytica Chimica Acta*, 2006, vol. 566, p. 11-18. (2005: 2.760 - IF, Q1 - JCR, 1.285 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2006.02.063>

Ohlasy:

1. [1.1] DOS SANTOS CASTRO ASSIS, Kelly Leite - ARCHANJO, Braulio S. - ACHETE, Carlos Alberto - D'ELIA, Eliane. A New Sensor Based on Reduced Graphene Oxide/Au Nanoparticles for Glycerol Detection. In MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS. ISSN 1516-1439, 2020, vol. 23, no. 2, pp. Dostupné na: <https://doi.org/10.1590/1980-5373-MR-2019-0513>., Registrované v: WOS
2. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on *Gluconobacter oxydans*. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
3. [1.1] JAVIER AREVALO, Fernando - OSUNA-SANCHEZ, Yolanda - SANDOVAL-CORTES, Jose - DI TOCCO, Aylen - MARCELO GRANERO, Adrian - NOEL ROBLEDO, Sebastian - ALICIA ZON, Maria - ROBERTO VETTORAZZI, Nelio - LUIS MARTINEZ, Jose - PATRICIA SEGURA, Elda - ILINA, Anna - FERNANDEZ, Hector. Development of an electrochemical sensor for the determination of glycerol based on glassy carbon electrodes modified with a copper oxide nanoparticles/multiwalled carbon nanotubes/pectin composite. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 244, no., pp. 949-957., Registrované v: WOS
4. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. Review of Biosensors in Industrial Process Control. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103., Registrované v: WOS
5. [1.1] MAHADEVAN, Aishwarya - FERNANDO, Sandun. An improved glycerol biosensor with an Au-FeS-NAD-glycerol-dehydrogenase anode. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 92, no., pp. 417-424., Registrované v: WOS
6. [1.1] TANAKA, Sohei - DOHI, Takumi - AIZAWA, Sen-ichi - KEMMEI, Tomoko - TERASHIMA, Hiroyuki - TAGA, Atsushi - YAMAMOTO, Atsushi - KODAMA, Shuji. Simultaneous determination of alcohols including diols and triols by HPLC with ultraviolet detection based on the formation of a copper(II) complex. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 21, pp. 4168-4175., Registrované v: WOS
7. [1.1] VARGAS, E. - RUIZ, M. A. - FERRERO, F. J. - CAMPUZANO, S. - RUIZ-VALDEPENAS MONTIEL, V. - REVIEJO, A. J. - PINGARRON, J. M. Automatic bionalyzer using an integrated amperometric biosensor for the determination of L-malic acid in wines. In TALANTA. ISSN 0039-9140, 2016, vol. 158, no., pp. 6-13., Registrované v: WOS
8. [1.1] VARGAS, E. - RUIZ, M. A. - CAMPUZANO, S. - GONZALEZ DE RIVERA, G. - LOPEZ-COLINO, F. - REVIEJO, A. J. - PINGARRON, J. M. Implementation of a new integrated D-lactic acid biosensor in a semiautomatic FIA system for the simultaneous determination of lactic acid enantiomers. Application to the analysis of beer samples. In TALANTA. ISSN 0039-9140, 2016, vol. 152, no., pp. 147-154., Registrované v: WOS

ADCA598 KATRLÍK, Jaroslav - ŠKRABANA, Rostislav - MISLOVIČOVÁ, Danica - GEMEINER, Peter. Binding of D-mannose-containing glycoproteins to D-mannose-specific lectins studied by surface plasmon resonance. In *Colloids and Surfaces A : Physicochem. Eng. Aspects*, 2011, vol. 382, p. 198-202. (2010: 2.130 - IF, Q3 - JCR, 0.887 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0927-7757. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2011.01.020>

Ohlasy:

1. [1.1] SHI, Xiujuan - ZHAN, Wenjun - CHEN, Gaojian - YU, Qian - LIU, Qi - DU, Hui - CAO, Limin - LIU, Xiaoli - YUAN, Lin - CHEN, Hong. Regulation of Protein Binding Capability of Surfaces via Host-Guest Interactions: Effects of Localized and Average Ligand Density. In *LANGMUIR*. ISSN 0743-7463, 2015, vol. 31, no. 22, pp. 6172-6178., Registrované v: WOS
2. [1.1] ZHENG, Haijiao - SONG, Naizhong - LI, Xiqian - JIA, Qiong. Anchoring beta-cyclodextrin modified lysine to polymer monolith with biotin: specific capture of plasminogen. In *ANALYST*. ISSN 0003-2654, 2017, vol. 142, no. 24, pp. 4773-4781., Registrované v: WOS
3. [1.2] YU, Kai - KIZHAKKEDATHU, Jayachandran N. Glycopolymers Presenting Sugars in Their Natural Form: Synthesis and Applications. In *Polymer and Biopolymer Brushes: For Materials Science and Biotechnology*, 2017-12-14, pp. 333-359., Registrované v: SCOPUS

ADCA599 KATRLÍK, Jaroslav - ŠVITEL, Juraj - GEMEINER, Peter - KOŽÁR, Tibor - TKÁČ, Ján. Glycan and lectin microarrays for glycomics and medicinal applications. In *Medicinal Research Reviews*, 2010, vol. 30, no. 2, p. 394-418. (2009: 8.656 - IF, 3.062 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0198-6325. Dostupné na: <https://doi.org/10.1002/med.20195>

Ohlasy:

1. [1.1] BRITO, Jessica de Santana - SALLES FERREIRA, Gustavo Ramos - KLIMCZAK, Emeline - GRYSHUK, Liliya - DE LIMA SANTOS, Nataly Diniz - DE SIQUEIRA PATRIOTA, Leydianne Leite - MOREIRA, Leyllane Rafael - ARAUJO SOARES, Ana Karine - BARBOZA, Bruno Rafael - GUEDES PAIVA, Patricia Maria - DO AMARAL FERRAZ NAVARRO, Daniela Maria - BARROS DE LORENA, Virginia Maria - LAGOS DE MELO, Cristiane Moutinho - CORIOLANO, Marilia Cavalcanti - NAPOLEAO, Thiago Henrique. Lectin from inflorescences of ornamental crop *Alpinia purpurata* acts on immune cells to promote Th1 and Th17 responses, nitric oxide release, and lymphocyte activation. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2017, vol. 94, no., pp. 865-872., Registrované v: WOS
2. [1.1] DANG, Liuyi - VAN DAMME, Els J. M. Toxic proteins in plants. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2015, vol. 117, no., pp. 51-64., Registrované v: WOS
3. [1.1] DAN, Xiuli - LIU, Wenlong - NG, Tzi Bun. Development and Applications of Lectins as Biological Tools in Biomedical Research. In *MEDICINAL RESEARCH REVIEWS*. ISSN 0198-6325, 2016, vol. 36, no. 2, pp. 221-247., Registrované v: WOS
4. [1.1] DE SIQUEIRA PATRIOTA, Leydianne Leite - PROCOPIO, Tamara Figueiredo - BRITO, Jessica de Santana - SEBAG, Virginie - SILVA

- DE OLIVEIRA, Ana Patricia - DE ARAUJO SOARES, Ana Karine - MOREIRA, Leyllane Rafael - LIMA, Thamarah de Albuquerque - SOARES, Tatiana - DA SILVA, Tulio Diego - GUEDES PAIVA, Patricia Maria - BARROS DE LORENA, Virginia Maria - LAGOS DE MELO, Cristiane Moutinho - DE ALBUQUERQUE, Lidiane Pereira - NAPOLEAO, Thiago Henrique. Microgramma vacciniifolia (Polypodiaceae) fronds contain a multifunctional lectin with immunomodulatory properties on human cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 36-46., Registrované v: WOS
5. [1.1] GYURJYAN, Qristine G. - MIKAELIAN, Mariam V. - POGHOSYAN, Gayane G. - HOVHANNISYAN, Varduhi A. - GASPARYAN, Vardan K. Detection of *Saccharomyces cerevisiae* by silver nanoparticles sensitized with various lectins. In ANALYTICAL METHODS. ISSN 1759-9660, 2020, vol. 12, no. 27, pp. 3508-3512. Dostupné na: <https://doi.org/10.1039/d0ay00614a>., Registrované v: WOS
6. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
7. [1.1] HIRABAYASHI, Jun - KUNO, Atsushi - TATENO, Hiroaki. Development and Applications of the Lectin Microarray. In SIALOGLYCO CHEMISTRY AND BIOLOGY II: TOOLS AND TECHNIQUES TO IDENTIFY AND CAPTURE SIALOGLYCANS. ISSN 0340-1022, 2015, vol. 367, no., pp. 105-124., Registrované v: WOS
8. [1.1] HUANG, Gangliang - MEI, Xinya - TANG, Qilin - CHEN, Xin. Immobilization and Detection Strategies for Multifunctional Glycochips. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2015, vol. 16, no. 5, pp. 495-498., Registrované v: WOS
9. [1.1] O'NEIL, Crystal L. - STINE, Keith J. - DEMCHENKO, Alexei V. Immobilization of glycans on solid surfaces for application in glycomics. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 225-249., Registrované v: WOS
10. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Label-free electrochemical analysis of biomacromolecules. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS
11. [1.1] PANZA, Matteo - PISTORIO, Salvatore G. - STINE, Keith J. - DEMCHENKO, Alexei V. Automated Chemical Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8105-8150., Registrované v: WOS
12. [1.1] PRASANNA, Vaddi K. - VENKATESH, Yeldur P. Characterization of onion lectin (*Allium cepa* agglutinin) as an immunomodulatory protein inducing Th1-type immune response in vitro. In INTERNATIONAL IMMUNOPHARMACOLOGY. ISSN 1567-5769, 2015, vol. 26, no. 2, pp. 304-313., Registrované v: WOS
13. [1.1] SILVA, M. Luisa S. Lectin biosensors in cancer glycan biomarker detection. In ADVANCES IN CLINICAL CHEMISTRY, VOL 93. ISSN 0065-2423, 2019, vol. 93, no., pp. 1-61., Registrované v: WOS
14. [1.1] SOGA, Keisuke - ABO, Hirohito - QIN, Sheng-Ying - KYOUTOU, Takuya - HIEMORI, Keiko - TATENO, Hiroaki - MATSUMOTO, Naoki - HIRABAYASHI, Jun - YAMAMOTO, Kazuo. Mammalian Cell Surface

Display as a Novel Method for Developing Engineered Lectins with Novel Characteristics. In BIOMOLECULES. ISSN 2218-273X, 2015, vol. 5, no. 3, pp. 1540-1562., Registrované v: WOS

15. [1.1] SYED, Parvez - GIDWANI, Kamlesh - KEKKI, Henna - LEIVO, Janne - PETTERSSON, Kim - LAMMINMAKI, Urpo. Role of lectin microarrays in cancer diagnosis. In PROTEOMICS. ISSN 1615-9853, 2016, vol. 16, no. 8, pp. 1257-1265., Registrované v: WOS

16. [1.1] WU, Albert M. - LIU, Jia Hau. Lectins and ELLSA as powerful tools for glycoconjugate recognition analyses. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2019, vol. 36, no. 2, pp. 175-183., Registrované v: WOS

17. [1.1] YANG, Yang - JIA, Tian-Wei - XU, Fei - LI, Wei - TAO, Shun - CHU, Li-Qiang - HE, Yun - LI, Yu - IYER, Sun S. - YU, Peng. Fluorescent Neomannosyl Bovine Serum Albumin as Efficient Probe for Mannose Receptor Imaging and MCF-7 Cancer Cell Targeting. In ACS APPLIED NANO MATERIALS. ISSN 2574-0970, 2018, vol. 1, no. 3, pp. 1058-1065., Registrované v: WOS

18. [1.1] ZENG, Qiyan - LIN, Faquan - ZENG, Linjie - DENG, Yong - LI, Lu. Purification and characterization of a novel immunomodulatory lectin from Artocarpus hypargyreus Hance. In INTERNATIONAL IMMUNOPHARMACOLOGY. ISSN 1567-5769, 2019, vol. 71, no., pp. 285-294., Registrované v: WOS

19. [1.2] GIACOMETTI, Jasminka. Plant lectins in cancer prevention and treatment. In Medicina Fluminensis. ISSN 18476864, 2015-01-01, 51, 2, pp. 211-229., Registrované v: SCOPUS

20. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In Coupling and Decoupling of Diverse Molecular Units in Glycosciences, 2017-11-20, pp. 225-267., Registrované v: SCOPUS

21. [1.2] PATRIOTA, Leydianne L.S. - BRITO, Jéssica S. - BARBOZA, Bruno R. - PAIVA, Patrícia M.G. - MELO, Cristiane M.L. - NAPOLEÃO, Thiago H. A review on the immunomodulatory effects of plant lectins. In Hemagglutinins: Structures, Functions and Mechanisms, 2019-07-10, pp. 53-82., Registrované v: SCOPUS

22. [1.2] WANG, Tinghua - SINGH, Yashpal - STINE, Keith J. - DEMCHENKO, Alexei V. Investigation of Glycosyl Nitrates as Building Blocks for Chemical Glycosylation. In European Journal of Organic Chemistry. ISSN 1434193X, 2018-12-19, 2018, 47, pp. 6699-6705., Registrované v: SCOPUS

ADCA600 KÉRY, Vladimír - HAPLOVÁ, Jana - TIHLÁRIK, Karol - SCHMIDT, Š. The factors influencing the activity and thermostability of immobilized porcine pancreatic lipase. In *Journal of Chemical Technology and Biotechnology*, 1990, vol. 48, p. 201-207. ISSN 0268-2575. Dostupné na: <https://doi.org/10.1002/jctb.280480209>

Ohlasy:

1. [1.1] SAIKIA, Tinku - MAHTO, Vikas. Experimental investigations of clathrate hydrate inhibition in water based drilling fluid using green inhibitor. In JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING. ISSN 0920-4105, 2016, vol. 147, no., pp. 647-653., Registrované v: WOS

2. [1.1] ZAITSEV, Sergei Yu - SAVINA, Anastasia A. - ZAITSEV, Ilia

S. Biochemical aspects of lipase immobilization at polysaccharides for biotechnology. In *ADVANCES IN COLLOID AND INTERFACE SCIENCE*. ISSN 0001-8686, 2019, vol. 272, no., pp., Registrované v: WOS
3. [1.2] GIORNO, Lidietta - MAZZEI, R. - PIACENTINI, Emma - DRIOLI, Enrico. Food applications of membrane bioreactors. In *Engineering Aspects of Membrane Separation and Application in Food Processing*, 2017-01-01, pp. 299-360., Registrované v: SCOPUS

ADCA601 KÉRY, V. - KOGAN, Grigorij - ZAJACOVÁ, K. - SLÁMOVÁ, K. - MASLER, Ladislav - ALFOLDI, Juraj. Hydrolysis of yeast cell-wall glucan by extracellular (1-3)- β -glucanases from *Aspergillus niger*. In *Enzyme and Microbial Technology*, 1991, vol. 13, p. 87-90. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/0141-0229\(91\)90194-F](https://doi.org/10.1016/0141-0229(91)90194-F)

Ohlasy:

1. [1.1] DUBROVSKAYA, Yu. V. - SHUBINA, L. K. - MAKARIEVA, T. N. - BAKUNINA, I. Yu. The Effect of Pentacyclic Guanidine Alkaloids from the Marine Sponge *Monanchora pulchra* Lambe, 1894 on the Activity of Natural beta-1,3-D-glucanase from the Marine Fungus *Chaetomium indicum* Corda, 1840 and the Marine Bivalve Mollusk *Spisula sachalinensis*, Schrenck, 1861. In *RUSSIAN JOURNAL OF MARINE BIOLOGY*. ISSN 1063-0740, 2018, vol. 44, no. 2, pp. 127-134., Registrované v: WOS

2. [1.1] KARUNASINGHE, Thamodini G. - MAHARACHCHIKUMBURA, S. S. N. - VELAZHAHAN, Rethinasamy - AL-SADI, Abdullah M. Antagonistic Activity of Endophytic and Rhizosphere Fungi Isolated From Sea Purslane (*Sesuvium portulacastrum*) Against *Pythium* Damping off of Cucumber. In *PLANT DISEASE*. ISSN 0191-2917, 2020, vol. 104, no. 8, pp. 2158-2167. Dostupné na:

<https://doi.org/10.1094/PDIS-01-20-0003-RE>., Registrované v: WOS

3. [1.1] YUAN, Hongjie - LAN, Ping - HE, Yan - LI, Chengliang - MA, Xia. Effect of the Modifications on the Physicochemical and Biological Properties of beta-Glucan-A Critical Review. In *MOLECULES*, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010057>., Registrované v: WOS

ADCA602 KÉRY, V. - KREPINSKY, J.F. - WARREN, Ch.D. - CAPEK, Peter - STAHL, P.D. Ligand Recognition by Purified Human Mannose Receptor. In *Archives of Biochemistry and Biophysics*, 1992, vol. 298, no. 1, p. 49-55. Dostupné na: [https://doi.org/10.1016/0003-9861\(92\)90092-B](https://doi.org/10.1016/0003-9861(92)90092-B)

Ohlasy:

1. [1.1] GLAFFIG, Markus - STERGIOU, Natascha - HARTMANN, Sebastian - SCHMITT, Edgar - KUNZ, Horst. A Synthetic MUC1 Anticancer Vaccine Containing Mannose Ligands for Targeting Macrophages and Dendritic Cells. In *CHEMMEDCHEM*. ISSN 1860-7179, 2018, vol. 13, no. 1, pp. 25-29., Registrované v: WOS

2. [1.1] HU, Jing - WEI, Peng - SEEBERGER, Peter H. - YIN, Jian. Mannose-Functionalized Nanoscaffolds for Targeted Delivery in Biomedical Applications. In *CHEMISTRY-AN ASIAN JOURNAL*. ISSN 1861-4728, 2018, vol. 13, no. 22, pp. 3448-3459., Registrované v: WOS

3. [1.1] JIANG, Peng - YUAN, Lei - HUANG, Guohui - WANG, Xiuli - LI, Xia - JIAO, Lili - ZHANG, Liping. Structural properties and

immunoenhancement of an exopolysaccharide produced by *Phellinus pini*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 566-571., Registrované v: WOS

4. [1.1] LUBOW, Jay - COLLINS, Kathleen L. Vpr Is a VIP: HIV Vpr and Infected Macrophages Promote Viral Pathogenesis. In VIRUSES-BASEL, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/v12080809>., Registrované v: WOS

5. [1.1] LUNDAHL, Mimmi L. E. - SCANLAN, Eoin M. - LAVELLE, Ed C. Therapeutic potential of carbohydrates as regulators of macrophage activation. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2017, vol. 146, no., pp. 23-41., Registrované v: WOS

6. [1.1] VAN DIE, Irma - CUMMINGS, Richard D. The Mannose Receptor in Regulation of Helminth-Mediated Host immunity. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2017, vol. 8, no., pp., Registrované v: WOS

7. [1.1] VERBIJ, Fabian C. - SORVILLO, Nicoletta - KAIJEN, Paul H. P. - HRDINOVA, Johana - PEYRON, Ivan - FIJNHEER, Rob - TEN BRINKE, Anja - MEIJER, Alexander B. - VAN ALPHEN, Floris P. J. - VAN DEN BERG, Timo K. - GRAVERSEN, Jonas J. H. - MOESTRUP, Soren K. - VOORBERG, Jan. The class I scavenger receptor CD163 promotes internalization of ADAMTS13 by macrophages. In BLOOD ADVANCES. ISSN 2473-9529, 2017, vol. 1, no. 5, pp. 293-305., Registrované v: WOS

8. [1.1] WONG, Chung S. - HOOGENDOORN, Sascha - VAN DER MAREL, Gijs A. - OVERKLEEF, Herman S. - CODEE, Jeroen D. C. Targeted Delivery of Fluorescent High-Mannose-Type Oligosaccharide Cathepsin Inhibitor Conjugates. In CHEMPLUSCHEM. ISSN 2192-6506, 2015, vol. 80, no. 6, pp. 928-937., Registrované v: WOS

ADCA603 KHALIKOVA, T.A. - ZHANAEVA, S.Ya - KOROLENKO, T.A. - KALEDIN, V.I. - KOGAN, Grigorij. Regulation of activity of cathepsins B. L., and D in murine lymphosarcoma model at a combined treatment with cyclophosphamide and yeast polysaccharide. In *Cancer Letters*, 2005, vol. 223, p. 77-83. ISSN 0304-3835. Dostupné na: <https://doi.org/10.1016/j.canlet.2004.10.028>

Ohlasy:

1. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Pdraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS

2. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS

3. [1.1] QIN, Longshan - JI, Wei - WANG, Jianlin - LI, Biao - HU, Junpeng - WU, Xin. Effects of dietary supplementation with yeast glycoprotein on growth performance, intestinal mucosal morphology, immune response and colonic microbiota in weaned piglets. In FOOD & FUNCTION. ISSN 2042-6496, 2019, vol. 10, no. 5, pp. 2359-2371., Registrované v: WOS

ADCA604 KHAN, R. - KONOWICZ, P.A. - GARDOSI, L. - MATULOVÁ, Mária - DEGENNARO, S. Regioselective deacetylation of fully acetylated mono- and disaccharides with hydrazine hydrate. In *Australian Journal of Chemistry*, 1996, vol. 49, p. 293-298 (. ISSN 0004-9425. Dostupné na: <https://doi.org/10.1071/CH9960293>

Ohlasy:

1. [1.1] DUNNE, Anthony - PALOMO, Jose M. Efficient and green approach for the complete deprotection of O-acetylated biomolecules. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 92, pp. 88974-88978., Registrované v: WOS
2. [1.1] LEIENDECKER, Mai-Thi - LICHT, Christopher J. - BORGHS, Jannik - MOONEY, David J. - ZIMMERMANN, Marc - BOEKER, Alexander. Physical Polyurethane Hydrogels via Charge Shielding through Acids or Salts. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2018, vol. 39, no. 7, pp., Registrované v: WOS
3. [1.1] PINZON MARTIN, Sandra Milena - FIERRO MEDINA, Ricardo - IREGUI CASTRO, Carlos Arturo - RIVERA MONROY, Zuly Jenny - GARCIA CASTANEDA, Javier Eduardo. Novel Synthesis of N-Glycosyl Amino Acids Using T3P (R): Propylphosphonic Acid Cyclic Anhydride as Coupling Reagent. In INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. ISSN 1573-3149, 2018, vol. 24, no. 2, pp. 291-298., Registrované v: WOS
4. [1.1] VERDELET, Tristan - BENMANDJOUB, Sara - BENMERAD, Belkacem - ALAMI, Mouad - MESSAOUDI, Samir. Copper-Catalyzed Anomeric O-Arylation of Carbohydrate Derivatives at Room Temperature. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2019, vol. 84, no. 14, pp. 9226-9238., Registrované v: WOS

ADCA605 KHARMA, Ammar - MIŠÁK, Anton - GRMAN, Marián - BREZOVÁ, Vlasta - KURAKOVÁ, Lucia - BARÁTH, Peter - JACOB, Claus - CHOVANEC, Miroslav - ONDRIAŠ, Karol - DOMÍNGUEZ-ÁLVAREZ, Enrique**. Release of reactive selenium species from phthalic selenoanhydride in the presence of hydrogen sulfide and glutathione with implications for cancer research. In *New Journal of Chemistry*, 2019, vol. 43, no. 29, p. 11771-11783. (2018: 3.069 - IF, Q2 - JCR, 0.716 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/c9nj02245g>

Ohlasy:

1. [1.1] NEWTON, Turner D. - PLUTH, Michael D. Development of a hydrolysis-based small-molecule hydrogen selenide (H₂Se) donor. In CHEMICAL SCIENCE. ISSN 2041-6520, 2019, vol. 10, no. 46, pp. 10723-10727., Registrované v: WOS

ADCA606 KIS, Peter - POTOCKÁ, Elena - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Efficient chemoenzymatic synthesis of 4-nitrophenyl β -D-apiofuranoside and its use in screening of β -D-apiofuranosidases. In *Carbohydrate Research*, 2016, vol. 430, p. 48-53. (2015: 1.817 - IF, Q2 - JCR, 0.588 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2016.04.030>

Ohlasy:

1. [1.1] AVCI, Utku - PENA, Maria J. - O'NEILL, Malcolm A. Changes in the abundance of cell wall apiogalacturonan and xylogalacturonan and conservation of rhamnogalacturonan II structure during the diversification of the Lemnoideae. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 953-971., Registrované v: WOS

ADCA607 KLAUDINY, Jaroslav - VON DER KAMMER, H. - SCHEIT, K.H.

Characterization by cDNA cloning of the mRNA of a highly basic human protein homologous to the yeast ribosomal protein YL41. In *Biochemical and biophysical research communications*, 1992, vol. 187, p. 462-490. ISSN 0006-291X. Dostupné na: [https://doi.org/10.1016/0006-291X\(92\)91282-U](https://doi.org/10.1016/0006-291X(92)91282-U)

Ohlasy:

1. [3.2] Group Author(s). Uniprot Consortium. P62945. IN UniProt Knowledgebase, 2016. Dostupné na internet: <http://www.uniprot.org/uniprot/P62945>, Registrované v: Data Citation Index

ADCA608 KLAUDINY, Jaroslav - HANES, J. - KULIFAJOVA, J. - ALBERT, Š. -

ŠIMUTH, Jozef. Molecular cloning of of two cDNAs from the head of the nurse honey bee (*Apis Mellifera* L.) for coding related prooteins of royal jelly. In *Journal of Apicultural Research*, 1994, vol. 33, p. 105-111. ISSN 0021-8839. Dostupné na: <https://doi.org/10.1080/00218839.1994.11100857>

Ohlasy:

1. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar. Improvement and Selection of Honeybees Assisted by Molecular Markers. In *BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH*, 2016, vol., no., pp. 63-75., Registrované v: WOS
2. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele - CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In *ONCOLOGY REPORTS*. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrované v: WOS
3. [1.1] KOHNO, Hiroki - SUENAMI, Shota - TAKEUCHI, Hideaki - SASAKI, Tetsuhiko - KUBO, Takeo. Production of Knockout Mutants by CRISPR/Cas9 in the European Honeybee, *Apis mellifera* L. In *ZOOLOGICAL SCIENCE*. ISSN 0289-0003, 2016, vol. 33, no. 5, pp. 505-512., Registrované v: WOS
4. [1.1] OSTROVSKI-TOMPOROSKI, Katia - FAQUINELLO, Patricia - COSTA-MAIA, Fabiana Martins - RUVOLO-TAKASUSUKI, Maria Claudia - SANTOS, Pedro da Rosa - DE TOLEDO, Vagner Arnaut. Breeding Program Design Principles for Royal Jelly. In *BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH*, 2016, vol., no., pp. 39-62., Registrované v: WOS
5. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

6. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
7. [3.2] Group Author(s). Uniprot Consortium. Q17061. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/Q17061>, Registrované v: Data Citation Index
8. [3.2] Group Author(s). Uniprot Consortium. Q17060. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: Data Citation Index

ADCA609 KLAUDINY, Jaroslav - HANES, Jozef - KULIFAJOVA, J. - ALBERT, S. - ŠIMÚTH, Jozef. Molecular-cloning of 2 cdnas from the head of the nurse honey-bee (*apis-mellifera* l) for coding related proteins of royal jelly. In *Journal of Apicultural Research*, 1994, vol. 33, p. 105-111. ISSN 0021-8839.

Ohlasy:

1. [1.1] GISMONDI, A. - TRIONFERA, E. - CANUTI, L. - DI MARCO, G. - CANINI, A. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In ONCOLOGY REPORTS. ISSN 1021-335X, SEP 2017, vol. 38, no. 3, p. 1833-1844., Registrované v: WOS
2. [1.1] KOHNO, H. - SUENAMI, S. - TAKEUCHI, H. - SASAKI, T. - KUBO, T. Production of Knockout Mutants by CRISPR/Cas9 in the European Honeybee, *Apis mellifera* L.. In ZOOLOGICAL SCIENCE. ISSN 0289-0003, OCT 2016, vol. 33, no. 5, p. 505-512., Registrované v: WOS
3. [1.1] OSTROVSKI-TOMPOROSKI, K. - FAQUINELLO, P. - COSTA-MAIA, F.M. - RUVOLO-TAKASUSUKI, M.C. - SANTOS, P.D. - DE TOLEDO, V.A. Breeding Program Design Principles for Royal Jelly. In BEEKEEPING AND BEE CONSERVATION - ADVANCES IN RESEARCH. 2016, p. 39-62., Registrované v: WOS
4. [1.1] RAMANATHAN, A.N.K.G. - NAIR, A.J. - SUGUNAN, V.S. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, MAY 2018, vol. 44, p. 255-264., Registrované v: WOS
5. [1.1] RUVOLO-TAKASUSUKI, M.C.C. - POZZA, A.P.B.C. - OLIVEIRA, A.P.N.Z. - PARPINELLI, R.S. - COSTA-MAIA, F.M. - FAQUINELLO, P. - DE TOLEDO, V.D.A. Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION - ADVANCES IN RESEARCH. 2016, p. 63-75., Registrované v: WOS
6. [1.1] SHEN, L.R. - WANG, Y.R. - ZHAI, L. - ZHOU, W.X. - TAN, L.L. - LI, M.L. - LIU, D.D. - XIAO, F. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, FEB 2015, vol. 16, no. 2, p. 155-166., Registrované v: WOS

ADCA610 KLAUDINY, Jaroslav - KULIFAJOVA, J. - CRAILSHEIM, K. - ŠIMÚTH, Jozef. New approach to the study of division of labour in the honeybee colony (*Apis*

mellifera L.). In *Apidologie*, 1994, vol. 25, p. 596-600. ISSN 0044-8435. Dostupné na: <https://doi.org/10.1051/apido:19940610>

Ohlasy:

1. [1.1] ALI, Hussain - ALQARNI, Abdulaziz S. - OWAYSS, Ayman A. - HASSAN, Awad M. - SMITH, Brian H. Osmotic concentration in three races of honey bee, *Apis mellifera* L. under environmental conditions of arid zone. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2017, vol. 24, no. 5, pp. 1081-1085., Registrované v: WOS
2. [1.1] DOBRITZSCH, Dirk - AUMER, Denise - FUSZARD, Matthew - ERLER, Silvio - BUTTSTEDT, Anja. The rise and fall of major royal jelly proteins during a honeybee (*Apis mellifera*) workers' life. In *ECOLOGY AND EVOLUTION*. ISSN 2045-7758, 2019, vol. 9, no. 15, pp. 8771-8782., Registrované v: WOS
3. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

ADCA611 KLAUDINY, Jaroslav - ALBERT, Š. - BACHANOVÁ, K. - KOPERNICKÝ, J. - ŠIMÚTH, Jozef. Two structurally different defensin genes, one of them encoding a novel defensin isoform, are expressed in honeybee *Apis mellifera*. In *Insect Biochemistry and Molecular Biology*, 2005, vol. 35, p. 11-22. (2005 - Current Contents). ISSN 0965-1748. Dostupné na: <https://doi.org/10.1016/j.ibmb.2004.09.007>

Ohlasy:

1. [1.1] ALBERONI, Daniele - GAGGIA, Francesca - BAFFONI, Loredana - DI GIOIA, Diana. Beneficial microorganisms for honey bees: problems and progresses. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 22, pp. 9469-9482., Registrované v: WOS
2. [1.1] ALFIYAN, Achmad - RAFFIUDIN, Rika - ASTUTI, Rika Indri. Characterization of Exon and Intron of Defensin 1 Gene in *Apis cerana* and *Apis dorsata*. In *MAKARA JOURNAL OF SCIENCE*. ISSN 2339-1995, 2019, vol. 23, no. 3, pp. 125-136. Dostupné na: <https://doi.org/10.7454/mss.v23i3.11260>., Registrované v: WOS
3. [1.1] ARAUJO, Natalia S. - SANTOS, Priscila Karla F. - ARIAS, Maria Cristina. RNA-Seq reveals that mitochondrial genes and long non-coding RNAs may play important roles in the bivoltine generations of the non-social Neotropical bee *Tetrapedia diversipes*. In *APIDOLOGIE*. ISSN 0044-8435, 2018, vol. 49, no. 1, pp. 3-12., Registrované v: WOS
4. [1.1] BADAoui, Bouabid - FOUGEROUX, Andre - PETIT, Fabien - ANSELMO, Anna - GORNI, Chiara - CUCURACHI, Marco - CERSINI, Antonella - GRANATO, Anna - CARDETI, Giusy - FORMATO, Giovanni - MUTINELLI, Franco - GIUFFRÀ, Elisabetta - WILLIAMS, John L. - BOTTI, Sara. RNA-sequence analysis of gene expression from honeybees (*Apis mellifera*) infected with *Nosema ceranae*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 3, pp., Registrované v: WOS
5. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikui - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In *ARHIV ZA HIGIJENU RADA I*

TOKSIKOLOGIJA-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267.,
Registrované v: WOS

6. [1.1] BUI THI THUY DUONG - NGUYEN THI KIM LIEN - HA THI THU - NGUYEN THI HOA - PHAM THI LANH - YUN, Bo-Ram - YOO, Mi-Sun - CHO, Yun Sang - DONG VAN QUYEN. Investigation of the gut microbiome of *Apis cerana* honeybees from Vietnam. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 11, pp. 2309-2317. Dostupné na: <https://doi.org/10.1007/s10529-020-02948-4>., Registrované v: WOS

7. [1.1] COLLISON, Elizabeth J. - HIRD, Heather - TYLER, Charles R. - CRESSWELL, James E. Effects of neonicotinoid exposure on molecular and physiological indicators of honey bee immunocompetence. In APIDOLOGIE. ISSN 0044-8435, 2018, vol. 49, no. 2, pp. 196-208., Registrované v: WOS

8. [1.1] DANIHLIK, Jiri - ARONSTEIN, Kate - PETRIVALSKY, Marek. Antimicrobial peptides: a key component of honey bee innate immunity Physiology, biochemistry, and chemical ecology. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2015, vol. 54, no. 2, pp. 123-136., Registrované v: WOS

9. [1.1] DANIHLIK, Jiri - SKRABISOVA, Maria - LENOBEL, Rene - SEBELA, Marek - OMAR, Eslam - PETRIVALSKY, Marek - CRAILSHEIM, Karl - BRODSCHNEIDER, Robert. Does the Pollen Diet Influence the Production and Expression of Antimicrobial Peptides in Individual Honey Bees? In INSECTS. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS

10. [1.1] EVISON, Sophie E. F. - FAZIO, Geraldine - CHAPPELL, Paula - FOLEY, Kirsten - JENSEN, Annette B. - HUGHES, William O. H. Innate expression of antimicrobial peptides does not explain genotypic diversity in resistance to fungal brood parasites in the honey bee. In APIDOLOGIE. ISSN 0044-8435, 2016, vol. 47, no. 2, pp. 206-215., Registrované v: WOS

11. [1.1] FRANZOI, Marco - STURLESE, Mattia - BELLANDA, Massimo - MAMMI, Stefano. A molecular dynamics strategy for CS peptides disulfide-assisted model refinement. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2017, vol. 35, no. 12, pp. 2736-2744., Registrované v: WOS

12. [1.1] GASHOUT, Hanan A. - GUZMAN-NOVOA, Ernesto - GOODWIN, Paul H. - CORREA-BENITEZ, Adriana. Impact of sublethal exposure to synthetic and natural acaricides on honey bee (*Apis mellifera*) memory and expression of genes related to memory. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2020, vol. 121, no., pp. Dostupné na: <https://doi.org/10.1016/j.jinsphys.2020.104014>., Registrované v: WOS

13. [1.1] MARTINOTTI, Simona - BUCEKOVA, Marcela - MAJTAN, Juraj - RANZATO, Elia. Honey: An Effective Regenerative Medicine Product in Wound Management. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 27, pp. 5230-5240., Registrované v: WOS

14. [1.1] POLYKRETIS, P. - DELFINO, G. - PETROCELLI, I. - CERVO, R. - TANTERI, G. - MONTORI, G. - PERITO, B. - BRANCA, J. J. V. - MORUCCI, G. - GULISANO, M. Evidence of immunocompetence reduction induced by cadmium exposure in honey bees (*Apis mellifera*). In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2016, vol. 218, no., pp. 826-834., Registrované v: WOS

15. [1.1] SINPOO, Chainarong - PAXTON, Robert J. -

DISAYATHANOOWAT, Terd - KRONGDANG, Sasiprapa - CHANTAWANNAKUL, Panuwan. Impact of *Nosema ceranae* and *Nosema apis* on individual worker bees of the two host species (*Apis cerana* and *Apis mellifera*) and regulation of host immune response. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2018, vol. 105, no., pp. 1-8., Registrované v: WOS

16. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS

17. [1.1] VALACHOVA, Ivana - BUCEKOVA, Marcela - MAJTAN, Juraj. Quantification of Bee-Derived Peptide Defensin-1 in Honey by Competitive Enzyme-Linked Immunosorbent Assay, a New Approach in Honey Quality Control. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2016, vol. 34, no. 3, pp. 233-243., Registrované v: WOS

18. [1.1] VANNETTE, Rachel L. - MOHAMED, Abbas - JOHNSON, Brian R. Forager bees (*Apis mellifera*) highly express immune and detoxification genes in tissues associated with nectar processing. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS

19. [1.2] KHAN, Shahid Ullah - ANJUM, Syed Ishtiaq - RAHMAN, Khaista - ANSARI, Mohammad Javed - KHAN, Wasim Ullah - KAMAL, Sajid - KHATTAK, Baharullah - MUHAMMAD, Ali - KHAN, Hikmat Ullah. Honey: Single food stuff comprises many drugs. In Saudi Journal of Biological Sciences. ISSN 1319562X, 2018-02-01, 25, 2, pp. 320-325., Registrované v: SCOPUS

20. [1.2] RAMÓN-SIERRA, Jesús Manuel - MAGAÑA-ORTIZ, Denis Israel - RUIZ-RUIZ, Jorge Carlos - ORTIZ-VÁZQUEZ, Elizabeth. Antimicrobial activity of protein extracted from *Melipona Beecheii* honey. In Stingless Bee's Honey from Yucatan: Culture, Traditional Uses and Nutraceutical Potential, 2016-01-01, pp. 135-146., Registrované v: SCOPUS

21. [3.2] Group Author(s). Uniprot Consortium. P17722. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/P17722>, Registrované v: Data Citation Index

22. [3.2] Group Author(s). Uniprot Consortium. Q5J8R1. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q5J8R1>, Registrované v: Data Citation Index

23. [3.2] Group Author(s). Uniprot Consortium. Q5MQL3. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q5MQL3>, Registrované v: Data Citation Index

24. [3.2] Group Author(s). Uniprot Consortium. P17722. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/P17722>, Registrované v: Data Citation Index

ADCA612 KLIKA, K.D. - VALTAMO, P. - JANOVEC, L. - SUCHÁR, G. - KRISTIAN, P. - IMRICH, J. - KIVELA, H. - ALFOLDI, Juraj - PIHLAJA, K. Regioselective syntheses, structural characterization, and electron ionization mass spectrometric behavior of regioisomeric 2,3- disubstituted 2-imino-1,3-thiazolidin-4-ones. In *Rapid Communications in Mass Spectrometry*, 2004, vol. 18, p. 87-95. ISSN 0951-4198. Dostupné na: <https://doi.org/10.1002/rcm.1290>

Ohlasy:

1. [1.1] HASSAN, Alaa A. - ALY, Ashraf A. - RAMADAN, Mohamed - MOHAMED, Nasr K. - TAWFEEK, Hendawy N. - BRAESE, Stefan - NIEGER, Martin. Stereoselective synthesis of 2-(2,4-dinitrophenyl)hydrazono- and (2-tosylhydrazono)-4-oxo-thiazolidine derivatives and screening of their anticancer activity. In *MONATSHEFTE FÜR CHEMIE*. ISSN 0026-9247, 2020, vol. 151, no. 9, pp. 1453-1466. Dostupné na: <https://doi.org/10.1007/s00706-020-02671-w>, Registrované v: WOS
2. [1.1] HASSAN, Alaa A. - MAKHLOUF, Maysa M. Thiazolidine-4-ones from Thiocarbohydrazides. In *JOURNAL OF HETEROCYCLIC CHEMISTRY*. ISSN 0022-152X, 2018, vol. 55, no. 11, pp. 2480-2506., Registrované v: WOS
3. [1.1] VAZDAR, Katarina - VAZDAR, Mario. A computational study of regioselectivity in beta-lactam iminothiazolidinone formation. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2015, vol. 56, no. 49, pp. 6908-6911., Registrované v: WOS

ADCA613 KLONOWSKA, I. - JANÁK, Marian - MAJKA, Jarosław - PETRÍK, Igor - FROITZHEIM, Nikolaus - GEE, David G. - SASINKOVÁ, Vlasta. Microdiamond on Åreskutan confirms regional UHP metamorphism in the Seve Nappe Complex of the Scandinavian Caledonides. In *Journal of Metamorphic Geology*, 2017, vol. 35, no. 5, p. 541-564. (2016: 3.594 - IF, Q1 - JCR, 2.419 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0263-4929. Dostupné na: <https://doi.org/10.1111/jmg.12244>

Ohlasy:

1. [1.1] BENDER, Hagen - GLODNY, Johannes - RING, Uwe. Absolute timing of Caledonian orogenic wedge assembly, Central Sweden, constrained by Rb-Sr multi-mineral isochron data. In *LITHOS*. ISSN 0024-4937, 2019, vol. 344, no., pp. 339-359., Registrované v: WOS
2. [1.1] BENDER, H. - RING, U. - ALMQVIST, B. S. G. - GRASEMANN, B. - STEPHENS, M. B. Metamorphic Zonation by Out-of-Sequence Thrusting at Back-Stepping Subduction Zones: Sequential Accretion of the Caledonian Internides, Central Sweden. In *TECTONICS*. ISSN 0278-7407, 2018, vol. 37, no. 10, pp. 3545-3576., Registrované v: WOS
3. [1.1] DRAKE, Henrik - ROBERTS, Nick M. W. - WHITEHOUSE, Martin J. Geochronology and Stable Isotope Analysis of Fracture-Fill and Karst Mineralization Reveal Sub-Surface Paleo-Fluid Flow and Microbial Activity of the COSC-1 Borehole, Scandinavian Caledonides. In *GEOSCIENCES*, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/geosciences10020056>, Registrované v: WOS
4. [1.1] FABER, Carly - STUNITZ, Holger - GASSER, Deta - JERABEK, Petr - KRAUS, Katrin - CORFU, Fernando - RAVNA, Erling K. - KONOPASEK, Jiri. Anticlockwise metamorphic pressure-temperature paths and nappe stacking in the Reisa Nappe Complex in the Scandinavian Caledonides, northern Norway: evidence for weakening of lower continental crust before and during continental collision. In *SOLID EARTH*. ISSN 1869-9510, 2019, vol. 10, no. 1, pp. 117-148., Registrované v: WOS
5. [1.1] FARYAD, S. W. - CUTHBERT, S. J. High-temperature overprint in (U)HPM rocks exhumed from subduction zones; A product of isothermal decompression or a consequence of slab break-off (slab rollback)? In

EARTH-SCIENCE REVIEWS. ISSN 0012-8252, 2020, vol. 202, no., pp.
Dostupné na: <https://doi.org/10.1016/j.earscirev.2020.103108>., Registrované v: WOS

6. [1.1] FERRERO, Silvio - ANGEL, Ross J. Micropetrology: Are Inclusions Grains of Truth? In JOURNAL OF PETROLOGY. ISSN 0022-3530, 2018, vol. 59, no. 9, pp. 1671-1700., Registrované v: WOS

7. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. Replacement reactions and deformation by dissolution and precipitation processes in amphibolites. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 9, pp. 1263-1286., Registrované v: WOS

8. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. - DARLING, James - ANDERSON, Mark W. Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides. In TECTONICS. ISSN 0278-7407, 2020, vol. 39, no. 9, pp.
Dostupné na: <https://doi.org/10.1029/2020TC006267>., Registrované v: WOS

9. [1.1] JAKOB, Johannes - ANDERSEN, Torgeir B. - KJOLL, Hans Jorgen. A review and reinterpretation of the architecture of the South and South-Central Scandinavian Caledonides-A magma-poor to magma-rich transition and the significance of the reactivation of rift inherited structures. In EARTH-SCIENCE REVIEWS. ISSN 0012-8252, 2019, vol. 192, no., pp. 513-528., Registrované v: WOS

10. [1.1] KAESTNER, Felix - PIERDOMINICI, Simona - ELGER, Judith - ZAPPONE, Alba - KUECK, Jochem - BERNDT, Christian. Correlation of core and downhole seismic velocities in high-pressure metamorphic rocks: a case study for the COSC-1 borehole, Sweden. In SOLID EARTH. ISSN 1869-9510, 2020, vol. 11, no. 2, pp. 607-626. Dostupné na: <https://doi.org/10.5194/se-11-607-2020>., Registrované v: WOS

11. [1.1] KELLER, Duncan S. - AGUE, Jay J. High-pressure granulite facies metamorphism (similar to 1.8 GPa) revealed in silica-undersaturated garnet-spinel-corundum gneiss, Central Maine Terrane, Connecticut, USA. In AMERICAN MINERALOGIST. ISSN 0003-004X, 2018, vol. 103, no. 11, pp. 1851-1868., Registrované v: WOS

12. [1.1] KEPPLER, Ruth - BEHRMANN, Jan H. - STIPP, Michael. Textures of eclogites and blueschists from Syros island, Greece: Inferences for elastic anisotropy of subducted oceanic crust. In JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH. ISSN 2169-9313, 2017, vol. 122, no. 7, pp. 5306-5324., Registrované v: WOS

13. [1.1] KORSAKOV, Andrey - REZVUKHINA, Olga - JASZCZAK, John A. - REZVUKHIN, Dmitriy - MIKHAILENKO, Denis S. Natural Graphite Cuboids. In MINERALS, 2019, vol. 9, no. 2, pp., Registrované v: WOS

14. [1.1] LIU, Penglei - MASSONNE, Hans-Joachim. An anticlockwise P-T-t path at high-pressure, high-temperature conditions for a migmatitic gneiss from the island of Fjortoft, Western Gneiss Region, Norway, indicates two burial events during the Caledonian orogeny. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2019, vol. 37, no. 4, pp. 567-588., Registrované v: WOS

15. [1.1] LI, Botao - MASSONNE, Hans-Joachim - ZHANG, Junfeng. Evolution of a gneiss in the Seve nappe complex of central Sweden Hints at an early Caledonian, medium-pressure metamorphism. In LITHOS. ISSN 0024-4937, 2020, vol. 376, no., pp. Dostupné na:

<https://doi.org/10.1016/j.lithos.2020.105746>., Registrované v: WOS

16. [1.1] MA, Chong - VANDERVOORT, Dane S. - STELTENPOHL, Mark G. - SCHWARTZ, Joshua J. FORMATION AND OROGEN-PARALLEL TRANSPORT OF THE DADEVILLE COMPLEX, ALABAMA, USA: IMPLICATIONS FOR THE TACONIAN OROGENY IN THE SOUTHERN APPALACHIANS. In AMERICAN JOURNAL OF SCIENCE. ISSN 0002-9599, 2019, vol. 319, no. 7, pp. 582-630., Registrované v: WOS
17. [1.1] MERZ, Lena - ALMQVIST, Bjarne S. G. - GRIMMER, Jens C. - KONTNY, Agnes. Magnetic fabric development in the Lower Seve thrust from the COSC-1 drilling, Swedish Caledonides. In TECTONOPHYSICS. ISSN 0040-1951, 2019, vol. 751, no., pp. 212-228., Registrované v: WOS
18. [1.1] PARISATTO, Matteo - TURINA, Alice - CRUCIANI, Giuseppppe - MANCINI, Lucia - PERUZZO, Luca - CESARE, Bernardo. Three-dimensional distribution of primary melt inclusions in garnets by X-ray microtomography. In AMERICAN MINERALOGIST. ISSN 0003-004X, 2018, vol. 103, no. 6, pp. 911-926., Registrované v: WOS
19. [1.1] SCHOENIG, Jan - VON EYNATTEN, Hilmar - MEINHOLD, Guido - LUENSDORF, N. Keno - WILLNER, Arne P. - SCHULZ, Bernhard. Deep subduction of felsic rocks hosting UHP lenses in the central Saxonian Erzgebirge: Implications for UHP terrane exhumation. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 87, no., pp. 320-329. Dostupné na: <https://doi.org/10.1016/j.gr.2020.06.020>., Registrované v: WOS
20. [1.1] SKELTON, Alasdair - MANSFELD, Joakim - AHLIN, Stellan - LUNDQVIST, Thomas - LINDE, Josefin - NILSSON, Jonas. A compilation of metamorphic pressure-temperature estimates from the Svecofennian province of eastern and central Sweden. In GFF. ISSN 1103-5897, 2018, vol. 140, no. 1, pp. 1-10., Registrované v: WOS
21. [1.1] SKUZOVATOV, Sergei - SHATSKY, Vladislav - WANG, Kuo-Lung. Continental subduction during arc-microcontinent collision in the southern Siberian craton: Constraints on protoliths and metamorphic evolution of the North Muya complex eclogites (Eastern Siberia). In LITHOS. ISSN 0024-4937, 2019, vol. 342, no., pp. 76-96., Registrované v: WOS

ADCA614 KLUG-SANTNER, B.G. - SCHNITZHOFFER, W. - VRŠANSKÁ, Mária - WEBER, J. - AGRAWAL, P.B. - NIERSTRASZ, V.A. - GUEBITZ, G.M. Purification and characterization of a new bioscouring pectate lyase from *Bacillus pumilus* BK2. In *Journal of Biotechnology*, 2006, vol. 121, p. 390-401. (2005: 2.687 - IF, Q2 - JCR, 1.193 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2005.07.019>

Ohlasy:

1. [1.1] AMIN, Faiza - BHATTI, Haq Nawaz - BILAL, Muhammad - ASGHER, Muhammad. Purification, Kinetic, and Thermodynamic Characteristics of an Exo-polygalacturonase from *Penicillium notatum* with Industrial Perspective. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 426-443., Registrované v: WOS
2. [1.1] DHILLON, Arun - RAJULAPATI, Vikky - GOYAL, Arun. Bio-scouring of cotton fabric and enzymatic degumming of jute fibres by a thermo-alkaline recombinant rhamnogalacturonan lyase, ctrglf from *Clostridium thermocellum*. In CANADIAN JOURNAL OF CHEMICAL ENGINEERING.

- ISSN 0008-4034, 2019, vol. 97, no. 5, pp. 1043-1047., Registrované v: WOS
3. [1.1] GARG, G. - SINGH, A. - KAUR, A. - SINGH, R. - KAUR, J. - MAHAJAN, R. Microbial pectinases: an ecofriendly tool of nature for industries. In 3 BIOTECH. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS
4. [1.1] GAUTHWAL, Menka - DAHIYA, Deepika - BATTAN, Bindu. Potential of a *Bacillus aerius* Pectinase in Fruit Juice Clarification Produced by Submerged Fermentation Using Agri-Residues. In INTERNATIONAL JOURNAL OF ADVANCED BIOTECHNOLOGY AND RESEARCH. ISSN 0976-2612, 2015, vol. 6, no. 3, pp. 394-400., Registrované v: WOS
5. [1.1] CHAKRABORTY, S. - RANI, A. - DHILLON, A. - GOYAL, A. Polysaccharide Lyases. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 527-539., Registrované v: WOS
6. [1.1] CHENG, Lifeng - DUAN, Shengwen - FENG, Xiangyuan - ZHENG, Ke - LIU, Zhengchu - PENG, Yuande. Two Novel Thermal Stable Pectate Lyases from *Dickeya dadantii* DCE-01: Cloning, Expression and Characterization. In NANOSCIENCE AND NANOTECHNOLOGY LETTERS. ISSN 1941-4900, 2017, vol. 9, no. 11, pp. 1767-1774., Registrované v: WOS
7. [1.1] CHENG, Lifeng - DUAN, Shengwen - ZHENG, Ke - FENG, Xiangyuan - YANG, Qi - LIU, Zhiyuan - LIU, Zhengchu - PENG, Yuande. An alkaline pectate lyase D from *Dickeya dadantii* DCE-01: clone, expression, characterization, and potential application in ramie bio-degumming. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 11, pp. 2075-2083., Registrované v: WOS
8. [1.1] KAVUTHODI, Bijesh - SEBASTIAN, Denoj. Review on bacterial production of alkaline pectinase with special emphasis on *Bacillus* species. In BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS. ISSN 0974-6455, 2018, vol. 11, no. 1, pp. 18-30., Registrované v: WOS
9. [1.1] KHAN, Md Maruf - CHOI, Yoon Seok - KIM, Young Kyun - YOO, Jin Cheol. Immobilization of an alkaline endopolygalacturonase purified from *Bacillus paralicheniformis* exhibits bioscouring of cotton fabrics. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2018, vol. 41, no. 10, pp. 1425-1436., Registrované v: WOS
10. [1.1] KOSHY, Mittu - DE, Salamun. Effect of *Bacillus tequilensis* SALBT crude extract with pectinase activity on demucilation of coffee beans and juice clarification. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2019, vol. 59, no. 12, pp. 1185-1194., Registrované v: WOS
11. [1.1] LIANG, Chaoning - GUI, Xiwu - ZHOU, Cheng - XUE, Yanfen - MA, Yanhe - TANG, Shuang-Yan. Improving the thermoactivity and thermostability of pectate lyase from *Bacillus pumilus* for ramie degumming. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 6, pp. 2673-2682., Registrované v: WOS
12. [1.1] LIU, Xiuyu - JIANG, Yan - XIE, Qiuxia - NIE, Shuangxi - SONG, Xueping. Effect of Alkali Pectinase Pretreatment on Bagasse Soda-Anthraquinone Pulp. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5045-5056., Registrované v: WOS
13. [1.1] MARYANI, Cocok Ana B. - FAHRURROZI - MERYANDINI, Anja. PECTINASE PRODUCTION AND CLARIFICATION TREATMENTS

- OF APPLE (*MALUS DOMESTICA*) JUICE. In *ANNALES BOGORIENSES-JOURNAL OF TROPICAL GENERAL BOTANY*. ISSN 0517-8452, 2017, vol. 21, no. 2, pp. 63-68., Registrované v: WOS
14. [1.1] MIHAELA, Dochia - SIMONA, Gavrilas - MONICA, Pustianu - DANIEL, Tomescu - MARIA, Copolovici Dana. COMPARATIVE STUDY REGARDING THE INFLUENCE OF THE COMPLEXING AGENTS EDTA AND SODIUM CITRATE ON THE 50% FLAX-50% COTTON FABRICS DURING THE BIOSCOURING TREATMENT. In *NANO, BIO AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM 2016, VOL III*. ISSN 1314-2704, 2016, vol., no., pp. 223-230., Registrované v: WOS
15. [1.1] RAN, GanQiao - TAN, Dan - DAI, WeiEr - ZHU, XinLiang - ZHAO, JiPing - MA, Qi - LU, XiaoYun. Immobilization of alkaline polygalacturonate lyase from *Bacillus subtilis* on the surface of bacterial polyhydroxyalkanoate nano-granules. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3247-3258., Registrované v: WOS
16. [1.1] SAOUDI, Boudjema - HABBECHÉ, Amina - KEROUAZ, Bilal - HABERRA, Soumaya - BEN ROMDHANE, Zamen - TICHATI, Lazhari - BOUDELA, Mokhtar - BELGHITH, Hafedh - GARGOURI, Ali - LADJAMA, Ali. Purification and characterization of a new thermoalkaliphilic pectate lyase from *Actinomadura keratinilytica* Cpt20. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2015, vol. 50, no. 12, pp. 2259-2266., Registrované v: WOS
17. [1.1] SHI, Aiqin - HU, Hang - ZHENG, Fei - LONG, Liangkun - DING, Shaojun. Biochemical characteristics of an alkaline pectate lyase PelA from *Volvariella volvacea* : roles of the highly conserved N-glycosylation site in its secretion and activity. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 8, pp. 3447-3458., Registrované v: WOS
18. [1.1] TANG, Yumeng - WU, Pan - JIANG, Sijing - SELVARAJ, Jonathan Nimal - YANG, Shihui - ZHANG, Guimin. A new cold-active and alkaline pectate lyase from Antarctic bacterium with high catalytic efficiency. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 13, pp. 5231-5241., Registrované v: WOS
19. [1.1] USMAN, M. - ADEEL, S. - HAIDER, W. - GHAFAR, A. - REHMAN, F. - ALI, M. Dyeing of Biotreated and Gamma Irradiated Cotton Fabric using Direct Yellow 12 and Direct Yellow 27. In *JOURNAL OF NATURAL FIBERS*. ISSN 1544-0478, 2016, vol. 13, no. 4, pp. 483-491., Registrované v: WOS
20. [1.1] VANKAR, Padma S. - SHUKLA, Dhara - WIJAYAPALA, Samudrika - SAMANTA, Asish Kumar. Innovative silk dyeing using enzyme and *Rubia cordifolia* extract at room temperature. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 4, pp. 296-302., Registrované v: WOS
21. [1.1] WANG, Chao - YU, Shiqiang - SONG, Ting - HE, Tingting - SHAO, Huanhuan - WANG, Haiyan. Extracellular Proteome Profiling of *Bacillus pumilus* SCU11 Producing Alkaline Protease for Dehairing. In *JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 1017-7825, 2016, vol. 26, no. 11, pp. 1993-2005., Registrované v: WOS
22. [1.1] WANG, Xiaowen - LU, Zhenghui - XU, Ting - SELVARAJ,

- Jonathan Nimal - YI, Li - ZHANG, Guimin. Improving the specific activity and thermo-stability of alkaline pectate lyase from *Bacillus subtilis* 168 for bioscouring. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 129, no., pp. 74-83., Registrované v: WOS
23. [1.1] YU, Ping - WANG, Xinxin - REN, Qian - HUANG, Xingxing - YAN, Tingting. Genome shuffling for improving the activity of alkaline pectinase in *Bacillus subtilis* FS105 and its molecular mechanism. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
24. [1.1] YU, Xiaoxiao - LIU, Yan - MENG, Jiatong - CHENG, Qiyue - ZHANG, Zaixiao - CUI, Yuxiao - LIU, Jiajing - TENG, Lirong - LU, Jiahui - MENG, Qingfan - REN, Xiaodong. Optimization of enzyme complexes for efficient hydrolysis of corn stover to produce glucose. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2015, vol. 28, no. 3, pp. 1115-1120., Registrované v: WOS
25. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Cloning, evaluation, and high-level expression of a thermo-alkaline pectate lyase from alkaliphilic *Bacillus clausii* with potential in ramie degumming. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 9, pp. 3663-3676., Registrované v: WOS
26. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Characterization and overproduction of a thermo-alkaline pectate lyase from alkaliphilic *Bacillus licheniformis* with potential in ramie degumming. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 54, no., pp. 49-58., Registrované v: WOS
27. [1.1] ZHOU, Cheng - YE, Jintong - XUE, Yanfen - MA, Yanhe. Directed Evolution and Structural Analysis of Alkaline Pectate Lyase from the Alkaliphilic Bacterium *Bacillus* sp Strain N16-5 To Improve Its Thermostability for Efficient Ramie Degumming. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 17, pp. 5714-5723., Registrované v: WOS
28. [1.1] ZHOU, Man - WU, Jingli - WANG, Tao - GAO, Lina - YIN, Huijun - LU, Xin. The purification and characterization of a novel alkali-stable pectate lyase produced by *Bacillus subtilis* PB1. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 10, pp., Registrované v: WOS
29. [1.1] ZHOU, Zhanping - LIU, Yang - CHANG, Zhenying - WANG, Huilin - LEIER, Andre - MARQUEZ-LAGO, Tatiana T. - MA, Yanhe - LI, Jian - SONG, Jiangning. Structure-based engineering of a pectate lyase with improved specific activity for ramie degumming. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 7, pp. 2919-2929., Registrované v: WOS
30. [1.2] GUNDALA, Prasada Babu - CHINTHALA, Paramageetham. Extremophilic pectinases. In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 155-180., Registrované v: SCOPUS
31. [1.2] CHAKRABORTY, S. - RANI, A. - DHILLON, A. - GOYAL, A. Polysaccharide Lyases. In *Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products*, 2016-09-16, pp. 527-539., Registrované v: SCOPUS

32. [1.2] JARAMILLO, Paula Marcela Duque - ANDREAUS, Jürgen - NETO, Geraldo Pereira De Souza - CASTRO, Carlos Frederico De Souza - FILHO, Edivaldo Ximenes Ferreira. The characterization of a pectin-degrading enzyme from *Aspergillus oryzae* grown on passion fruit peel as the carbon source and the evaluation of its potential for industrial applications. In *Biocatalysis and Biotransformation*. ISSN 10242422, 2015-11-02, 33, 5-6, pp. 310-322., Registrované v: SCOPUS
33. [1.2] KUMAR, G. Praveen - SUNEETHA, V. Characterization of pectin lyase and polygalacturonase from novel *Bacillus cereus* GS-2 isolated from Chittoor and Vellore fruit industrial dump sites by SEM, 16SrRNA sequencing, ion-exchange, SDS and HPLC analysis. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-03-01, 10, 1, pp. 741-749., Registrované v: SCOPUS
34. [1.2] LARAS, Galih Ayhusta - HANDAYANI, Mimin Nur - YAMANI, Laura Navika - PURWANI, Ni Nyoman - PURKAN - PUSPANINGSIH, Ni Nyoman Tri. Identification and characterization of thermophilic and pectinolytic bacteria isolated from gunung pancar hot spring bogor, Indonesia. In *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. ISSN 09723005, 2017-01-01, 19, 3, pp. 496-508., Registrované v: SCOPUS
35. [1.2] OKONJI, Raphael Emuebie - ITAKORODE, Babamotemi Oluwasola - OVUMEDIA, Julius Ovie - ADEDEJI, Odunayo Selimot. Purification and biochemical characterization of pectinase produced by *Aspergillus fumigatus* isolated from soil of decomposing plant materials. In *Journal of Applied Biology and Biotechnology*, 2019-05-01, 7, 3, pp. 1-8., Registrované v: SCOPUS
36. [1.2] POLIZELI, Mariade Lourdes Teixeira de Moraes - DE LIMA DAMÁSIO, André Ricardo - MALLER, Alexandre - CABRAL, Hamilton - POLIZELI, Aline Moraes - RAI, Mahendra. Pectinases produced by microorganisms: Properties and applications. In *Fungal Enzymes*, 2016-04-19, pp. 316-340., Registrované v: SCOPUS
37. [2.1] SAMANTA, Saptadip. MICROBIAL PECTINASES: A REVIEW ON MOLECULAR AND BIOTECHNOLOGICAL PERSPECTIVES. In *JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES*. ISSN 1338-5178, 2019, vol. 9, no. 2, pp. 248-266., Registrované v: WOS

ADCA615 KLUKOVÁ, Ludmila - BERTÓK, Tomáš - KASÁK, Peter - TKÁČ, Ján. Nanoscale-controlled architecture for the development of ultrasensitive lectin biosensors applicable in glycomics. In *Analytical Methods*, 2014, vol. 6, p. 4922-4931. (2013: 1.938 - IF, Q2 - JCR, 0.614 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c4ay00495g>

Ohlasy:

1. [1.1] ANIK, Ulku - TIMUR, Suna. Towards the electrochemical diagnosis of cancer: nanomaterial-based immunosensors and cytosensors. In *RSC Advances*. ISSN 2046-2069, 2016, vol. 6, no. 113, pp. 111831-111841., Registrované v: WOS
2. [1.1] ECHEVERRI, D. - GARG, M. - SILVA, D.V. - OROZCO, J. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and

- IgM antibodies in serum. In TALANTA. ISSN 0039-9140, SEP 2020, vol. 217., Registrované v: WOS
3. [1.1] GERLACH, Jared Q. - KILCOYNE, Michelle - JOSHI, Lokesh. APPLICATIONS OF NANOTECHNOLOGY IN ARRAY-BASED CARBOHYDRATE ANALYSIS AND PROFILING. In CARBOHYDRATE NANOTECHNOLOGY, 2016, vol., no., pp. 267-283., Registrované v: WOS
 4. [1.1] KONOPINSKA, Kamila - PIETRZAK, Mariusz - MAZUR, Radoslaw - MALINOWSKA, Elzbieta. Analytical characterization of IgG-cTpp and IgG-Mn-cTpp conjugates. In JOURNAL OF PORPHYRINS AND PHTHALOCYANINES. ISSN 1088-4246, 2015, vol. 19, no. 11, pp. 1177-1184., Registrované v: WOS
 5. [1.1] LAZAR, Jaroslav - PARK, Hyunji - ROSENCRANTZ, Ruben R. - BOEKER, Alexander - ELLING, Lothar - SCHNAKENBERG, Uwe. Evaluating the Thickness of Multivalent Glycopolymer Brushes for Lectin Binding. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2015, vol. 36, no. 16, pp. 1472-1478., Registrované v: WOS
 6. [1.1] MASIGOL, M. - FATTAHI, N. - BARUA, N. - LOKITZ, B.S. - RETTERER, S.T. - PLATT, T.G. - HANSEN, R.R. Identification of Critical Surface Parameters Driving Lectin-Mediated Capture of Bacteria from Solution. In BIOMACROMOLECULES. ISSN 1525-7797, JUL 2019, vol. 20, no. 7, p. 2852-2863., Registrované v: WOS
 7. [1.1] MOH, Edward S. X. - THAYSEN-ANDERSEN, Morten - PACKER, Nicolle H. Relative versus absolute quantitation in disease glycomics. In Proteomics Clinical Applications. ISSN 1862-8346, 2015, vol. 9, no. 3-4, pp. 368-382., Registrované v: WOS
 8. [1.1] MRAZKOVA, J. - MALINOVSKA, L. - WIMMEROVA, M. Microscopy examination of red blood and yeast cell agglutination induced by bacterial lectins. In PLOS ONE. ISSN 1932-6203, JUL 25 2019, vol. 14, no. 7., Registrované v: WOS
 9. [1.1] SEDIVA, Alena - KATRLIK, Jaroslav. Determination of Glycosylation by Lectin Biochips and Biosensors Based on Surface Plasmon Resonance. In CHEMICKE LISTY. ISSN 0009-2770, 2016, vol. 110, no. 12, pp. 842-850., Registrované v: WOS
 10. [1.1] SILVA, Priscila M. S. - LIMA, Amanda L. R. - SILVA, Barbara V. M. - COELHO, Luana C. B. B. - DUTRA, Rosa F. - CORREIA, Maria T. S. Cratylia mollis lectin nanoelectrode for differential diagnostic of prostate cancer and benign prostatic hyperplasia based on label-free detection. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 85, no., pp. 171-177., Registrované v: WOS
 11. [1.1] WU, M.B. - YANG, H.S. - WEI, H. - HU, X.L. - QU, B. - CHEN, M. Self-Assembled Nanoscaled Metalloporphyrin for Optical Detection of Dimethylmethylphosphonate. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2019, vol. 2019., Registrované v: WOS
 12. [1.1] YAGHOUBI, M. - RAHIMI, F. - NEGAHDARI, B. - REZAYAN, A.H. - SHAFIEKHANI, A. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 29 2020, vol. 10, no. 1., Registrované v: WOS
 13. [1.2] GERLACH, Jared Q. - KILCOYNE, Michelle - JOSHI, Lokesh. Applications of Nanotechnology in Array-Based Carbohydrate Analysis and

Profiling. In Carbohydrate Nanotechnology, 2015-11-27, pp. 267-283.,
Registrované v: SCOPUS

14. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md -
AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene
and its derivatives as biosensing platform for healthcare applications. In
Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp.
187-215., Registrované v: SCOPUS

ADCA616 KOCKOVÁ-KRATOCHVÍLOVÁ, Anna - SLÁVIKOVÁ, Elena - ZEMEK, Juraj - KADLEČÍKOVÁ, B. - KUNIAK, Ľudovít. Hydrolytic activity in the genus
Schizosaccharomyces LINDNER. In *Folia Microbiologica*, 1985, vol. 30, p.
443-451. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02928754>

Ohlasy:

1. [1.1] BRYSCH-HERZBERG, Michael - TOBIAS, Andrea - SEIDEL,
Martin - WITTMANN, Rupert - WOHLMANN, Elke - FISCHER, Reinhard -
DLAUCHY, Denes - PETER, Gabor. *Schizosaccharomyces osmophilus* sp. nov.,
an osmophilic fission yeast occurring in bee bread of different solitary bee
species. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2019, vol. 19, no. 4,
pp., Registrované v: WOS

2. [1.1] HU, Wen - SUO, Fang - DU, Li-Lin. Bulk Segregant Analysis
Reveals the Genetic Basis of a Natural Trait Variation in Fission Yeast. In
GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, 2015, vol. 7, no.
12, pp. 3496-3510., Registrované v: WOS

ADCA617 KOCKOVÁ-KRATOCHVÍLOVÁ, Anna - HAVELKOVÁ, M. *Prototheca*
hydrocarborea n. sp. Lebenszyklus, metabolismus, und feinstructur. In *Zeitschrift*
fur Allgemeine Mikrobiologie, 1974, vol. 14, p. 123-134.

Ohlasy:

1. [1.1] JAGIELSKI, Tomasz - BAKULA, Zofia - GAWOR, Jan -
MACISZEWSKI, Kacper - KUSBER, Wolf-Henning - DYLAG, Mariusz -
NOWAKOWSKA, Julita - GROMADKA, Robert - KARNKOWSKA, Anna.
The genus *Prototheca* (Trebouxiophyceae, Chlorophyta) revisited: Implications
from molecular taxonomic studies. In ALGAL RESEARCH-BIOMASS
BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 43, no., pp.,
Registrované v: WOS

ADCA618 KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ČERNÁKOVÁ, M. - SLÁVIKOVÁ, Elena. Morphological changes during the life cycle of *aureobasidium pullulans* (DE
BARY) ARNAUD. In *Folia microbiologica*, 1980, vol. 25, p. 56-67. ISSN
0015-5632. Dostupné na: <https://doi.org/10.1007/BF02876398>

Ohlasy:

1. [1.1] PEETERS, Loes H. M. - HUININK, Hendrik P. - VOOGT,
Benjamin - ADAN, Olaf C. G. Oil type and cross-linking influence growth of
Aureobasidium melanogenum on vegetable oils as a single carbon source. In
MICROBIOLOGYOPEN. ISSN 2045-8827, 2018, vol. 7, no. 6, pp.,
Registrované v: WOS

2. [1.1] WACHOWSKA, U. - GLOWACKA, K. - MIKOLAJCZYK, W.
- KUCHARSKA, K. Biofilm of *Aureobasidium pullulans* var. *pullulans* on
winter wheat kernels and its effect on other microorganisms. In
MICROBIOLOGY. ISSN 0026-2617, 2016, vol. 85, no. 5, pp. 523-530.,

Registrované v: WOS

3. [1.2] Gibbs, P. A., & Seviour, R. J. (2017). Pullulan. In Dumitriu, S. (ed.). *Polysaccharides in Medicinal Applications* (CRC Press, chapter 3, pp. 59-86), Registrované v: SCOPUS

ADCA619 KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ONDRUŠOVÁ, D. Torulopsisarten aus den Oberflächen höherer Pilze. *Torulopsis kruisii* n. sp. und *Torulopsis schatavii* n. sp. In *Biológia*, 1971, p. 477-485, vol. 26. ISSN 0006-3088.

Ohlasy:

1. [1.1] KURTZMAN, Cletus P. - ROBNETT, Christie J. - BLACKWELL, Meredith. Description of *Teunomyces* gen. nov for the *Candida kruisii* clade, *Suhomyces* gen. nov for the *Candida tanzawaensis* clade and *Suhomyces kilbournensis* sp nov. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2016, vol. 16, no. 5, pp., Registrované v: WOS

2. [1.1] WANG, Yun - REN, Yong-Cheng - ZHANG, Zheng-Tian - WU, Fu-Hua - KE, Tao - HUI, Feng-Li. *Candida funiuensi* sp nov., a cellobiose-fermenting yeast species isolated from rotten wood. In *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*. ISSN 1466-5026, 2015, vol. 65, no., pp. 1755-1758., Registrované v: WOS

ADCA620 KOGAN, Grigorij - STAŠKO, Andrej - BAUEROVÁ, Katarína - POLOVKA, Martin - ŠOLTÉS, Ladislav - BREZOVÁ, Vlasta - NAVAROVÁ, Jana - MIHALOVÁ, Danica. Antioxidant properties of yeast (1 \rightarrow 3)- β -D-glucan studied by electron paramagnetic resonance spectroscopy and its activity in the adjuvant arthritis. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*. - Oxford : Elsevier, 2005, vol. 61, no. 1, p. 18-28. (2004: 1.710 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2005.02.010>

Ohlasy:

1. [1.1] AHMED, M. - ABDULLAH, N. - SHUIB, A.S. - RAZAK, S.A. Influence of raw polysaccharide extract from mushroom stalk waste on growth and pH perturbation induced-stress in Nile tilapia, *Oreochromis niloticus*. In *AQUACULTURE*. ISSN 0044-8486, 2017, vol. 468, part A, p. 60-70., Registrované v: WOS

2. [1.1] AHMED, M. - ABDULLAH, N. - YUSOF, H.M. - SHUIB, A.S. - RAZAK, S.A. Improvement of growth and antioxidant status in Nile tilapia, *Oreochromis niloticus*, fed diets supplemented with mushroom stalk waste hot water extract. In *AQUACULTURE RESEARCH*. ISSN 1355-557X, 2017, vol. 48, no. 3, p. 1146-1157., Registrované v: WOS

3. [1.1] BAI, J. - REN, Y. - LI, Y. - FAN, M. - QIAN, H. - WANG, L. - WU, G. - ZHANG, H. - QI, X. - XU, M. - RAO, Z. Physiological functionalities and mechanisms of beta-glucans. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2019, vol. 88, p. 57-66., Registrované v: WOS

4. [1.1] BRACHT, A. - SILVEIRA, S.S. - CASTRO-GHIZONI, C.V. - SA-NAKANISHI, A.B. - NEVES OLIVEIRA, M.R. - BERSANI-AMADO, C.A. - PERALTA, R.M. - COMAR, J.F. Oxidative changes in the blood and serum albumin differentiate rats with monoarthritis and polyarthritis. In *SPRINGERPLUS*. ISSN 2193-1801, 2016, vol. 5, no. 1, p. 1-14, art. no. 36.,

Registrované v: WOS

5. [1.1] BZDUCHA-WROBEL, A. - BLAZEJAK, S. - MOLEND, M. - RECZEK, L. Biosynthesis of beta(1,3)/(1,6)-glucans of cell wall of the yeast *Candida utilis* ATCC 9950 strains in the culture media supplemented with deproteinized potato juice water and glycerol. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 240, no. 5, p. 1023-1034., Registrované v: WOS

6. [1.1] BZDUCHA-WRÓBEL, A. - BŁAŻEJAK, S. - KIELISZEK, M. - POBIEGA, K. - FALANA, K. - JANOWICZ, M. Modification of the cell wall structure of *Saccharomyces cerevisiae* strains during cultivation on waste potato juice water and glycerol towards biosynthesis of functional polysaccharides. In JOURNAL OF BIOTECHNOLOGY. ISSN 01681656, 2018, vol. 281, p. 1-10., Registrované v: WOS

7. [1.1] CAO, R.G. - YANG, X.Y. - SHANG, W.T. - ZHOU, Z.K. - STRAPPE, P. - BLANCHARD, C. Functional enrichment of mannanase-treated spent brewer yeast. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 8, p. 789-794., Registrované v: WOS

8. [1.1] DA SILVA ARAUJO, V.B. - FERREIRA DE MELO, A.N. - DE SOUZA, N.T. - BARBOZA DA SILVA, V.M. - CASTRO-GOMEZ, R.H. - SILVA, A.S. - DE SOUZA, E.L. - MAGNANI, M. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 8, p. 14950-14958., Registrované v: WOS

9. [1.1] DIVYA, M. - KARTHIKEYAN, S. - RAVI, C. - GOVINDARAJAN, M. - ALHARBI, N.S. - KADAIKUNNAN, S. - KHALED, J.M. - ALMANAA, T.N. - VASEEHARAN, B. Isolation of beta-glucan from *Eleusine coracana* and its antibiofilm, antidiabetic, antioxidant, and biocompatible activities. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, 2020, vol. 140, art. no. 103955., Registrované v: WOS

10. [1.1] DU, Bin - MEENU, Maninder - LIU, Hongzhi - XU, Baojun. A Concise Review on the Molecular Structure and Function Relationship of beta-Glucan. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, 2019, vol. 20, no. 16, art. no. 4032., Registrované v: WOS

11. [1.1] FREIRE, A.L. - RAMOS, C.L. - DA COSTA SOUZA, P.N. - CARDOSO, M.G.B. - SCHWAN, R.F. Nondairy beverage produced by controlled fermentation with potential probiotic starter cultures of lactic acid bacteria and yeast. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 248, p. 39-46., Registrované v: WOS

12. [1.1] GIESE, E.C. - GASCON, J. - ANZELMO, G. - BARBOSA, A.M. - ALVES DA CUNHA, M.A. - DEKKER, R.F.H. Free-radical scavenging properties and antioxidant activities of botryosphaeran and some other beta-D-glucans. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, p. 125-130., Registrované v: WOS

13. [1.1] HOLANDA, D.M. - KIM, S.W. Efficacy of Mycotoxin Detoxifiers on Health and Growth of Newly-Weaned Pigs under Chronic Dietary Challenge of Deoxynivalenol. In TOXINS. eISSN: 2072-6651, 2020, vol. 12, no. 5, art. no. 311., Registrované v: WOS

14. [1.1] CHEN, J. - ZHANG, Y.F. - YOU, J.M. - SONG, H.Q. - ZHANG, Y.Z. - LV, Y.T. - QIAO, H.Z. - TIAN, M. - CHEN, F. - ZHANG, S.H. - GUAN, W.T. The Effects of Dietary Supplementation of *Saccharomyces cerevisiae* Fermentation Product During Late Pregnancy and Lactation on Sow Productivity, Colostrum and Milk Composition, and Antioxidant Status of Sows in a Subtropical Climate. In *FRONTIERS IN VETERINARY SCIENCE*. eISSN 2297-1769, 2020, vol. 7, art. no. 71., Registrované v: WOS
15. [1.1] KAUR, R. - RIAR, C.S. Sensory, rheological and chemical characteristics during storage of set type full fat yoghurt fortified with barley beta-glucan. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE*. ISSN 0022-1155, 2020, vol. 57, no. 1, p. 41-51., Registrované v: WOS
16. [1.1] LEAL, D. - MANSILLA, A. - MATSUHIRO, B. - MONCADA-BASUALTO, M. - LAPIER, M. - MAYA, J.D. - OLEA-AZAR, C. - DE BORGGRAEVE, W.M. Chemical structure and biological properties of sulfated fucan from the sequential extraction of subAntarctic *Lessonia* sp (Phaeophyceae). In *CARBOHYDRATE POLYMERS*. ISSN 01448617, 2018, vol. 199, p. 304-313., Registrované v: WOS
17. [1.1] LIU, F. - WANG, Z. - LIU, J. - LI, W. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, p. 572-579., Registrované v: WOS
18. [1.1] LIU, F. - WANG, Z. - LI, W. - ZHOU, L. - DU, Y. - ZHANG, M. - WEI, Y. The mechanisms for the radioprotective effect of beta-D-glucan on high linear-energy-transfer carbon ion irradiated mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 131, p. 282-292., Registrované v: WOS
19. [1.1] LIU, H. - LI, Y. - GAO, J. - SHI, A. - LIU, L. - HU, H. - PUTRI, N. - YU, H. - FAN, W. - WANG, Q. Effects of microfluidization with ionic liquids on the solubilization and structure of beta-D-glucan. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 84, p. 394-401., Registrované v: WOS
20. [1.1] LIU, H.Z. - BAI, W.Q. - HE, L. - LI, X.M. - SHAH, F. - WANG, Q. Degradation mechanism of *Saccharomyces cerevisiae* beta-D-glucan by ionic liquid and dynamic high pressure microfluidization. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 241, art. no. 116123., Registrované v: WOS
21. [1.1] LIU, J.L. - XUE, Q. - LIU, C.G. - BAI, F.W. - WADA, S. - WANG, J.Y. Chemiluminescence imaging of UVA induced reactive oxygen species in mouse skin using L-012 as a probe. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2018, vol. 52, no. 11-12, SI, p. 1424-1431., Registrované v: WOS
22. [1.1] MIHAJLOVIC, M. - JOVANOVIĆ, J.A. - USKOKOVIĆ, A. - GRDOVIĆ, N. - DINIĆ, S. - VIDOVIĆ, S. - POZNANOVIĆ, G. - MUJIC, I. - VIDAKOVIĆ, M. Protective Effects of the Mushroom *Lactarius deterrimus* Extract on Systemic Oxidative Stress and Pancreatic Islets in Streptozotocin-Induced Diabetic Rats. In *JOURNAL OF DIABETES RESEARCH*. ISSN 2314-6745, 2015, vol. 2015, art. no. 576726., Registrované v: WOS
23. [1.1] MILLER, E.D. - DZIEDZIC, A. - SALUK-BIJAK, J. - BIJAK,

- M. A Review of Various Antioxidant Compounds and their Potential Utility as Complementary Therapy in Multiple Sclerosis. In NUTRIENTS. ISSN 2072-6643, 2019, vol. 11, no. 7, art. no. 1528., Registrované v: WOS
24. [1.1] PHAM-HOANG, B.N. - VOILLEY, A. - WACHE, Y. Molecule structural factors influencing the loading of flavoring compounds in a natural-preformed capsule: Yeast cells. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2016, vol. 148, p. 220-228., Registrované v: WOS
25. [1.1] PINTO, M. - COELHO, E. - NUNES, A. - BRANDAO, T. - COIMBRA, M.A. Valuation of brewers spent yeast polysaccharides: A structural characterization approach. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 116, p. 215-222., Registrované v: WOS
26. [1.1] PUNETHA, M. - ROY, A.K. - AJITHAKUMAR, H.M. - PARA, I.A. - GUPTA, D. - SINGH, M. - BHARATI, J. Immunomodulatory effects of probiotics and prilled fat supplementation on immune genes expression and lymphocyte proliferation of transition stage Karan Fries cows. In VETERINARY WORLD. ISSN 0972-8988, 2018, vol. 11, no. 2, p. 209-214., Registrované v: WOS
27. [1.1] RENTAS, M.F. - PEDREIRA, R.S. - PERINI, M.P. - RISOLIA, L.W. - ZAFALON, R.V.A. - ALVARENGA, I.C. - VENDRAMINI, T.H.A. - BALIEIRO, J.C.C. - PONTIERI, C.F.F. - BRUNETTO, M.A. Galactoligosaccharide and a prebiotic blend improve colonic health and immunity of adult dogs. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 8., Registrované v: WOS
28. [1.1] REN, G.M. - LI, K.K. - HU, Y. - YU, M. - QU, J.J. - XU, X.H. Optimization of selenizing conditions for Seleno-Lentinan and its characteristics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 81, p. 249-258., Registrované v: WOS
29. [1.1] SHAH, A. - MASOODI, F. A. - GANI, A. - ASHWAR, B.A. Effect of gamma-irradiation on antioxidant and antiproliferative properties of oat beta-glucan. In RADIATION PHYSICS AND CHEMISTRY. ISSN 0969-806X, 2015, vol. 117, p. 120-127., Registrované v: WOS
30. [1.1] SUN, Y. - LIU, J. - YE, G. - GAN, F. - HAMID, M. - LIAO, S. - HUANG, K. Protective effects of zymosan on heat stress-induced immunosuppression and apoptosis in dairy cows and peripheral blood mononuclear cells. In CELL STRESS AND CHAPERONES. ISSN 1355-8145, 2018, vol. 23, no. 5, p. 1069-1078., Registrované v: WOS
31. [1.1] XIONG, J. L. - WANG, Y. M. - NENNICH, T. D. - LI, Y. - LIU, J. X. Transfer of dietary aflatoxin B-1 to milk aflatoxin M-1 and effect of inclusion of adsorbent in the diet of dairy cows. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2015, vol. 98, no. 4, p. 2545-2554., Registrované v: WOS
32. [1.1] XIONG, J.L. - WANG, Y.M. - ZHOU, H.L. - LIU, J.X. Effects of dietary adsorbent on milk aflatoxin M-1 content and the health of lactating dairy cows exposed to long-term aflatoxin B-1 challenge. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2018, vol. 101, no. 10, p. 8944-8953., Registrované v: WOS
33. [1.1] YANG, H.-S. - WU, F. - LONG, L.-N. - LI, T.-J. - XIONG, X. - LIAO, P. - LIU, H.-N. - YIN, Y.-L. Effects of yeast products on the intestinal morphology, barrier function, cytokine expression, and antioxidant system of

weaned piglets. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2016, vol. 17, no. 10, p. 752-762., Registrované v: WOS

34. [1.1] ZHANG, J. - LI, Q. - LI, R. - SHANG, J.K. Real Time, in situ Observation of the Photocatalytic Destruction of *Saccharomyces cerevisiae* Cells by Palladium-modified Nitrogen-doped Titanium Oxide Thin Film. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY. ISSN 1005-0302, 2015, vol. 31, no. 1, p. 48-54., Registrované v: WOS

35. [1.1] ZHU, F. - DU, Bin - XU, B. A critical review on production and industrial applications of beta-glucans. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 52, p. 275-288., Registrované v: WOS

36. [1.2] NIE, S. - CUI, S.W. - XIE, M. Bioactive Polysaccharides. (Book). In BIOACTIVE POLYSACCHARIDES. Academic Press, 2017, p. 1-554. ISBN: 978-012811451-3;978-012809418-1, Registrované v: SCOPUS

ADCA621 KOGAN, Grigorij - SKORIK, Y. A. - ŽITŇANOVÁ, Ingrid - KRIŽKOVÁ, L. - ĎURÁČKOVÁ, Zdenka - GOMEZ, C.A.R. - YATLUK, Y.G. - KRAJČOVIČ, J. Antioxidant and antimutagenic activity of N-(2-carboxyethyl) chitosan. In *Toxicology and applied pharmacology*, 2004, vol. 201, p. 303-310. Dostupné na: <https://doi.org/10.1016/j.taap.2004.05.009>

Ohlasy:

1. [1.1] AHMAD, Mudasir - MANZOOR, Kaiser - IKRAM, Saiqa. Versatile nature of hetero-chitosan based derivatives as biodegradable adsorbent for heavy metal ions; a review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 105, no., pp. 190-203., Registrované v: WOS
2. [1.1] AZIZ, Manal A. - CABRAL, Jaydee D. - BROOKS, Heather J. L. - MCCONNELL, Michelle A. - FITZPATRICK, Clare - HANTON, Lyall R. - MORATTI, Stephen C. In vitro biocompatibility and cellular interactions of a chitosan/dextran-based hydrogel for postsurgical adhesion prevention. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, 2015, vol. 103, no. 2, pp. 332-341., Registrované v: WOS
3. [1.1] HAFSA, Jawhar - SMACH, Mohamed Ali - SOBEH, Mansour - MAJDOUB, Hatem - YASRI, Aziz. Antioxidant Activity Improvement of Apples Juice Supplemented with Chitosan-Galactose Maillard Reaction Products. In MOLECULES, 2019, vol. 24, no. 24, pp., Registrované v: WOS
4. [1.1] HUANG, Jun - XIE, Haihua - HU, Sheng - XIE, Tian - GONG, Jinyan - JIANG, Chengjun - GE, Qing - WU, Yuanfeng - LIU, Shiwang - CUO, Yanli - MAO, Jianwei - MEI, Lehe. Preparation, Characterization, and Biochemical Activities of N-(2-Carboxyethyl)chitosan from Squid Pens. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 9, pp. 2464-2471., Registrované v: WOS
5. [1.1] CHANG, Shun-Hsien - WU, Chien-Hui - TSAI, Guo-Jane. Effects of chitosan molecular weight on its antioxidant and antimutagenic properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 1026-1032., Registrované v: WOS
6. [1.1] CHIU, Hui-Fang - HUANG, Shin-Ru - LU, Yan-Ying - HAN, Yi-Chun - SHEN, You-Cheng - VENKATAKRISHNAN, Kamesh - WANG, Chin-Kun. Antimutagenicity, antibacteria, and water holding capacity of chitosan from *Luffa aegyptiaca* Mill and *Cucumis sativus* L. In JOURNAL OF FOOD

BIOCHEMISTRY. ISSN 0145-8884, 2017, vol. 41, no. 3, pp., Registrované v: WOS

7. [1.1] KRAJCOVIC, Juraj - VESTEG, Matej - SCHWARTZBACH, Steven D. Euglenoid flagellates: A multifaceted biotechnology platform. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2015, vol. 202, no., pp. 135-145., Registrované v: WOS

8. [1.1] LIU, Hongli - LIU, Xiaoli - YUE, Lin - JIANG, Qixing - XIA, Wenshui. Synthesis, characterization and bioactivities of N,O-carbonylated chitosan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 220-226., Registrované v: WOS

9. [1.1] MOHAMED, Nadia A. - AL-HARBY, Nouf F. - ALMARSHED, Mawaheb S. Synthesis and characterization of novel trimellitic anhydride isothiocyanate-cross linked chitosan hydrogels modified with multi-walled carbon nanotubes for enhancement of antimicrobial activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 132, no., pp. 416-428., Registrované v: WOS

10. [1.1] MOSKALEWICZ, Tomasz - ZYCH, Anita - KRUK, Aleksandra - KOPIA, Agnieszka - ZIMOWSKI, Slawomir - SITARZ, Maciej - CIENIEK, Lukasz. Electrophoretic deposition and microstructure development of Si₃N₄/polyetheretherketone coatings on titanium alloy. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, 2018, vol. 350, no., pp. 633-647., Registrované v: WOS

11. [1.1] MUNOZ-BONILLA, Alexandra - ECHEVERRIA, Coro - SONSECA, Agueda - ARRIETA, Marina P. - FERNANDEZ-GARCIA, Marta. Bio-Based Polymers with Antimicrobial Properties towards Sustainable Development. In MATERIALS. ISSN 1996-1944, 2019, vol. 12, no. 4, pp., Registrované v: WOS

12. [1.1] POKHREL, Shanta - YADAV, Paras Nath. Functionalization of chitosan polymer and their applications. In JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY. ISSN 1060-1325, 2019, vol. 56, no. 5, pp. 450-475., Registrované v: WOS

13. [1.1] SAHARIAH, Priyanka - MASSON, Mar. Antimicrobial Chitosan and Chitosan Derivatives: A Review of the Structure-Activity Relationship. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 11, pp. 3846-3868., Registrované v: WOS

14. [1.1] SHEN, Juan - JIN, Bo - QI, Yong-cheng - JIANG, Qi-ying - GAO, Xue-feng. Carboxylated chitosan/silver-hydroxyapatite hybrid microspheres with improved antibacterial activity and cytocompatibility. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 78, no., pp. 589-597., Registrované v: WOS

15. [1.1] TAN, Funeng - ZHANG, Zhixin - ZHOU, Yunbo - SUI, Weiping. Preparation and Aggregate Formation of O-Hydroxypropyl-N-Laurel Acyl Chitosan Ramification. In PROCEEDINGS OF THE 5TH INTERNATIONAL SYMPOSIUM ON KNOWLEDGE ACQUISITION AND MODELING. ISSN 1951-6851, 2015, vol. 80, no., pp. 230-233., Registrované v: WOS

16. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA,

Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In SECONDARY ENDOSYMBIOSES. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS

17. [1.1] WANG, Ting - CAI, Zhao-sheng - ZHANG, Ting-ting - LI, Man - FANG, Gui-gan - ZHU, Xue-mei. Dehydroabietyl Glycidyl Ether Grafted Hydroxyethyl Chitosan: Synthesis, Characterization and Physicochemical Properties. In TENSIDE SURFACTANTS DETERGENTS. ISSN 0932-3414, 2019, vol. 56, no. 3, pp. 252-259., Registrované v: WOS

18. [1.1] YANG, Jianhong - XIE, Qinyue - ZHU, Jianfeng - ZOU, Chang - CHEN, Lingyun - DU, Yumin - LI, Dinglong. Preparation and In vitro antioxidant activities of 6-amino-6-deoxychitosan and its sulfonated derivatives. In BIOPOLYMERS. ISSN 0006-3525, 2015, vol. 103, no. 10, pp. 539-549., Registrované v: WOS

19. [1.1] ZHU, Yuefei - LIU, Yiyang - PANG, Zhiqing. Chitosan in drug delivery applications. In NATURAL POLYSACCHARIDES IN DRUG DELIVERY AND BIOMEDICAL APPLICATIONS, 2019, vol., no., pp. 101-119., Registrované v: WOS

ADCA622 KOGAN, Grigorij - SADOVSKAYA, I. - CHAIGNON, P. - CHOKR, A. - JABBOURI, S. Biofilms of clinical strains of Staphylococcus that do not contain polysaccharide intercellular adhesin. In *FEMS Microbiology Letters*, 2006, vol. 255, p. 11-16. (2005: 2.057 - IF, Q3 - JCR, 1.000 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.2005.00043.x>

Ohlasy:

1. [1.1] ABBONDIO, Marcello - FOIS, Ilenia - LONGHEU, Carla - AZARA, Elisa - TOLA, Sebastiana. Biofilm production, quorum sensing system and analysis of virulence factors of Staphylococcus epidermidis collected from sheep milk samples. In SMALL RUMINANT RESEARCH. ISSN 0921-4488, 2019, vol. 174, no., pp. 83-87., Registrované v: WOS

2. [1.1] AHMED, Doaa Mabrouk - MESSIH, Mona Abdel Wahab Abel - IBRAHIM, Nermin Hassan - MEABED, Mohamed Hussein - ABDEL-SALAM, Soha Mahmoud. Frequency of icaA and icaD determinants and biofilm formation among coagulase-negative staphylococci associated with nasal carriage in neonatal intensive care units. In GERMS. ISSN 2248-2997, 2019, vol. 9, no. 2, pp. 61-70., Registrované v: WOS

3. [1.1] BATONI, Giovanna - MAISETTA, Giuseppantonio - ESIN, Semih. Antimicrobial peptides and their interaction with biofilms of medically relevant bacteria. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-2736, 2016, vol. 1858, no. 5, pp. 1044-1060., Registrované v: WOS

4. [1.1] ELCHINGER, Pierre-Henri - DELATTRE, Cedric - FAURE, Sophie - ROY, Olivier - BADEL, Stephanie - BERNARDI, Thierry - TAILLEFUMIER, Claude - MICHAUD, Philippe. Immobilization of proteases on chitosan for the development of films with anti-biofilm properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 1063-1068., Registrované v: WOS

5. [1.1] FAGERLUND, Annette - LANGSRUD, Solveig - HEIR, Even - MIKKELSEN, Maria I. - MORETRO, Trond. Biofilm Matrix Composition Affects the Susceptibility of Food Associated Staphylococci to Cleaning and

- Disinfection Agents. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
6. [1.1] FREITAS, Ana I. - LOPES, Nathalie - OLIVEIRA, Fernando - BRAS, Susana - FRANCA, Angela - VASCONCELOS, Carlos - VILANOVA, Manuel - CERCA, Nuno. Comparative analysis between biofilm formation and gene expression in Staphylococcus epidermidis isolates. In FUTURE MICROBIOLOGY. ISSN 1746-0913, 2018, vol. 13, no. 4, pp. 415-427., Registrované v: WOS
7. [1.1] GOGOI-TIWARI, Jully - WILLIAMS, Vincent - WARYAH, Charlene Babra - COSTANTINO, Paul - AL-SALAMI, Hani - MATHAVAN, Sangeetha - WELLS, Kelsi - TIWARI, Harish Kumar - HEGDE, Nagendra - ISLOOR, Shrikrishna - AL-SALLAMI, Hesham - MUKKUR, Trilochan. Mammary Gland Pathology Subsequent to Acute Infection with Strong versus Weak Biofilm Forming Staphylococcus aureus Bovine Mastitis Isolates: A Pilot Study Using Non-Invasive Mouse Mastitis Model. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
8. [1.1] HUSSAIN, Muzaffar - STEINBACHER, Tim - PETERS, Georg - HEILMANN, Christine - BECKER, Karsten. The adhesive properties of the Staphylococcus lugdunensis multifunctional autolysin AtlL and its role in biofilm formation and internalization. In INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY. ISSN 1438-4221, 2015, vol. 305, no. 1, pp. 129-139., Registrované v: WOS
9. [1.1] LOMBARDI, Lisa - MAISETTA, Giuseppantonio - BATONI, Giovanna - TAVANTI, Arianna. Insights into the Antimicrobial Properties of Hepcidins: Advantages and Drawbacks as Potential Therapeutic Agents. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 4, pp. 6319-6341., Registrované v: WOS
10. [1.1] LOZA-CORREA, Maria - AYALA, Juan A. - PERELMAN, Iris - HUBBARD, Keith - KALAB, Miloslav - YI, Qi-Long - TAHA, Mariam - DE PEDRO, Miguel A. - RAMIREZ-ARCOS, Sandra. The peptidoglycan and biofilm matrix of Staphylococcus epidermidis undergo structural changes when exposed to human platelets. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 1, pp., Registrované v: WOS
11. [1.1] MAISETTA, Giuseppantonio - GRASSI, Lucia - DI LUCA, Mariagrazia - BOMBARDELLI, Silvia - MEDICI, Chiara - BRANCATISANO, Franca Lisa - ESIN, Semih - BATONI, Giovanna. Anti-biofilm properties of the antimicrobial peptide temporin 1Tb and its ability, in combination with EDTA, to eradicate Staphylococcus epidermidis biofilms on silicone catheters. In BIOFOULING. ISSN 0892-7014, 2016, vol. 32, no. 7, pp. 787-800., Registrované v: WOS
12. [1.1] MANANDHAR, Sarita - SINGH, Anjana - VARMA, Ajit - PANDEY, Shanti - SHRIVASTAVA, Neeraj. Biofilm Producing Clinical Staphylococcus aureus Isolates Augmented Prevalence of Antibiotic Resistant Cases in Tertiary Care Hospitals of Nepal. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
13. [1.1] NOSTRO, Antonia - MARINO, Andreana - GINESTRA, Giovanna - CELLINI, Luigina - DI GIULIO, Mara - BISIGNANO, Giuseppe. Effects of adaptation to carvacrol on Staphylococcus aureus in the planktonic and biofilm phases. In BIOFOULING. ISSN 0892-7014, 2017, vol. 33, no. 6, pp.

470-480., Registrované v: WOS

14. [1.1] OLIVEIRA, Fernando - LIMA, Claudia Afonso - BRAS, Susana - FRANCA, Angela - CERCA, Nuno. Evidence for inter- and intraspecies biofilm formation variability among a small group of coagulase-negative staphylococci. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, 2015, vol. 362, no. 20, pp., Registrované v: WOS

15. [1.1] ONICIUC, Elena-Alexandra - CERCA, Nuno - NICOLAU, Anca I. Compositional Analysis of Biofilms Formed by Staphylococcus aureus Isolated from Food Sources. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS

16. [1.1] OOI, N. - EADY, E. A. - COVE, J. H. - O'NEILL, A. J. Redox-active compounds with a history of human use: antistaphylococcal action and potential for repurposing as topical antibiofilm agents. In JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. ISSN 0305-7453, 2015, vol. 70, no. 2, pp. 479-488., Registrované v: WOS

17. [1.1] PANDA, Sasmita - SINGH, Durg Vijai. Biofilm Formation by ica-Negative Ocular Isolates of Staphylococcus haemolyticus. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

18. [1.1] RAMON-PEREZ, Miriam L. - DIAZ-CEDILLO, Francisco - CONTRERAS-RODRIGUEZ, Araceli - BETANZOS-CABRERA, Gabriel - PERALTA, Humberto - RODRIGUEZ-MARTINEZ, Sandra - CANCINO-DIAZ, Mario E. - JAN-ROBLERO, Janet - CANCINO DIAZ, Juan C. Different sensitivity levels to norspermidine on biofilm formation in clinical and commensal Staphylococcus epidermidis strains. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, 2015, vol. 79, no., pp. 8-16., Registrované v: WOS

19. [1.1] SEEYANKEM, Bunya - SAE-LIM, Aphisara - PUANGSIRI, Warunee - RATTANACHUAY, Pattamarat - SUKHUMUNGOON, Pharanai. PREVALENCE, VIRULENCE, ANTIBIOGRAM PROFILES, AND GENETIC RELATIONSHIP OF STAPHYLOCOCCUS EPIDERMIDIS FROM MEAT IN SOUTHERN THAILAND. In SOUTHEAST ASIAN JOURNAL OF TROPICAL MEDICINE AND PUBLIC HEALTH. ISSN 0125-1562, 2019, vol. 50, no. 6, pp. 1108-1117., Registrované v: WOS

20. [1.1] SCHAEFFER, Carolyn R. - WOODS, Keith M. - LONGO, G. Matt - KIEDROWSKI, Megan R. - PAHARIK, Alexandra E. - BUETTNER, Henning - CHRISTNER, Martin - BOISSY, Robert J. - HORSWILL, Alexander R. - ROHDE, Holger - FEY, Paul D. Accumulation-Associated Protein Enhances Staphylococcus epidermidis Biofilm Formation under Dynamic Conditions and Is Required for Infection in a Rat Catheter Model. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2015, vol. 83, no. 1, pp. 214-226., Registrované v: WOS

21. [1.1] SCHAEFFER, Carolyn R. - HOANG, Tra-My N. - SUDBECK, Craig M. - ALAWI, Malik - TOLO, Isaiah E. - ROBINSON, D. Ashley - HORSWILL, Alexander R. - ROHDE, Holger - FEY, Paul D. Versatility of Biofilm Matrix Molecules in Staphylococcus epidermidis Clinical Isolates and Importance of Polysaccharide Intercellular Adhesin Expression during High Shear Stress. In MSPHERE. ISSN 2379-5042, 2016, vol. 1, no. 5, pp., Registrované v: WOS

22. [1.1] THOMSEN, Isaac P. - LIU, George Y. Targeting fundamental

pathways to disrupt *Staphylococcus aureus* survival: clinical implications of recent discoveries. In JCI INSIGHT. ISSN 2379-3708, 2018, vol. 3, no. 5, pp., Registrované v: WOS

23. [1.1] TSENG, Sung-Pin - LIN, Yu-Tzu - TSAI, Jui-Chang - HUNG, Wei-Chun - CHEN, Hsiao-Jan - CHEN, Pi-Fang - HSUEH, Po-Ren - TENG, Lee-Jene. Genotypes and phenotypes of *Staphylococcus lugdunensis* isolates recovered from bacteremia. In JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. ISSN 1684-1182, 2015, vol. 48, no. 4, pp. 397-405., Registrované v: WOS

24. [1.1] ZHENG, Yue - HE, Lei - ASIAMA, Titus K. - OTTO, Michael. Colonization of medical devices by staphylococci. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2018, vol. 20, no. 9, pp. 3141-3153., Registrované v: WOS

25. [1.2] ÇITAK, Sumru - ÖCAL, Şükriye Ceren - KÜLAHCI, M. Burcu. Antibiotic resistance and slime production in coagulase-negative *Staphylococcus* strains from: Retail meat samples. In Gazi University Journal of Science. ISSN 13039709, 2015-01-01, 28, 3, pp. 359-364., Registrované v: SCOPUS

26. [1.2] OTTO, Michael. Staphylococcal biofilms. In Microbiology Spectrum, 2018-07-01, 6, 4, pp. 1-17., Registrované v: SCOPUS

27. [1.2] RÓZALSKA, Barbara - SADOWSKA, Beata. In Vivo Resistance Mechanisms: Staphylococcal Biofilms. In Pet-to-Man Travelling Staphylococci: A World in Progress, 2018-03-16, pp. 237-251., Registrované v: SCOPUS

28. [1.2] VÁZQUEZ-SÁNCHEZ, Daniel. Effect of Environmental Conditions Present in the Fishery Industry on The Biofilm-Forming Ability of *Staphylococcus Aureus*. In Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria, 2016-08-12, 2, pp. 1304-1309., Registrované v: SCOPUS

ADCA623 KOGAN, Grigorij - ALFOLDI, Juraj - MASLER, Ladislav. C-13-NMR spectroscopic investigation of 2 yeas-cell wall beta-D-glucans. In *Biopolymers*, 1988, vol. 27, p. 1055-1063. ISSN 0006-3525.

Ohlasy:

1. [1.1] LIN, Peng-Cheng - WU, Ding-Tao - XIE, Jing - ZHAO, Jing - LI, Shao-Ping. Characterization and comparison of bioactive polysaccharides from the tubers of *Gymnadenia conopsea*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 43, no., pp. 199-206., Registrované v: WOS

2. [1.1] PAULOVICOVA, Ema - PAULOVICOVA, Lucia - PILISIOVA, Ruzena - JANCINOVA, Viera - YASHUNSKY, Dmitry V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. The evaluation of beta-(1> 3)-nonaglucoside as an anti-*Candida albicans* immune response inducer. In CELLULAR MICROBIOLOGY. ISSN 1462-5814, 2016, vol. 18, no. 9, pp. 1294-1307., Registrované v: WOS

ADCA624 KOGAN, Grigorij - MATULOVÁ, Mária - MICHALKOVÁ, E. Extracellular polysaccharides of *Penicillium vermiculatum*. In *Zeitschrift für Naturforschung C*, 2002, vol. 57c, p. 452-458.

Ohlasy:

1. [1.1] JAROSZUK-SCISEL, Jolanta - NOWAK, Artur - KOMANIECKA, Iwona - CHOMA, Adam - JAROSZ-WILKOLAZKA, Anna -

OSINSKA-JAROSZUK, Monika - TYSKIEWICZ, Renata - WIATER, Adrian - ROGALSKI, Jerzy. Differences in Production, Composition, and Antioxidant Activities of Exopolymeric Substances (EPS) Obtained from Cultures of Endophytic *Fusarium culmorum* Strains with Different Effects on Cereals. In *MOLECULES*, 2020, vol. 25, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/molecules25030616>., Registrované v: WOS

2. [1.1] MAHDI, Likaa H. - HUSSEIN, Nadheema H. - TAHA, Buthainah M. - AUDA, Ibtesam G. - ZWAIN, Luma A. H. - MATER, Haifa N. Immunostimulatory and antibacterial activity of *Leuconostoc mesenteroides* and its purified exopolysaccharide against extended-spectrum beta-lactamase producing *Burkholderia cepacia*. In *REVIEWS IN MEDICAL MICROBIOLOGY*. ISSN 0954-139X, 2019, vol. 30, no. 3, pp. 161-172., Registrované v: WOS

3. [1.1] MOGHANNEM, Saad A. M. - FARAG, Mohamed M. S. - SHEHAB, Amr M. - AZAB, Mohamed S. Exopolysaccharide production from *Bacillus velezensis* KY471306 using statistical experimental design. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2018, vol. 49, no. 3, pp. 452-462., Registrované v: WOS

4. [1.1] OSINSKA-JAROSZUK, Monika - JAROSZ-WILKOLAZKA, Anna - JAROSZUK-SCISEL, Jolanta - SZALAPATA, Katarzyna - NOWAK, Artur - JASZEK, Magdalena - OZIMEK, Ewa - MAJEWSKA, Malgorzata. Extracellular polysaccharides from Ascomycota and Basidiomycota: production conditions, biochemical characteristics, and biological properties. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2015, vol. 31, no. 12, pp. 1823-1844., Registrované v: WOS

5. [1.2] AL-MANHEL, Alaa Jabbar Abd. Production of exopolysaccharide from local fungal isolate. In *Current Research in Nutrition and Food Science*. ISSN 2347467X, 2017-12-01, 5, 3, pp. 338-346., Registrované v: SCOPUS

ADCA625 KOGAN, Grigorij - RAUKO, Peter - MACHOVÁ, Eva. Fungal chitin-glucan derivatives exert protective or damaging activity on plasmid DNA. In *Carbohydrate Research*, 2003, vol. 338, no. 9, p. 931-935. (2002: 1.631 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(03\)00041-7](https://doi.org/10.1016/S0008-6215(03)00041-7)

Ohlasy:

1. [1.1] APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] HONG, Yawen - YING, Tiejin. Characterization of a chitin-glucan complex from the fruiting body of *Chock* for *Termitomyces albuminosus* (Berk.) Heim. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 134, no., pp. 131-138., Registrované v: WOS

ADCA626 KOGAN, Grigorij - ŠOLTĚS, Ladislav - STERN, Robert - GEMEINER, Peter. Hyaluronic acid: a natural biopolymer with a broad range of biomedical and industrial applications. In *Biotechnology Letters*, 2007, vol. 29, no. 1, p. 17-25. (2006: 1.134 - IF, Q3 - JCR, 0.546 - SJR, Q2 - SJR, Current Contents - CCC). (2007

- Current Contents). ISSN 0141-5492. Dostupné na:
<https://doi.org/10.1007/s10529-006-9219-z>

Ohlasy:

1. [1.1] ABDALLAH, M.M. - FERNANDEZ, N. - MATIAS, A.A. - BRONZE, M.D. Hyaluronic acid and Chondroitin sulfate from marine and terrestrial sources: Extraction and purification methods. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 243, art. no. 116441., Registrované v: WOS
2. [1.1] AGU, A.B.S. - BENABLO, P.J.L. - MESIAS, V.S. - PENALOZA, D.P. SYNTHESIS AND CHARACTERIZATION OF A CHITOSAN-BASED CITRIC ACID-CROSSLINKED ENCAPSULANT SYSTEM. In JOURNAL OF THE CHILEAN CHEMICAL SOCIETY. ISSN 0717-9707, 2019, vol. 64, no. 4, p. 4610-4612., Registrované v: WOS
3. [1.1] AHADIAN, S. - CIVITARESE, R. - BANNERMAN, D. - MOHAMMADI, M.H. - LU, R. - WANG, E. - DAVENPORT-HUYER, L. - LAI, B. - ZHANG, B.Y. - ZHAO, Y.M. - MANDLA, S. - KOROLJ, A. - RADISIC, M. Organ-On-A-Chip Platforms: A Convergence of Advanced Materials, Cells, and Microscale Technologies. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2018, vol. 7, no. 2, SI., art. no. 1700506., Registrované v: WOS
4. [1.1] AJDNIK, U. - FINSGAR, M. - ZEMLJIC, L.F. Characterization of chitosan-lysine surfactant bioactive coating on silicone substrate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 232, art. no. 115817., Registrované v: WOS
5. [1.1] AKAT, Esra. Characterization of testicular histology and spermatogenesis in the Levantine frog, *Pelophylax bedriagae* (Amphibia: Anura: Ranidae). In ANNALES DE LIMNOLOGIE-INTERNATIONAL JOURNAL OF LIMNOLOGY. ISSN 0003-4088, AUG 3 2020, vol. 56., Registrované v: WOS
6. [1.1] AKAT, E. Histological and histochemical study on the mesonephric kidney of *Pelophylax bedriagae* (Anura: Ranidae). In TURKISH JOURNAL OF ZOOLOGY. ISSN 1300-0179, 2019, vol. 43, no. 2, p. 224-228., Registrované v: WOS
7. [1.1] AKBARI, V. - REZAZADEH, M. - EBRAHIMI, Z. Comparison the effects of chitosan and hyaluronic acid-based thermally sensitive hydrogels containing rosuvastatin on human osteoblast-like MG-63 cells. In RESEARCH IN PHARMACEUTICAL SCIENCES. ISSN 1735-5362, 2020, vol. 15, no. 1, p. 97-106., Registrované v: WOS
8. [1.1] ALBANI, F. - BONFIGLI, A. - CONSOLARO, F. - RIGANO, L. - CAMPISI, M. Hydrating cleansing: efficacy and tolerability of new formulations with hyaluronic acid 0.2% for intimate hygiene in the woman in fertile age and menopause. In MINERVA GINECOLOGICA. ISSN 0026-4784, 2018, vol. 70, no. 2, p. 220-233., Registrované v: WOS
9. [1.1] ALBERT, C. - BELADJINE, M. - TSAPIS, N. - FATTAL, E. - AGNELY, F. - HUANG, N. Pickering emulsions: Preparation processes, key parameters governing their properties and potential for pharmaceutical applications. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2019, vol. 309, p. 302-332., Registrované v: WOS
10. [1.1] ALEKSEEVA, L.I. - KASHEVAROVA, N.G. - TASKINA, E.A. - SHARAPOVA, E.P. - ANIKIN, S.G. - STREBKOVA, E.A. - RASKINA, T.A. - ZONOVA, E.V. - OTTEVA, E.N. - RODIONOVA, S.S. - TORGASHIN,

- A.N. - BUKLEMISHEV, U.V. - SHMIDT, E.I. - SHESTERNYA, P.A. - NAUMOV, A.V. - ZAGORODNIY, N.V. - LILA, A.M. The efficacy and safety of intra-articular application of a combination of sodium hyaluronate and chondroitin sulfate for osteoarthritis of the knee: a multicenter prospective study. In TERAPEVTICHESKII ARKHIV. ISSN 0040-3660, 2020, vol. 92, no. 5, p. 46-54., Registrované v: WOS
11. [1.1] AL-KHATEEB, R. - OLSZEWSKA-CZYŻ, I. Biological molecules in dental applications: hyaluronic acid as a companion biomaterial for diverse dental applications. In HELIYON. ISSN 2405-8440, 2020, vol. 6, no. 4, art. no. e03722., Registrované v: WOS
12. [1.1] AMADO, I.R. - VAZQUEZ, J.A. - PASTRANA, L. - TEIXEIRA, J.A. Cheese whey: A cost-effective alternative for hyaluronic acid production by *Streptococcus zooepidemicus*. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 198, p. 54-61., Registrované v: WOS
13. [1.1] AMINABHAVI, T.M. - DESHMUKH, A.S. Polysaccharide-Based Hydrogels as Biomaterials. In POLYMERIC HYDROGELS AS SMART BIOMATERIALS. ISSN 2364-1878, 2016, p. 45-71., Registrované v: WOS
14. [1.1] ARKAN, E. - AZANDARYANI, A.H. - MORADIPOUR, P. - BEHBOOD, L. Biomacromolecular Based Fibers in Nanomedicine: A Combination of Drug Delivery and Tissue Engineering. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2017, vol. 18, no. 11, p. 909-924., Registrované v: WOS
15. [1.1] AVE, Marcelo Neira - ALMEIDA ISSA, Maria Claudia. Hyaluronic Acid Dermal Filler: Physical Properties and Its Indications. In BOTULINUM TOXINS, FILLERS AND RELATED SUBSTANCES. ISSN 2511-820X, 2019, vol., no., pp. 187-197., Registrované v: WOS
16. [1.1] AWWAD, S. - ABUBAKRE, A. - ANGKAWINITWONG, U. - KHAW, P.T. - BROCCINI, S. In situ antibody-loaded hydrogel for intravitreal delivery. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2019, vol. 137, art. no. UNSP 104993., Registrované v: WOS
17. [1.1] AYALA-CAMINERO, R. - PINZON-HERRERA, L. - MARTINEZ, C.A.R. - ALMODOVAR, J. Polymeric scaffolds for three-dimensional culture of nerve cells: a model of peripheral nerve regeneration. In MRS COMMUNICATIONS. ISSN 2159-6859, 2017, vol. 7, no. 3, p. 391-415., Registrované v: WOS
18. [1.1] BADRI, A. - RAMAN, K. - JAYARAMAN, G. Uncovering Novel Pathways for Enhancing Hyaluronan Synthesis in Recombinant *Lactococcus lactis*: Genome-Scale Metabolic Modeling and Experimental Validation. In PROCESSES. ISSN 2227-9717, 2019, vol. 7, no. 6, art. no. 343., Registrované v: WOS
19. [1.1] BAE, M.S. - KO, N.R. - LEE, S.J. - LEE, J.B. - HEO, D.N. - BYUN, W. - CHOI, B.-J. - JEON, H.B. - JANG, H.-J. - AHN, J.-Y. - HWANG, D.-S. - JUNG, B.-Y. - KWON, I.K. Development of novel photopolymerizable hyaluronic acid/heparin-based hydrogel scaffolds with a controlled release of growth factors for enhanced bone regeneration. In MACROMOLECULAR RESEARCH. ISSN 1598-5032, 2016, vol. 24, no. 9, p. 829-837., Registrované v: WOS
20. [1.1] BARBASZ, A. - KRECZMER, B. - DYBA, B. - FILEK, M. - RUDOLPHI-SKORSKA, E. The direct action of hyaluronic acid on human

U-937 and HL-60 cells - modification of native and model membranes. In BIOLOGIA. ISSN 0006-3088, 2016, vol. 71, no. 11, p. 1304-1314., Registrované v: WOS

21. [1.1] BARTZOKA, Elisavet D. - CRESTINI, Claudia - LANGE, Heiko. Biomass Derived and Biomass Inspired Polymers in Pharmaceutical Applications. In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS, 2015, vol., no., pp. 127-203., Registrované v: WOS

22. [1.1] BASAL, G. - TETIK, G.D. - KURKCU, G. - BAYRAKTAR, O. - GURHAN, I.D. - ATABEY, A. Olive leaf extract loaded silk fibroin/hyaluronic acid nanofiber webs for wound dressing applications. In DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES. ISSN 1842-3582, 2016, vol. 11, no. 4, p. 1113-1123., Registrované v: WOS

23. [1.1] BASSAS-GALIA, M. - FOLLONIER, S. - PUSNIK, M. - ZINN, M. Natural polymers: a source of inspiration. In BIORESORBABLE POLYMERS FOR BIOMEDICAL APPLICATIONS: FROM FUNDAMENTALS TO TRANSLATIONAL MEDICINE. ISSN 2049-9485, 2017, vol. 120, p. 31-64., Registrované v: WOS

24. [1.1] BAZMANDEH, A.Z. - MIRZAEI, E. - GHASEMI, Y. - KOUHBANANI, M.A.J. Hyaluronic acid coated electrospun chitosan-based nanofibers prepared by simultaneous stabilizing and coating. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 138, p. 403-411., Registrované v: WOS

25. [1.1] BEREZNEY, J.P. - SALEH, O.A. Electrostatic effects on the conformation and elasticity of hyaluronic acid, a moderately flexible polyelectrolyte. In MACROMOLECULES. ISSN 0024-9297, 2017, vol. 50, no. 3, p. 1085-1089., Registrované v: WOS

26. [1.1] BHATTACHARYA, D.S. - SVECHKAREV, D. - SOUCHEK, J.J. - HILL, T.K. - TAYLOR, M.A. - NATARAJAN, A. - MOHS, A.M. Impact of structurally modifying hyaluronic acid on CD44 interaction. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-7518, 2017, vol. 5, no. 41, p. 8183-8192., Registrované v: WOS

27. [1.1] BHUIYAN, N.H. - VARNEY, M.L. - BHATTACHARYA, D.S. - PAYNE, W.M. - MOHS, A.M. - HOLSTEIN, S.A. - WIEMER, D.F. omega-Hydroxy isoprenoid bisphosphonates as linkable GGDPS inhibitors. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2019, vol. 29, no. 19, art. no. UNSP 126633., Registrované v: WOS

28. [1.1] BOMBIN, A.D.J. - DUNNE, N.J. - MCCARTHY, H.O. Electrospinning of natural polymers for the production of nanofibres for wound healing applications. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 114., Registrované v: WOS

29. [1.1] BORSCHIVER, S. - VASCONCELOS, R.C. - SILVA, F.C. - FREITAS, G.C. - SANTOS, P.E. - DO BOMFIM, R.O. Technology roadmap for hyaluronic acid and its derivatives market. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2019, vol. 13, no. 3, p. 435-444., Registrované v: WOS

30. [1.1] BORZACCHIELLO, Assunta - RUSSO, Luisa - MALLE, Birgitte M. - SCHWACH-ABDELLAOUI, Khadija - AMBROSIO, Luigi. Hyaluronic Acid Based Hydrogels for Regenerative Medicine Applications. In

BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS

31. [1.1] BORZACCHIELLO, A. - RUSSO, L. - ZACCARIA, S. - AMBROSIO, L. Physical and Chemical Hyaluronic Acid Hydrogels and Their Biomedical Applications. In POLYSACCHARIDE HYDROGELS: CHARACTERIZATION AND BIOMEDICAL APPLICATIONS. ISBN 978-981-4613-62-0, 2016, p. 417-447., Registrované v: WOS

32. [1.1] BOWDEN, D.J. - BYRNE, C.A. - ALKHAYAT, A. - EUSTACE, S.J. - KAVANAGH, E.C. Injectable viscoelastic supplements: A review for radiologists. In AMERICAN JOURNAL OF ROENTGENOLOGY. ISSN 0361-803X, 2017, vol. 209, no. 4, p. 883-888., Registrované v: WOS

33. [1.1] BRAUNGER, J.A. - BJORNMALM, M. - ISLES, N.A. - CUI, J.W. - HENDERSON, T.M.A. - O'CONNOR, A.J. - CARUSO, F. Interactions between circulating nanoengineered polymer particles and extracellular matrix components in vitro. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2017, vol. 5, no. 2, p. 267-273., Registrované v: WOS

34. [1.1] BROWNE, S. - JHA, A.K. - AMERI, K. - MARCUS, S.G. - YEGHIAZARIANS, Y. - HEALY, K.E. TGF- β 1/CD105 signaling controls vascular network formation within growth factor sequestering hyaluronic acid hydrogels. In PLoS ONE. ISSN 1932-6203, 2018, vol. 13, no. 3, art. no. e0194679., Registrované v: WOS

35. [1.1] CABRAL, D.G.A. - LIMA, E.C.S. - MOURA, P. - DUTRA, R.F. A label-free electrochemical immunosensor for hepatitis B based on hyaluronic acid-carbon nanotube hybrid film. In TALANTA. ISSN 0039-9140, 2016, vol. 148, p. 209-215., Registrované v: WOS

36. [1.1] CAI, Z.X. - ZHANG, H.B. - WEI, Y. - WEI, Y.Y. - XIE, Y.P. - CONG, F.S. Reduction- and pH-Sensitive Hyaluronan Nanoparticles for Delivery of Iridium(III) Anticancer Drugs. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 7, p. 2102-2117., Registrované v: WOS

37. [1.1] CALCE, E. - RINGHIERI, P. - MERCURIO, F.A. - LEONE, M. - BUGATTI, V. - SAVIANO, M. - VITTORIA, V. - DE LUCA, S. A biocompatible process to prepare hyaluronan-based material able to self-assemble into stable nano-particles. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 37, p. 29573-29576., Registrované v: WOS

38. [1.1] CARDOSO, M.J. - COSTA, R.R. - MANO, J.F. Marine origin polysaccharides in drug delivery systems. In MARINE DRUGS, 2016, vol. 14, no. 2, art. no. 34., Registrované v: WOS

39. [1.1] CAVALCANTI, A.D.D. - MELO, B.A.G. - OLIVEIRA, R.C. - SANTANA, M.H.A. Recovery and Purity of High Molar Mass Bio-hyaluronic Acid Via Precipitation Strategies Modulated by pH and Sodium Chloride. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 188, no. 2, p. 527-539., Registrované v: WOS

40. [1.1] CAVALCANTI, A.D.D. - SANTANA, M.H.A. Structural and surface properties control the recovery and purity of bio-hyaluronic acid upon precipitation with isopropyl alcohol. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2019, vol. 573, p. 112-118., Registrované v: WOS

41. [1.1] CAVALCANTI, A.D.D. - DE MELO, A.G. - FERREIRA, B.A.M. - SANTANA, M.H.A. Performance of the main downstream operations on hyaluronic acid purification. In PROCESS BIOCHEMISTRY. ISSN

- 1359-5113, DEC 2020, vol. 99, p. 160-170., Registrované v: WOS
42. [1.1] DASHTEBAYAZ, M.S.S. - NOURBAKHS, M.S. Interpenetrating networks hydrogels based on hyaluronic acid for drug delivery and tissue engineering. In INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS. ISSN 0091-4037, 2019, vol. 68, no. 8, p. 442-451., Registrované v: WOS
43. [1.1] DE OLIVEIRA, S.A. - DA SILVA, B.C. - RIEGEL-VIDOTTI, I.C. - URBANO, A. - FARIA-TISCHER, P.C.D. - TISCHER, C.A. Production and characterization of bacterial cellulose membranes with hyaluronic acid from chicken comb. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, p. 642-653., Registrované v: WOS
44. [1.1] DE VRIES, S.A.H. - VAN DOESLAAR, M. - KAPER, H.J. - SHARMA, P.K. - ITO, K. Notochordal cell matrix as a bioactive lubricant for the osteoarthritic joint. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, art. no. 8875., Registrované v: WOS
45. [1.1] DEL HOYO-GALLEGO, S. - PEREZ-ALVAREZ, L. - GOMEZ-GALVAN, F. - LIZUNDIA, E. - KURITKA, I. - SEDLARIK, V. - LAZA, J.M. - VILA-VILELA, J.L. Construction of antibacterial poly(ethylene terephthalate) films via layer by layer assembly of chitosan and hyaluronic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 143, p. 35-43., Registrované v: WOS
46. [1.1] DESHKAR, S.S. - SHIROLKAR, S.V. - PATIL, A.T. Vaginal Bioadhesive Drug Delivery Systems and Their Applications. In BIOADHESIVES IN DRUG DELIVERY. 2020, p. 307-369., Registrované v: WOS
47. [1.1] DEVRIENDT, Nausikaa - SERRANO, Goncalo - PAEPE, Dominique - DE ROOSTER, Hilde. Liver function tests in dogs with congenital portosystemic shunts and their potential to determine persistent shunting after surgical attenuation. In VETERINARY JOURNAL. ISSN 1090-0233, JUL 2020, vol. 261., Registrované v: WOS
48. [1.1] DIKER, N. - GULSEVER, S. - KOROGLU, T. - AKCAY, E.Y. - OGUZ, Y. Effects of Hyaluronic Acid and Hydroxyapatite/Beta-tricalcium Phosphate in Combination on Bone Regeneration of a Critical-size Defect in an Experimental Model. In JOURNAL OF CRANIOFACIAL SURGERY. ISSN 1049-2275, 2018, vol. 29, no. 4, p. 1087-1093., Registrované v: WOS
49. [1.1] DO NASCIMENTO, M.H.M. - LOMBELLO, C.B. Hyaluronic acid and chitosan based hydrogels for cartilage tissue engineering. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2016, vol. 26, no. 4, p. 360-370., Registrované v: WOS
50. [1.1] DODERO, A. - WILLIAMS, R. - GAGLIARDI, S. - VICINI, S. - ALLOISIO, M. - CASTELLANO, M. A micro-rheological and rheological study of biopolymers solutions: Hyaluronic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 203, p. 349-355., Registrované v: WOS
51. [1.1] DOS SANTOS, H.F. - CAMPOS, J.F. - DOS SANTOS, C.M. - BALESTIERI, J.B.P. - SILVA, D.B. - CAROLLO, C.A. - SOUZA, K.P. - ESTEVINHO, L.M. - DOS SANTOS, E.L. Chemical profile and antioxidant, anti-inflammatory, antimutagenic and antimicrobial activities of geopropolis from the stingless bee *Melipona orbignyi*. In INTERNATIONAL JOURNAL OF

MOLECULAR SCIENCES. ISSN 1661-6596, 2017, vol. 18, no. 5, art. no. 953.,
Registrované v: WOS

52. [1.1] DYMARSKA, M. - JUROS, W. - JANECKO, T. -
KOSTRZEWA-SUSLOW, E. Use of biotechnological processes for the
production of hyaluronic acid. In PRZEMYSŁ CHEMICZNY. ISSN 0033-2496,
2016, vol. 95, no. 4, p. 817-819., Registrované v: WOS

53. [1.1] DYMARSKA, M. - JUROS, W. - JANECKO, T. -
KOSTRZEWA-SUSLOW, E. Hyaluronic acid. Structure, properties and uses. In
PRZEMYSŁ CHEMICZNY. ISSN 0033-2496, 2016, vol. 95, no. 4, p. 814-816.,
Registrované v: WOS

54. [1.1] D'AMICO, M. - FIORICA, C. - PALUMBO, F.S. -
MILITELLO, V. - LEONE, M. - DUBERTRET, B. - PITARRESI, G. -
GIAMMONA, G. Uptake of silica covered Quantum Dots into living cells: Long
term vitality and morphology study on hyaluronic acid biomaterials. In
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR
BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2016, vol. 67, p. 231-236.,
Registrované v: WOS

55. [1.1] D'AMORA, U. - RONCA, A. - RAUCCI, M.G. - LIN, H. -
SORIENTE, A. - FAN, Y. - ZHANG, X. - AMBROSIO, L. Bioactive composites
based on double network approach with tailored mechanical, physico-chemical,
and biological features. In JOURNAL OF BIOMEDICAL MATERIALS
RESEARCH PART A. ISSN 1549-3296, 2018, vol. 106, no. 12, p. 3079-3089.,
Registrované v: WOS

56. [1.1] EDELMAN, R. - ASSARAF, Y.G. - LEVITZKY, I. -
SHAHAR, T. - LIVNEY, Y.D. Hyaluronic acid-serum albumin conjugate-based
nanoparticles for targeted cancer therapy. In ONCOTARGET. ISSN 1949-2553,
2017, vol. 8, no. 15, p. 24337-24353., Registrované v: WOS

57. [1.1] ELSAID, N. - JACKSON, T.L. - ELSAID, Z. -
ALQATHANIA, A. - SOMAVARAPU, S. PLGA Microparticles Entrapping
Chitosan-Based Nanoparticles for the Ocular Delivery of Ranibizumab. In
MOLECULAR PHARMACEUTICS. ISSN 1543-8384, 2016, vol. 13, no. 9, p.
2923-2940., Registrované v: WOS

58. [1.1] ESLAHI, N. - ABDORAHIM, M. - SIMCHI, A. Smart
polymeric hydrogels for cartilage tissue engineering: A review on the chemistry
and biological functions. In BIOMACROMOLECULES. ISSN 1525-7797, 2016,
vol. 17, no. 11, p. 3441-3463., Registrované v: WOS

59. [1.1] ESMAEILI, A. - RAJAEI, S. The preparation of hyaluronic
acid nanoparticles from Aspicilia lichens using bifido bacteria for help in the
treatment of diabetes in rats in vivo. In PHYTOTHERAPY RESEARCH. ISSN
0951-418X, 2017, vol. 31, no. 10, p. 1590-1599., Registrované v: WOS

60. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. -
VERTUANI, S. Hyaluronic Acid in the Third Millennium. In POLYMERS.
ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701., Registrované v: WOS

61. [1.1] FARRAN, Angeles - CAI, Chao - SANDOVAL, Manuel - XU,
Yongmei - LIU, Jian - HERNANDEZ, Maria J. - LINHARDT, Robert J. Green
Solvents in Carbohydrate Chemistry: From Raw Materials to Fine Chemicals. In
CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 14, pp.
6811-6853., Registrované v: WOS

62. [1.1] FAYAD, S. - NEHME, R. - LANGMAJEROVA, M. - AYELA,
B. - COLAS, C. - MAUNIT, B. - JACQUINET, J.C. - VIBERT, A. -

- LOPIN-BON, C. - GLATZ, Z. - MORIN, P. Hyaluronidase reaction kinetics evaluated by capillary electrophoresis with UV and high-resolution mass spectrometry (HRMS) detection. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2017, vol. 951, p. 140-150., Registrované v: WOS
63. [1.1] FEDERICO, S. - NOCHEL, U. - LOWENBERG, C. - LENDLEIN, A. - NEFFE, A.T. Supramolecular hydrogel networks formed by molecular recognition of collagen and a peptide grafted to hyaluronic acid. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2016, vol. 38, p. 1-10., Registrované v: WOS
64. [1.1] FRIZZIERO, A. - OLIVA, F.V.F. - BERARDI, A. - CECCARELLI, F. - COSTANTINO, C. - FALDINI, C. - FOTI, C. - MASIERO, S. - PORCELLINI, G. - VULPIANI, M.C. - ABATANGELO, G. - MAHMOUD, A. - BUONOCORE, D. - BUDA, R. - DOSSENA, M. - FRIZZIERO, L. - GALLETTI, S. - VIA, A.G. - MEROLLA, G. - MIGLIORE, A. - NICOLETTI, S. - PADOLINO, A. - TERRENI, M. - VALENT, A. - VANNINI, F. - VERRI, M. - VETRANO, M. - BACCIU, S. - BOSSA, M. - CALDERAZZI, F. - CAROLLA, A. I.S.Mu.L.T. hyaluronic acid injections in musculoskeletal disorders guidelines. In *MUSCLES, LIGAMENTS AND TENDONS*. ISSN 2240-4554, 2018, vol. 8, no. 3, p. 364-398., Registrované v: WOS
65. [1.1] FUENZALIDA, Juan P. - GOYCOOLEA, Francisco M. Polysaccharide-Protein Nanoassemblies: Novel Soft Materials for Biomedical and Biotechnological Applications. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2015, vol. 16, no. 2, pp. 89-99., Registrované v: WOS
66. [1.1] FU, X. - SHANG, W.J. - WANG, S.S. - LIU, Y.P. - QU, J.Y. - CHEN, X. - WANG, P.G. - FANG, J.Q. A general strategy for the synthesis of homogeneous hyaluronan conjugates and their biological applications. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 25, p. 3555-3558., Registrované v: WOS
67. [1.1] GAGLIARDI, M. Novel biodegradable nanocarriers for enhanced drug delivery. In *THERAPEUTIC DELIVERY*. ISSN 2041-5990, 2016, vol. 7, no. 12, p. 809-826., Registrované v: WOS
68. [1.1] GALLAGHER, L.B. - DOLAN, E.B. - O'SULLIVAN, J. - LEVEY, R. - CAVANAGH, B.L. - KOVAROVA, L. - PRAVDA, M. - VELEBNY, V. - FARRELL, T. - O'BRIEN, F.J. - DUFFY, G.P. Pre-culture of mesenchymal stem cells within RGD-modified hyaluronic acid hydrogel improves their resilience to ischaemic conditions. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2020, vol. 107, p. 78-90., Registrované v: WOS
69. [1.1] GAMARRA, A. - MUNOZ-GUERRA, S. - DE ILARDUYA, A.M. - THERIEN-AUBIN, H. - LANDFESTER, K. Comblike Ionic Complexes of Hyaluronic Acid and Alkanoylcholine Surfactants as a Platform for Drug Delivery Systems. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 9, p. 3669-3681., Registrované v: WOS
70. [1.1] GAO, P.F. - LIU, Y.X. - ZHANG, L.N. - ZHANG, S.M. - LI, H.W. - WU, Y.Q. - WU, L.X. Cell receptor screening for human papillomavirus invasion by using a polyoxometalate-peptide assembly as a probe. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 514, p. 407-414., Registrované v: WOS
71. [1.1] GARCIA, B. - MERAYO-LLOVES, J. - MARTIN, C. - ALCALDE, I. - QUIROS, L.M. - VAZQUEZ, F. Surface Proteoglycans as

Mediators in Bacterial Pathogens Infections. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, art. no. 220., Registrované v: WOS

72. [1.1] GEBE, J.A. - YADAVA, K. - RUPPERT, S.M. - MARSHALL, P. - HILL, P. - FALK, B.A. - SWEERE, J.M. - HAN, H.W. - KABER, G. - MEDINA, C. - MIKECZ, K. - ZIEGLER, S.F. - BALAJI, S. - KESWANI, S.G. - PEREZ, V.A.D. - BUTTE, M.J. - NADEAU, K. - ALTEMEIER, W.A. - FANGER, N. - BOLLYKY, P.L. Modified high-molecular-weight hyaluronan promotes allergen-specific immune tolerance. In AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. ISSN 1044-1549, 2017, vol. 56, no. 1, p. 109-120., Registrované v: WOS

73. [1.1] GEDIKLI, S. - GUNGOR, G. - TOPTAS, Y. - SEZGIN, D.E. - DEMIRBILEK, M. - YAZIHAN, N. - CELIK, P.A. - DENKBAS, E.B. - BUTUN, V. - CABUK, A. Optimization of hyaluronic acid production and its cytotoxicity and degradability characteristics. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2018, vol. 48, no. 7, p. 610-618., Registrované v: WOS

74. [1.1] GE, J. - CAI, R. - YANG, L. - ZHANG, L. - JIANG, Y. - YANG, Y. - CUI, C. - WAN, S. - CHU, X. - TAN, W. Core-Shell HA-AuNPs@SiNPs Nanoprobe for Sensitive Fluorescence Hyaluronidase Detection and Cell Imaging. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 12, p. 16555-16562., Registrované v: WOS

75. [1.1] GHODKE, R.S. - KAKATI, J.P. - TADI, S.R.R. - MOHAN, N. - SIVAPRAKASAM, S. Kinetic modeling of hyaluronic acid production in palmyra palm (*Borassus flabellifer*) based medium by *Streptococcus zooepidemicus* MTCC 3523. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 137, p. 284-293., Registrované v: WOS

76. [1.1] GIUBERTONI, G. - BURLA, F. - MARTINEZ-TORRES, C. - DUTTA, B. - PLETIKAPIC, G. - PELAN, E. - REZUS, Y.L.A. - KOENDERINK, G.H. - BAKKER, H.J. Molecular Origin of the Elastic State of Aqueous Hyaluronic Acid. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2019, vol. 123, no. 14, p. 3043-3049., Registrované v: WOS

77. [1.1] GIUBERTONI, G. - KOENDERINK, G.H. - BAKKER, H.J. Direct Observation of intrachain Hydrogen Bonds in Aqueous Hyaluronan. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2019, vol. 123, no. 38, p. 8220-8225., Registrované v: WOS

78. [1.1] GOMES, A.M.V. - NETTO, J.H.C.M. - CARVALHO, L.S. - PARACHIN, N.S. Heterologous Hyaluronic Acid Production in *Kluyveromyces lactis*. In MICROORGANISMS. eISSN: 2076-2607, 2019, vol. 7, no. 9, art. no. 294., Registrované v: WOS

79. [1.1] GRABOWSKA, K. - PODOLAK, I. - GALANTY, A. - ZALUSKI, D. - MAKOWSKA-WAS, J. - SOBOLEWSKA, D. - JANECZKO, Z. - ZMUDZKI, P. In vitro anti-denaturation and anti-hyaluronidase activities of extracts and galactolipids from leaves of *Impatiens parviflora* DC. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2016, vol. 30, no. 10, p. 1219-1223., Registrované v: WOS

80. [1.1] GROSSUTTI, M. - DUTCHER, J.R. Correlation Between Chain Architecture and Hydration Water Structure in Polysaccharides. In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 3, p.

1198-1204., Registrované v: WOS

81. [1.1] GROSSUTTI, M. - DUTCHER, J.R. Hydration Water Structure, Hydration Forces, and Mechanical Properties of Polysaccharide Films. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 12, p. 4871-4877., Registrované v: WOS

82. [1.1] GRUNDELOVA, Lenka - GREGOROVA, Adriana - MRACEK, Ales - VICHA, Robert - SMOLKA, Petr - MINARIK, Antonin. Viscoelastic and mechanical properties of hyaluronan films and hydrogels modified by carbodiimide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 119, no., pp. 142-148., Registrované v: WOS

83. [1.1] GUNGOR, G. - GEDIKLI, S. - TOPTAS, Y. - AKGUN, D.E. - DEMIRBILEK, M. - YAZIHAN, N. - CELIK, P.A. - DENKBAS, E.B. - CABUK, A. Bacterial hyaluronic acid production through an alternative extraction method and its characterization. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2019, vol. 94, no. 6, p. 1843-1852., Registrované v: WOS

84. [1.1] GUTER, M. - BREUNIG, M. Hyaluronan as a promising excipient for ocular drug delivery. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2017, vol. 113, p. 34-49., Registrované v: WOS

85. [1.1] GUZINSKA, K. - KAZMIERCZAK, D. - DYMEL, M. - PABJANCZYK-WLAZLO, E. - BOGUN, M. Anti-bacterial materials based on hyaluronic acid: Selection of research methodology and analysis of their anti-bacterial properties. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2018, vol. 93, p. 800-808., Registrované v: WOS

86. [1.1] HACKER, M.C. - NAWAZ, H.A. Multi-Functional Macromers for Hydrogel Design in Biomedical Engineering and Regenerative Medicine. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2015, vol. 16, no. 11, p. 27677-27706., Registrované v: WOS

87. [1.1] HADIDI, M. - BUCKLEY, J.J. - ZYDNEY, A.L. Effect of electrostatic interactions on the ultrafiltration behavior of charged bacterial capsular polysaccharides. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2016, vol. 32, no. 6, p. 1531-1538., Registrované v: WOS

88. [1.1] HANN, S.Y. - CUI, H.T. - ESWORTHY, T. - MIAO, S.D. - ZHOU, X. - LEE, S.J. - FISHER, J.P. - ZHANG, L.G. Recent advances in 3D printing: vascular network for tissue and organ regeneration. In TRANSLATIONAL RESEARCH. ISSN 1931-5244, 2019, vol. 211, p. 46-63., Registrované v: WOS

89. [1.1] HAN, Y.J. - OUYANG, J. - LI, Y.Z. - WANG, F.L. - JIANG, J.H. Engineering H₂O₂ Self-Supplying Nanotheranostic Platform for Targeted and Imaging-Guided Chemodynamic Therapy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 1, p. 288-297., Registrované v: WOS

90. [1.1] HARIDAS, N. - ROSEMARY, M.J. Effect of steam sterilization and biocompatibility studies of hyaluronic acid hydrogel for viscosupplementation. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2019, vol. 163, p. 220-227., Registrované v: WOS

91. [1.1] HENRY, L. - DELSUC, N. - LAUGEL, C. - LAMBERT, F. - SANDT, C. - HOSTACHY, S. - BERNARD, A.S. - BERTRAND, H.C. -

- GRIMAUD, L. - BAILLET-GUFFROY, A. - POLICAR, C. Labeling of Hyaluronic Acids with a Rhenium-tricarbonyl Tag and Percutaneous Penetration Studied by Multimodal imaging. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2018, vol. 29, no. 4, p. 987-991., Registrované v: WOS
92. [1.1] HOU, K.-T. - CHANG, S.-J. - CHEN, S.-Y. Magnetic amphiphilic gelatin microcapsules for cartilage tissue engineering.(Conference Paper). In 2017 IEEE 17th International Conference on Nanotechnology, NANO 201721. Pittsburgh, 2017, art. no. 8117425, p. 999-1002. ISBN 978-150903028-6, Registrované v: WOS
93. [1.1] HUANG TENG-LE - YANG SHU-HUA - CHEN YI-RU - LIAO JO-YU - TANG YUN - YANG KAI-CHIANG. The therapeutic effect of aucubin-supplemented hyaluronic acid on interleukin-1beta-stimulated human articular chondrocytes. In PHYTOMEDICINE. ISSN 0944-7113, 2019, vol. 53, p. 1-8., Registrované v: WOS
94. [1.1] HUANG, H. - LIANG, Q.X. - WANG, Y. - CHEN, J. - KANG, Z. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant *Pichia pastoris*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, p. 1621-1632., Registrované v: WOS
95. [1.1] HUANG, J. - QIU, X. - XIE, L. - JAY, G.D. - SCHMIDT, T.A. - ZENG, H. Probing the Molecular Interactions and Lubrication Mechanisms of Purified Full-Length Recombinant Human Proteoglycan 4 (rhPRG4) and Hyaluronic Acid (HA). In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 2, p. 1056-1067., Registrované v: WOS
96. [1.1] HUYNH, A. - PRIEFER, R. Hyaluronic acid applications in ophthalmology, rheumatology, and dermatology. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 489, art. no. 107950., Registrované v: WOS
97. [1.1] HU, D.R. - MEZGHRANI, O. - ZHANG, L. - CHEN, Y. - KE, X. - CI, T.Y. GE11 peptide modified and reduction-responsive hyaluronic acid-based nanoparticles induced higher efficacy of doxorubicin for breast carcinoma therapy. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2016, vol. 11, p. 5125-5147., Registrované v: WOS
98. [1.1] CHAHUKI, F.F. - AMINZADEH, S. - JAFARIAN, V. - TABANDEH, F. - KHODABANDEH, M. Hyaluronic acid production enhancement via genetically modification and culture medium optimization in *Lactobacillus acidophilus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, p. 870-881., Registrované v: WOS
99. [1.1] CHANG, Wan-Hsin - LIU, Pei-Yi - JIANG, Yuan-Ting - HSU, Yuan-Hao Howard. A Sensitive Chromatographic Method for Hyaluronate Quantification Applied to Analyze the Desorption Behavior on Contact Lenses. In CURRENT PHARMACEUTICAL ANALYSIS. ISSN 1573-4129, 2020, vol. 16, no. 6, p. 782-791., Registrované v: WOS
100. [1.1] CHAUDHARI, A.A. - VIG, K. - BAGANIZI, D.R. - SAHU, R. - DIXIT, S. - DENNIS, V. - SINGH, S.R. - PILLAI, S.R. Future prospects for scaffolding methods and biomaterials in skin tissue engineering. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2016, vol. 17, no. 12, art. no. 1974., Registrované v: WOS
101. [1.1] CHENG, F.Y. - YU, H.M. - STEPHANOPOULOS, G.

- Engineering *Corynebacterium glutamicum* for high-titer biosynthesis of hyaluronic acid. In *METABOLIC ENGINEERING*. ISSN 1096-7176, 2019, vol. 55, p. 276-289., Registrované v: WOS
102. [1.1] CHEN, F.M. - LIU, X. Advancing biomaterials of human origin for tissue engineering. In *PROGRESS IN POLYMER SCIENCE*. ISSN 0079-6700, 2016, vol. 53, p. 86-168., Registrované v: WOS
103. [1.1] CHEN, K.L. - YEH, Y.Y. - LUNG, J. - YANG, Y.C. - YUAN, K. Mineralization Effect of Hyaluronan on Dental Pulp Cells via CD44. In *JOURNAL OF ENDODONTICS*. ISSN 0099-2399, 2016, vol. 42, no. 5, p. 711-716., Registrované v: WOS
104. [1.1] CHMIELECKA-RUTKOWSKA, J. - TOMASIK, B. - PIETRUSZEWSKA, W. The role of oral formulation of hyaluronic acid and chondroitin sulphate for the treatment of the patients with laryngopharyngeal reflux. In *POLISH JOURNAL OF OTOLARYNGOLOGY*. ISSN 0030-6657, 2019, vol. 73, no. 6, p. 37-48., Registrované v: WOS
105. [1.1] CHOI, Jae-Hyeok - KIM, Seong-Oh - LINARDY, Eric - DREADEN, Erik C. - ZHDANOV, Vladimir P. - HAMMOND, Paula T. - CHO, Nam-Joon. Adsorption of hyaluronic acid on solid supports: Role of pH and surface chemistry in thin film self-assembly. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2015, vol. 448, no., pp. 197-207., Registrované v: WOS
106. [1.1] CHOI, Y. - PARK, M.H. - LEE, K. Tissue Engineering Strategies for Intervertebral Disc Treatment Using Functional Polymers. In *POLYMERS*. eISSN 2073-4360 2019, vol. 11, no. 5, art. no. 872., Registrované v: WOS
107. [1.1] CHOI, Y.H. - KIM, S.H. - KIM, I.G. - LEE, J.H. - KWON, S.K. Injectable basic fibroblast growth factor-loaded alginate/hyaluronic acid hydrogel for rejuvenation of geriatric larynx. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2019, vol. 89, p. 104-114., Registrované v: WOS
108. [1.1] IBRAHIM, M.S. - EL-WASSEFY, N.A. - FARAHAT, D.S. Biocompatibility of dental biomaterials. In Tayebi, L. Moharamzadeh, K. eds. *BIOMATERIALS FOR ORAL AND DENTAL TISSUE ENGINEERING*. Book Series: Woodhead Publishing Series in Biomaterials. Woodhead publ., Cambridge, England, 2017, p. 117-140. ISSN 2049-9485, ISBN:978-0-08-100967-3; 978-0-08-100961-1., Registrované v: WOS
109. [1.1] IBRAHIM, M.S. - EL-WASSEFY, N.A. - FARAHAT, D.S. Injectable Gels for Dental and Craniofacial Applications. In *APPLICATIONS OF BIOMEDICAL ENGINEERING IN DENTISTRY*. ISBN:978-3-030-21583-5; 978-3-030-21582-8, 2020, p. 359-375., Registrované v: WOS
110. [1.1] INAGAKI, Y. - FUJIOKA, M. - KANZAKI, S. - WATANABE, K. - OISHI, N. - ITAKURA, G. - YASUDA, A. - SHIBATA, S. - NAKAMURA, M. - OKANO, H.J. - OKANO, H. - OGAWA, K. Sustained Effect of Hyaluronic Acid in Subcutaneous Administration to the Cochlear Spiral Ganglion. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 4, arti. no. e0153957., Registrované v: WOS
111. [1.1] JAIN, S.K. - TIWARI, A. - JAIN, A. - VERMA, A. - SARAF, S. - PANDA, P.K. - GOUR, G. Application Potential of Polymeric Nanoconstructs for Colon-Specific Drug Delivery. In *MULTIFUNCTIONAL NANOCARRIERS FOR CONTEMPORARY HEALTHCARE*

- APPLICATIONS. ISSN 2327-9354, 2018, p. 22-49., Registrované v: WOS
112. [1.1] JAMPILEK, J. - KRALOVA, K. Application of Nanobioformulations for controlled release and targeted biodistribution of drugs. In Sharma, A.K. et al. eds. NANOBIO MATERIALS: APPLICATIONS IN DRUG DELIVERY. Oakville: Apple Acad. Press, 2018, p. 131-208. ISBN 978-1-315-20491-8; 978-1-77188-591-1., Registrované v: WOS
113. [1.1] JAYMAND, M. Chemically Modified Natural Polymer-Based Theranostic Nanomedicines: Are They the Golden Gate toward a de Novo Clinical Approach against Cancer?. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2020, vol. 6, no. 1, p. 134-166., Registrované v: WOS
114. [1.1] JIANG, T. - XIE, Z. - WU, F. - CHEN, J. - LIAO, Y. - LIU, L. - ZHAO, A. - WU, J. - YANG, P. - HUANG, N. Hyaluronic Acid Nanoparticle Composite Films Confer Favorable Time-Dependent Biofunctions for Vascular Wound Healing. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2019, vol. 5, no. 4, p. 1833-1848., Registrované v: WOS
115. [1.1] JIN, P. - KANG, Z. - YUAN, P. - DU, G. - CHEN, J. Production of specific-molecular-weight hyaluronan by metabolically engineered *Bacillus subtilis* 168. In METABOLIC ENGINEERING. ISSN 1096-7176, 2016, vol. 35, p. 21-30., Registrované v: WOS
116. [1.1] KALE, N.R. - DUTTA, D. - CARSTENS, W. - MALLIK, S. - QUADIR, M. Functional Applications of Polyarginine-Hyaluronic Acid-Based Electrostatic Complexes. In BIOELECTRICITY. ISSN 2576-3105, JUN 1 2020, vol. 2, no. 2, p. 158-166., Registrované v: WOS
117. [1.1] KALKANDELEN, C. - SU, S.N. - SAATCIOGLU, E. - GUNDUZ, O. HYALURONIC ACID PRODUCTION AND ANALYSIS FROM ROOSTER COMB. In 2020 MEDICAL TECHNOLOGIES CONGRESS (TIPTEKNO). 2020., Registrované v: WOS
118. [1.1] KAMALY, N. - YAMEEN, B. - WU, J. - FAROKHZAD, O.C. Degradable Controlled-Release Polymers and Polymeric Nanoparticles: Mechanisms of Controlling Drug Release. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 4, SI, p. 2602-2663., Registrované v: WOS
119. [1.1] KAMAL, A. Multifunctional Nanocarriers for Contemporary Healthcare Applications Foreword. In MULTIFUNCTIONAL NANOCARRIERS FOR CONTEMPORARY HEALTHCARE APPLICATIONS. ISSN 2327-9354, 2018, p. XVI+., Registrované v: WOS
120. [1.1] KANG, Z. - LIU, L. - LIU, S. MICROBIAL PRODUCTION OF HYALURONIC ACID Current State, Challenges, and Perspectives. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE. ISBN:978-1-4987-1878-3; 978-1-4987-1877-6, 2018, p. 21-42., Registrované v: WOS
121. [1.1] KARKAN, S.F. - DAVARAN, S. - RAHBARGHAZI, R. - SALEHI, R. - AKBARZADEH, A. Electrospun nanofibers for the fabrication of engineered vascular grafts. In JOURNAL OF BIOLOGICAL ENGINEERING. ISSN 1754-1611, 2019, vol. 13, no. 1, art. no. 83., Registrované v: WOS
122. [1.1] KASIEWICZ, L.N. - WHITEHEAD, K.A. Recent advances in biomaterials for the treatment of diabetic foot ulcers. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2017, vol. 5, no. 10, p. 1962-1975., Registrované v: WOS

123. [1.1] KATSUMI, H. - TANAKA, Y. - HITOMI, K. - LIU, S. - QUAN, Y.-S. - KAMIYAMA, F. - SAKANE, T. - YAMAMOTO, A. Efficient transdermal delivery of alendronate, a nitrogen-containing bisphosphonate, using tip-loaded self-dissolving microneedle arrays for the treatment of osteoporosis. In PHARMACEUTICS. ISSN 1999-4923, 2017, vol. 9, no. 3, art. no. 29., Registrované v: WOS
124. [1.1] KELKAR, S.S. - HILL, T.K. - MARINI, F.C. - MOHS, A.M. Near infrared fluorescent nanoparticles based on hyaluronic acid: Self-assembly, optical properties, and cell interaction. In ACTA BIOMATERIALIA. ISSN 1742-7061, MAY 2016, vol. 36, p. 112-121., Registrované v: WOS
125. [1.1] KHALEGHI, M. - AHMADI, E. - SHAHRAKI, M.K. - ALIAKBARI, F. - MORSHEDI, D. Temperature-dependent formulation of a hydrogel based on Hyaluronic acid-polydimethylsiloxane for biomedical applications. In HELIYON. ISSN 2405-8440, 2020, vol. 6, no. 3, art. no. e03494., Registrované v: WOS
126. [1.1] KHANLARI, Anahita - SCHULTEIS, Jason E. - SUEKAMA, Tiffany C. - DETAMORE, Michael S. - GEHRKE, Stevin H. Designing crosslinked hyaluronic acid hydrogels with tunable mechanical properties for biomedical applications. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 22, pp., Registrované v: WOS
127. [1.1] KHANLARI, Anahita - SUEKAMA, Tiffany C. - GEHRKE, Stevin H. Structurally Versatile Glycosaminoglycan Hydrogels for Biomedical Applications. In MACROMOLECULAR SYMPOSIA. ISSN 1022-1360, 2015, vol. 358, no. 1, pp. 67-77., Registrované v: WOS
128. [1.1] KHEIRABADI, Malihe - SHI, Liyang - BAGHERI, Reza - KABIRI, Kourosh - HILBORN, Joens - OSSIPOV, Dmitri A. In situ forming interpenetrating hydrogels of hyaluronic acid hybridized with iron oxide nanoparticles. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2015, vol. 3, no. 11, pp. 1466-1474., Registrované v: WOS
129. [1.1] KIM, E.C. - YOON, S.J. - NOH, K. - LEE, D.W. Dual effect of curcumin/ BMP-2 loaded in HA/PLL hydrogels on osteogenesis in vitro and in vivo. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, 2017, vol. 17, no. 1, p. 143-152., Registrované v: WOS
130. [1.1] KIM, H. - JEONG, H. - HAN, S. - BEACK, S. - HWANG, B.W. - SHIN, M. - OH, S.S. - HAHN, S.K. Hyaluronate and its derivatives for customized biomedical applications. In BIOMATERIALS. ISSN 0142-9612, 2017, vol. 123, p. 155-171., Registrované v: WOS
131. [1.1] KIM, H. - SHIN, M. - HAN, S. - KWON, W. - HAHN, S.K. Hyaluronic Acid Derivatives for Translational Medicines. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 8, p. 2889-2903., Registrované v: WOS
132. [1.1] KIM, J.E. - YIM, D. - HAN, S.W. - NAM, J. - KIM, J.H. - KIM, J.W. Effective Suppression of Oxidative Stress on Living Cells in Hydrogel Particles Containing a Physically Immobilized WS2 Radical Scavenger. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 20, p. 18817-18824., Registrované v: WOS
133. [1.1] KIM, J.S. - IN, C.H. - PARK, N.J. - KIM, B.J. - YOON, H.S. Comparative study of rheological properties and preclinical data of porous polycaprolactone microsphere dermal fillers. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, 2020, vol. 19, no. 3, p. 596-604.,

Registrované v: WOS

134. [1.1] KIM, S. - JANG, Y. - JANG, L.K. - SUNWOO, S.H. - KIM, T.I. - CHO, S.W. - LEE, J.Y. Electrochemical deposition of dopamine-hyaluronic acid conjugates for anti-biofouling bioelectrodes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2017, vol. 5, no. 23, p. 4507-4513., Registrované v: WOS

135. [1.1] KIM, S.W. - KIM, D.Y. - ROH, H.H. - KIM, H.S. - LEE, J.W. - LEE, K.Y. Three-Dimensional Bioprinting of Cell-Laden Constructs Using Polysaccharide-Based Self-Healing Hydrogels. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 5, p. 1860-1866., Registrované v: WOS

136. [1.1] KIM, W.K. - CHOI, J.H. - SHIN, M.E. - KIM, J.W. - KIM, P.Y. - KIM, N. - SONG, J.E. - KHANG, G. Evaluation of cartilage regeneration of chondrocyte encapsulated gellan gum-based hyaluronic acid blended hydrogel. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 141, p. 51-59., Registrované v: WOS

137. [1.1] KIM, Y.C. - OH, K.H. - EDELHAUSER, H.F. - PRAUSNITZ, M.R. Formulation to target delivery to the ciliary body and choroid via the suprachoroidal space of the eye using microneedles. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2015, vol. 95, B, p. 398-406., Registrované v: WOS

138. [1.1] KNOPF-MARQUES, H. - PRAVDA, M. - WOLFOVA, L. - VELEBNY, V. - SCHAAF, P. - VRANA, N.E. - LAVALLE, P. Hyaluronic acid and its derivatives in coating and delivery systems: Applications in tissue engineering, regenerative medicine and immunomodulation. In Advanced Healthcare Materials. ISSN 2192-2640, 2016, vol. 5, no. 22, p. 2841-2855., Registrované v: WOS

139. [1.1] KOH, J.B.Y. - SHEN, X.H. - MARCOS. Theoretical modeling in microscale locomotion. In MICROFLUIDICS AND NANOFUIDICS. ISSN 1613-4982, 2016, vol. 20, no. 7, art. no. 98., Registrované v: WOS

140. [1.1] KOROGIANNAKI, M. - JONES, L. - SHEARDOWN, H. Impact of a Hyaluronic Acid-Grafted Layer on the Surface Properties of Model Silicone Hydrogel Contact Lenses. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 4, p. 950-961., Registrované v: WOS

141. [1.1] KOROGIANNAKI, M. - ZHANG, J.F. - SHEARDOWN, H. Surface modification of model hydrogel contact lenses with hyaluronic acid via thiol-ene "click" chemistry for enhancing surface characteristics. In JOURNAL OF BIOMATERIALS APPLICATIONS. ISSN 0885-3282, 2017, vol. 32, no. 4, p. 446-462., Registrované v: WOS

142. [1.1] KOWITSCH, A. - ZHOU, G.Y. - GROTH, T. Medical application of glycosaminoglycans: a review. In JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE. ISSN 1932-6254, 2018, vol. 12, no. 1, p. E23-E41., Registrované v: WOS

143. [1.1] KO, Eun Seok - KIM, Choongu - CHOI, Youngtae - LEE, Kuen Yong. 3D printing of self-healing ferrogel prepared from glycol chitosan, oxidized hyaluronate, and iron oxide nanoparticles. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, OCT 1 2020, vol. 245., Registrované v: WOS

144. [1.1] KRAWCZYK, T. - ZALEWSKI, M. - JANETA, A. - HODUREK, P. SEC Separation of Polysaccharides Using Macroporous Spherical Silica Gel as a Stationary Phase. In CHROMATOGRAPHIA. ISSN 0009-5893, 2018, vol. 81, no. 10, p. 1365-1372., Registrované v: WOS

145. [1.1] KRISHNA, A.S. - RADHAKUMARY, C. - SREENIVASAN, K. Calcium ion modulates protein release from chitosan-hyaluronic acid poly electrolyte gel. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2015, vol. 55, no. 9, p. 2089-2097., Registrované v: WOS
146. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 1837-1843., Registrované v: WOS
147. [1.1] KUMAR, Suneel - KANG, Hwan June - BERTHIAUME, Francois. Scaffolds for epidermal tissue engineering. In HANDBOOK OF TISSUE ENGINEERING SCAFFOLDS, VOL 2. ISSN 2049-9485, 2019, p. 173-191., Registrované v: WOS
148. [1.1] KUMMARA, M.R. - KUMAR, A. - SOO, H.S. Development of antibacterial paper coated with sodium hyaluronate stabilized curcumin-Ag nanohybrid and chitosan via polyelectrolyte complexation for medical applications. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2017, vol. 4, no. 11, art. no. 115401., Registrované v: WOS
149. [1.1] KUPIKOWSKA-STOBBA, B. - LEWINSKA, D. Polymer microcapsules and microbeads as cell carriers for in vivo biomedical applications. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 6, p. 1536-1574., Registrované v: WOS
150. [1.1] KUSS, Mitchell - DUAN, Bin. Extrusion-based Bioprinting. In BIOFABRICATION AND 3D TISSUE MODELING. ISSN 2397-1401, 2019, vol. 3, p. 22-48., Registrované v: WOS
151. [1.1] KWON, M.Y. - WANG, C. - GALARRAGA, J.H. - PURE, E. - HAN, L. - BURDICK, J.A. Influence of hyaluronic acid modification on CD44 binding towards the design of hydrogel biomaterials. In BIOMATERIALS. ISSN 0142-9612, 2019, vol. 222, art. no. UNSP 119451., Registrované v: WOS
152. [1.1] LEE, C. - YANG, H. - KIM, S. - KIM, M. - KANG, H. - KIM, N. - AN, S. - KOH, J. - JUNG, H. Evaluation of the anti-wrinkle effect of an ascorbic acid-loaded dissolving microneedle patch via a double-blind, placebo-controlled clinical study. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2016, vol. 38, no. 4, p. 375-381., Registrované v: WOS
153. [1.1] LEE, J.S. - KIM, S.K. - CHA, J.K. - JUNG, B.J. - CHOI, S.B. - CHOI, E.Y. - KIM, C.S. Novel Technique for Isolating Human Bone Marrow Stem Cells Using Hyaluronic Acid Hydrogel. In TISSUE ENGINEERING PART C-METHODS. ISSN 1937-3384, 2016, vol. 22, no. 10, p. 941-951., Registrované v: WOS
154. [1.1] LEE, M. - KIM, Y. - RYU, J.H. - KIM, K. - HAN, Y.M. - LEE, H. Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2016, vol. 32, p. 138-148., Registrované v: WOS
155. [1.1] LEE, S. - LEE, Y. - KIM, E.M. - NAM, K.W. - CHOI, I. Aqueous-Phase Synthesis of Hyaluronic Acid-Based Hydrogel Nanoparticles for Molecular Storage and Enzymatic Release. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, 2020, vol. 2, no. 2, p. 342-350., Registrované v: WOS

156. [1.1] LIU, J. - WANG, Y. - LI, Z. - REN, Y. - ZHAO, Y. - ZHAO, G. Efficient production of high-molecular-weight hyaluronic acid with a two-stage fermentation. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 63, p. 36167-36171., Registrované v: WOS
157. [1.1] LIU, S. - DU, G.C. - CHEN, J. - ZHU, Y. HISTORY AND DEVELOPMENTS IN FUNCTIONAL CARBOHYDRATES. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE. ISBN:978-1-4987-1878-3; 978-1-4987-1877-6, 2018, p. 1-19., Registrované v: WOS
158. [1.1] LIU, Y.N. - FAN, D.D. Novel hyaluronic acid-tyrosine/collagen-based injectable hydrogels as soft filler for tissue engineering. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 141, p. 700-712., Registrované v: WOS
159. [1.1] LI, F. - HAO, P. - LIU, G.J. - WANG, W.Y. - HAN, R.F. - JIANG, Z.X. - LI, X. Effects of 4-methylumbelliferone and high molecular weight hyaluronic acid on the inflammation of corneal stromal cells induced by LPS. In GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY. ISSN 0721-832X, 2017, vol. 255, no. 3, p. 559-566., Registrované v: WOS
160. [1.1] LI, H.Y. - XUE, Y.H. - JIA, B. - BAI, Y. - ZUO, Y.Y. - WANG, S.G. - ZHAO, Y.Y. - YANG, W.Z. - TANG, H.B. The preparation of hyaluronic acid grafted pullulan polymers and their use in the formation of novel biocompatible wound healing film. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 188, p. 92-100., Registrované v: WOS
161. [1.1] LI, J.H. - WU, C.T. - CHU, P.K. - GELINSKY, M. 3D printing of hydrogels: Rational design strategies and emerging biomedical applications. In MATERIALS SCIENCE & ENGINEERING R-REPORTS. ISSN 0927-796X, 2020, vol. 140, art. no. UNSP 100543., Registrované v: WOS
162. [1.1] LI, R. - CAI, Z. - LI, Z. - ZHANG, Q. - ZHANG, S. - DENG, L. - LU, L. - LI, L. - ZHOU, C. Synthesis of in-situ formable hydrogels with collagen and hyaluronan through facile Michael addition. In MATERIALS SCIENCE AND ENGINEERING C. ISSN 0928-4931, 2017, vol. 77, p. 1035-1043., Registrované v: WOS
163. [1.1] LI, W. - LONG, X. - JIANG, S. - LI, Y. - FANG, W. Histamine and substance P in synovial fluid of patients with temporomandibular disorders. In JOURNAL OF ORAL REHABILITATION. ISSN 0305-182X, 2015, vol. 42, no. 5, pp. 363-369., Registrované v: WOS
164. [1.1] LI, Z. - ZHENG, Z. - SU, S. - YU, L. - WANG, X.L. Preparation of a High-Strength Hydrogel with Slidable and Tunable Potential Functionalization Sites. In MACROMOLECULES. ISSN 0024-9297, 2016, vol. 49, no. 1, p. 373-386., Registrované v: WOS
165. [1.1] LUO, Z. - WU, Y.L. - LI, Z.B. - LOH, X.J. Recent Progress in Polyhydroxyalkanoates-Based Copolymers for Biomedical Applications. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 12, SI, art. no. 1900283., Registrované v: WOS
166. [1.1] LU, J.J. - GUAN, F.Y. - CUI, F.Z. - SUN, X.D. - ZHAO, L.Y. - WANG, Y. - WANG, X.M. Enhanced angiogenesis by the hyaluronic acid hydrogels immobilized with a VEGF mimetic peptide in a traumatic brain injury

- model in rats. In REGENERATIVE BIOMATERIALS. ISSN 2056-3418, 2019, vol. 6, no. 6, p. 325-334., Registrované v: WOS
167. [1.1] LV, M.X. - WANG, M. - CAI, W.W. - HAO, W.X. - YUAN, P.H. - KANG, Z. Characterisation of separated end hyaluronan oligosaccharides from leech hyaluronidase and evaluation of angiogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, p. 309-316., Registrované v: WOS
168. [1.1] MALLICK, S. - BEYENE, Z. - SUMAN, D.K. - MADHUAL, A. - SINGH, B.N. - SRIVASTAVA, P. Strategies towards Orthopaedic Tissue Engineered Graft Generation: Current Scenario and Application. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2019, vol. 24, no. 6, p. 854-869., Registrované v: WOS
169. [1.1] MARAIS, Andrew - PENDERGRAPH, Samuel - WAGBERG, Lars. Nanometer-Thick Hyaluronic Acid Self-Assemblies with Strong Adhesive Properties. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 28, pp. 15143-15147., Registrované v: WOS
170. [1.1] MATHA, K. - LOLLO, G. - TAURINO, G. - RESPAUD, R. - MARIGO, I. - SHARIATI, M. - BUSSOLATI, O. - VERMEULEN, A. - REMAUT, K. - BENOIT, J.P. Bioinspired hyaluronic acid and polyarginine nanoparticles for DACHPt delivery. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 150, p. 1-13., Registrované v: WOS
171. [1.1] MATTHEOLABAKIS, George - MILANE, Lara - SINGH, Amit - AMIJI, Mansoor M. Hyaluronic acid targeting of CD44 for cancer therapy: from receptor biology to nanomedicine. In JOURNAL OF DRUG TARGETING. ISSN 1061-186X, 2015, vol. 23, no. 7-8, pp. 605-618., Registrované v: WOS
172. [1.1] MAUDENS, P. - MEYER, S. - SEEMAYER, C.A. - JORDAN, O. - ALLEMANN, E. Self-assembled thermoresponsive nanostructures of hyaluronic acid conjugates for osteoarthritis therapy. In NANOSCALE. ISSN 2040-3364, 2018, vol. 10, no. 4, p. 1845-1854., Registrované v: WOS
173. [1.1] MCMAHON, S. - KENNEDY, R. - DUFFY, P. - VASQUEZ, J.M. - WALL, J.G. - TAI, H.Y. - WANG, W.X. Poly(ethylene glycol)-based hyperbranched polymer from RAFT and its application as a silver-sulfadiazine-loaded antibacterial hydrogel in wound care. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 40, p. 26648-26656., Registrované v: WOS
174. [1.1] MELE, E. Electrospinning of natural polymers for advanced wound care: towards responsive and adaptive dressings. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2016, vol. 4, no. 28, p. 4801-4812., Registrované v: WOS
175. [1.1] MENDEZ, P.A. - ORTIZ, B.L. - VASQUEZ, G.M. - LOPEZ, B.L. Mucoadhesive chitosan/OA nanoparticles charged with celecoxib inhibit prostaglandin E2 LPS-induced in U937 cell line. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 37, art. no. 45288., Registrované v: WOS
176. [1.1] MIRANDA, C.S. - RIBEIRO, A.R.M. - HOMEM, N.C. - FELGUEIRAS, H.P. Spun Biotextiles in Tissue Engineering and Biomolecules Delivery Systems. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 4, art. no. 174., Registrované v: WOS

177. [1.1] MISTRY, N. - MOSKOW, J. - SHELKE, N.B. - YADAV, S. - BERG-FOELS, W.S.V. - KUMBAR, S.G. Bio-Instructive Scaffolds for Cartilage Regeneration. In Brown, J.L. et al. eds. BIO-INSTRUCTIVE SCAFFOLDS FOR MUSCULOSKELETAL TISSUE ENGINEERING AND REGENERATIVE MEDICINE. Academic Press LTD-Elsevier Science, 2017, p. 115-135. ISBN 978-0-12-803399-9; 978-0-12-803394-4., Registrované v: WOS
178. [1.1] MOHANDAS, Annapoorna - ANISHA, B. S. - CHENNAZHI, K. P. - JAYAKUMAR, R. Chitosan-hyaluronic acid/VEGF loaded fibrin nanoparticles composite sponges for enhancing angiogenesis in wounds. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2015, vol. 127, no., pp. 105-113., Registrované v: WOS
179. [1.1] MOLLIARD, S.G. - ALBERT, S. - MONDON, K. Key importance of compression properties in the biophysical characteristics of hyaluronic acid soft-tissue fillers. In JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS. ISSN 1751-6161, 2016, vol. 61, p. 290-298., Registrované v: WOS
180. [1.1] MONKARE, J. - NEJADNIK, M.R. - BACCOUCHE, K. - ROMEIJN, S. - JISKOOT, W. - BOUWSTRA, J.A. IgG-loaded hyaluronan-based dissolving microneedles for intradermal protein delivery. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2015, vol. 218, p. 53-62., Registrované v: WOS
181. [1.1] MOSCOVICI, M. Present and future medical applications of microbial exopolysaccharides. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, article number 1012., Registrované v: WOS
182. [1.1] MUTO, J. - SAYAMA, K. - GALLO, R.L. - KIMATA, K. Emerging evidence for the essential role of hyaluronan in cutaneous biology. In JOURNAL OF DERMATOLOGICAL SCIENCE. ISSN 0923-1811, 2019, vol. 94, no. 1, p. 190-195., Registrované v: WOS
183. [1.1] NAPAVIDICHAYANUN, S. - ARAMWIT, P. Effect of animal products and extracts on wound healing promotion in topical applications: a review. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2017, vol. 28, no. 8, p. 703-729., Registrované v: WOS
184. [1.1] NASCIMENTO, L.G.L. - CASANOVA, F. - SILVA, N.F.N. - TEIXEIRA, A.V.N.D. - DE CARVALHO, A.F. Casein-based hydrogels: A mini-review. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 314, art. no. 126063., Registrované v: WOS
185. [1.1] NAVEEN, Chella - SHASTRI, Nalini R. Polysaccharide nanomicelles as drug carriers. In POLYSACCHARIDE CARRIERS FOR DRUG DELIVERY. ISSN 2049-9485, 2019, p. 339-363., Registrované v: WOS
186. [1.1] NETO, J.B.M.R. - TAKETA, T.B. - BATAGLIOLI, R.A. - PIMENTEL, S.B. - SANTOS, D.M. - FIAMINGO, A. - COSTA, C.A.R. - CAMPANA, S.P. - CARVALHO, H.F. - BEPPU, M.M. Tailored chitosan/hyaluronan coatings for tumor cell adhesion: Effects of topography, charge density and surface composition. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2019, vol. 486, p. 508-518., Registrované v: WOS
187. [1.1] NGO, T.B. - SPEARMAN, B.S. - HLAVAC, N. - SCHMIDT, C.E. Three-Dimensional Bioprinted Hyaluronic Acid Hydrogel Test Beds for Assessing Neural Cell Responses to Competitive Growth Stimuli. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2020, vol. 6, no. 12, p. 6819-6830., Registrované v: WOS

188. [1.1] NGUYEN, T.H. - PALUCK, S.J. - MCGAHRAN, A.J. - MAYNARD, H.D. Poly(vinyl sulfonate) Facilitates bFGF-Induced Cell Proliferation. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 9, p. 2684-2692., Registrované v: WOS
189. [1.1] NG, W.L. - CHUA, C.K. - SHEN, Y.F. Print Me An Organ! Why We Are Not There Yet. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2019, vol. 97, art. no. UNSP 101145., Registrované v: WOS
190. [1.1] NISI, G. - CUOMO, R. - BRANDI, C. - GRIMALDI, L. - SISTI, A. - D'ANIELLO, C. Carbon dioxide therapy and hyaluronic acid for cosmetic correction of the nasolabial folds. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, 2016, vol. 15, no. 2, p. 169-175., Registrované v: WOS
191. [1.1] OLEJNIK, A. - GOSCIANSKA, J. - ZIELINSKA, A. - NOWAK, I. Stability determination of the formulations containing hyaluronic acid. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2015, vol. 37, no. 4, pp. 401-407., Registrované v: WOS
192. [1.1] OROBIA, A.J.M. - SAA, J. - LORENZO, A.O. - HERRERAS, J.M. Combination of hyaluronic acid, carmellose, and osmoprotectants for the treatment of dry eye disease. In CLINICAL OPHTHALMOLOGY. ISSN 1177-5483, 2018, vol. 12, p. 453-461., Registrované v: WOS
193. [1.1] OUESLATI, N. - LEBLANC, P. - BODIN, A. - HARSCOAT-SCHIAVO, C. - RONDAGS, E. - MEUNIER, S. - MARC, I. - KAPEL, R. A simple methodology for predicting the performances of hyaluronic acid purification by diafiltration. In JOURNAL OF MEMBRANE SCIENCE. ISSN 0376-7388, 2015, vol. 490, p. 152-159., Registrované v: WOS
194. [1.1] OU, Juanfeng - LIU, Kun - JIANG, Jiamiao - WILSON, Daniela A. - LIU, Lu - WANG, Fei - WANG, Shuanghu - TU, Yingfeng - PENG, Fei. Micro-/Nanomotors toward Biomedical Applications: The Recent Progress in Biocompatibility. In SMALL. ISSN 1613-6810, JUL 2020, vol. 16, no. 27, SI., Registrované v: WOS
195. [1.1] PABJANCZYK-WLAZLO, E. - KRUCINSKA, I. - CHRZANOWSKI, M. - SZPARAGA, G. - CHABERSKA, A. - KOLESINSKA, B. - KOMISARCZYK, A. - BOGUN, M. Fabrication of Pure Electrospun Materials from Hyaluronic Acid. In FIBRES & TEXTILES IN EASTERN EUROPE. ISSN 1230-3666, 2017, vol. 25, no. 3, p. 45-52., Registrované v: WOS
196. [1.1] PAIM, L.M.G. - GAL, L.L. - LOPES, R.F.F. - OLIVEIRA, A.T.D. Vitriification of Rattus norvegicus immature cumulus-oocyte complexes using hyaluronic acid. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL. ISSN 1071-2690, 2015, vol. 51, no. 10, p. 995-1002., Registrované v: WOS
197. [1.1] PALACIOS, Santiago. Non-hormonal approaches for the treatment of vulvovaginal atrophy: the choice between hyaluronic acid and glycerin. In GYNECOLOGICAL ENDOCRINOLOGY. ISSN 0951-3590, OCT 2 2020, vol. 36, no. 10, p. 847-848., Registrované v: WOS
198. [1.1] PAL, K. - SAGIRI, S.S. - SINGH, V.K. - BEHERA, B. - BANERJEE, I. - PRAMANIK, K. Natural Polymers: Tissue Engineering. In CONCISE ENCYCLOPEDIA OF BIOMEDICAL POLYMERS AND POLYMERIC BIOMATERIALS, VOLS I-II. ISBN:978-1-3151-1644-0; 978-1-4398-9855-0, 2018, p. 1206-1234., Registrované v: WOS
199. [1.1] PAN, Nicole Caldas - BERSANETI, Gabrielly Terassi - MALI,

- Suzana - PEDRINE COLABONE CELLIGOI, Maria Antonia. Films Based on Blends of Polyvinyl Alcohol and Microbial Hyaluronic Acid. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2020, vol. 63., Registrované v: WOS
200. [1.1] PAN, N.C. - BIZ, G. - BALDO, C. - CELLIGOI, M.A.P.C. Factorial design in fermentation medium development for hyaluronic acid production by *Streptococcus zooepidemicus*. In ACTA SCIENTIARUM-TECHNOLOGY. ISSN 1806-2563, 2020, vol. 42, art. no. UNSP e42729., Registrované v: WOS
201. [1.1] PARK, J.I. - LEE, J.E. - SHIN, H.J. - SONG, S. - LEE, W.K. - HWANG, J.S. Oral administration of glycine and leucine dipeptides improves skin hydration and elasticity in UVB-irradiated hairless mice. In BIOMOLECULES & THERAPEUTICS. ISSN 1976-9148, 2017, vol. 25, no. 5, p. 528-534., Registrované v: WOS
202. [1.1] PARK, K.L. - MA, W. - HIGAKI, Y. - TAKAHARA, A. Design and characterization of hybrid hydrogels composed of imogolite fibrous nanotubular clay and hyaluronic acid. In POLYMER. ISSN 0032-3861, 2016, vol. 100, p. 238-243., Registrované v: WOS
203. [1.1] PARK, S.B. - LIH, E. - PARK, K.S. - JOUNG, Y.K. - HAN, D.K. Biopolymer-based functional composites for medical applications. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2017, vol. 68, p. 77-105., Registrované v: WOS
204. [1.1] PARTLOW, B.P. - APPELEGATE, M.B. - OMENETTO, F.G. - KAPLAN, D.L. Dityrosine cross-linking in designing biomaterials. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2016, vol. 2, no. 12, p. 2108-2121., Registrované v: WOS
205. [1.1] PASCALI, M. - QUARATO, D. - CARINCI, F. Filling Procedures for Lip and Perioral Rejuvenation: A Systematic Review. In REJUVENATION RESEARCH. ISSN 1549-1684, 2018, vol. 21, no. 6, p. 553-559., Registrované v: WOS
206. [1.1] PENG, H.C. - ZHANG, C.X. - WANG, M.Y. - ZHANG, W. - XU, B. - YAN, X.X. - XIN, H.B. - WANG, X.L. Black phosphorus modified soluble microneedle patch for painless, effective and accurate body slimming. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2020, vol. 19, art. no. UNSP 100577., Registrované v: WOS
207. [1.1] PEPELIAEV, S. - HRUDIKOVA, R. - JILKOVA, J. - PAVLIK, J. - SMIRNOU, D. - CERNY, Z. - FRANKE, L. Colorimetric enzyme-coupled assay for hyaluronic acid determination in complex samples. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 94, p. 460-470., Registrované v: WOS
208. [1.1] PEREIRA, G.G. - DETONI, C.B. - BALDUCCI, A.G. - RONDELLI, V. - COLOMBO, P. - GUTERRES, S.S. - SONVICO, F. Hyaluronate nanoparticles included in polymer films for the prolonged release of vitamin E for the management of skin wounds. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2016, vol. 83, p. 203-211., Registrované v: WOS
209. [1.1] PEREZ-ALVAREZ, L. - RUIZ-RUBIO, L. - AZUA, I. - BENITO, V. - BILBAO, A. - LUIS VILAS-VILELA, J. Development of multiactive antibacterial multilayers of hyaluronic acid and chitosan onto poly(ethylene terephthalate). In EUROPEAN POLYMER JOURNAL. ISSN

- 0014-3057, 2019, vol. 112, p. 31-37., Registrované v: WOS
210. [1.1] PETROU, G. - CROUZIER, T. Mucins as multifunctional building blocks of biomaterials. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2018, vol. 6, no. 9, p. 2282-2297., Registrované v: WOS
211. [1.1] PILGROVÁ, T. - VENEROVÁ, T. - MRAVEC, F. - PEKAŘ, M. Interactions of hyaluronan with oppositely charged surfactants in very diluted solutions in water. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 112, p. 241-249., Registrované v: WOS
212. [1.1] PONEDEL'KINA, I.Y. - KHAIBRAKHMANOVA, E.A. - TYUMKINA, T.V. - ROMADOVA, I.V. - ODINOKOV, V.N. Stoichiometric C6-oxidation of hyaluronic acid by oxoammonium salt TEMPO+Cl⁻ in an aqueous alkaline medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 130, p. 69-76., Registrované v: WOS
213. [1.1] PONEDEL'KINA, I.Y. - GASKAROVA, A.R. - KHAYBRAKHMANOVA, E.A. - LUKINA, E.S. - ODINOKOV, V.N. Hyaluronic acid based hydroxamate and conjugates with biologically active amines: In vitro effect on matrix metalloproteinase-2. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 144, p. 17-24., Registrované v: WOS
214. [1.1] PRAJAPATI, Vipul D. - MAHERIYA, Pankaj M. Hyaluronic acid as potential carrier in biomedical and drug delivery applications. In FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS. ISSN 2049-9485, 2019, p. 213-265., Registrované v: WOS
215. [1.1] PRE, E.D. - CONTI, G. - SBARBATI, A. Hyaluronic acid (HA) scaffolds and multipotent stromal cells (MSCs) in regenerative medicine. In STEM CELL REVIEWS AND REPORTS. ISSN 1550-8943, 2016, vol. 12, no. 6, p. 664-681., Registrované v: WOS
216. [1.1] PUPPI, D. - CHIELLINI, F. Biodegradable Polymers for Biomedical Additive Manufacturing. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2020, vol. 20., Registrované v: WOS
217. [1.1] PUVENDRAN, K. - ANUPAMA, K. - JAYARAMAN, G. Real-time monitoring of hyaluronic acid fermentation by in situ transfectance spectroscopy. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, p. 2659-2669., Registrované v: WOS
218. [1.1] PUVENDRAN, K. - JAYARAMAN, G. Enhancement of acetyl-CoA by acetate co-utilization in recombinant *Lactococcus lactis* cultures enables the production of high molecular weight hyaluronic acid. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 17, p. 6989-7001., Registrované v: WOS
219. [1.1] QUADE, M. - KNAACK, S. - AKKINENI, A.R. - GABRIELIAN, A. - LODE, A. - ROSEN-WOLFF, A. - GELINSKY, M. Central Growth Factor Loaded Depots in Bone Tissue Engineering Scaffolds for Enhanced Cell Attraction. In TISSUE ENGINEERING PART A. ISSN 1937-3341, 2017, vol. 23, no. 15-16, SI, p. 762-772., Registrované v: WOS
220. [1.1] RAI, N.R. - PARTLOW, B.P. - MCGILL, M. - KIMMERLING, E.P. - GHEZZI, C.E. - KAPLAN, D.L. Enzymatically crosslinked silk-hyaluronic acid hydrogels. In BIOMATERIALS. ISSN 0142-9612, 2017, vol. 131, p. 58-67., Registrované v: WOS
221. [1.1] RAJENDRAN, V. - PUVENDRAN, K. - GURU, B.R. - JAYARAMAN, G. Design of aqueous two-phase systems for purification of

hyaluronic acid produced by metabolically engineered *Lactococcus lactis*. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2016, vol. 39, no. 4, SI, p. 655-662., Registrované v: WOS

222. [1.1] RAYAHIN, Jamie E. - BUHRMAN, Jason S. - ZHANG, Yu - KOH, Timothy J. - GEMEINHART, Richard A. High and Low Molecular Weight Hyaluronic Acid Differentially Influence Macrophage Activation. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2015, vol. 1, no. 7, pp. 481-493., Registrované v: WOS

223. [1.1] REHMAN, M.A. - REHMAN, Z.U. Biopolymeric Material-based Blends: Preparation, Characterization, and Applications. In BIO MONOMERS FOR GREEN POLYMERIC COMPOSITE MATERIALS. ISBN:978-1-11-930169-1; 978-1-11-930164-6, 2019, p. 57-76., Registrované v: WOS

224. [1.1] RIGAUX, G. - GHERAN, C.V. - CALLEWAERT, M. - CADIOU, C. - VOICU, S.N. - DINISCHIOTU, A. - ANDRY, M.C. - VANDER ELST, L. - LAURENT, S. - MULLER, R.N. - BERQUAND, A. - MOLINARI, M. - HUCLIER-MARKAI, S. - CHUBURU, F. Characterization of Gd loaded chitosan-TPP nanohydrogels by a multi-technique approach combining dynamic light scattering (DLS), asymmetrical flow-field-flow-fractionation (AF4) and atomic force microscopy (AFM) and design of positive contrast agents for molecular resonance imaging (MRI). In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 5, art. no. 055705., Registrované v: WOS

225. [1.1] RODRIGUEZ-VELAZQUEZ, Eustolia - ALATORRE-MEDA, Manuel - MANO, Joao F. Polysaccharide-Based Nanobiomaterials as Controlled Release Systems for Tissue Engineering Applications. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2015, vol. 21, no. 33, pp. 4837-4850., Registrované v: WOS

226. [1.1] ROIG, F. - BLANZAT, M. - SOLANS, C. - ESQUENA, J. - GARCÍA-CELMA, M.J. Hyaluronan based materials with cationic sugar-derived surfactants as drug delivery systems. In COLLOIDS AND SURFACES B: BIOINTERFACES. ISSN 0927-7765, 2018, vol. 164, p. 218-223., Registrované v: WOS

227. [1.1] RUSSO, L. - CIPOLLA, L. Glycomics: New Challenges and Opportunities in Regenerative Medicine. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 38, p. 13380-13388., Registrované v: WOS

228. [1.1] SABADKOVA, D. - FRANC, A. - MUSELIK, J. - NEUMANN, D. - VETCHY, D. Pulsatile Drug Delivery Systems. In CHEMICKE LISTY. ISSN 0009-2770, 2015, vol. 109, no. 5, pp. 353-359., Registrované v: WOS

229. [1.1] SABBIETI, M.G. - DUBBINI, A. - LAUS, F. - PAGGI, E. - MARCHEGIANI, A. - CAPITANI, M. - MARCHETTI, L. - DINI, F. - VERMONDEN, T. - DI MARTINO, P. - AGAS, D. - CENSI, R. In vivo biocompatibility of p(HPMAm-lac)-PEG hydrogels hybridized with hyaluronan. In JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE. ISSN 1932-6254, 2017, vol. 11, no. 11, p. 3056-3067., Registrované v: WOS

230. [1.1] SABRA, S. - ABDELMONEEM, M. - ABDELWAKIL, M. - MABROUK, M.T. - ANWAR, D. - MOHAMED, R. - KHATTAB, S. - BEKHIT, A. - ELKHODAIRY, K. - FREAG, M. - ELZOGHBY, A.

Self-Assembled Nanocarriers Based on Amphiphilic Natural Polymers for Anti-Cancer Drug Delivery Applications. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 35, p. 5213-5229., Registrované v: WOS

231. [1.1] SAFAEI, M. - TARAN, M. Optimal conditions for producing bactericidal sodium hyaluronate-TiO₂ bionanocomposite and its characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, part A, p. 449-456., Registrované v: WOS

232. [1.1] SAHINER, N. - SAGBAS, S. - SAHINER, M. - AYYALA, R.S. Polyethyleneimine modified poly(Hyaluronic acid) particles with controllable antimicrobial and anticancer effects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 159, p. 29-38., Registrované v: WOS

233. [1.1] SALDIN, L.T. - PATEL, S. - ZHANG, L. - HULEIHEL, L. - HUSSEY, G.S. - NASCARI, D.G. - QUIJANO, L.M. - LI, X. - RAGHU, D. - BAJWA, A.K. - SMITH, N.G. - CHUNG, C.C. - OMSTEAD, A.N. - KOSOVEC, J.E. - JOBE, B.A. - TURNER, N.J. - ZAIDI, A.H. - BADYLAK, S.F. Extracellular Matrix Degradation Products Downregulate Neoplastic Esophageal Cell Phenotype. In TISSUE ENGINEERING PART A. ISSN 1937-3341, 2019, vol. 25, no. 5-6, p. 487-498., Registrované v: WOS

234. [1.1] SALWOWSKA, N.M. - BEBENEK, K.A. - ZADLO, D.A. - WCISLO-DZIADECKA, D.L. Physiochemical properties and application of hyaluronic acid: a systematic review. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, 2016, vol. 15, no. 4, p. 520-526., Registrované v: WOS

235. [1.1] SAMADIAN, Hadi - MALEKI, Hassan - ALLAHYARI, Zahra - JAYMAND, Mehdi. Natural polymers-based light-induced hydrogels: Promising biomaterials for biomedical applications. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, OCT 1 2020, vol. 420., Registrované v: WOS

236. [1.1] SAMSOM, M. - KOROGIANNAKI, M. - SUBBARAMAN, L.N. - SHEARDOWN, H. - SCHMIDT, T.A. Hyaluronan incorporation into model contact lens hydrogels as a built-in lubricant: Effect of hydrogel composition and proteoglycan 4 as a lubricant in solution. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, 2018, vol. 106, no. 5, p. 1818-1826., Registrované v: WOS

237. [1.1] SCRIMGEOUR, J. - MCLANE, L.T. - CHANG, P.S. - CURTIS, J.E. Single-Molecule Imaging of Proteoglycans in the Pericellular Matrix. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2017, vol. 113, no. 11, p. 2316-2320., Registrované v: WOS

238. [1.1] SEON-LUTZ, M. - COUFFIN, A.-C. - VIGNOUD, S. - SCHLATTER, G. - HEBRAUD, A. Electrospinning in water and in situ crosslinking of hyaluronic acid/cyclodextrin nanofibers: Towards wound dressing with controlled drug release. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, p. 276-287., Registrované v: WOS

239. [1.1] SERRI, C. - FRIGIONE, M. - RUPONEN, M. - URTTI, A. - BORZACCHIELLO, A. - BIONDI, M. - ITKONEN, J. - MAYOL, L. Electron dispersive X-ray spectroscopy and degradation properties of hyaluronic acid decorated microparticles. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2019, vol. 181, p. 896-901.,

Registrované v: WOS

240. [1.1] SHAFAIE, S. - HUTTER, V. - BROWN, M.B. - COOK, M.T. - CHAU, D.Y.S. Diffusion through the ex vivo vitreal body - Bovine, porcine, and ovine models are poor surrogates for the human vitreous. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2018, vol. 550, no. 1-2, p. 207-215., Registrované v: WOS

241. [1.1] SHAHBAZI, M.-A. - SEDIGHI, M. - BAULETH-RAMOS, T. - KANT, K. - CORREIA, A. - POURSIANA, N. - SARMENTO, B. - HIRVONEN, J. - SANTOS, H.A. Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, p. 18444-18455., Registrované v: WOS

242. [1.1] SHAHI, M. - MOHAMMADNEJAD, D. - KARIMIPOUR, M. - RASTA, S.H. - RAHBARGHAZI, R. - ABEDELAHI, A. Hyaluronic Acid and Regenerative Medicine: New Insights into the Stroke Therapy. In CURRENT MOLECULAR MEDICINE. ISSN 1566-5240, 2020, vol. 20, no. 9, p. 675-691., Registrované v: WOS

243. [1.1] SHALUMON, K. T. - CHEN, Jyh-Ping. Scaffold-based Drug Delivery for Cartilage Tissue Regeneration. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2015, vol. 21, no. 15, pp. 1979-1990., Registrované v: WOS

244. [1.1] SHIN, S.W. - JANG, Y.D. - KO, K.W. - KANG, E.Y. - HAN, J.H. - BEDAIR, T.M. - KIM, I.H. - SON, T.I. - PARK, W. - HAN, D.K. PCL microspheres containing magnesium hydroxide for dermal filler with enhanced physicochemical and biological performances. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2019, vol. 80, p. 854-861., Registrované v: WOS

245. [1.1] SCHEUER, C.A. - RAH, M.J. - REINDEL, W.T. Increased concentration of hyaluronan in tears after soaking contact lenses in Biotrue multipurpose solution. In CLINICAL OPHTHALMOLOGY. ISSN 1177-5483, 2016, vol. 10, p. 1945-1952., Registrované v: WOS

246. [1.1] SCHULTE, S. - DOSS, S.S. - JEEVA, P. - ANANTH, M. - BLANK, L.M. - JAYARAMAN, G. Exploiting the diversity of streptococcal hyaluronan synthases for the production of molecular weight-tailored hyaluronan. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 18, p. 7567-7581., Registrované v: WOS

247. [1.1] SCHUTGENS, E. M. - TRYFONIDOU, M. A. - SMIT, T. H. - ONER, F. Cumhur - KROUWELS, A. - ITO, K. - CREEMERS, L. B. BIOMATERIALS FOR INTERVERTEBRAL DISC REGENERATION: PAST PERFORMANCE AND POSSIBLE FUTURE STRATEGIES. In EUROPEAN CELLS & MATERIALS. ISSN 1473-2262, 2015, vol. 30, no., pp. 210-231., Registrované v: WOS

248. [1.1] SIMULESCU, V. - KALINA, M. - MONDEK, J. - PEKAR, M. Long-term degradation study of hyaluronic acid in aqueous solutions without protection against microorganisms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, p. 664-668., Registrované v: WOS

249. [1.1] SINGH, L. - CHOONARA, Y.E. - DU TOIT, L.C. - KUMAR, P. - CHAKRABORTY, A. - PILLAY, V. Design, characterization and optimization of lamivudine-loaded amphiphilic HA-g-ECL nanoparticles. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN

- 1773-2247, 2017, vol. 39, p. 75-87., Registrované v: WOS
250. [1.1] SITHOLE, M.N. - CHOONARA, Y.E. - DU TOIT, L.C. - KUMAR, P. - MARIMUTHU, T. - KONDIAH, P.P.D. - PILLAY, V. Development of a Novel Polymeric Nanocomposite Complex for Drugs with Low Bioavailability. In AAPS PHARMSCITECH. ISSN 1530-9932, 2018, vol. 19, no. 1, p. 303-314., Registrované v: WOS
251. [1.1] SNETKOV, Petr - ZAKHAROVA, Kseniia - MOROZKINA, Svetlana - OLEKHNOVICH, Roman - USPENSKAYA, Mayya. Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer. In POLYMERS. AUG 2020, vol. 12, no. 8., Registrované v: WOS
252. [1.1] SONVICO, F. - BARBIERI, S. - COLOMBO, P. - MUCCHINO, C. - BAROCELLI, E. - CANTONI, A.M. - CAVAZZONI, A. - PETRONINI, P.G. - RUSCA, M. - CARBOGNANI, P. - AMPOLLINI, L. Physicochemical and pharmacokinetic properties of polymeric films loaded with cisplatin for the treatment of malignant pleural mesothelioma. In JOURNAL OF THORACIC DISEASE. ISSN 2072-1439, 2018, vol. 10, p. S194-S206., Registrované v: WOS
253. [1.1] SON, So-Ra - SARKAR, Swapan Kumar - LINH, Nguyen-Thuy Ba - PADALHIN, Andrew R. - KIM, Bo Ram - JUNG, Hae Il - LEE, Byong-Taek. Platelet-rich plasma encapsulation in hyaluronic acid/gelatin-BCP hydrogel for growth factor delivery in BCP sponge scaffold for bone regeneration. In JOURNAL OF BIOMATERIALS APPLICATIONS. ISSN 0885-3282, 2015, vol. 29, no. 7, pp. 988-1002., Registrované v: WOS
254. [1.1] SPEARMAN, B.S. - AGRAWAL, N.K. - RUBIANO, A. - SIMMONS, C.S. - MOBINI, S. - SCHMIDT, C.E. Tunable methacrylated hyaluronic acid-based hydrogels as scaffolds for soft tissue engineering applications. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, 2020, vol. 108, no. 2, p. 279-291., Registrované v: WOS
255. [1.1] STACH, S. - TALU, S. - TRABATTONI, S. - TAVAZZI, S. - GLUCHACZKA, A. - SIEK, P. - ZAJAC, J. - GIOVANZANA, S. Morphological properties of siloxane-hydrogel contact lens surfaces. In CURRENT EYE RESEARCH. ISSN 0271-3683, 2017, vol. 42, no. 4, p. 498-505., Registrované v: WOS
256. [1.1] STROM, Anna - LARSSON, Anette - OKAY, Oguz. Preparation and physical properties of hyaluronic acid-based cryogels. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 29, pp., Registrované v: WOS
257. [1.1] SULERIA, H.A.R. - MASCI, P. - GOBE, G. - OSBORNE, S. Current and potential uses of bioactive molecules from marine processing waste. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2016, vol. 96, no. 4, p. 1064-1067., Registrované v: WOS
258. [1.1] SUNGUROGLU, C. - SEZGIN, D.E. - CELIK, P.A. - CABUK, A. Higher titer hyaluronic acid production in recombinant Lactococcus lactis. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2018, vol. 48, no. 8, p. 734-742., Registrované v: WOS
259. [1.1] SUN, Huanli - WONG, Edgar H. H. - YAN, Yan - CUI, Jiwei - DAI, Qiong - GUO, Junling - QIAO, Greg G. - CARUSO, Frank. The role of capsule stiffness on cellular processing. In CHEMICAL SCIENCE. ISSN

- 2041-6520, 2015, vol. 6, no. 6, pp. 3505-3514., Registrované v: WOS
260. [1.1] SUN, H.L. - BJORNMALM, M. - CUI, J.W. - WONG, E.H.H. - DAI, Y.L. - DAI, Q. - QIAO, G.G. - CARUSO, F. Structure Governs the Deformability of Polymer Particles in a Microfluidic Blood Capillary Model. In ACS MACRO LETTERS. ISSN 2161-1653, 2015, vol. 4, no. 11, p. 1205-1209., Registrované v: WOS
261. [1.1] SUN, Xiaqing - WANG, Zhen - BI, Yali - WANG, Yangyang - LIU, Hao. Genetic and Functional Characterization of the Hyaluronate Lyase HylB and the Beta-N-Acetylglucosaminidase HylZ in Streptococcus zooepidemicus. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2015, vol. 70, no. 1, pp. 35-42., Registrované v: WOS
262. [1.1] SVECHKAREV, D. - KYRYCHENKO, A. - PAYNE, W.M. - MOHS, A.M. Probing the self-assembly dynamics and internal structure of amphiphilic hyaluronic acid conjugates by fluorescence spectroscopy and molecular dynamics simulations. In SOFT MATTER. ISSN 1744-683X, 2018, vol. 14, no. 23, p. 4762-4771., Registrované v: WOS
263. [1.1] SZE, J.H. - BROWNLIE, J.C. - LOVE, C.A. Biotechnological production of hyaluronic acid: a mini review. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, art. no. 67., Registrované v: WOS
264. [1.1] TAM, N.W. - CHUNG, D. - BALDWIN, S.J. - SIMMONS, J.R. - XU, L.L. - RAINEY, J.K. - DELLAIRE, G. - FRAMPTON, J.P. Material properties of disulfide-crosslinked hyaluronic acid hydrogels influence prostate cancer cell growth and metabolism. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2020, vol. 8, no. 42, p. 9718-9733., Registrované v: WOS
265. [1.1] TAVAZZI, Silvia - FERRARO, Lorenzo - FAGNOLA, Matteo - COZZA, Federica - FARRIS, Stefano - BONETTI, Simone - SIMONUTTI, Roberto - BORGHESI, Alessandro. Mechanically triggered solute uptake in soft contact lenses. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2015, vol. 130, no., pp. 16-22., Registrované v: WOS
266. [1.1] TAVAZZI, Silvia - TONVERONACHI, Martina - FAGNOLA, Matteo - COZZA, Federica - FERRARO, Lorenzo - BORGHESI, Alessandro - ASCAGNI, Miriam - FARRIS, Stefano. Wear effects on microscopic morphology and hyaluronan uptake in siloxane-hydrogel contact lenses. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, 2015, vol. 103, no. 5, pp. 1092-1098., Registrované v: WOS
267. [1.1] TAVSANLI, Burak - CAN, Volkan - OKAY, Oguz. Mechanically strong triple network hydrogels based on hyaluronan and poly(N,N-dimethylacrylamide). In SOFT MATTER. ISSN 1744-683X, 2015, vol. 11, no. 43, pp. 8517-8524., Registrované v: WOS
268. [1.1] TAVSANLI, B. - OKAY, O. Preparation and fracture process of high strength hyaluronic acid hydrogels cross-linked by ethylene glycol diglycidyl ether. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2016, vol. 109, p. 42-51., Registrované v: WOS
269. [1.1] TAVSANLI, B. - OKAY, O. Mechanically strong hyaluronic acid hydrogels with an interpenetrating network structure. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 94, p. 185-195., Registrované v: WOS
270. [1.1] THALLER, M. - BOHM, H. - LINGENFELDER, C. - GEIGER,

- F. Hyaluronic acid gels for pressure regulation in glaucoma treatment. In OPTHALMOLOGE. ISSN 0941-293X, 2018, vol. 115, no. 3, p. 195-201., Registrované v: WOS
271. [1.1] TIWARI, A. - VERMA, A. - PANDA, P.K. - SARAF, S. - JAIN, A. - JAIN, S.K. Stimuli-responsive polysaccharides for colon-targeted drug delivery. In STIMULI RESPONSIVE POLYMERIC NANOCARRIERS FOR DRUG DELIVERY APPLICATIONS: ADVANCED NANOCARRIERS FOR THERAPEUTICS, VOL 2. ISSN 2049-9485, 2019, p. 547-566., Registrované v: WOS
272. [1.1] TOLBA, Y.M. - OMAR, S.S. - NAGUI, D.A. - NAWWAR, M.A. Effect of high molecular weight hyaluronic acid in treatment of osteoarthritic temporomandibular joints of rats. In ARCHIVES OF ORAL BIOLOGY. ISSN 0003-9969, 2020, vol. 110 art. no. 104618., Registrované v: WOS
273. [1.1] TRUJILLO, S. - VEGA, S.L. - SONG, K.H. - SAN FELIX, A. - DALBY, M.J. - BURDICK, J.A. - SALMERON-SANCHEZ, M. Engineered Full-Length Fibronectin-Hyaluronic Acid Hydrogels for Stem Cell Engineering. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 21., Registrované v: WOS
274. [1.1] TSEPILOV, R.N. - BELODED, A.V. Hyaluronic Acid - an "Old" Molecule with "New" Functions: Biosynthesis and Depolymerization of Hyaluronic Acid in Bacteria and Vertebrate Tissues Including during Carcinogenesis. In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2015, vol. 80, no. 9, p. 1093-1108., Registrované v: WOS
275. [1.1] TURNBULL, G. - CLARKE, J. - PICARD, F. - RICHES, P. - JIA, L.L. - HAN, F.X. - LI, B. - SHU, W.M. 3D bioactive composite scaffolds for bone tissue engineering. In BIOACTIVE MATERIALS. ISSN 2452-199X, 2018, vol. 3, no. 3, p. 278-314., Registrované v: WOS
276. [1.1] TYAN, Yu-Chang - YANG, Ming-Hui - CHANG, Chin-Chuan - CHUNG, Tze-Wen. Biocompatibility of Materials for Biomedical Engineering. In BIOMIMICKED BIOMATERIALS: ADVANCES IN TISSUE ENGINEERING AND REGENERATIVE MEDICINE. ISSN 0065-2598, 2020, vol. 1250, p. 125-140., Registrované v: WOS
277. [1.1] VAN DAM, E.P. - GIUBERTONI, G. - BURLA, F. - KOENDERINK, G.H. - BAKKER, H.J. Hyaluronan biopolymers release water upon pH-induced gelation. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2020, vol. 22, no. 16, p. 8667-8671., Registrované v: WOS
278. [1.1] VASILE, D. - IANCU, R. - BOGDANICI, C. - UNGUREANU, E. - CIOBOTEA, D. - CIULUVICA, R. - IANCU, G. Chemo-physical properties and biomedical applications of hyaluronic acid in medicine. In REVISTA DE CHIMIE. ISSN 0034-7752, 2017, vol. 68, no. 2, p. 384-386., Registrované v: WOS
279. [1.1] VASVANI, S. - KULKARNI, P. - RAWTANI, D. Hyaluronic acid: A review on its biology, aspects of drug delivery, route of administrations and a special emphasis on its approved marketed products and recent clinical studies. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, p. 1012-1029., Registrované v: WOS
280. [1.1] VAZQUEZ, J.A. - PASTRANA, L. - PINEIRO, C. -

- TEIXEIRA, J.A. - PEREZ-MARTIN, R.I. - AMADO, I.R. Production of Hyaluronic Acid by *Streptococcus zooepidemicus* on Protein Substrates Obtained from *Scyllorhinus canicula* Discards. In MARINE DRUGS. ISSN 1660-3397, 2015, vol. 13, no. 10, p. 6537-6549., Registrované v: WOS
281. [1.1] VECCHIES, F. - SACCO, P. - MARSICH, E. - CINELLI, G. - LOPEZ, F. - DONATI, I. Binary Solutions of Hyaluronan and Lactose-Modified Chitosan: The Influence of Experimental Variables in Assembling Complex Coacervates. In POLYMERS. eISSN: 2073-4360, 2020, vol. 12, no. 4, art. no. 897., Registrované v: WOS
282. [1.1] VIGNESH, S. - SIVASHANMUGAM, A. - MOHANDAS, A. - JANARTHANAN, R. - IYER, S. - NAIR, S.V. - JAYAKUMAR, R. Injectable deferroxamine nanoparticles loaded chitosan-hyaluronic acid coacervate hydrogel for therapeutic angiogenesis. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2018, vol. 161, p. 129-138., Registrované v: WOS
283. [1.1] WALSH, J.P. - FARRELL, T.P. - HYNES, J. - HUGHES, N. - O'BYRNE, C. - EUSTACE, S.J. Therapeutic Intervention in Musculoskeletal Radiology: Current Practice and Future Directions. In SEMINARS IN MUSCULOSKELETAL RADIOLOGY. ISSN 1089-7860, 2018, vol. 22, no. 5, p. 546-563., Registrované v: WOS
284. [1.1] WANG, Jing - WANG, Jing - LIU, Jin - WANG, Xinzhi - ALEEM, Abdur Raheem - SONG, Zhengxing - KIPPER, Matt J. - TANG, Jianguo. Smart sensing of bacterial contamination on fluorescent cotton fabrics (FCF) by nontoxic Eu³⁺-induced polyelectrolyte nano-aggregates (EIPAs). In DYES AND PIGMENTS. ISSN 0143-7208, OCT 2020, vol. 181., Registrované v: WOS
285. [1.1] WANG, L. - WANG, Y.T. - HAO, J.C. - DONG, S.L. Magnetic fullerene-DNA/hyaluronic acid nanovehicles with magnetism/reduction dual-responsive triggered release. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 3, p. 1029-1038., Registrované v: WOS
286. [1.1] WENDE, F.J. - GOHIL, S. - MOJARRADI, H. - GERFAUD, T. - NORD, L.I. - KARLSSON, A. - BOITEAU, J.G. - KENNE, A.H. - SANDSTROM, C. Determination of substitution positions in hyaluronic acid hydrogels using NMR and MS based methods. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, p. 1348-1357., Registrované v: WOS
287. [1.1] WENDE, F.J. - GOHIL, S. - NORD, L.I. - KENNE, A.H. - SANDSTROM, C. 1D NMR methods for determination of degree of cross-linking and BDDE substitution positions in HA hydrogels. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 1525-1530., Registrované v: WOS
288. [1.1] WESTBROOK, A.W. - REN, X. - OH, J. - MOO-YOUNG, M. - CHOU, C.P. Metabolic engineering to enhance heterologous production of hyaluronic acid in *Bacillus subtilis*. In METABOLIC ENGINEERING. ISSN 1096-7176, 2018, vol. 47, p. 401-413., Registrované v: WOS
289. [1.1] WHEELER, D.L. - KHOSHROUR, S. - FATH, M.K. - POURZARDOSHT, N. - FAZELI, F. - KHALILI, S. Structural analyses and engineering of the pmHAS enzyme to improve its functional performance: An in silico study. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2020, vol. 39, no. 7, p. 354-373., Registrované v: WOS

290. [1.1] WIGEN, J. - ELOWSSON-RENDIN, L. - KARLSSON, L. - TYKESSON, E. - WESTERGREN-THORSSON, G. Glycosaminoglycans: A Link Between Development and Regeneration in the Lung. In STEM CELLS AND DEVELOPMENT. ISSN 1547-3287, 2019, vol. 28, no. 13, p. 823-832., Registrované v: WOS
291. [1.1] WOLF, K.J. - KUMAR, S. Hyaluronic Acid: Incorporating the Bio into the Material. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2019, vol. 5, no. 8, SI, p. 3753-3765., Registrované v: WOS
292. [1.1] WOO, J.E. - SEONG, H.J. - LEE, S.Y. - JANG, Y.S. Metabolic Engineering of Escherichia coli for the Production of Hyaluronic Acid From Glucose and Galactose. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2019, vol. 7, art. no. 351., Registrované v: WOS
293. [1.1] WUDEBWE, Uchena N. G. - BANNERMAN, Alistair - GOLDBERG-OPPENHEIMER, Pola - PAXTON, Jennifer Z. - WILLIAMS, Richard L. - GROVER, Liam M. Exploiting cell-mediated contraction and adhesion to structure tissues in vitro. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8436, 2015, vol. 370, no. 1661, pp., Registrované v: WOS
294. [1.1] XU, X. - WEN, C.R. - AI, C.Q. - CAO, C.Y. - YU, Q. - QU, F.J. - WANG, Z.F. - SONG, S. Quantitative Analysis of Acidic Polysaccharides Using Hydrophilic Interaction Chromatography and Mass Spectrometry after Acid Hydrolysis. In CURRENT PHARMACEUTICAL ANALYSIS. ISSN 1573-4129, 2018, vol. 14, no. 5, p. 443-449., Registrované v: WOS
295. [1.1] YAHYAEI, B. - PEYVANDI, N. - AKBARI, H. - ARABZADEH, S. - AFSHARNEZHAD, S. - AJOUDANIFAR, H. - POURALI, P. Production, assessment, and impregnation of hyaluronic acid with silver nanoparticles that were produced by Streptococcus pyogenes for tissue engineering applications. In APPLIED BIOLOGICAL CHEMISTRY. ISSN 1738-2203, 2016, vol. 59, no. 2, p. 227-237., Registrované v: WOS
296. [1.1] YALCINTAS, E.P. - ACKERMAN, D.S. - KORKMAZ, E. - TELMER, C.A. - JARVIK, J.W. - CAMPBELL, P.G. - BRUCHEZ, M.P. - OZDOGANLAR, O.B. Analysis of In Vitro Cytotoxicity of Carbohydrate-Based Materials Used for Dissolvable Microneedle Arrays. In PHARMACEUTICAL RESEARCH. ISSN 0724-8741, 2020, vol. 37, no. 3, art. no. 33., Registrované v: WOS
297. [1.1] YU, J. - ZHANG, Y. - SUN, W. - KAHKOSKA, A.R. - WANG, J. - BUSE, J.B. - GU, Z. Insulin-Responsive Glucagon Delivery for Prevention of Hypoglycemia. In SMALL. ISSN 1613-6810, 2017, vol. 13, no. 19, art. no. 1603028., Registrované v: WOS
298. [1.1] ZAJAC, M. - KULAWIK, P. - TKACZEWSKA, J. - MIGDAŁ, W. - FILIPCZAK-FIUTAK, M. - FIUTAK, G. The effect of hyaluronic acid addition on the properties of smoked homogenised sausages. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2017, vol. 97, no. 8, p. 2316-2326., Registrované v: WOS
299. [1.1] ZAYED, A. - ULBER, R. Fucoïdan production: Approval key challenges and opportunities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 211, p. 289-297., Registrované v: WOS
300. [1.1] ZBINDEN, A. - BROWNE, S. - ALTIOK, E.I. - SVEDLUND, F.L. - JACKSON, W.M. - HEALY, K.E. Multivalent conjugates of basic

fibroblast growth factor enhance in vitro proliferation and migration of endothelial cells. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2018, vol. 6, no. 5, p. 1076-1083., Registrované v: WOS

301. [1.1] ZHANG, J.N. - CHEN, B.Z. - ASHFAQ, M. - ZHANG, X.P. - GUO, X.D. Development of a BDDE-crosslinked hyaluronic acid based microneedles patch as a dermal filler for anti-ageing treatment. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2018, vol. 65, p. 363-369., Registrované v: WOS

302. [1.1] ZHANG, J.Y. - YANG, Y.L. - CHEN, Y.F. - LIU, X.L. - GUO, S.C. - ZHU, L.Y. - WANG, Y. An in situ phototriggered-imine-crosslink composite hydrogel for bone defect repair. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2016, vol. 4, no. 5, p. 973-981., Registrované v: WOS

303. [1.1] ZHANG, W. - JIN, X. - LI, H. - ZHANG, R.R. - WU, C.W. Injectable and body temperature sensitive hydrogels based on chitosan and hyaluronic acid for pH sensitive drug release. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 186, p. 82-90., Registrované v: WOS

304. [1.1] ZHANG, Xin - SUN, Pengcheng - HUANGSHAN, Lingzi - HU, Bi-Huang - MESSERSMITH, Phillip B. Improved method for synthesis of cysteine modified hyaluronic acid for in situ hydrogel formation. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2015, vol. 51, no. 47, pp. 9662-9665., Registrované v: WOS

305. [1.1] ZHANG, X. - YAO, M.N. - CHEN, M.H. - LI, L.Q. - DONG, C.Y. - HOU, Y. - ZHAO, H.Y. - JIA, B. - WANG, F. Hyaluronic acid-coated silver nanoparticles as a nanoplatfrom for in vivo imaging applications. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 39, p. 25650-25653., Registrované v: WOS

306. [1.1] ZHANG, X.Z. - WANG, M. - LI, T.J. - FU, L.X. - CAO, W. - LIU, H. Construction of efficient Streptococcus zooepidemicus strains for hyaluoronic acid production based on identification of key genes involved in sucrose metabolism. In AMB EXPRESS. ISSN 2191-0855, 2016, vol. 6, art. no. 121., Registrované v: WOS

307. [1.1] ZHANG, Y.Q. - FENG, P.J. - YU, J.C. - YANG, J. - ZHAO, J.C. - WANG, J.Q. - SHEN, Q.D. - GU, Z. ROS-Responsive Microneedle Patch for Acne Vulgaris Treatment. In ADVANCED THERAPEUTICS. eISSN: 2366-3987, 2018, vol. 1, no. 3, art. no. UNSP 1800035., Registrované v: WOS

308. [1.1] ZHANG, Y.Q. - LIU, Q.M. - YU, J.C. - YU, S.J. - WANG, J.Q. - QIANG, L. - GU, Z. Locally induced adipose tissue browning by microneedle patch for obesity treatment. In ACS NANO. ISSN 1936-0851, 2017, vol. 11, no. 9, p. 9223-9230., Registrované v: WOS

309. [1.1] ZHANG, Y.Q. - YU, J.C. - WANG, J.Q. - HANNE, N.J. - CUI, Z. - QIAN, C.G. - WANG, C. - XIN, H.L. - COLE, J.H. - GALLIPPI, C.M. - ZHU, Y. - GU, Z. Thrombin-responsive transcutaneous patch for auto-anticoagulant regulation. In ADVANCED MATERIALS. ISSN 0935-9648, 2017, vol. 29, no. 4, art. no. 1604043., Registrované v: WOS

310. [1.1] ZHOU, L. - QIU, T. - LV, F. - LIU, L. - YING, J. - WANG, S. Self-Assembled Nanomedicines for Anticancer and Antibacterial Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2018, vol. 7, no. 20, art. no. 1800670., Registrované v: WOS

311. [1.1] ZHOU, T. - YU, Z.H. - JIAN, M.Y. - AHMAD, I. - TREMPUS,

- C. - WAGENER, B.M. - PITTET, J.F. - AGGARWAL, S. - GARANTZIOTIS, S. - SONG, W.F. - MATALON, S. Instillation of hyaluronan reverses acid instillation injury to the mammalian blood gas barrier. In AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. ISSN 1040-0605, 2018, vol. 314, no. 5, p. L808-L821., Registrované v: WOS
312. [1.1] ZIDAN, G. - RUPENTHAL, I.D. - GREENE, C. - SEYFODDIN, A. Medicated ocular bandages and corneal health: potential excipients and active pharmaceutical ingredients. In PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY. ISSN 1083-7450, 2018, vol. 23, no. 3, p. 255-260., Registrované v: WOS
313. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. - GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. - TROMBETTA, M. Hyaluronan: An overview. In JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS. ISSN 0393-974X, 2017, vol. 31, no. 4, p. 9-22., Registrované v: SCOPUS
314. [1.2] AL-DALAEN, S. - AL-QTAITAT, A. - AL-RAWASHDEH, M. - ALZYOUD, J. - AL-MAATHADI, A. Rheumatoid arthritis: Hyaluronic acid and cartilage oligomeric matrix protein as predictors of the disease progression. In BIOMEDICAL AND PHARMACOLOGY JOURNAL. ISSN 0974-6242, 2016, vol. 9, no. 1, p. 15-23., Registrované v: SCOPUS
315. [1.2] BASSAS-GALIA, M. - FOLLONIER, S. - PUSNIK, M. - ZINN, M. Natural polymers: A source of inspiration. (Book Chapter). In BIORESORBABLE POLYMERS FOR BIOMEDICAL APPLICATIONS: FROM FUNDAMENTALS TO TRANSLATIONAL MEDICINE. Elsevier. 2016, p.31-64. ISBN 978-008100266-7; 978-008100262-9., Registrované v: SCOPUS
316. [1.2] BHATIA, S. Plant derived polymers, properties, modification & applications.(Book Chapter). In NATURAL POLYMER DRUG DELIVERY SYSTEMS. NANOPARTICLES, PLANTS, AND ALGAE. Springer International Publishing, 2016, p. 119-184. ISBN 978-331941129-3; 978-331941128-6., Registrované v: SCOPUS
317. [1.2] BHATT, R. - JAFFE, M. Biopolymers in medical implants. (Book Chapter). In EXCIPIENT APPLICATIONS IN FORMULATION DESIGN AND DRUG DELIVERY. Springer International Publishing 2015, p. 311-348. ISBN 978-331920206-8;978-331920205-1, Registrované v: SCOPUS
318. [1.2] COLLIEC-JOUAULT, S. Skin tissue engineering using functional marine biomaterials. (Book Chapter). In FUNCTIONAL MARINE BIOMATERIALS: PROPERTIES AND APPLICATIONS. Elsevier Inc., 2015, p. 69-90. ISBN 978-178242094-1;978-178242086-6, Registrované v: SCOPUS
319. [1.2] DAVIDENKO, Natalia - CAMERON, Ruth - BEST, Serena. Natural biopolymers for biomedical applications. In Encyclopedia of Biomedical Engineering, 2019-01-01, 1-3, pp. 162-176., Registrované v: SCOPUS
320. [1.2] DE OLIVEIRA, J.D. - CARVALHO, L.S. - GOMES, A.M.V. - QUEIROZ, L.R. - MAGALHAES,B.S. - PARACHIN, N.S. Genetic basis for hyper production of hyaluronic acid in natural and engineered microorganisms. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no. 1, art. no. 119., Registrované v: SCOPUS
321. [1.2] DELBARRE-LADRAT, C. - BOURSICOT, V. - COLLIEC-JOUAULT, S. Marine-derived exopolysaccharides. (Book Chapter).

In SPRINGER HANDBOOK OF MARINE BIOTECHNOLOGY. Springer Berlin Heidelberg, 2015, p. 919-939. ISBN 978-364253971-8;978-364253970-1, Registrované v: SCOPUS

322. [1.2] DING, J.J. - SUN, W.Q. Research status of hyaluronan composite materials. In CHINESE JOURNAL OF TISSUE ENGINEERING RESEARCH. ISSN 1673-8225, 2015, vol. 19, no. 21, p. 3403-3408., Registrované v: SCOPUS

323. [1.2] DONG, S. - ZHU, P. - XU, X. - LI, S. - JIANG, Y. - XU, H. Computational fluid dynamics simulation of different impeller combinations in high viscosity fermentation and its application. In SHENGWU GONGCHENG XUEBAO/CHINESE JOURNAL OF BIOTECHNOLOGY. ISSN 1000-3061, 2015, vol. 31, no. 7, p. 1099-1107., Registrované v: SCOPUS

324. [1.2] DURU, I. - OĞUZ, Ö.D. - ÖZTATLI, H. - ARIKFIDAN, D.C. - KAYA, H. - DÖNMEZ, E. - EGE, D. Principle renewable biopolymers and their biomedical applications. (Book Chapter). In HANDBOOK OF COMPOSITES FROM RENEWABLE MATERIALS. Wiley 2017, vol. 1-8, p. 107-138. ISBN 978-111944163-2;978-111922362-7, Registrované v: SCOPUS

325. [1.2] Endogenous DAMPs, category II: Constitutively expressed, injury-modified molecules (Cat. II DAMPs). In Damage-Associated Molecular Patterns in Human Diseases, 2018-10-09, 1, pp. 269-305., Registrované v: SCOPUS

326. [1.2] ENHUI, Guo - ZITONG, Xu - YIZE, Liang - LIANG, Zhou - ZHAOXIANG, Lu - LIANG, You - YUJUN, Xia. Properties of a novel photocrosslinked fish collagen peptide-hyaluronic acid hydrogel. In Chinese Journal of Tissue Engineering Research. ISSN 20954344, 2020-10-01, 24, 28, pp. 4518-4525., Registrované v: SCOPUS

327. [1.2] GONÇALVES Maia Campos P.M.B. - DE MELO, M.O. - DE CAMARGO JUNIOR, F.B. Effects of polysaccharide-based formulations on human skin. (Book Chapter). In POLYSACCHARIDES: BIOACTIVITY AND BIOTECHNOLOGY. Springer International Publishing, 2015, p. 2045-2064. ISBN 978-331916298-0;978-331916297-3, Registrované v: SCOPUS

328. [1.2] HEDTRICH, S. - FRIE, W. Hyaluronic acid for percutaneous drug delivery. (Book Chapter). In PERCUTANEOUS PENETRATION ENHANCERS CHEMICAL METHODS IN PENETRATION ENHANCEMENT: MODIFICATION OF THE STRATUM CORNEUM. Springer Berlin Heidelberg, 2015, p. 1-10. ISBN 978-366247039-8;978-366247038-1, Registrované v: SCOPUS

329. [1.2] HONG, Bo Min - PARK, Su A. - PARK, Won Ho. Effect of photoinitiator on chain degradation of hyaluronic acid. In Biomaterials Research, 2019-11-21, 23, 1, pp., Registrované v: SCOPUS

330. [1.2] HUANG, Teng Le - YANG, Shu Hua - CHEN, Yi Ru - LIAO, Jo Yu - TANG, Yun - YANG, Kai Chiang. The therapeutic effect of aucubin-supplemented hyaluronic acid on interleukin-1beta-stimulated human articular chondrocytes. In Phytomedicine. ISSN 09447113, 2019-02-01, 53, pp. 1-8., Registrované v: SCOPUS

331. [1.2] CHEN, X. - HE, W. Current research of hyaluronic acid and thyroid-associated ophthalmopathy. In ZHONGHUA SHIYAN YANKE ZAZHI/CHINESE JOURNAL OF EXPERIMENTAL OPHTHALMOLOGY. ISSN 2095-0160, 2016, vol. 34, no. 11, p.1047-1050., Registrované v: SCOPUS

332. [1.2] CHO, D.-W. - LEE, J.-S. - JANG, J. - JUNG, J.W. - PARK, J.H.

- PATI, F. Organ printing. In ORGAN PRINTING. IOP publ., 2015, p. 1-91. ISBN 978-168174079-9;978-168174015-7, Registrované v: SCOPUS
333. [1.2] KAMALA, K. - SIVAPERUMAL, P. Biological activities of marine biopolymers. (Book Chapter). In INDUSTRIAL APPLICATIONS OF MARINE BIOPOLYMERS. CRC Press 2017, p. 179-192. ISBN 978-131531352-8;978-149873148-5, Registrované v: SCOPUS
334. [1.2] KHARE, A. - GROVER, K. - PAWAR, P. - SINGH, I. Mucoadhesive Polymers for Enhancing Retention in Ocular Drug Delivery. (Book Chapter). In PROGRESS IN ADHESION AND ADHESIVES. Wiley Blackwell, 2015, p. 451-484. ISBN: 978-111916234-6;978-111916219-3, Registrované v: SCOPUS
335. [1.2] KIM, Joong Kyun - JUNG, Hyun Yi - LEE, Hee Jin - CHO, Ja Young. Challenge to enhance the value of eco-friendly products biodegraded from fishery waste. In International Journal of Energy, Environment and Economics. ISSN 1054853X, 2015-01-01, 23, 4-5, pp. 623-639., Registrované v: SCOPUS
336. [1.2] KIM, J.K. - JUNG, H.Y. - CHO, J.Y. Zero-emission management of organic fisheries' waste and its favorable impact on the environment. (Book Chapter). In ORGANIC WASTE: MANAGEMENT STRATEGIES, ENVIRONMENTAL IMPACT AND EMERGING REGULATIONS. Nova Science Publishers, 2017, p. 39-69. ISBN 978-153610936-8;978-153610920-7., Registrované v: SCOPUS
337. [1.2] KIM, Soo Yeon - CHUN, Gie Taek. Strain improvement and bioprocess optimization for enhanced production of hyaluronic acid(ha) in bioreactor cultures of streptococcus zooepidemicus. In Microbiology and Biotechnology Letters. ISSN 1598642X, 2020-09-01, 48, 3, pp. 338-351., Registrované v: SCOPUS
338. [1.2] KOTCHARAT, Nararat - CHAROENKANBURKANG, Penpimol - LUCKANAGUL, Jittima Amie. Grafted hyaluronic acid nanogel for the incorporation of poly(I:C) as an immunostimulatory adjuvant. In Systematic Reviews in Pharmacy. ISSN 09758453, 2020-01-01, 11, 11, pp. 247-253., Registrované v: SCOPUS
339. [1.2] LEMMNITZER, K. - SÜß, R. - SCHILLER, J. TLC/MALDI MS of carbohydrates. (Book Chapter). In PLANAR CHROMATOGRAPHY - MASS SPECTROMETRY. CRC Press, 2015, p. 327-344. ISBN 978-149870589-9;978-149870588-2, Registrované v: SCOPUS
340. [1.2] MAGNO, Valentina - MEINHARDT, Andrea - WERNER, Carsten. Polymer Hydrogels to Guide Organotypic and Organoid Cultures. In Advanced Functional Materials. ISSN 1616301X, 2020-11-01, 30, 48, pp., Registrované v: SCOPUS
341. [1.2] MARCELLIN, E. - CHEN, W.Y. - NIELSEN, L.K. Metabolic pathway engineering for hyaluronic acid production. (Book Chapter). In HANDBOOK OF CARBOHYDRATE-MODIFYING BIOCATALYSTS. Pan Stanford Publishing. 2016, vol. 2, p. 683-696. ISBN 978-981466979-5; 978-981466978-8., Registrované v: SCOPUS
342. [1.2] MARTÍNEZ-CORREA, E. - OSORIO-DELGADO, M. A. - HENAO-TAMAYO, L. J. - CASTRO-HERAZO, C. I. Systemic classification of wound dressings: A review. In Revista Mexicana de Ingeniería Biomedica. ISSN 01889532, 2020-01-01, 41, 1, pp. 5-28., Registrované v: SCOPUS
343. [1.2] MCCABE-LANKFORD, Eleanor - MCCARTHY, Bryce -

- BERWICK, Margarita Arakelyan Peters - SALAFIAN, Kiarash - GALARZA-PAEZ, Laura - SARKAR, Santu - SLOOP, John - DONATI, George - BROWN, April J. - LEVI-POLYACHENKO, Nicole. Binding of targeted semiconducting photothermal polymer nanoparticles for intraperitoneal detection and treatment of colorectal cancer. In *Nanotheranostics*, 2020-01-01, 4, 3, pp. 107-118., Registrované v: SCOPUS
344. [1.2] MIAO, Tianxin - WANG, Junqing - ZENG, Yun - LIU, Gang - CHEN, Xiaoyuan. Polysaccharide-Based Controlled Release Systems for Therapeutics Delivery and Tissue Engineering: From Bench to Bedside. In *ADVANCED SCIENCE*. ISSN 2198-3844, 2018, vol. 5, no. 4, art. no. 1700513., Registrované v: SCOPUS
345. [1.2] MISTRY, N. - MOSKOW, J. - SHELKE, N.B. - YADAV, S. - BERG-FOELS, W.S.V. - KUMBAR, S.G. Bio-instructive Scaffolds for cartilage regeneration. (Book Chapter 5). In Justin L. Brown, Sangamesh G. Kumbhar and Brittany L. Banik edit. *BIO-INSTRUCTIVE SCAFFOLDS FOR MUSCULOSKELETAL TISSUE ENGINEERING AND REGENERATIVE MEDICINE*. Academic Press, Elsevier, 2016, p. 115-135. ISBN: 978-012803399-9;978-012803394-4., Registrované v: SCOPUS
346. [1.2] NEVAGI, R.J. - SKWARCZYNSKI, M. - TOTH, I. Polymers for subunit vaccine delivery. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2019, vol. 114, p. 397-410., Registrované v: SCOPUS
347. [1.2] NIE, Shaoping - TANG, Wei - YIN, Junyi - XIE, Mingyong. Research Progress on Structure and Functional Activities of Food-Derived Polysaccharides. In *JOURNAL OF CHINESE INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 1009-7848, 2018, vol. 18, no. 12, pp. 1-12., Registrované v: SCOPUS
348. [1.2] NIE, Wei - LIU, Weiwei - LIU, Dawei - CUI, Xiaoxue - LIU, Shanhai - LI, Xu - XIAO, Guangli - WANG, Shiwei - NIU, Huanyun - LI, Ruizhi. Host response of different cross-linked hyaluronic acid composite gels and matrix metalloproteinase-9 expression. In *Chinese Journal of Tissue Engineering Research*. ISSN 20954344, 2020-01-01, 24, 10, pp. 1557-1562., Registrované v: SCOPUS
349. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS
350. [1.2] PALAGI, S. - WALKER, D. - QIU, T. - FISCHER, P. Micro- and nanorobots in Newtonian and biological viscoelastic fluids. (Book Chapter). In *MICROBIOBOTICS: BIOLOGICALLY INSPIRED MICROSCALE ROBOTIC SYSTEMS: SECOND EDITION*. Elsevier Inc., 2017, p. 133-162. ISBN 978-032342993-1, Registrované v: SCOPUS
351. [1.2] PAN, N.C. - VIGNOLI, J.A. - BALDO, C. - PEREIRA, H.C.B. - DA SILVA, R.S.S.F. - CELLIGOI, M.A.P.C. Effect of fermentation conditions on the production of hyaluronic acid by streptococcus zooepidemicus ATCC 39920. In *ACTA SCIENTIARUM BIOLOGICAL SCIENCES*. ISSN 1679-9283, 2015, vol. 37, no. 4, p. 411-417., Registrované v: SCOPUS
352. [1.2] PARK, Soo Jeung - LEE, Minhee - YUN, Jeong Moon - KIM, Dakyung - KIM, Ok Kyung. Effects of lamb placenta on UVB-induced decrease

- in skin hydration. In JOURNAL OF THE KOREAN SOCIETY OF FOOD SCIENCE AND NUTRITION. ISSN 1226-3311, 2019, vol. 48, no. 1, pp. 18-23., Registrované v: SCOPUS
353. [1.2] QURESHI, Dilshad - NAYAK, Suraj Kumar - ANIS, Arfat - RAY, Sirsendu S. - KIM, Doman - HANH NGUYEN, Thi Thanh - PAL, Kunal. Introduction of biopolymers: Food and biomedical applications. In Biopolymer-Based Formulations: Biomedical and Food Applications, 2020-01-23, pp. 1-45., Registrované v: SCOPUS
354. [1.2] RAO, Sneha S. - REKHA, P. D. - ANIL, Sukumaran - LOWE, Baboucarr - VENKATESAN, Jayachandran. Natural polysaccharides for growth factors delivery. In Natural Polysaccharides in Drug Delivery and Biomedical Applications, 2019-01-01, pp. 495-512., Registrované v: SCOPUS
355. [1.2] REHMAN, Saleha - NABI, Bushra - BABOOTA, Sanjula - ALI, Javed. Natural anti-inflammatory agents for the management of osteoarthritis. In Discovery and Development of Anti-inflammatory Agents from Natural Products, 2019-01-01, pp. 101-140., Registrované v: SCOPUS
356. [1.2] ROHIT, Sheshrao Ghodke - JYOTI, Prasad Kakati - SUBBI, Rami Reddy Tadi - NARESH, Mohan - SENTHILKUMAR, Sivaprakasam. Kinetic modeling of hyaluronic acid production in palmyra palm (*Borassus flabellifer*) based medium by *Streptococcus zooepidemicus* MTCC 3523. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 137, pp. 284-293., Registrované v: SCOPUS
357. [1.2] SCHILLER, J. - BECHER, J. - MÖLLER, S. - LEMMNITZER, K. - RIEMER, T. - SCHNABELRAUCH, M. Characterization and chemical modification of glycosaminoglycans of the extracellular matrix. (Book Chapter). In SULFATED POLYSACCHARIDES. Nova Science Publishers, Inc., 2015, p. 73-106. ISBN 978-163483002-7;978-163482975-5, Registrované v: SCOPUS
358. [1.2] SIRISHA, V.L. - DSOUZA, J.S. Polysaccharide-based nanoparticles as drug delivery systems. (Book Chapter). In MARINE OMICS: PRINCIPLES AND APPLICATIONS. CRC Press, 2016, p. 643-682. ISBN 978-148225821-9;978-148225820-2, Registrované v: SCOPUS
359. [1.2] SMITH, David K. Chapter 9: Applications of Supramolecular Gels. In MONOGRAPHS IN SUPRAMOLECULAR CHEMISTRY. ISSN 1368-8642, 2018, Vol. 2018-January, no. 25, pp. 300-371., Registrované v: SCOPUS
360. [1.2] SRIVASTAVA, A. - SRIVASTAVA, A. - SRIVASTAVA, A. - CHANDRA, P. Marine biomaterials in therapeutics and diagnostics. (Book Chapter). In SPRINGER HANDBOOK OF MARINE BIOTECHNOLOGY. Springer Berlin Heidelberg, 2015, p. 1247-1263. ISBN: 978-364253971-8;978-364253970-1, Registrované v: SCOPUS
361. [1.2] TIWARI, Ankita - VERMA, Amit - PANDA, Pritish Kumar - SARAF, Shivani - JAIN, Ankit - JAIN, Sanjay K. Stimuli-responsive polysaccharides for colon-targeted drug delivery. In Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications: Volume 2: Advanced Nanocarriers for Therapeutics, 2018-01-01, pp. 547-566., Registrované v: SCOPUS
362. [1.2] VEERURAJ, A. - ARUMUGAM, M. - AJITHKUMAR, T.T. - BALASUBRAMANIAN, T. Bioprospecting potential of marine natural polymers of chitin and chitosan. (Book Chapter). In MARINE GLYCOBIOLOGY: PRINCIPLES AND APPLICATIONS. CRC Press, 2016, p. 263-278. ISBN

978-149870962-0;978-149870961-3, Registrované v: SCOPUS

363. [1.2] VERMA, Madan L. - KUMAR, Sanjeev - JESLIN, John - DUBEY, Navneet Kumar. Microbial production of biopolymers with potential biotechnological applications. In Biopolymer-Based Formulations: Biomedical and Food Applications, 2020-01-23, pp. 105-137., Registrované v: SCOPUS

364. [1.2] VIJI Chandran S. - AMRITHA, T.S. - RAJALEKSHMI, G. - PANDIMADEVI, M. Potential wound healing materials from the natural polymers A review. In INTERNATIONAL JOURNAL OF PHARMA AND BIO SCIENCES. ISSN 0975-6299, 2015, vol. 6, no. 3, p. B1365-B1389., Registrované v: SCOPUS

365. [1.2] WALICOVÁ, V. - GAJDZIOK, J. - GAJDOSOVÁ, M. - VETCHY, D. The influence of hyaluronan addition on thickness, weight, uniformity of mass and water content of mucoadhesive films. In CESKA A SLOVENSKA FARMACIE. ISSN 1210-7816, 2016, vol. 65, p. 94-98., Registrované v: SCOPUS

366. [1.2] WALSH, John P. - FARRELL, Terence P. - HYNES, John - HUGHES, Nicola - O'BYRNE, Ciara - EUSTACE, Stephen J. Therapeutic Intervention in Musculoskeletal Radiology: Current Practice and Future Directions. In Seminars in Musculoskeletal Radiology. ISSN 10897860, 2018-01-01, 22, 5, pp. 546-563., Registrované v: SCOPUS

367. [1.2] WILSON, J.L. - MCDEVITT, T.C. Biofunctional Hydrogels for Three-Dimensional Stem Cell Culture. (Book Chapter). In BIOLOGY AND ENGINEERING OF STEM CELL NICHES. Elsevier Inc., 2017, p. 345-362. ISBN 978-012802756-1;978-012802734-9, Registrované v: SCOPUS

368. [1.2] YANG, Jun - XIE, Jinghui - GAO, Chao - LIU, Kaizheng. Preparation and Characterization of VE-cad-Fc Functionalized Hyaluronic Acid Hydrogel. In TIANJIN DAXUE XUEBAO (ZIRAN KEXUE YU GONGCHENG JISHU BAN)/JOURNAL OF TIANJIN UNIVERSITY SCIENCE AND TECHNOLOGY. ISSN 0493-2137, 2019, vol. 52, no. 1, pp. 33-39., Registrované v: SCOPUS

369. [1.2] YANG, J. - CHOE, G. - YANG, S. - JO, H. - LEE, J.Y. Polypyrrole-incorporated conductive hyaluronic acid hydrogels. In BIOMATERIALS RESEARCH. ISSN 2055-7124, 2016, vol. 20, no. 1, art. no. 31., Registrované v: SCOPUS

370. [1.2] ZAKERI, Alireza - KHOSHROUR, Sepideh - KARAMI FATH, Mohsen - POURZARDOSHT, Navid - FAZELI, Faezeh - KHALILI, Saeed. Structural analyses and engineering of the pmHAS enzyme to improve its functional performance: An in silico study. In Journal of Carbohydrate Chemistry. ISSN 07328303, 2020-09-01, 39, 7, pp. 354-373., Registrované v: SCOPUS

371. [1.2] ZAKERI, A. - RASAEI, M.J. Identification of wild type Streptococcus Zooepidemicus and optimization of culture medium and fermentation conditions for production of hyaluronic acid. In BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA. ISSN 0973-1245, 2016, vol. 13, no. 1, p. 189-198., Registrované v: SCOPUS

372. [1.2] ZAKERI, A. - RASAEI, M.J. - POURZARDOSHT, N. Enhanced hyaluronic acid production in Streptococcus zooepidemicus by over expressing HasA and molecular weight control with Niscin and glucose. In BIOTECHNOLOGY REPORTS. ISSN 2215-017X, 2017, vol. 16, p. 65-70., Registrované v: SCOPUS

373. [1.2] ZAKRI, C. - POULIN, PH. Nematic phase formation in suspensions of carbon nanotubes. (Book Chapter 23). In LIQUID CRYSTALS WITH NANO AND MICROPARTICLES. Series in Soft Condensed Matter (Book 7). World Scientific Publishing, 2016, vol. 2, p. 775-796. ISBN 978-981461926-4;978-981461925-7., Registrované v: SCOPUS
374. [1.2] ZHANG, R. - FENG, J. Compound mutation breeding of streptococcus equi JC-63 for producing high molecular weight hyaluronic acid and optimization of culture conditions. International Conference on Advanced Materials and Engineering Materials, ICAMEM 2016; Hong Kong; China; 15-16 April 2016; Code 180049. In KEY ENGINEERING MATERIALS. ISSN 1013-9826, ISBN 978-303835701-8, 2016, vol. 703, p. 337-342., Registrované v: SCOPUS
375. [1.2] ZHENG, S. - CHO, S. - NGUYEN, V.D. - CHOI, E. - HAN, J. - PARK, J.-O. Development of hyaluronic acid microcargo for therapeutic bacteriobots. (Conference Paper). In edit. vol. Haliyo S., Martel S., Fatikow S. INTERNATIONAL CONFERENCE ON MANIPULATION, AUTOMATION AND ROBOTICS AT SMALL SCALES. MARSS 2017 - PROCEEDINGS. Publish. Institute of Electrical and Electronics Engineers, 2017, art. no. 8001912. ISBN 978-153860346-8., Registrované v: SCOPUS
376. [1.2] ZHU, Yuefei - PANG, Zhiqing. Hyaluronic acid in drug delivery applications. In Natural Polysaccharides in Drug Delivery and Biomedical Applications, 2019-01-01, pp. 307-325., Registrované v: SCOPUS
377. [2.1] YUAN, P.H. - LV, M.X. - JIN, P. - WANG, M. - DU, G.C. - CHEN, J. - KANG, Z. Enzymatic production of specifically distributed hyaluronan oligosaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 129, p. 194-200., Registrované v: WOS
378. [3.1] ALI, Z. - SHARMA, P.K. - WARSI, M.H. An insight of natural polymers in ocular drug delivery systems. In JOURNAL OF CHRONOTHERAPY AND DRUG DELIVERY. ISSN 2249-6785, 2016, vol. 7, no. 1, p. 7-19.
379. [3.1] Al-Khateeb, Rami - Prpic, Jelena. Hyaluronic Acid: The Reason for Its Variety of Physiological and Biochemical Functional Properties. In APPLIED CLINICAL RESEARCH, CLINICAL TRIALS AND REGULATORY AFFAIRS. ISSN 2213-476X, 2019, vol. 6, no. 2, p. 112-159. DOI: 10.2174/2213476X06666190405094637
380. [3.1] Badwaik, Hemant Ramchandra - Nakhate, Katrik - Kumari, Leena - Sakure, Kalyani. Oral Delivery of Proteins and Polypeptides through Polysaccharide Nanocarriers. In POLYSACCHARIDE-BASED NANO-BIOCARRIER IN DRUG DELIVERY. ISBN 978-1-138-48111-4, 2019, Chapter 1, p. 1-24.
381. [3.1] BURCI, L.M. - BARBOSA, P.B.D. - DA SILVA, C.B. - ZANINI, S.M.W. - MIGUEL, O.G. - DIAS, JFG MIGUEL, M.D. Patentability potential of natural products for xerostomia treatment. In BRAZILIAN DENTAL SCIENCE. ISSN 2178-6011, 2016, vol. 19, no. 1, p. 4-12.
382. [3.1] GODSE, R. - SINGH, K. - SHRIVASTAVA, A. - SHINDE, U. Polymeric nanoparticulate systems: A potential approach for ocular drug delivery. (Book Chapter 16). In Pathak, Y. et al eds. NANO-BIOMATERIALS FOR OPHTHALMIC DRUG DELIVERY. Springer International Publish., 2016, p. 351-387. ISBN 978-3-319-29344-8.
383. [3.1] Jampílek, Josef - Kráľová, Katarína. Natural Biopolymeric

Nanoformulations for Brain Drug Delivery. In NANOCARRIERS FOR BRAIN TARGETING: Principles and Applications. eBook ISBN 9780429465079, 2019, Chapter 5, p. 131-204.

384. [3.1] KIM, J.K. - JUNG, H.Y. – LEE, H.J. - CHO, J.Y. Challenge to enhance the value of eco-friendly products biodegraded from fishery waste. (Book Chapter 2). In Justin A. Daniels edit. ADVANCES IN ENVIRONMENTAL RESEARCH. Nova Science Publish., 2016, vol. 47, p. 21-38. ISBN 978-1-63483-758-3.

385. [3.1] MONDON, K. - DADRAS, M. - TILLIER, J. - GAVARD MOLLIARD S. Influence of the macro- and/or microstructure of cross-linked hyaluronic acid hydrogels on the release of two model drugs. In JOURNAL OF GLYCOBIOLOGY. ISSN 2168-958X, 2016, vol. 5, no. 1, art. no. 119.

386. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

387. [3.1] Shoda, Shin-ichiro - Noguchi, Masato - Li, Gefei - Kimura, Shunsaku. Synthesis of Polysaccharides I: Hydrolase as Catalyst. In ENZYMATIC POLYMERIZATION TOWARDS GREEN POLYMER CHEMISTRY, Series: Green Chemistry and Sustainable Technology. ISBN 978-981-13-3812-0. 2019, Chapter 2, p. 15-46.
doi.org/10.1007/978-981-13-3813-7_2

388. [3.1] Shukla, Aparna - Maiti, Pralay. Biodegradable Polymer-Based Nanohybrids for Controlled Drug Delivery and Implant Applications. In ADVANCES IN SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS. Book Series Title: Materials Horizons: From Nature to Nanomaterials. Online ISBN 978-981-32-9804-0, 2019, Chapter 1, p. 3-19.
doi.org/10.1007/978-981-32-9804-0_1

389. [3.1] STEFANOVIĆ KOJIĆ, J.R. - VRVIĆ, M.V. - GOJGIĆ-CVIJOVIĆ, G.D. - BEŠKOSKI, V.P. - JAKOVLJEVIĆ, M.D. Microbial polysaccharides: between oil wells, food and drugs. (Book Chapter 17). In Nedović V. et al eds. EMERGING AND TRADITIONAL TECHNOLOGIES FOR SAFE, HEALTHY AND QUALITY FOOD, part of the Food Engineering Series (FSES). Springer International Publish., 2016, p. 313-327. Series print ISSN 1571-0297, ISBN 978-3-319-24038-1.

390. [3.1] Yazdani, Arash - Noorbakhsh, Armaghan. Hydroxyapatite - Hyaluronic acid scaffold production using solvent extraction method. In JOURNAL OF NEW MATERIALS. ISSN 2228-5946, 2019, vol. 9, no. 4(36), p. 133-140.

391. [3.2] BUBNOVA, I.A. - EGOROVA, G.B. - MITICHKINA, T.S. - AVERICH, V.V. - FETTSEY, E.I. Secondary dry eye syndrome after keratorefractive surgeries and approaches to its treatment and prevention. In VESTNIK OFTAL'MOLOGII. ISSN 0042-465X, 2018, vol. 134, no. 5-2, p. 294-298., Registrované v: Russian Science Citation Index

392. [3.2] Kim, E. Sle - Choi, Bokryul - Kang, Ju Hee - Lee, Keyong Ho. Improving the Rheological Properties of Cross-linked Hyaluronic Acid Gels by Mixing in Mannitol as a Radical Scavenger. In ASIAN JOURNAL OF BEAUTY AND COSMETOLOGY. ISSN 2466-2046, 2019, vol. 17, no. 1, p. 57-67.

393. [3.2] KIM, Sooyeon - CHUN, Gie-Taek. Development of Continuous Culture Process for Economic Production of Hyaluronic Acid (HA) Biosynthesized by *Streptococcus zooepidemicus*. In *Korean Journal of Microbiology and Biotechnology*. ISSN 1598-642X, DEC 2020, vol. 48, no. 4, p. 525-532., Registrované v: BIOSIS Citation Index
394. [3.2] MUTLU, E.C. - YILDIRIM, M. Improved Morphology and Biocompatibility of Chitosan/PEO Casting Films Adding Hyaluronic Acid. In *HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY*. ISSN 1303-5002, 2018, vol. 46, no. 3, p. 365-372., Registrované v: BIOSIS Citation Index

ADCA627 KOGAN, Grigorij - ŠANDULA, Jozef - KOROLENKO, T.A. - FALAMEEVA, O.V. - POTERYAEVA, O.N. - ZHANAEVA, S.Ya. - LEVINA, O.A. - FILATOVA, T.G. - KALÉDIN, V.I. Increased efficiency of Lewis lung carcinoma chemotherapy with a macrophage stimulator - yeast carboxymethyl glucan. In *International Immunopharmacology*, 2002, vol. 2, p. 775-781. ISSN 1567-5769. Dostupné na: [https://doi.org/10.1016/S1567-5769\(02\)00015-2](https://doi.org/10.1016/S1567-5769(02)00015-2)

Ohlasy:

1. [1.1] ABOU ZIED, Alaa M. - ABD EL-ZAHER, Eman H. F. - IBRAHIM, H. A. H. - HAMMAD, Toka A. Exopolysaccharides Production and Characterization from Marine-Derived *Penicillium commune* KP942881.1 with Some Medical Potential Applications. In *EGYPTIAN JOURNAL OF BOTANY*. ISSN 0375-9237, 2017, vol. 57, no., pp. 17-30., Registrované v: WOS
2. [1.1] GU, Zili - SHAIKH, Abdul Sami - LIN, Guimei. Novel 'Stereoscopic Response' Strategy Can Be Used in Combination Therapy. In *CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS*. ISSN 0743-4863, 2018, vol. 35, no. 4, pp. 369-390., Registrované v: WOS
3. [1.1] KAGIMURA, Francini Y. - DA CUNHA, Mario Antonio A. - THEIS, Thais V. - Malfatti, Carlos R. M. - DEKKER, Robert F. H. - BARBOSA, Aneli M. - TEIXEIRA, Sirlei D. - SALOME, Kahlil. Carboxymethylation of (1→6)-beta-glucan (lasiodiplodan): Preparation, characterization and antioxidant evaluation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 127, no., pp. 390-399., Registrované v: WOS
4. [1.1] KAGIMURA, Francini Yumi - DA CUNHA, Mario Antonio A. - BARBOSA, Aneli M. - DEKKER, Robert F. H. - MANECK Malfatti, Carlos Ricardo. Biological activities of derivatized D-glucans: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 72, no., pp. 588-598., Registrované v: WOS
5. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS
6. [1.1] ROUDI, Raheleh - MOHAMMADI, Shahla Roudbar - ROODBARY, Maryam - MOHSENZADEGAN, Monireh. Lung cancer and beta-glucans: review of potential therapeutic applications. In *INVESTIGATIONAL NEW DRUGS*. ISSN 0167-6997, 2017, vol. 35, no. 4, pp. 509-517., Registrované v: WOS
7. [1.1] VETVICKA, Vaclav - VETVICKOVA, Jana. Addition of

Selenium Improves Immunomodulative Effects of Glucan. In NORTH AMERICAN JOURNAL OF MEDICAL SCIENCES. ISSN 2250-1541, 2016, vol. 8, no. 2, pp. 88-92., Registrované v: WOS

8. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS

ADCA628 KOGAN, Grigorij - PAVLIAK, Viliam - ŠANDULA, Jozef - MASLER, Ladislav. Novel structure of the cellular mannan of the pathogenic yeast *Candida krusei*. In *Carbohydrate Research*, 1988, vol. 184, p.171-182. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(88\)80015-6](https://doi.org/10.1016/0008-6215(88)80015-6)

Ohlasy:

1. [1.1] CIMMINO, Alessio - CINELLI, Tamara - EVIDENTE, Marco - MASI, Marco - MUGNAI, Laura - SILVA, Marcondes A. - MICHEREFF, Sami J. - SURICO, Giuseppe - EVIDENTE, Antonio. Phytotoxic Fungal Exopolysaccharides Produced by Fungi Involved in Grapevine Trunk Diseases. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2016, vol. 11, no. 10, pp. 1481-1484., Registrované v: WOS

2. [1.1] THU NGOC YEN NGUYEN - PADUNGROS, Panuwat - WONGSRISUPPHAKUL, Panachai - SA-ARD-IAM, Noppadol - MAHANONDA, Rangsin - MATANGKASOMBUT, Oranart - CHOO, Min-Kyung - RITPRAJAK, Patcharee. Cell wall mannan of *Candida krusei* mediates dendritic cell apoptosis and orchestrates Th17 polarization via TLR-2/MyD88-dependent pathway. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA629 KOGAN, Grigorij - KOCHER, A. Role of yeast cell wall polysaccharides in pig nutrition and health protection. In *Livestock Science*, 2007, vol. 109, p. 161-165. (2006: Q4 - JCR, 0.957 - SJR, Q1 - SJR). ISSN 1871-1413. Dostupné na: <https://doi.org/10.1016/j.livsci.2007.01.134>

Ohlasy:

1. [1.1] ABDOLSHAHI, Anna - MARVDASHTI, Leila Monjaze - SALEHI, Bahare - SHARIFI-RAD, Mehdi - GHOBAKHLOO, Safiyeh - IRITI, Marcello - SHARIFI-RAD, Javad. Antifungal activities of coating incorporated with *Saccharomyces cerevisiae* cell wall mannoprotein on *Aspergillus flavus* growth and aflatoxin production in pistachio (*Pistacia vera* L.). In JOURNAL OF FOOD SAFETY. ISSN 0149-6085, 2019, vol. 39, no. 2, pp., Registrované v: WOS

2. [1.1] BORCHANI, Chema - FONTEYN, Fabienne - JAMIN, Guilhem - PAQUOT, Michel - THONART, Philippe - BLECKER, Christophe. Physical, functional and structural characterization of the cell wall fractions from baker's yeast *Saccharomyces cerevisiae*. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 194, no., pp. 1149-1155., Registrované v: WOS

3. [1.1] BOUWHUIS, M. A. - SWEENEY, T. - MUKHOPADHYA, A. - THORNTON, K. - MCALPINE, P. O. - O'DOHERTY, J. V. Zinc methionine and laminarin have growth-enhancing properties in newly weaned pigs influencing both intestinal health and diarrhoea occurrence. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439,

2017, vol. 101, no. 6, pp. 1273-1285., Registrované v: WOS

4. [1.1] BRUFAU, M. Teresa - CAMPO-SABARIZ, Joan - BOU, Ricard - CARNE, Sergi - BRUFAU, Joaquim - VILA, Borja - MARQUES, Ana M. - GUARDIOLA, Francesc - FERRER, Ruth - MARTIN-VENEGAS, Raquel. Salmosan, a beta-Galactomannan-Rich Product, Protects Epithelial Barrier Function in Caco-2 Cells Infected by Salmonella enterica Serovar Enteritidis. In JOURNAL OF NUTRITION. ISSN 0022-3166, 2016, vol. 146, no. 8, pp. 1492-1498., Registrované v: WOS

5. [1.1] BRUS, M. - GRADISNIK, L. - TRAPECAR, M. - SKORJANC, D. - FRANGEZ, R. Beneficial effects of water-soluble chestnut (*Castanea sativa* Mill.) tannin extract on chicken small intestinal epithelial cell culture. In POULTRY SCIENCE. ISSN 0032-5791, 2018, vol. 97, no. 4, pp. 1271-1282., Registrované v: WOS

6. [1.1] BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - MOLEND, Magdalena - RECZEK, Lidia. Biosynthesis of beta(1,3)/(1,6)-glucans of cell wall of the yeast *Candida utilis* ATCC 9950 strains in the culture media supplemented with deproteinized potato juice water and glycerol. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 240, no. 5, pp. 1023-1034., Registrované v: WOS

7. [1.1] CRISTOFOLINI, A. - MERKIS, C. - FIORIMANTI, M. - MAGNOLI, A. - CAVERZAN, M. - CAVAGLIERI, L. *Saccharomyces cerevisiae* RC016 modulates the apoptotic pathways in rat livers treated with aflatoxin B-1. In WORLD MYCOTOXIN JOURNAL. ISSN 1875-0710, 2019, vol. 12, no. 4, pp. 387-397., Registrované v: WOS

8. [1.1] CRUZ, Ana - HAKENASEN, Ingrid M. - SKUGOR, Adrijana - MYDLAND, Liv T. - AKESSON, Caroline P. - HELLESTVEIT, Selina S. - SORBY, Randi - PRESS, Charles McL. - OVERLAND, Margareth. *Candida utilis* yeast as a protein source for weaned piglets: Effects on growth performance and digestive function. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2019, vol. 226, no., pp. 31-39., Registrované v: WOS

9. [1.1] CZECH, Anna - SMOLCZYK, Aleksandra - OGNIK, Katarzyna - WLAZLO, Lukasz - NOWAKOWICZ-DEBEK, Bozena - KIESZ, Martyna. Effect of dietary supplementation with *Yarrowia lipolytica* or *Saccharomyces cerevisiae* yeast and probiotic additives on haematological parameters and the gut microbiota in piglets. In RESEARCH IN VETERINARY SCIENCE. ISSN 0034-5288, 2018, vol. 119, no., pp. 221-227., Registrované v: WOS

10. [1.1] DAR, Aashaq Hussain - SINGH, S. K. - KUMAR, Sanjay - PARA, Irshad Ahmad - DEVI, K. Merina - KUMAR, Nitesh - KHAN, Aamir Suhail - KURAT-UL-AIN. Impact of supplementation of probiotic, prebiotic and synbiotic on serum biochemical profile of crossbred calves. In INDIAN JOURNAL OF ANIMAL RESEARCH. ISSN 0367-6722, 2019, vol. 53, no. 2, pp. 232-235., Registrované v: WOS

11. [1.1] DE ANDRADE SILVA, Cinthia Aparecida - OKA, Marta Ligia - FONSECA, Gustavo Graciano. Physiology of yeast strains isolated from Brazilian biomes in a minimal medium using fructose as the sole carbon source reveals potential biotechnological applications. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 5, pp., Registrované v: WOS

12. [1.1] DOGI, C. - CRISTOFOLINI, A. - GONZALEZ PEREYRA, M. L. - GARCIA, G. - FOCESATO, A. - MERKIS, C. - DALCERO, A. M. - CAVAGLIERI, L. R. Aflatoxins and *Saccharomyces cerevisiae*: yeast modulates

- the intestinal effect of aflatoxins, while aflatoxin B-1 influences yeast ultrastructure. In *WORLD MYCOTOXIN JOURNAL*. ISSN 1875-0710, 2017, vol. 10, no. 2, pp. 171-181., Registrované v: WOS
13. [1.1] DOTSSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS
14. [1.1] DUAN, X. D. - CHEN, D. W. - ZHENG, P. - TIAN, G. - WANG, J. P. - MAO, X. B. - YU, J. - HE, J. - LI, B. - HUANG, Z. Q. - AO, Z. G. - YU, B. Effects of dietary mannan oligosaccharide supplementation on performance and immune response of sows and their offspring. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2016, vol. 218, no., pp. 17-25., Registrované v: WOS
15. [1.1] DUMITRACHE, Corina - MATEI, Florentina - BARBULESCU, Diana Iuliana - FRINCUI, Mihai - TUDOR, Valerica - HIRJOABA, Lucian Nelutu - TEODORESCU, Razvan Ionut. PROTEIN SOURCES FOR ANIMAL FEED: YEAST BIOMASS OF BEER AND/OR WINE REVIEW. In *SCIENTIFIC PAPERS-SERIES E-LAND RECLAMATION EARTH OBSERVATION & SURVEYING ENVIRONMENTAL ENGINEERING*. ISSN 2285-6064, 2019, vol. 8, no., pp. 175-182., Registrované v: WOS
16. [1.1] FOMENKY, Bridget E. - CHIQUETTE, Johanne - LESSARD, Martin - BISSONNETTE, Nathalie - TALBOT, Guylaine - CHOUINARD, Yvan P. - IBEAGHA-AWEMU, Eveline M. Saccharomyces cerevisiae var. boulardii CNCM I-1079 and Lactobacillus acidophilus BT1386 influence innate immune response and serum levels of acute-phase proteins during weaning in Holstein calves. In *CANADIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0008-3984, 2018, vol. 98, no. 3, pp. 576-588., Registrované v: WOS
17. [1.1] HASAN, Shah - JUNNIKKALA, Sami - PELTONIEMI, Olli - PAULIN, Lars - LYYSKI, Annina - VUORENMAA, Juhani - OLIVIERO, Claudio. Dietary supplementation with yeast hydrolysate in pregnancy influences colostrum yield and gut microbiota of sows and piglets after birth. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 5, pp., Registrované v: WOS
18. [1.1] CHEN, Wenyan - LIN, Shimei - LI, Fajian - MAO, Shuhong. Effects of dietary mannanase on growth, metabolism and non-specific immunity of Tilapia (*Oreochromis niloticus*). In *AQUACULTURE RESEARCH*. ISSN 1355-557X, 2016, vol. 47, no. 9, pp. 2835-2843., Registrované v: WOS
19. [1.1] JAHANIAN, E. - MAHDAVI, A. H. - ASGARY, S. - JAHANIAN, R. - TAJADINI, M. H. Effect of dietary supplementation of mannanoligosaccharides on hepatic gene expressions and humoral and cellular immune responses in aflatoxin-contaminated broiler chicks. In *PREVENTIVE VETERINARY MEDICINE*. ISSN 0167-5877, 2019, vol. 168, no., pp. 9-18., Registrované v: WOS
20. [1.1] JIN, Linghong - WANG, Wei - DEGROOTE, Jeroen - VAN NOTEN, Noemie - YAN, Honglin - MAJDEDDIN, Maryam - VAN POUCKE, Mario - PEELMAN, Luc - GODERIS, Anne - VAN DE MIEROP, Kurt - MOMBAERTS, Ronny - DE SMET, Stefaan - MICHIELS, Joris. Mycotoxin binder improves growth rate in piglets associated with reduction of toll-like

- receptor-4 and increase of tight junction protein gene expression in gut mucosa. In JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY. ISSN 2049-1891, 2017, vol. 8, no., pp., Registrované v: WOS
21. [1.1] KEIMER, Birgit - PIEPER, Robert - SIMON, Annette - ZENTEK, Juergen. Effect of time and dietary supplementation with processed yeasts (*Kluyveromyces fragilis*) on immunological parameters in weaned piglets. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2018, vol. 245, no., pp. 136-146., Registrované v: WOS
22. [1.1] KEIMER, B. - KROEGER, S. - ROEHE, I. - PIEPER, R. - SIMON, A. - ZENTEK, J. Influence of differently processed yeast (&IT*Kluyveromyces fragilis*&IT) on feed intake and gut physiology in weaned pigs. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2018, vol. 96, no. 1, pp. 194-205., Registrované v: WOS
23. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
24. [1.1] LIU, Gang - YU, Lei - MARTINEZ, Yordan - REN, Wenkai - NI, Hengjia - AL-DHABI, Naif Abdullah - DURAIANDIYAN, Veeramuthu - YIN, Yulong. Dietary *Saccharomyces cerevisiae* Cell Wall Extract Supplementation Alleviates Oxidative Stress and Modulates Serum Amino Acids Profiles in Weaned Piglets. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS
25. [1.1] LIU, Ning - WANG, Jinquan - LIU, Zhaoyang - WANG, Yongchao - WANG, Jianping. Effect of supplemental yeast cell walls on growth performance, gut mucosal glutathione pathway, proteolytic enzymes and transporters in growing broiler chickens. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2018, vol. 96, no. 4, pp. 1330-1337., Registrované v: WOS
26. [1.1] LIU, Yanhong - ESPINOSA, Charmaine D. - ABELILLA, Jerubella J. - CASAS, Gloria A. - LAGOS, L. Vanessa - LEE, Su A. - KWON, Woong B. - MATHAI, John K. - NAVARRO, Diego M. D. L. - JAWORSKI, Neil W. - STEIN, Hans H. Non-antibiotic feed additives in diets for pigs: A review. In ANIMAL NUTRITION. ISSN 2405-6383, 2018, vol. 4, no. 2, pp. 113-125., Registrované v: WOS
27. [1.1] LI, X. H. - CHEN, Y. P. - CHENG, Y. F. - YANG, W. L. - WEN, C. - ZHOU, Y. M. Effect of yeast cell wall powder with different particle sizes on the growth performance, serum metabolites, immunity and oxidative status of broilers. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2016, vol. 212, no., pp. 81-89., Registrované v: WOS
28. [1.1] NANG, Zhaohui - URRIOLA, Pedro E. - HILBRANDS, Adrienne M. - JOHNSTON, Lee J. - SHURSON, Gerald C. Growth performance of nursery pigs fed diets containing increasing levels of a novel high-protein corn distillers dried grains with solubles. In TRANSLATIONAL ANIMAL SCIENCE, 2019, vol. 3, no. 1, pp. 350-358., Registrované v: WOS
29. [1.1] NASIRI, K. - SADEGHI, A. A. - NIKKHAH, A. - CHAMANI, M. Effects of live and hydrolyzed yeast supplementation during transition period on blood IgG content and INF-gamma gene expression in dairy cows. In JOURNAL OF LIVESTOCK SCIENCE, 2018, vol. 9, no., pp. 65-69., Registrované v: WOS

30. [1.1] OANH NGUYEN CON - BERNARD, Taminiau - DANG PHAM KIM - LUC DO DUC - NASSIM, Moula - HUYEN NGUYEN THI - THINH NGUYEN HOANG - GEORGES, Daube - JEROME, Bindelle - TON VU DINH - HORNICK, Jean-Luc. Growth performance, carcass quality characteristics and colonic microbiota profiles in finishing pigs fed diets with different inclusion levels of rice distillers' by-product. In ANIMAL SCIENCE JOURNAL. ISSN 1344-3941, 2019, vol. 90, no. 8, pp. 948-960., Registrované v: WOS
31. [1.1] O'DOHERTY, J. V. - BOUWHUIS, M. A. - SWEENEY, T. Novel marine polysaccharides and maternal nutrition to stimulate gut health and performance in post-weaned pigs. In ANIMAL PRODUCTION SCIENCE. ISSN 1836-0939, 2017, vol. 57, no. 12, pp. 2376-2385., Registrované v: WOS
32. [1.1] PENG, W-X. - MARCHAL, J. L. M. - VAN DER POEL, A. F. B. Strategies to prevent and reduce mycotoxins for compound feed manufacturing. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2018, vol. 237, no., pp. 129-153., Registrované v: WOS
33. [1.1] PEREZ-QUIRCE, Sandra - CABALLERO, Pedro A. - VELA, Antonio J. - VILLANUEVA, Marina - RONDA, Felicidad. Impact of yeast and fungi (1> 3)(1> 6)-beta-glucan concentrates on viscoelastic behavior and bread making performance of gluten-free rice-based doughs. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 79, no., pp. 382-390., Registrované v: WOS
34. [1.1] RAWLING, Mark D. - PONTEFRACCT, Nicola - RODILES, Ana - ANAGNOSTARA, Ilektra - LECLERCQ, Eric - SCHIAVONE, Marion - CASTEX, Mathieu - MERRIFIELD, Daniel L. The effect of feeding a novel multistrain yeast fraction on European seabass (*Dicentrarchus labrax*) intestinal health and growth performance. In JOURNAL OF THE WORLD AQUACULTURE SOCIETY. ISSN 0893-8849, 2019, vol. 50, no. 6, pp. 1108-1122., Registrované v: WOS
35. [1.1] SALAMATI, S. - MARTINS, C. - KULSENG, B. Baker's yeast (*Saccharomyces cerevisiae*) antigen in obese and normal weight subjects. In CLINICAL OBESITY. ISSN 1758-8103, 2015, vol. 5, no. 1, pp. 42-47., Registrované v: WOS
36. [1.1] SAN ANDRES, Joice V. - MASTROMANO, Gabriel A. - LI, Yanshuo - HUYEN TRAN - BUNDY, Justin W. - MILLER, Phillip S. - BURKEY, Thomas E. The effects of prebiotics on growth performance and in vitro immune bionarkers in weaned pigs. In TRANSLATIONAL ANIMAL SCIENCE, 2019, vol. 3, no. 4, pp. 1315-1325., Registrované v: WOS
37. [1.1] SANCHEZ, Nicole C. Burdick - CARROLL, Jeffery A. - CORLEY, Jimmie R. - BROADWAY, Paul R. - CALLAWAY, Todd R. Changes in the Hematological Variables in Pigs Supplemented With Yeast Cell Wall in Response to a Salmonella Challenge in Weaned Pigs. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2019, vol. 6, no., pp., Registrované v: WOS
38. [1.1] SANTOVITO, Elisa - GRECO, Donato - D'ASCANIO, Vito - MARQUIS, Virginie - RASPOET, Ruth - LOGRIECO, Antonio F. - AVANTAGGIATO, Giuseppina. Equilibrium Isotherm Approach to Measure the Capability of Yeast Cell Wall to Adsorb *Clostridium perfringens*. In FOODBORNE PATHOGENS AND DISEASE. ISSN 1535-3141, 2019, vol. 16, no. 9, pp. 630-637., Registrované v: WOS

39. [1.1] SANTOVITO, Elisa - GRECO, Donato - MARQUIS, Virginie - RASPOET, Ruth - D'ASCANIO, Vito - LOGRIECO, Antonio F. - AVANTAGGIATO, Giuseppina. Antimicrobial Activity of Yeast Cell Wall Products Against *Clostridium perfringens*. In *FOODBORNE PATHOGENS AND DISEASE*. ISSN 1535-3141, 2019, vol. 16, no. 9, pp. 638-647., Registrované v: WOS
40. [1.1] SHANG, Q. H. - YANG, Z. B. - YANG, W. R. - LI, Z. - ZHANG, G. G. - JIANG, S. Z. Toxicity of Mycotoxins from Contaminated Corn with or without Yeast Cell Wall Adsorbent on Broiler Chickens. In *ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES*. ISSN 1011-2367, 2016, vol. 29, no. 5, pp. 674-680., Registrované v: WOS
41. [1.1] SHURSON, G. C. Yeast and yeast derivatives in feed additives and ingredients: Sources, characteristics, animal responses, and quantification methods. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 235, no., pp. 60-76., Registrované v: WOS
42. [1.1] SILVA, Viviam de Oliveira - PEREIRA, Luciano Jose - MURATA, Ramiro Mendonca. Oral microbe-host interactions: influence of beta-glucans on gene expression of inflammatory cytokines and metabolome profile. In *BMC MICROBIOLOGY*. ISSN 1471-2180, 2017, vol. 17, no., pp., Registrované v: WOS
43. [1.1] SIMION, Andrei I. - MANEA, Livia - GRIGORAS, Cristina-Gabriela - FAVIER-TEODORESCU, Lidia - GAVRILA, Lucian. IMPROVING THE NUTRITIONAL QUALITY OF FODDER YEASTS BY ADDING MINERALS. In *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*. ISSN 1582-9596, 2016, vol. 15, no. 5, pp. 1009-1017., Registrované v: WOS
44. [1.1] SWEENEY, T. - O'DOHERTY, J. V. Marine macroalgal extracts to maintain gut homeostasis in the weaning piglet. In *DOMESTIC ANIMAL ENDOCRINOLOGY*. ISSN 0739-7240, 2016, vol. 56, no., pp. S84-S89., Registrované v: WOS
45. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying - ZHOU, Lu - HUANG, Shiqi - LI, Hui. The antioxidant activities of six (1>3)-beta-D-glucan derivatives prepared from yeast cell wall. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS
46. [1.1] UPADHAYA, Santi Devi - JIAO, Yang - KIM, In Ho. Yeast extract complex as non-antibiotic functional product in weaning pigs. In *CANADIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0008-3984, 2019, vol. 99, no. 3, pp. 578-584., Registrované v: WOS
47. [1.1] UPADHAYA, Santi D. - DE LAGUNA, Fernando Bravo - BERTAUD, Bruno - KIM, In-Ho. Multi-strain yeast fraction product supplementation can alleviate weaning stress and improve performance and health of piglets raised under low sanitary conditions. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2019, vol. 99, no. 13, pp. 6076-6083., Registrované v: WOS
48. [1.1] VALPOTIC, Hrvoje - BARIC-RAFAJ, Renata - MRLJAK, Vladimir - GRABAREVIC, Zeljko - SAMARDZIJA, Marko - SPERANDA, Marcela - ZAJA, Ivona Zura - DURICIC, Drazen - BACH, Ana - HARAPIN, Ivica - FOLNOZIC, Ivan - VINCE, Silvijo - VALPOTIC, Ivica. Influence of dietary mannan oligosaccharide and clinoptilolite on hematological, biochemical

and gut histological parameters in weaned pigs. In PERIODICUM BIOLOGORUM. ISSN 0031-5362, 2017, vol. 119, no. 1, pp. 63-73.,

Registrované v: WOS

49. [1.1] VALPOTIC, Hrvoje - BARIC-RAFAJ, Renata - ZAJA, Ivona Zura - VINCE, Silvijo - SAMARDZIJA, Marko - TURK, Romana - DURICIC, Drazen - DOBRANIC, Tomislav - SOBIECH, Przemyslaw - CVETNIC, Luka - VALPOTIC, Ivica. MODULATION OF SYSTEMIC INNATE AND ADAPTIVE IMMUNE PARAMETERS IN WEANED PIGS BY SINGLE ORAL APPLICATION OF IMMUNOBIOTICS. In SLOVENIAN VETERINARY RESEARCH. ISSN 1580-4003, 2018, vol. 55, no. 1, pp. 43-53.,

Registrované v: WOS

50. [1.1] VALPOTIC, Hrvoje - SAMARDZIJA, Marko - TERZIC, Svjetlana - VINCE, Silvijo - SPERANDA, Marcela - LACKOVIC, Gordana - HABRUN, Boris - MAS, Nora - DURICIC, Drazen - KOCILA, Predrag - MARKOVIC, Franjo - VALPOTIC, Ivica. Effect of mannan oligosaccharide supplementation on blood and intestinal immune cells, bacteria numbers and performance in weaned pigs. In ACTA VETERINARIA BRNO. ISSN 0001-7213, 2016, vol. 85, no. 3, pp. 267-+, Registrované v: WOS

51. [1.1] WAITITU, Samuel M. - YIN, Fugui - PATTERSON, Rob - RODRIGUEZ-LECOMPTE, Juan C. - NYACHOTI, Charles M. Short-term effect of supplemental yeast extract without or with feed enzymes on growth performance, immune status and gut structure of weaned pigs challenged with Escherichia coli lipopolysaccharide. In JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY. ISSN 2049-1891, 2016, vol. 7, no., pp., Registrované v: WOS

52. [1.1] WAITITU, S. M. - HEO, J. M. - PATTERSON, R. - NYACHOTI, C. M. Dietary yeast-based nucleotides as an alternative to in-feed antibiotics in promoting growth performance and nutrient utilization in weaned pigs. In CANADIAN JOURNAL OF ANIMAL SCIENCE. ISSN 0008-3984, 2016, vol. 96, no. 3, pp. 289-293., Registrované v: WOS

53. [1.1] WAITITU, S. M. - YIN, F. - PATTERSON, R. - YITBAREKA, A. - RODRIGUEZ-LECOMPTE, J. C. - NYACHOTI, C. M. Dietary supplementation with a nucleotide-rich yeast extract modulates gut immune response and microflora in weaned pigs in response to a sanitary challenge. In ANIMAL. ISSN 1751-7311, 2017, vol. 11, no. 12, pp. 2156-2164., Registrované v: WOS

54. [1.1] WOJNICKI, Samantha J. - MORRIS, Antrison - SMITH, Brooke Nicole - MADDIX, Carol W. - DILGER, Ryan Neil. Immunomodulatory effects of whole yeast cells and capsicum in weanling pigs challenged with pathogenic Escherichia coli. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2019, vol. 97, no. 4, pp. 1784-1795., Registrované v: WOS

55. [1.1] XING, Yan - CHEN, Chaonan - SUN, Wenlong - ZHANG, Bowei - SANG, Yuanbin - XIU, Zhilong - DONG, Yuesheng. An environment-friendly approach to isolate and purify glucan from spent cells of recombinant Pichia pastoris and the bioactivity characterization of the purified glucan. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2018, vol. 18, no. 4, pp. 227-235., Registrované v: WOS

56. [1.1] XIONG, Xia - YANG, Huansheng - LI, Biao - LIU, Gang - HUANG, Ruilin - LI, Fengna - LIAO, Peng - ZHANG, Yuzhe - NYACHOTI,

- Charles Martin - DENG, Dun. Dietary supplementation with yeast product improves intestinal function, and serum and ileal amino acid contents in weaned piglets. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2015, vol. 171, no., pp. 20-27., Registrované v: WOS
57. [1.1] YANG, Huan-sheng - WU, Fei - LONG, Li-na - LI, Tie-jun - XIONG, Xia - LIAO, Peng - LIU, Hong-nan - YIN, Yu-long. Effects of yeast products on the intestinal morphology, barrier function, cytokine expression, and antioxidant system of weaned piglets. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2016, vol. 17, no. 10, pp. 752-762., Registrované v: WOS
58. [1.1] ZHANG, Li-Hong - ZOU, Xian-Feng - WU, Qiong - YU, Shu-Yan - CHEN, Li-Na - WU, Shu-Qing. Ultrasonic Assisted Extraction of Yeast Cell Wall Polysaccharides. In 2015 INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING AND LIFE SCIENCE (BELS 2015), 2015, vol., no., pp. 105-108., Registrované v: WOS
59. [1.1] ZHAO, Wen - LIANG, Miao - WEI, Jie - WANG, Shan. Effects of Dietary Yeast Polysaccharides on the Immune Responses of *Apostichopus japonicus* to a Sudden Drop in Temperature. In JOURNAL OF THE WORLD AQUACULTURE SOCIETY. ISSN 0893-8849, 2017, vol. 48, no. 4, pp. 656-665., Registrované v: WOS
60. [1.1] ZHEN, Y. G. - ZHAO, W. - CHEN, X. - LI, L. J. - LEE, H. G. - ZHANG, X. F. - WANG, T. Effects of yeast culture on broiler growth performance, nutrient digestibility and caecal microbiota. In SOUTH AFRICAN JOURNAL OF ANIMAL SCIENCE. ISSN 0375-1589, 2019, vol. 49, no. 1, pp. 99-108., Registrované v: WOS
61. [1.2] ABDOLSHAHI, Anna - YAZDI, Farideh Tabatabaiee - SHABANI, Ali Akbar - MORTAZAVI, Seyed Ali - NAFCHI, Abdolreza Mohammadi. Antifungal properties of gelatin-based coating containing mannoprotein from *saccharomyces cerevisiae* on *aspergillus flavus* growth in pistachio. In Journal of Mazandaran University of Medical Sciences. ISSN 17359279, 2016-01-01, 26, 139, pp. 93-102., Registrované v: SCOPUS
62. [1.2] CAIPANG, Christopher Marlowe A. - LAZADO, Carlo C. Nutritional impacts on fish mucosa: Immunostimulants, pre- and probiotics. In Mucosal Health in Aquaculture, 2015-02-17, pp. 211-272., Registrované v: SCOPUS
63. [1.2] KANAGARAJU, P. - SUBRAMANIAN, A. Effect of mannan oligosaccharides (MOS) on the growth performance of Japanese quails. In Indian Veterinary Journal. ISSN 00196479, 2016-06-01, 93, 6, pp. 11-13., Registrované v: SCOPUS
64. [1.2] KIM, Jong H. - CHAN, Kathleen L. Model Fungal Systems for Investigating Food Plant Mycotoxins. In Handbook of Food Chemistry, 2015-01-01, pp. 809-829., Registrované v: SCOPUS
65. [1.2] PEREYRA, Carina Maricel - CAVAGLIERI, Lilia Renée - KELLER, Kelly Moura - CHIACCHIERA, Stella Maris - DA ROCHA ROSA, Carlos Alberto - DALCERO, Ana Maria. In vitro ochratoxin A adsorption by commercial yeast cell walls. In Revista Brasileira de Medicina Veterinaria. ISSN 01002430, 2015-01-01, 37, 1, pp. 25-28., Registrované v: SCOPUS
66. [1.2] SAEED, Muhammad - AHMAD, Fawwad - ARAIN, Muhammad Asif - ABD EL-HACK, Mohamed E. - EMAM, Mohamed - BHUTTO, Zohaib Ahmed - MOSHAVERI, Arman. Use of

Mannan-oligosaccharides (MOS) as a feed additive in poultry nutrition. In *Journal of World's Poultry Research*, 2017-09-25, 7, 3, pp. 94-103., Registrované v: SCOPUS

67. [1.2] SCHOLEY, Dawn - BURTON, Emily. Producing animal feed as a coproduct of biorefining. In *Advanced Bioprocessing for Alternative Fuels, Biobased Chemicals, and Bioproducts: Technologies and Approaches for Scale-Up and Commercialization*, 2019-01-01, pp. 249-264., Registrované v: SCOPUS

68. [1.2] SUGIHARTO, S. - JENSEN, B. B. - JENSEN, K. H. - LAURIDSEN, C. Prevention of enterotoxigenic *Escherichia coli* infections in pigs by dairy-based nutrition. In *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 2015-01-01, 10, pp., Registrované v: SCOPUS

69. [1.2] SUN, Yawang - PARK, Inkyung - GUO, Jiyao - WEAVER, Alexandra C. - KIM, Sung Woo. Impacts of low level aflatoxin in feed and the use of modified yeast cell wall extract on growth and health of nursery pigs. In *Animal Nutrition*. ISSN 24056545, 2015-09-01, 1, 3, pp. 177-183., Registrované v: SCOPUS

70. [1.2] VONTHRON-SÉNÉCHEAU, C. Medicinal Properties: Antibiotic, Tonic, and Antiparasitic Properties. In *Seaweed in Health and Disease Prevention*, 2016-04-28, pp. 369-388., Registrované v: SCOPUS

71. [1.2] WAITITU, Samuel M. - HEO, Jung M. - PATTERSON, Rob - NYACHOTI, Charles M. Dose-response effects of in-feed antibiotics on growth performance and nutrient utilization in weaned pigs fed diets supplemented with yeast-based nucleotides. In *Animal Nutrition*. ISSN 24056545, 2015-09-01, 1, 3, pp. 166-169., Registrované v: SCOPUS

72. [1.2] XU, Xiaoqing - QIAO, Yu - PENG, Qing - GAO, Long - SHI, Bo. Inhibitory effects of YCW and MOS from *Saccharomyces cerevisiae* on *Escherichia coli* and *Salmonella pullorum* adhesion to Caco-2 cells. In *Frontiers in Biology*. ISSN 16747984, 2017-10-01, 12, 5, pp. 370-375., Registrované v: SCOPUS

73. [3.2] Bretas, Anilce de Araújo. Inclusión of mycotoxin adsorbents for piglets. In: *CES Medicina Veterinaria y Zootecnia*, 2018, volume: 13, issue: 1, pages: 80-95, ISSN 1900-9607., Registrované v: SciELO Citation Index

74. [3.2] El-Dinn, Maysoon M. Mohie; Abdel-Aal, Ehab S.; Eid, Laila N.; Farid, Alyaa A.; Aly, Ibrahim R.; El-Deeb, Somaya O. IMPACT OF USING YEAST AS FEED ADDITIVE ON PRODUCTION PERFORMANCE AND IMMUNE RESPONSES OF SHE-CAMELS AND THEIR NEWBORN CALVES DURING PERI-PARTURATION PERIOD. In *JOURNAL OF THE EGYPTIAN SOCIETY OF PARASITOLOGY*, 2017, vol. 47, iss. 3, p. 607-616., Registrované v: BIOSIS Citation Index

ADCA630 KOGAN, Grigorij - PAVLIK, V. - MASLER, Ladislav. Structural studies of mannans from the cell walls of the pathogenic yeasts *Candida albicans* serotype A and B, and *Vandida parapsilosis*. In *Carbohydrate Research*, 1988, vol. 172, p. 243-253. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)90858-9](https://doi.org/10.1016/S0008-6215(00)90858-9)

Ohlasy:

1. [1.1] CIMMINO, Alessio - CINELLI, Tamara - EVIDENTE, Marco - MASI, Marco - MUGNAI, Laura - SILVA, Marcondes A. - MICHEREFF, Sami

- J. - SURICO, Giuseppe - EVIDENTE, Antonio. Phytotoxic Fungal Exopolysaccharides Produced by Fungi Involved in Grapevine Trunk Diseases. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2016, vol. 11, no. 10, pp. 1481-1484., Registrované v: WOS
2. [1.1] HASIM, Sahar - COLEMAN, Jeffrey J. Targeting the fungal cell wall: current therapies and implications for development of alternative antifungal agents. In FUTURE MEDICINAL CHEMISTRY. ISSN 1756-8919, 2019, vol. 11, no. 8, pp. 869-883., Registrované v: WOS
3. [1.1] ISHIDA, Yoko - OHTA, Kouji - NARUSE, Takako - KATO, Hiroki - FUKUI, Akiko - SHIGEISHI, Hideo - NISHI, Hiromi - TOBIUME, Kei - TAKECHI, Masaaki. Candida albicans beta-Glucan-Containing Particles Increase HO-1 Expression in Oral Keratinocytes via a Reactive Oxygen Species/p38 Mitogen-Activated Protein Kinase/Nrf2 Pathway. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2018, vol. 86, no. 4, pp., Registrované v: WOS
4. [1.1] PAULOVICOVA, Ema - PAULOVICOVA, Lucia - FARKAS, Pavol - KARELIN, Alexander A. - TSVETKOV, Yury E. - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E. Importance of Candida Antigenic Factors: Structure-Driven Immunomodulation Properties of Synthetically Prepared Mannoooligosaccharides in RAW264.7 Macrophages. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, 2019, vol. 9, no., pp., Registrované v: WOS
5. [1.1] TE RIET, Joost - JOOSTEN, Ben - REINIEREN-BEEREN, Inge - FIGDOR, Carl G. - CAMBI, Alessandra. N-glycan mediated adhesion strengthening during pathogen-receptor binding revealed by cell-cell force spectroscopy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
6. [1.1] TE RIET, Joost - REINIEREN-BEEREN, Inge - FIGDOR, Carl G. - CAMBI, Alessandra. AFM force spectroscopy reveals how subtle structural differences affect the interaction strength between Candida albicans and DC-SIGN. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2015, vol. 28, no. 11, pp. 687-698., Registrované v: WOS
7. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA631 KOGAN, Grigorij - UHRÍN, Dušan - BRISSON, J.R. - PAOLETTI, L.C. - BLODGETT, A.E. - KASPER, D.L. - JENNINGS, H.J. Structural and immunochemical characterization of the type VIII group B Streptococcus capsular polysaccharide. In *Journal of Biological Chemistry*, 1996, vol. 271, p. 8786-8790. (1995: 7.385 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.271.15.8786>

Ohlasy:

1. [1.1] MISTOU, Michel-Yves - SUTCLIFFE, Iain C. - VAN SORGE, Nina M. Bacterial glycobiology: rhamnose-containing cell wall polysaccharides in Gram-positive bacteria. In FEMS MICROBIOLOGY REVIEWS. ISSN 0168-6445, 2016, vol. 40, no. 4, pp. 464-479., Registrované v: WOS
2. [1.1] ROSE, Fabrice - ROOVERS, Silke - FANO, Mathias - HARLOFF-HELLEBERG, Stine - KIRKENSGAARD, Jacob J. K. - HEJNAES, Kim - FISCHER, Per - FOGED, Camilla. Temperature-Induced Self-Assembly

of the Group B Streptococcus (GBS) Fusion Antigen GBS-NN. In *MOLECULAR PHARMACEUTICS*. ISSN 1543-8384, 2018, vol. 15, no. 7, pp. 2584-2593., Registrované v: WOS

3. [1.1] WANG, Lijun - YAO, Yang - SANG, Wei - YANG, Xiushi - REN, Guixing. Structural features and immunostimulating effects of three acidic polysaccharides isolated from *Panax quinquefolius*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 80, no., pp. 77-86., Registrované v: WOS

4. [1.1] WANG, Lijun - YU, Xiaona - YANG, Xiushi - LI, Yi - YAO, Yang - LUI, Edmund Man King - REN, Guixing. Structural and anti-inflammatory characterization of a novel neutral polysaccharide from North American ginseng (*Panax quinquefolius*). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 74, no., pp. 12-17., Registrované v: WOS

5. [1.1] YAO, Yang - XUE, Peng - ZHU, Yingying - GAO, Yue - REN, Guixing. Antioxidant and immunoregulatory activity of polysaccharides from adzuki beans (*Vigna angularis*). In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2015, vol. 77, no., pp. 251-256., Registrované v: WOS

6. [1.2] Kwatra, G., & Madhi, S. A. (2019). Group B streptococcus. In *Maternal Immunization* (pp. 235-252), Registrované v: SCOPUS

ADCA632 KOGAN, Grigorij - UHRÍN, D. - BRISSON, J.R. - JENNIGS, H.J. Structural basis of the *Neisseria meningitidis* immunotypes including the L4 and L7 immunotypes. In *Carbohydrate Research*, 1997, vol. 298, p. 191-199. (1997 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(96\)00305-9](https://doi.org/10.1016/S0008-6215(96)00305-9)

Ohlasy:

1. [1.1] MUBAIWA, Tsitsi D. - SEMCHENKO, Evgeny A. - HARTLEY-TASSELL, Lauren E. - DAY, Christopher J. - JENNINGS, Michael P. - SEIB, Kate L. The sweet side of the pathogenic *Neisseria*: the role of glycan interactions in colonisation and disease. In *PATHOGENS AND DISEASE*. ISSN 2049-632X, 2017, vol. 75, no. 5, pp., Registrované v: WOS

2. [1.1] PHILLIPS, Nancy J. - JOHN, Constance M. - JARVIS, Gary A. Analysis of Bacterial Lipooligosaccharides by MALDI-TOF MS with Traveling Wave Ion Mobility. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2016, vol. 27, no. 7, pp. 1263-1276., Registrované v: WOS

3. [1.1] RAM, Sanjay - GULATI, Sunita - LEWIS, Lisa A. - CHAKRABORTI, Srinjoy - ZHENG, Bo - DEOLIVEIRA, Rosane B. - REED, George W. - COX, Andrew D. - LI, Jianjun - ST MICHAEL, Frank - STUPAK, Jacek - SU, Xiao-Hong - SAHA, Sudeshna - LANDIG, Corinna S. - VARKI, Ajit - RICE, Peter A. A Novel Sialylation Site on *Neisseria gonorrhoeae* Lipooligosaccharide Links Heptose II Lactose Expression with Pathogenicity. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2018, vol. 86, no. 8, pp., Registrované v: WOS

ADCA633 KOGAN, Grigorij - JANN, B. - JANN, K. Structure of the *Escherichia coli* 0104 polysaccharide and its identity with the capsular K9 polysaccharide. In *FEMS Microbiology Letters*, 1992, vol. 91, p. 135-140. (1992 - Current Contents). ISSN 0378-1097. Dostupné na: [https://doi.org/10.1016/0378-1097\(92\)90673-C](https://doi.org/10.1016/0378-1097(92)90673-C)

Ohlasy:

1. [1.1] HAMM, K. - BARTH, S. A. - STALB, S. - GEUE, L. - LIEBLER-TENORIO, E. - TEIFKE, J. P. - LANGE, E. - TAUSCHER, K. - KOTTERBA, G. - BIELASZEWSKA, M. - KARCH, H. - MENGE, C. Experimental Infection of Calves with Escherichia coli O104:H4 outbreak strain. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
2. [1.1] NAVARRO, Armando - ISIDRA CAUICH-SANCHEZ, Patricia - TREJO, Alejandro - GUTIERREZ, Alvaro - PAZ DIAZ, Sylvia - DIAZ C, Martha - CRAVIOTO, Alejandro - ESLAVA, Carlos. Characterization of Diarrheagenic Strains of Escherichia coli Isolated From Cattle Raised in Three Regions of Mexico. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] SHASHKOV, Alexander S. - YANG, Baopeng - SENCHENKOVA, Sofya N. - PEREPELOV, Andrei V. - LIU, Bin - KNIREL, Yuriy A. Structures and genetics of biosynthesis of glycerol 1-phosphate-containing O-polysaccharides of Escherichia coli O28ab, O37, and O100. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 426, no., pp. 26-32., Registrované v: WOS
4. [1.1] SCHAUER, Roland - KAMERLING, Johannis P. Exploration of the Sialic Acid World. In SIALIC ACIDS, PT I: HISTORICAL BACKGROUND AND DEVELOPMENT, AND CHEMICAL SYNTHESIS. ISSN 0065-2318, 2018, vol. 75, no., pp. 1-213., Registrované v: WOS
5. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In Bioactive Polysaccharides (Elsevier, pp. 1-554, Registrované v: SCOPUS

ADCA634 KOGAN, Grigorij - PAJTINKA, Martin - BABINCOVÁ, M. - MIADOKOVÁ, Eva - RAUKO, Peter - SLAMENŇOVÁ, Darina - KOROLENKO, T.A. Yeast cell wall polysaccharides as antioxidants and antimutagens: Can they fight cancer? In *Neoplasma*, 2008, vol. 55, p. 387-393. (2007: 1.208 - IF, Q4 - JCR, 0.527 - SJR, Q3 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] ANAGNOSTOPOULOS, Dimitrios A. - TSALTAS, Dimitrios. Fermented Foods and Beverages. In INNOVATIONS IN TRADITIONAL FOODS, 2019, vol., no., pp. 257-291., Registrované v: WOS
2. [1.1] BANIK, Abhijit - HALDER, Suman Kumar - GHOSH, Chandradipa - MONDAL, Keshab Chandra. Fungal Probiotics: Opportunity, Challenge, and Prospects. In RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 2: PERSPECTIVE FOR VALUE-ADDED PRODUCTS AND ENVIRONMENTS. ISSN 2198-7777, 2019, vol., no., pp. 101-117., Registrované v: WOS
3. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
4. [1.1] COSTA, Claudia R. L. de M. - MENOLLI, Rafael A. - OSAKU, Erica F. - TRAMONTINA, Robson - DE MELO, Renan H. - DO AMARAL, Alex E. - DUARTE, Pericles A. D. - DE CARVALHO, Mariana Mazetto - SMIDERLE, Fhernanda R. - SILVA, Jose L. da C. - MELLO, Rosiane G.

Exopolysaccharides from *Aspergillus terreus*: Production, chemical elucidation and immunoactivity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, no., pp. 654-664., Registrované v: WOS

5. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulaardii* Cell Wall Components. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS

6. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS, 2015, vol., no., pp. 61-103., Registrované v: WOS

7. [1.1] GALINARI, Eder - ALMEIDA-LIMA, Jailma - MACEDO, Gorete Ribeiro - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Antioxidant, antiproliferative, and immunostimulatory effects of cell wall alpha-D-mannan fractions from *Kluyveromyces marxianus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 837-846., Registrované v: WOS

8. [1.1] GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast *Kluyveromyces marxianus*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS

9. [1.1] GIESE, Ellen C. - GASCON, Jacob - ANZELMO, Gianluca - BARBOSA, Aneli M. - ALVES DA CUNHA, Mario A. - DEKKER, Robert F. H. Free-radical scavenging properties and antioxidant activities of botryosphaeran and some other beta-D-glucans. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, no., pp. 125-130., Registrované v: WOS

10. [1.1] HAN, Mei - DU, Chao - XU, Zhi-Yuan - QIAN, He - ZHANG, Wei-Guo. Rheological properties of phosphorylated exopolysaccharide produced by *Sporidiobolus pararoseus* JD-2. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 88, no., pp. 603-613., Registrované v: WOS

11. [1.1] HAN, Mei - XU, Jian-Zhong - LIU, Zhen-Min - QIAN, He - ZHANG, Wei-Guo. Co-production of microbial oil and exopolysaccharide by the oleaginous yeast *Sporidiobolus pararoseus* grown in fed-batch culture. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 6, pp. 3348-3356., Registrované v: WOS

12. [1.1] HAN, Mei - XU, Zhi-yuan - DU, Chao - QIAN, He - ZHANG, Wei-Guo. Effects of nitrogen on the lipid and carotenoid accumulation of oleaginous yeast *Sporidiobolus pararoseus*. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2016, vol. 39, no. 9, pp. 1425-1433., Registrované v: WOS

13. [1.1] ILIN, Alexander - KULMANOV, Murat - NERSESYAN, Armen - STOPPER, Helga. Genotoxic activity of the new pharmaceutical FS-1 in Salmonella/microsome test and mouse lymphoma L5178Y cells. In JOURNAL OF BUON. ISSN 1107-0625, 2015, vol. 20, no. 2, pp. 595-601., Registrované v: WOS
14. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
15. [1.1] MADRIGAL-BUJADAR, Eduardo - ANTONIO MORALES-GONZALEZ, Jose - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - REYES-ARELLANO, Alicia - ALVAREZ-GONZALEZ, Isela - PEREZ-PASTEN, Ricardo - MADRIGAL-SANTILLAN, Eduardo. Prevention of Aflatoxin B-1-Induced DNA Breaks by beta-D-Glucan. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 6, pp. 2145-2158., Registrované v: WOS
16. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJADAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLEDO, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS
17. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from Rhodotorula mucilaginosa CICC 33013. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS
18. [1.1] MIRZAD, Ahmad Nawid - GOTO, Akira - ENDO, Takuto - ANO, Hitoshi - KOBAYASHI, Ikuo - YAMAUCHI, Takenori - KATAMOTO, Hiromu. Effects of live yeast supplementation on serum oxidative stress biomarkers and lactation performance in dairy cows during summer. In JOURNAL OF VETERINARY MEDICAL SCIENCE. ISSN 0916-7250, 2019, vol. 81, no. 12, pp. 1705-1712., Registrované v: WOS
19. [1.1] MOGHADAM, Maryam Nakhaee - KHAMENEH, Bahman - BAZZAZ, Bibi Sedigheh Fazly. Saccharomyces cerevisiae as an Efficient Carrier for Delivery of Bioactives: a Review. In FOOD BIOPHYSICS. ISSN 1557-1858, 2019, vol. 14, no. 3, pp. 346-353., Registrované v: WOS
20. [1.1] MOKHTARI, Samira - JAFARI, Seid Mandi - KHOMEIRI, Morteza - MAGHSOUDLOU, Yahya - GHORBANI, Mohammad. The cell wall compound of Saccharomyces cerevisiae as a novel wall material for encapsulation of probiotics. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 96, no., pp. 19-26., Registrované v: WOS

21. [1.1] MULERO-CEREZO, Joaquin - BRIZ-REDON, Alvaro - SERRANO-AROCA, Angel. *Saccharomyces Cerevisiae* Var. *Boulardii*: Valuable Probiotic Starter for Craft Beer Production. In *APPLIED SCIENCES-BASEL*, 2019, vol. 9, no. 16, pp., Registrované v: WOS
22. [1.1] OGNIK, Katarzyna - KRAUZE, Magdalena - CHOLEWINSKA, Ewelina - ABRAMOWICZ, Katarzyna. THE EFFECT OF A PROBIOTIC CONTAINING *ENTEROCOCCUS FAECIUM* DSM 7134 ON REDOX AND BIOCHEMICAL PARAMETERS IN CHICKEN BLOOD. In *ANNALS OF ANIMAL SCIENCE*. ISSN 2300-8733, 2017, vol. 17, no. 4, pp. 1075-1088., Registrované v: WOS
23. [1.1] PRETE, Roberta - TOFALO, Rosanna - FEDERICI, Ermanno - CIARROCCHI, Aurora - CENCI, Giovanni - CORSETTI, Aldo. Food-Associated *Lactobacillus plantarum* and Yeasts Inhibit the Genotoxic Effect of 4-Nitroquinoline-1-Oxide. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
24. [1.1] PRIETO, M. A. - PRIETO, I. - VAZQUEZ, J. A. - FERREIRA, Isabel C. F. R. An environmental management industrial solution for the treatment and reuse of mussel wastewaters. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2015, vol. 538, no., pp. 117-128., Registrované v: WOS
25. [1.1] QI, Gao-Xiang - HUANG, Chao - CHEN, Xue-Fang - XIONG, Lian - WANG, Can - LIN, Xiao-Qing - SHI, Si-Lan - YANG, Dan - CHEN, Xin-De. Semi-pilot Scale Microbial Oil Production by *Trichosporon cutaneum* Using Medium Containing Corncob Acid Hydrolysate. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2016, vol. 179, no. 4, pp. 625-632., Registrované v: WOS
26. [1.1] RAPOPORT, Alexander - TURCHETTI, Benedetta - BUZZINI, Pietro. Application of anhydrobiosis and dehydration of yeasts for non-conventional biotechnological goals. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2016, vol. 32, no. 6., Registrované v: WOS
27. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - JAM, Ali Mousavi - KHOSROUSHAHI, Ahmad Yari. Secretion metabolites of probiotic yeast, *Pichia kudriavzevii* AS-12, induces apoptosis pathways in human colorectal cancer cell lines. In *NUTRITION RESEARCH*. ISSN 0271-5317, 2017, vol. 41, no., pp. 36-46., Registrované v: WOS
28. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - KHOSROUSHAHI, Ahmad Yari. Cellular and molecular effects of yeast probiotics on cancer. In *CRITICAL REVIEWS IN MICROBIOLOGY*. ISSN 1040-841X, 2017, vol. 43, no. 1, pp. 96-115., Registrované v: WOS
29. [1.1] SANGURI, Sweta - GUPTA, Damodar. Mannan oligosaccharide requires functional ETC and TLR for biological radiation protection to normal cells. In *BMC CELL BIOLOGY*. ISSN 1471-2121, 2018, vol. 19, no., pp., Registrované v: WOS
30. [1.1] SCHIAVONE, Marion - DEJEAN, Sebastien - SIECZKOWSKI, Nathalie - CASTEX, Mathieu - DAGUE, Etienne - FRANCOIS, Jean M. Integration of Biochemical, Biophysical and Transcriptomics Data for Investigating the Structural and Nanomechanical Properties of the Yeast Cell Wall. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

31. [1.1] SZEJK, Magdalena - POPLAWSKI, Tomasz - CZUBATKA-BIENKOWSKA, Anna - OLEJNIK, Alicja Klaudia - PAWLACZYK-GRAJA, Izabela - GANCARZ, Roman - ZBIKOWSKA, Halina Malgorzata. A comparative study on the radioprotective potential of the polyphenolic glycoconjugates from medicinal plants of Rosaceae and Asteraceae families versus their aglycones. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2017, vol. 171, no., pp. 50-57., Registrované v: WOS
32. [1.1] TCHAKOUTEU, Sidoine Sadjou - CHATZIFRAGKOU, Afroditi - KALANTZI, Ourania - KOUTINAS, Apostolis A. - AGGELIS, George - PAPANIKOLAOU, Seraphim. Oleaginous yeast *Cryptococcus curvatus* exhibits interplay between biosynthesis of intracellular sugars and lipids. In EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY. ISSN 1438-7697, 2015, vol. 117, no. 5, pp. 657-672., Registrované v: WOS
33. [1.1] TOMASZEWSKA, E. - DOBROWOLSKI, P. - MUSZYNSKI, S. - KWIECIEN, M. - KASPEREK, K. - KNAGA, S. - TOMCZYK-WARUNEK, A. - KOWALIK, S. - JEZEWSKA-WITKOWSKA, G. - GRELA, E. R. Intestinal mucosa develops in a sex-dependent manner in Japanese quail (*Coturnix japonica*) fed *Saccharomyces cerevisiae*. In BRITISH POULTRY SCIENCE. ISSN 0007-1668, 2018, vol. 59, no. 6, pp. 689-697., Registrované v: WOS
34. [1.1] WIEGAND, C. - FINK, S. - HIPLER, U-C - BEIER, O. - HORN, K. - SCHIMANSKI, A. - GRUENLER, B. Cold atmospheric pressure plasmas exhibit antimicrobial properties against critical bacteria and yeast species. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2017, vol. 26, no. 8, pp. 462-468., Registrované v: WOS
35. [1.1] ZEIDAN, Hala M. - ABD EL-AZEEM, Amal S. - HEGAZY, Amany M. - BADAWY, Ibrahim H. - IBRAHIM, Gamal A. - SHARAF, Osama M. Potential effect of functional fermented ice-cream on alleviating biochemical complications in obese rats. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2019, vol. 16, no. 3, pp. 2856-2865., Registrované v: WOS
36. [1.2] ABDOLSHAHI, Anna - YAZDI, Farideh Tabatabaiee - SHABANI, Ali Akbar - MORTAZAVI, Seyed Ali - NAFCHI, Abdolreza Mohammadi. Antifungal properties of gelatin-based coating containing mannoprotein from *saccharomyces cerevisiae* on *aspergillus flavus* growth in pistachio. In Journal of Mazandaran University of Medical Sciences. ISSN 17359279, 2016-01-01, 26, 139, pp. 93-102., Registrované v: SCOPUS
37. [1.2] SHITULENI, Shituleni Andreas - GAN, Fang - NIDO, Sonia Agostinho - MENGISTU, Berhe Mekonnen - KHAN, Alam Zeb - LIU, Yunhuan - HUANG, Kehe. Effects of yeast polysaccharide on biochemical indices, antioxidant status, histopathological lesions and genetic expressions related with lipid metabolism in mice fed with high fat diet. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2016-10-01, 8, 2, pp. 51-57., Registrované v: SCOPUS

ADCA635 KOGAN, Grigorij. (1-3, 1-6)-beta-D-glucans of yeasts and fungi and their biological activity. In *Atta-ur studies in natural products chemistry: bioactive natural products*, 2000, vol. 23, part D, p. 107-152. ISSN 0-444-50606. Dostupné na: [https://doi.org/10.1016/S1572-5995\(00\)80128-3](https://doi.org/10.1016/S1572-5995(00)80128-3)

Ohlasy:

1. [1.1] AHMAD, Asif - AHMED, Zaheer. NUTRACEUTICAL ASPECTS OF beta-GLUCAN WITH APPLICATION IN FOOD PRODUCTS. In NUTRACEUTICALS, 2016, vol. 4, no., pp. 387-425., Registrované v: WOS
2. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
3. [1.1] CARDENAS-REYNA, Tomas - ANGULO, Carlos - GULUARTE, Crystal - HORI-OSHIMA, Sawako - REYES-BECERRIL, Martha. In vitro immunostimulatory potential of fungal beta-glucans in pacific red snapper (*Lutjanus peru*) cells. In DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. ISSN 0145-305X, 2017, vol. 77, no., pp. 350-358., Registrované v: WOS
4. [1.1] COSTA, Claudia R. L. de M. - MENOLLI, Rafael A. - OSAKU, Erica F. - TRAMONTINA, Robson - DE MELO, Renan H. - DO AMARAL, Alex E. - DUARTE, Pericles A. D. - DE CARVALHO, Mariana Mazetto - SMIDERLE, Fhernanda R. - SILVA, Jose L. da C. - MELLO, Rosiane G. Exopolysaccharides from *Aspergillus terreus*: Production, chemical elucidation and immunoactivity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, no., pp. 654-664., Registrované v: WOS
5. [1.1] CHAARI, Fatma - BELGHITH-FENDRI, Lilia - ZAOURI-ELLOUZI, Soumaya - DRISS, Dorra - BLIBECH, Monia - KALLEL, Fatma - BOUAZIZ, Fatma - MEHDI, Yosra - ELLOUZ-CHAABOUNI, Semia - GHORBEL, Raoudha. Antibacterial and antioxidant properties of mixed linkage beta-oligosaccharides from extracted beta-glucan hydrolysed by *Penicillium occitanis* EG(L) lichenase. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2016, vol. 30, no. 12, pp. 1353-1359., Registrované v: WOS
6. [1.1] MAITY, Prasenjit - SEN, Ipsita K. - MAJI, Praloy K. - PALOI, Soumitra - DEVI, K. Sanjana P. - ACHARYA, Krishnendu - MAITI, Tapas K. - ISLAM, Syed S. Structural, immunological, and antioxidant studies of beta-glucan from edible mushroom *Entoloma lividoalbum*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 123, no., pp. 350-358., Registrované v: WOS
7. [1.1] MEDINA-CORDOVA, Noe - REYES-BECERRIL, Martha - ASCENCIO, Felipe - CASTELLANOS, Thelma - CAMPA-CORDOVA, Angel I. - ANGULO, Carlos. Immunostimulant effects and potential application of beta-glucans derived from marine yeast *Debaryomyces hansenii* in goat peripheral blood leucocytes. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 599-606., Registrované v: WOS
8. [1.1] TIAN, Xiaoli - YANG, Ping - JIANG, Wenxia. Effect of Alkali Treatment Combined with High Pressure on Extraction Efficiency of beta-D-Glucan from Spent Brewer's Yeast. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2019, vol. 10, no. 5, pp. 1131-1140., Registrované v: WOS
9. [1.1] VETVICKA, Vaclav - VETVICKOVA, Jana. Addition of Selenium Improves Immunomodulative Effects of Glucan. In NORTH AMERICAN JOURNAL OF MEDICAL SCIENCES. ISSN 2250-1541, 2016,

vol. 8, no. 2, pp. 88-92., Registrované v: WOS

10. [1.1] WILSON, Wilsy - LOWMAN, Douglas - ANTONY, Swapna P. - PUTHUMANA, Jayesh - SINGH, I. S. Bright - PHILIP, Rosamma. Immune gene expression profile of *Penaeus monodon* in response to marine yeast glucan application and white spot syndrome virus challenge. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2015, vol. 43, no. 2, pp. 346-356.,

Registrované v: WOS

11. [1.1] YELITHAO, Khamphone - SURAYOT, Utoomporn - LEE, Changsheng - PALANISAMY, Subramanian - PRABHU, Narayanasamy Marimuthu - LEE, JuHun - YOU, SangGuan. Studies on structural properties and immune-enhancing activities of glycomannans from *Schizophyllum commune*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 218, no., pp. 37-45., Registrované v: WOS

12. [1.1] ZHOU, Jianjun - GAO, Zhen - WANG, Wenbiao - HUANG, Feng - HU, Junpeng - GONG, Aqiong - WANG, Rui - YANG, Wumin - LI, Jie - HU, Xianqin - WANG, Xuedong. Yeast cell walls stimulate viability, respiratory burst, and phagocytosis in channel catfish (*Ictalurus punctatus*) head-kidney macrophages. In *AQUACULTURE INTERNATIONAL*. ISSN 0967-6120, 2019, vol. 27, no. 6, pp. 1655-1665., Registrované v: WOS

13. [1.1] ZHU, Fengmei - DU, Bin - XU, Baojun. A critical review on production and industrial applications of beta-glucans. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 52, no., pp. 275-288.,

Registrované v: WOS

14. [1.2] VĚTVIČKA, Václav - RICHTER, Josef - SVOZIL, Vladimír. Glucan in the present medicine. In *Pediatric pro Praxi*. ISSN 12130494, 2017-01-01, 18, 2, pp. 110-113., Registrované v: SCOPUS

15. [1.2] WANG, Jiajia - HU, Songqing - HUANG, Yanbo - WANG, Xizhe - LI, Lin - HOU, Yi. Physicochemical Properties and Prebiotics Effect of Yeast β -glucans in vitro. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-07-31, 18, 7, pp. 10-17., Registrované v: SCOPUS

16. [3.2] ZHU L.; CUI BAO-KAI. Progress on the Studies of Medicinal Mushrooms "Sanghuang" Group. IN *Journal of Fungal Research*, 2016, vol. 14, iss. 4, p. 201-209., Registrované v: BIOSIS Citation Index

ADCA636 KOHANOVÁ, Jana - MARTINKA, Michal - VACULÍK, Marek - WHITE, Filip J. - HAUSER, Marie-Theres - LUX, Alexander**. Root hair abundance impacts cadmium accumulation in *Arabidopsis thaliana* shoots. In *Annals of Botany*, 2018, vol. 122, p. 903-914. (2017: 3.646 - IF, Q1 - JCR, 1.721 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcx220>

Ohlasy:

1. [1.1] CORSO, Massimiliano - DE LA TORRE, Vanesa S. Garcia. Biomolecular approaches to understanding metal tolerance and hyperaccumulation in plants. In *METALLOMICS*. ISSN 1756-5901, 2020, vol. 12, no. 6, pp. 840-859. Dostupné na: <https://doi.org/10.1039/d0mt00043d>., Registrované v: WOS

2. [1.1] HUANG, Linli - JIANG, Qining - WU, Junyu - AN, Lijun - ZHOU, Zhongjing - WONG, ChuiEng - WU, Minjie - YU, Hao - GAN, Yinbo. Zinc finger protein 5 (ZFP5) associates with ethylene signaling to regulate the

phosphate and potassium deficiency-induced root hair development in Arabidopsis. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2020, vol. 102, no. 1-2, pp. 143-158. Dostupné na:

<https://doi.org/10.1007/s11103-019-00937-4>, Registrované v: WOS

3. [1.1] RIZWAN, Muhammad - ELSHAMY, Maha M. - ABDEL-AZIZ, Heba M. M. Assessment of trace element and macronutrient accumulation capacity of two native plant species in three different Egyptian mine areas for remediation of contaminated soils. In ECOLOGICAL INDICATORS. ISSN 1470-160X, 2019, vol. 106, no., pp., Registrované v: WOS
4. [1.1] XIANG, Jiqian - MING, Jiajia - YIN, Hongqing - ZHU, Yunfen - LI, Yajie - LONG, Lan - YE, Ziyun - WANG, Haiying - WANG, Xiaoe - ZHANG, Fan - YANG, Yongkang - YANG, Chaodong. Anatomy and Histochemistry of the Roots and Shoots in the Aquatic Selenium Hyperaccumulator *Cardamine hupingshanensis* (Brassicaceae). In OPEN LIFE SCIENCES. ISSN 2391-5412, 2019, vol. 14, no. 1, pp. 318-326., Registrované v: WOS

5. [1.1] ZHANG, Tian-Qi - XU, Zhou-Geng - SHANG, Guan-Dong - WANG, Jia-Wei. A Single-Cell RNA Sequencing Profiles the Developmental Landscape of Arabidopsis Root. In MOLECULAR PLANT. ISSN 1674-2052, 2019, vol. 12, no. 5, pp. 648-660., Registrované v: WOS

6. [1.2] CHAFFEY, Nigel - VOLKMANN, Dieter - BALUŠKA, František. The botanical multiverse of Peter Barlow. In Communicative and Integrative Biology, 2019-01-01, 12, 1, pp. 14-30., Registrované v: SCOPUS

ADCA637 KOHN, Rudolf. Binding of divalent cations to oligomeric fragments of pectin. In *Carbohydrate Research*, 1987, vol. 160, p. 343-353. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(87\)80322-1](https://doi.org/10.1016/0008-6215(87)80322-1)

Ohlasy:

1. [1.1] BASU, S. - SHIVHARE, U. S. - CHAKRABORTY, P. Influence of Sugar Substitute in Rheology of Fruit Gel. In ADVANCES IN FOOD RHEOLOGY AND ITS APPLICATIONS. ISSN 2042-8049, 2017, vol., no., pp. 355-376., Registrované v: WOS

2. [1.1] BASU, S. - SHIVHARE, U. S. - CHAKRABORTY, P. Influence of Sugar Substitute in Rheology of Fruit Gel. In ADVANCES IN FOOD RHEOLOGY AND ITS APPLICATIONS. ISSN 2042-8049, 2017, vol., no., pp. 355-376., Registrované v: WOS

3. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS

4. [1.1] CELUS, Miete - SALVIA-TRUJILLO, Laura - KYOMUGASHO, Clare - MAES, Ine - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. Structurally modified pectin for targeted lipid antioxidant capacity in linseed/sunflower oil-in-water emulsions. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 241, no., pp. 86-96., Registrované v: WOS

5. [1.1] GROULT, Sophie - BUDTOVA, Tatiana. Tuning structure and properties of pectin aerogels. In EUROPEAN POLYMER JOURNAL. ISSN

- 0014-3057, 2018, vol. 108, no., pp. 250-261., Registrované v: WOS
6. [1.1] CHEN, Da - HARRIS, Philip J. - SIMS, Ian M. - ZUJOVIC, Zoran - MELTON, Laurence D. Polysaccharide compositions of collenchyma cell walls from celery (*Apium graveolens* L.) petioles. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2017, vol. 17, no., pp., Registrované v: WOS
7. [1.1] JOSHI, Nidhi - RAWAT, Kamla - BOHIDAR, H. B. pH and ionic strength induced complex coacervation of Pectin and Gelatin A. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 74, no., pp. 132-138., Registrované v: WOS
8. [1.1] KAUSHIK, Priyanka - RAWAT, Kamla - ASWAL, V. K. - KOHLBRECHER, J. - BOHIDAR, H. B. Mixing ratio dependent complex coacervation versus bicontinuous gelation of pectin with in situ formed zein nanoparticles. In SOFT MATTER. ISSN 1744-683X, 2018, vol. 14, no. 31, pp. 6463-6475., Registrované v: WOS
9. [1.1] LI, Hubo - ZHENG, Xiuwen - TAO, Longxing - YANG, Yongjie - GAO, Lei - XIONG, Jie. Aeration Increases Cadmium (Cd) Retention by Enhancing Iron Plaque Formation and Regulating Pectin Synthesis in the Roots of Rice (*Oryza sativa*) Seedlings. In RICE. ISSN 1939-8425, 2019, vol. 12, no., pp., Registrované v: WOS
10. [1.1] MATIN, H. R. Hemati - SHARIATMADARI, F. - TORSHIZI, M. A. Karimi - CHIBA, L. I. Effect of dietary fibre sources on in vitro mineral binding capacity and growth performance, mineral digestibility, tibia and intestinal characteristics in broiler chickens. In EUROPEAN POULTRY SCIENCE. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS
11. [1.1] SALVIA-TRUJILLO, L. - VERKEMPINCK, S. H. E. - ZHANG, X. - VAN LOEY, A. M. - GRAUWET, T. - HENDRICKX, M. E. Comparative study on lipid digestion and carotenoid bioaccessibility of emulsions, nanoemulsions and vegetable-based in situ emulsions. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 87, no., pp. 119-128., Registrované v: WOS
12. [1.1] WOJCIESZEK, Justyna - KWIATKOWSKI, Piotr - RUZIK, Lena. Speciation analysis and bioaccessibility evaluation of trace elements in goji berries (*Lycium Barbarum*, L.). In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2017, vol. 1492, no., pp. 70-78., Registrované v: WOS
13. [1.2] SURABHI, Ajit K. - SENAN, Chandra - AZHAR, Masaud. Effect of temperature and calcium ion concentration on gelation and rheological properties of low methylated pectin. In Asian Journal of Chemistry. ISSN 09707077, 2018-01-01, 30, 7, pp. 1671-1674., Registrované v: SCOPUS

ADCA638 KOHN, Rudolf - FURDA, I. - HAUG, A. - SMIDSRØD, O. Binding of calcium and potassium ions to some polyuronides and monouronates. In *Acta Chemica Scandinavica*, 1968, vol. 22, p. 3098-3102.

Ohlasy:

1. [1.1] CHADUC, Isabelle - REYNAUD, Eric - DUMAS, Lionel - ALBERTIN, Luca - D'AGOSTO, Franck - LANSALOT, Muriel. From well-defined poly(N-acryloylmorpholine)-stabilized nanospheres to uniform mannuronan- and guluronan-decorated nanoparticles by RAFT polymerization-induced self-assembly. In POLYMER. ISSN 0032-3861, 2016, vol. 106, no., pp. 218-228., Registrované v: WOS
2. [1.1] LAITY, Peter R. - BALDWIN, Elizabeth - HOLLAND, Chris.

Changes in Silk Feedstock Rheology during Cocoon Construction: The Role of Calcium and Potassium Ions. In *MACROMOLECULAR BIOSCIENCE*. ISSN 1616-5187, 2019, vol. 19, no. 3, pp., Registrované v: WOS

3. [1.1] MAZUR, Luciana P. - CECHINEL, Maria A. P. - DE SOUZA, Selene M. A. Guelli U. - BOAVENTURA, Rui A. R. - VILAR, Vitor J. P. Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2018, vol. 223, no., pp. 215-253., Registrované v: WOS

4. [1.1] VRIESMANN, Lucia Cristina - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cacao pod husks as a source of low-methoxyl, highly acetylated pectins able to gel in acidic media. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 101, no., pp. 146-152., Registrované v: WOS

ADCA639 KOHN, Rudolf. Ion binding on polyuronates - alginate and pectin. In *Pure and Applied Chemistry*, 1975, vol. 42, p. 371-397. ISSN 0033-4545.

Ohlasy:

1. [1.1] ADITI, Mahapatra - SHASHIREKHA, M. N. - SUDHA, M. L. Characterization and bake stability of dry fruit fillings in dehydrated chiku (Manilkara zapota L. P. Royen) incorporated biscuits. In *JOURNAL OF TEXTURE STUDIES*. ISSN 0022-4901, 2017, vol. 48, no. 3, pp. 231-240., Registrované v: WOS

2. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS

3. [1.1] GIRALDO, Juan D. - CAMPOS-REQUENA, Victor H. - RIVAS, Bernabe L. Chitosan-tripolyphosphate bead: the interactions that govern its formation. In *POLYMER BULLETIN*. ISSN 0170-0839, 2019, vol. 76, no. 8, pp. 3879-3903., Registrované v: WOS

4. [1.1] HUYNH, Uyen T. D. - LERBRET, Adrien - NEIERS, Fabrice - CHAMBIN, Odile - ASSIFAOU, Ali. Binding of Divalent Cations to Polygalacturonate: A Mechanism Driven by the Hydration Water. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2016, vol. 120, no. 5, pp. 1021-1032., Registrované v: WOS

5. [1.1] CHADUC, Isabelle - REYNAUD, Eric - DUMAS, Lionel - ALBERTIN, Luca - D'AGOSTO, Franck - LANSALOT, Muriel. From well-defined poly(N-acryloylmorpholine)-stabilized nanospheres to uniform mannuronan- and guluronan-decorated nanoparticles by RAFT polymerization-induced self-assembly. In *POLYMER*. ISSN 0032-3861, 2016, vol. 106, no., pp. 218-228., Registrované v: WOS

6. [1.1] KOKSHAROV, Sergey Aleksandrovich - ALEEVA, Svetlana Vladimirovna - LEPILOVA, Olga Vladimirovna. Description of adsorption interactions of lead ions with functional groups of pectin-containing substances. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2019, vol. 283, no., pp. 606-616., Registrované v: WOS

7. [1.1] LATORRE-SANCHEZ, Marcos - ESTEVE-ADELL, Ivan -

- PRIMO, Ana - GARCIA, Hermenegildo. Innovative preparation of MoS₂-graphene heterostructures based on alginate containing (NH₄)₂MoS₄ and their photocatalytic activity for H₂ generation. In CARBON. ISSN 0008-6223, 2015, vol. 81, no., pp. 587-596., Registrované v: WOS
8. [1.1] MARTINEZ-GOMEZ, Fabian - MANSILLA, Andres - MATSUHIRO, Betty - MATULEWICZ, Maria C. - TRONCOSO-VALENZUELA, Marcos A. Chiroptical characterization of homopolymeric block fractions in alginates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 90-101., Registrované v: WOS
9. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. Calcium binding and calcium-induced gelation of sodium alginate modified by low molecular-weight polyuronate. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 55, no., pp. 65-76., Registrované v: WOS
10. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. Calcium binding and calcium-induced gelation of normal low-methoxyl pectin modified by low molecular-weight polyuronate fraction. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 69, no., pp. 318-328., Registrované v: WOS
11. [1.1] PARREIDT, Tugce Senturk - LINDNER, Martina - ROTHKOPF, Isabell - SCHMID, Markus - MUELLER, Kajetan. The Development of a Uniform Alginate-Based Coating for Cantaloupe and Strawberries and the Characterization of Water Barrier Properties. In FOODS. ISSN 2304-8158, 2019, vol. 8, no. 6, pp., Registrované v: WOS
12. [1.1] RINAUDO, Marguerite. Physicochemical behaviour of semi-rigid biopolymers in aqueous medium. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 68, no., pp. 122-127., Registrované v: WOS
13. [1.1] SENTURK PARREIDT, Tugce - MUELLER, Kajetan - SCHMID, Markus. Alginate-Based Edible Films and Coatings for Food Packaging Applications. In FOODS. ISSN 2304-8158, 2018, vol. 7, no. 10, pp., Registrované v: WOS
14. [1.1] SILVESTER, Ewen - KLEIN, Annaleise R. - WHITWORTH, Kerry L. - PUSKAR, Ljiljana - TOBIN, Mark J. Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell wall material to its aqueous chemical environment. In ENVIRONMENTAL CHEMISTRY. ISSN 1448-2517, 2018, vol. 15, no. 8, pp. 513-521., Registrované v: WOS
15. [1.1] STERNER, Martin - EDLUND, Ulrica. High-Performance Filaments from Fractionated Alginate by Polyvalent Cross-Linking: A Theoretical and Practical Approach. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 8, pp. 3311-3330., Registrované v: WOS
16. [1.1] SUBUDHI, M. Biswaranjan - JAIN, Ankit - JAIN, Ashish - HURKAT, Pooja - SHILPI, Satish - GULBAKE, Arvind - JAIN, Sanjay K. Eudragit S100 Coated Citrus Pectin Nanoparticles for Colon Targeting of 5-Fluorouracil. In MATERIALS. ISSN 1996-1944, 2015, vol. 8, no. 3, pp. 832-849., Registrované v: WOS
17. [1.1] VOO, Wan-Ping - LEE, Boon-Beng - IDRIS, Ani - ISLAM, Aminul - TEY, Beng-Ti - CHAN, Eng-Seng. Production of ultra-high concentration calcium alginate beads with prolonged dissolution profile. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 46, pp. 36687-36695.,

Registrované v: WOS

18. [1.1] XIN, Yongjia - BLIGH, Mark W. - KINSELA, Andrew S. - WANG, Yuan - WAITE, T. David. Calcium-mediated polysaccharide gel formation and breakage: Impact on membrane foulant hydraulic properties. In JOURNAL OF MEMBRANE SCIENCE. ISSN 0376-7388, 2015, vol. 475, no., pp. 395-405., Registrované v: WOS

19. [1.1] YUASA, Masahiro - TAGAWA, Yuena - TOMINAGA, Mihoko. The texture and preference of "mentsuyu (Japanese noodle soup base) caviar" prepared from sodium alginate and calcium lactate. In INTERNATIONAL JOURNAL OF GASTRONOMY AND FOOD SCIENCE. ISSN 1878-450X, 2019, vol. 18, no., pp., Registrované v: WOS

20. [1.2] Borgogna, M., Marsich, E., Donati, I., Paoletti, S., & Travan, A. Hydrogels. In Matricardi, P., Alhaique, F., Coviello, T. (eds.). IN Polysaccharide Hydrogels: Characterization and Biomedical Applications, 2016, (Pan Stanford Publishing, chapter 2, pp. 39-81)., Registrované v: SCOPUS

21. [1.2] DA SILVA, J. A.Lopes - RAO, M. A. Pectins: Structure, functionality, and uses. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 353-411., Registrované v: SCOPUS

22. [1.2] DE'NOBILI, María Dolores - CURTO, Lucrecia María - DELFINO, José María - PÉREZ, Carolina Daiana - BERNHARDT, Dana - GERSCHENSON, Lía Noemí - FISSORE, Eliana Noemí - ROJAS, Ana María. Alginate utility in edible and non edible film development and the influence of its macromolecular structure in the antioxidant activity of a pharmaceutical/food interface. In Alginic Acid: Chemical Structure, Uses and Health Benefits, 2015-10-01, pp. 119-169., Registrované v: SCOPUS

23. [1.2] HSU, Chun Hsiang - CHIANG, Po Yuan. Powder quality and release characteristics of fluidized bed granulation and wurster coating mode with encapsulated of pectin. In Taiwanese Journal of Agricultural Chemistry and Food Science. ISSN 16052471, 2017-06-01, 55, 3-4, pp. 202-213., Registrované v: SCOPUS

ADCA640 KOHN, Rudolf - HIRSCH, Ján. J. Binding of calcium(II), lead(II), and copper(II) cations to galactaric and 2,5-furandicarboxylic acids and to D-galacturonic acid and its derivatives. In *Collection of Czechoslovak Chemical Communications*, 1986, vol. 51, p. 1150-1159. ISSN 0010-0765.

Ohlasy:

1. [1.1] MANINI, Paola - PANZELLA, Lucia - EIDENBERGER, Thomas - GIARRA, Antonella - CERRUTI, Pierfrancesco - TRIFUOGGI, Marco - NAPOLITANO, Alessandra. Efficient Binding of Heavy Metals by Black Sesame Pigment: Toward Innovative Dietary Strategies To Prevent Bioaccumulation. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 4, pp. 890-897., Registrované v: WOS

ADCA641 KOHN, Rudolf - LARSEN, B. Preparation of water-soluble polyuronic acids and their calcium salts and the determination of calcium activity in relation to the degree of polymerization. In *Acta Chemica Scandinavica*, 1972, vol. 26, p. 2455-2468.

Ohlasy:

1. [1.1] BENSELFELT, Tobias - ENGSTROM, Joakim - WAGBERG,

Lars. Supramolecular double networks of cellulose nanofibrils and algal polysaccharides with excellent wet mechanical properties. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 11, pp. 2558-2570., Registrované v: WOS

2. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. Calcium binding and calcium-induced gelation of sodium alginate modified by low molecular-weight polyuronate. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 55, no., pp. 65-76., Registrované v: WOS

3. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. Calcium binding and calcium-induced gelation of normal low-methoxyl pectin modified by low molecular-weight polyuronate fraction. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 69, no., pp. 318-328., Registrované v: WOS

4. [1.1] SKJAK-BRAEK, Gudmund - DONATI, Ivan - PAOLETTI, Sergio. Alginate Hydrogels: Properties and Applications. In POLYSACCHARIDE HYDROGELS: CHARACTERIZATION AND BIOMEDICAL APPLICATIONS, 2016, vol., no., pp. 449-498., Registrované v: WOS

5. [1.1] STERNER, Martin - EDLUND, Ulrica. High-Performance Filaments from Fractionated Alginate by Polyvalent Cross-Linking: A Theoretical and Practical Approach. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 8, pp. 3311-3330., Registrované v: WOS

6. [1.2] NAHAR, Kamrun - HOSSAIN, Md Kamal - KHAN, Tanveer Ahmed. Alginates: The wonder molecule and its gelling techniques. In Research Journal of Pharmacy and Technology. ISSN 09743618, 2017-09-01, 10, 9, pp. 3195-3204., Registrované v: SCOPUS

ADCA642 KOHN, R.. Binding of toxic cations to pectin, its oligomeric fragments and plant tissues. In *Carbohydrate Polymers*, 1982, vol. 2, p. 273-275. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(82\)90030-3](https://doi.org/10.1016/0144-8617(82)90030-3)

Ohlasy:

1. [1.1] CROPOTOVA, Janna - TYLEWICZ, Urszula - COCCI, Emiliano - ROMANI, Santina - DALLA ROSA, Marco. A novel fluorescence microscopy approach to estimate quality loss of stored fruit fillings as a result of browning. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 194, no., pp. 175-183., Registrované v: WOS

2. [1.1] JOSHI, Nidhi - RAWAT, Kamla - BOHIDAR, H. B. Characterization of microstructure, viscoelasticity, heterogeneity and ergodicity in pectin-laponite-CTAB-calcium nanocomposite hydrogels. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 242-249., Registrované v: WOS

3. [1.2] CAMPOS-VEGA, Rocio - NIETO-FIGUEROA, Karen H. - OOMAH, B. Dave. Cocoa (*Theobroma cacao* L.) pod husk: Renewable source of bioactive compounds. In Trends in Food Science and Technology. ISSN 09242244, 2018-11-01, 81, pp. 172-184., Registrované v: SCOPUS

4. [1.2] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-related gelling of pectins and linking with other natural compounds: A review. In Polymers, 2018-07-11, 10, 7, pp., Registrované v: SCOPUS

5. [1.2] MALHOTRA, Bhanu - KHARKWAL, Harsha - SRIVASTAVA, Anuradha. Water-soluble biodegradable polymers for drug delivery. In *Natural Polymers for Drug Delivery*, 2016-12-07, pp. 37-44., Registrované v: SCOPUS
6. [1.2] MUDGIL, Deepak. The Interaction Between Insoluble and Soluble Fiber. In *Dietary Fiber for the Prevention of Cardiovascular Disease: Fiber's Interaction between Gut Microflora, Sugar Metabolism, Weight Control and Cardiovascular Health*, 2017-07-13, pp. 35-59., Registrované v: SCOPUS

ADCA643 KOHN, R. - HEINRICHOVÁ, K. - MALOVÍKOVÁ, Anna. Binding of cadmium(II) and copper(II) ions to oligogalacturonic acids. In *Collection of Czechoslovak Chemical Communications*, 1983, vol. 48, p. 1922-1935. ISSN 0010-0765.

Ohlasy:

1. [1.1] GUO, Xiaoming - MENG, Hecheng - ZHU, Siming - ZHANG, Tao - YU, Shujuan. Purifying sugar beet pectins from non-pectic components by means of metal precipitation. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 51, no., pp. 69-75., Registrované v: WOS

ADCA644 KOLAROV, J. - KOLAROVA, Nadežda - NELSON, N. A 3rd ADP/ATP translocator gene in yeast. In *Journal of Biological Chemistry*, 1990, vol. 265, p. 12711-12716. ISSN 0021-9258.

Ohlasy:

1. [1.1] CAO, Xuan - YANG, Shan - CAO, Chunyang - ZHOU, Yongjin J. Harnessing sub-organelle metabolism for biosynthesis of isoprenoids in yeast. In *SYNTHETIC AND SYSTEMS BIOTECHNOLOGY*. ISSN 2405-805X, 2020, vol. 5, no. 3, pp. 179-186. Dostupné na: <https://doi.org/10.1016/j.synbio.2020.06.005>., Registrované v: WOS
2. [1.1] DA FONSECA-PEREIRA, Paula - NERI-SILVA, Roberto - CAVALCANTI, Joao Henrique F. - BRITO, Danielle S. - WEBER, Andreas P. M. - ARAUJO, Wagner L. - NUNES-NESI, Adriano. Data-Mining Bioinformatics: Connecting Adenylate Transport and Metabolic Responses to Stress. In *TRENDS IN PLANT SCIENCE*. ISSN 1360-1385, 2018, vol. 23, no. 11, pp. 961-974., Registrované v: WOS
3. [1.1] DALLABONA, Cristina - BARUFFINI, Enrico - GOFFRINI, Paola - LODI, Tiziana. Dominance of yeast aac2(R96H) and aac2(R252G) mutations, equivalent to pathological mutations in ant1, is due to gain of function. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2017, vol. 493, no. 2, pp. 909-913., Registrované v: WOS
4. [1.1] DUFAY, J. Noelia - FERNANDEZ-MURRAY, J. Pedro - MCMASTER, Christopher R. SLC25 Family Member Genetic Interactions Identify a Role for HEM25 in Yeast Electron Transport Chain Stability. In *G3-GENES GENOMES GENETICS*. ISSN 2160-1836, 2017, vol. 7, no. 6, pp. 1861-1873., Registrované v: WOS
5. [1.1] GNIPOVA, Anna - SUBRTOVA, Karolna - PANICUCCI, Brian - HORVATH, Anton - LUKES, Julius - ZKOVA, Alena. The ADP/ATP Carrier and Its Relationship to Oxidative Phosphorylation in Ancestral Protist Trypanosoma brucei. In *EUKARYOTIC CELL*. ISSN 1535-9778, 2015, vol. 14, no. 3, pp. 297-310., Registrované v: WOS
6. [1.1] HORSTMANN, Cullen - CAMPBELL, Chelsea - KIM, Daniel

- Sungwhi - KIM, Kyoungtae. Transcriptome profile with 20 nm silver nanoparticles in yeast. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2019, vol. 19, no. 2, pp., Registrované v: WOS
7. [1.1] CHIPOT, Christophe - DEHEZ, Francois - SCHNELL, Jason R. - ZITZMANN, Nicole - PEBAY-PEYROULA, Eva - CATOIRE, Laurent J. - MIROUX, Bruno - KUNJI, Edmund R. S. - VEGLIA, Gianluigi - CROSS, Timothy A. - SCHANDA, Paul. Perturbations of Native Membrane Protein Structure in Alkyl Phosphocholine Detergents: A Critical Assessment of NMR and Biophysical Studies. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 7, pp. 3559-3607., Registrované v: WOS
8. [1.1] KATHIRESAN, M. - ENGLISH, A. M. Targeted proteomics identify metabolism-dependent interactors of yeast cytochrome c peroxidase: implications in stress response and heme trafficking. In METALLOMICS. ISSN 1756-5901, 2016, vol. 8, no. 4, pp. 434-443., Registrované v: WOS
9. [1.1] KUNJI, Edmund R. S. - ALEKSANDROVA, Antoniya - KING, Martin S. - MAJD, Homa - ASHTON, Valerie L. - CERSON, Elizabeth - SPRINGETT, Roger - KIBALCHENKO, Mikhail - TAVOULARI, Sotiria - CRICHTON, Paul G. - RUPRECHT, Jonathan J. The transport mechanism of the mitochondrial ADP/ATP carrier. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2016, vol. 1863, no. 10, pp. 2379-2393., Registrované v: WOS
10. [1.1] MALDONADO, Eduardo N. - DEHART, David N. - PATNAIK, Jyoti - KLATT, Sandra C. - GOOZ, Monika Beck - LEMASTERS, John J. ATP/ADP Turnover and Import of Glycolytic ATP into Mitochondria in Cancer Cells Is Independent of the Adenine Nucleotide Translocator. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 37, pp. 19642-19650., Registrované v: WOS
11. [1.1] PALMIERI, Ferdinando - MONNE, Magnus. Discoveries, metabolic roles and diseases of mitochondrial carriers: A review. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2016, vol. 1863, no. 10, pp. 2362-2378., Registrované v: WOS
12. [1.1] RAVISHANKAR, Apoorva - CUMMING, Jonathan R. - GALLAGHER, Jennifer E. G. Mitochondrial metabolism is central for response and resistance of *Saccharomyces cerevisiae* to exposure to a glyphosate-based herbicide. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 262, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.114359>., Registrované v: WOS
13. [1.1] SANTOS, Herbert J. - IMAI, Kenichiro - MAKIUCHI, Takashi - TOMII, Kentaro - HORTON, Paul - NOZAWA, Akira - OKADA, Kenta - TOZAWA, Yuzuru - NOZAKI, Tomoyoshi. Novel lineage-specific transmembrane beta-barrel proteins in the endoplasmic reticulum of *Entamoeba histolytica*. In FEBS JOURNAL. ISSN 1742-464X, 2019, vol. 286, no. 17, pp. 3416-3432., Registrované v: WOS
14. [1.1] SCARCIA, P. - PALMIERI, L. - AGRIMI, G. - PALMIERI, F. - ROTTENSTEINER, H. Three mitochondrial transporters of *Saccharomyces cerevisiae* are essential for ammonium fixation and lysine biosynthesis in synthetic minimal medium. In MOLECULAR GENETICS AND METABOLISM. ISSN 1096-7192, 2017, vol. 122, no. 3, pp. 54-60., Registrované v: WOS
15. [1.1] TRINDADE, Dario - PEREIRA, Clara - CHAVES, Susana R. -

MANON, Stephen - CORTE-REAL, Manuela - SOUSA, Maria Joao. VDAC regulates AAC-mediated apoptosis and cytochrome c release in yeast. In MICROBIAL CELL. ISSN 2311-2638, 2016, vol. 3, no. 10, pp. 369-379., Registrované v: WOS

16. [1.1] WEBER-LOTFI, Frederique - KOULINTCHENKO, Milana V. - IBRAHIM, Noha - HAMMANN, Philippe - MILESHINA, Dania V. - KONSTANTINOV, Yuri M. - DIETRICH, Andre. Nucleic acid import into mitochondria: New insights into the translocation pathways. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH. ISSN 0167-4889, 2015, vol. 1853, no. 12, pp. 3165-3181., Registrované v: WOS

17. [1.2] SUGAHARA, Ryohei - JOURAKU, Akiya - NAKAKURA, Takayo - KUSAKABE, Takahiro - YAMAMOTO, Takenori - SHINOHARA, Yasuo - MIYOSHI, Hideto - SHIOTSUKI, Takahiro. Two adenine nucleotide translocase paralogues involved in cell proliferation and spermatogenesis in the silkworm Bombyx mori. In PLoS ONE, 2015-03-05, 10, 3, pp., Registrované v: SCOPUS

18. [3.2] Group Author(s). Uniprot Consortium. P18238. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/P18238>, Registrované v: Data Citation Index

19. [3.2] Group Author(s). Uniprot Consortium. P18239. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/P18239>, Registrované v: Data Citation Index

ADCA645 KOLAROVA, Nadežda - MASLER, Ladislav - ŠIKL, D.. Cell wall glycopeptides of Candida albicans serotype A and B. In *Biochimica et Biophysica Acta*, 1973, vol. 328, p. 221-227. Dostupné na: [https://doi.org/10.1016/0005-2795\(73\)90348-6](https://doi.org/10.1016/0005-2795(73)90348-6)

Ohlasy:

1. [1.1] WESTER, Michael J. - LIN, Jia - NEUMANN, Aaron K. A computational model for regulation of nanoscale glucan exposure in Candida albicans. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS

ADCA646 KOLAROVA, Nadežda - HAPLOVÁ, Jana - GREŠÍK, Miroslav. Light-activated adenyl-cyclase from Trichoderma viride. In *FEMS Microbiology Letters*, 1992, vol. 93, p. 275-278. (1992 - Current Contents). ISSN 0378-1097. Dostupné na: [https://doi.org/10.1016/0378-1097\(92\)90474-3](https://doi.org/10.1016/0378-1097(92)90474-3)

Ohlasy:

1. [1.1] LIU, Qian - LI, Jingen - GAO, Ranran - LI, Jinyang - MA, Guoli - TIAN, Chaoguang. CLR-4, a novel conserved transcription factor for cellulase gene expression in ascomycete fungi. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, 2019, vol. 111, no. 2, pp. 373-394., Registrované v: WOS

2. [1.1] STAPPLER, Eva - RODRIGUEZ-IGLESIAS, Aroa - BAZAFKAN, Hoda - LI, Guofen - SCHMOLL, Monika. Relevance of Signal Transduction Pathways for Efficient Gene Expression in Fungi. In GENE EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 309-334., Registrované v: WOS

3. [1.2] SCHMOLL, Monika. Regulation of plant cell wall degradation

by light in trichoderma. In *Fungal Biology and Biotechnology*, 2018-01-01, 5, 1, pp. 1-20., Registrované v: SCOPUS

ADCA647 KOLAROVA, Nadežda - AUGUSTIN, J. Production of polysaccharide hydrolases in the genus *Rhizopus*. In *Folia microbiologica*, 2001, vol. 46, p. 223-226. (2000: 0.752 - IF, Current Contents - CCC). (2001 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02818537>

Ohlasy:

1. [1.1] AOKI, Hideyuki - CHUMA, Shunsuke - IBA, Yoshinori - TASHIRO, Haruka - WATANABE, Nakamichi - OYAMA, Hiroshi. Comparison of Bioactive Components in Tempeh Produced by Three Different *Rhizopus* Starters and Immunomodulatory Effect of Tempeh on Atopic Dermatitis Mice. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2020, vol. 26, no. 5, pp. 665-672. Dostupné na: <https://doi.org/10.3136/fstr.26.665>., Registrované v: WOS

ADCA648 KOLAROVA, Nadežda - FARKAŠ, Vladimír. Sensitivity of various yeasts to crude cellulolytic enzyme complexes from *Trichoderma reesei*. In *European Journal of Applied Microbiology and Biotechnology*, 1981, vol. 13, p. 184-187. Dostupné na: <https://doi.org/10.1007/BF00703051>

Ohlasy:

1. [1.1] ZICHOVA, Miroslava - STRATILOVA, Eva - OMELKOVA, Jirina - VADKERTIOVA, Renata - BABAK, Libor - ROSENBERG, Michal. Production of ethanol from waste paper using immobilized yeasts. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 3, pp. 553-561., Registrované v: WOS

ADCA649 KOLAŘÍK, M. - SLÁVIKOVÁ, Elena - PAŽOUTOVÁ, S. The taxonomic and ecological characterisation of the clinically important heterobasidiomycete *Fugomyces cyanescens* and its association with bark beetles. In *Czech Mycology*, 2006, vol. 58, p. 81-98. ISSN 1211-0981.

Ohlasy:

1. [1.1] KUAN, Chee Sian - YEW, Su Mei - TOH, Yue Fen - CHAN, Chai Ling - LIM, Soo Kun - LEE, Kok Wei - NA, Shiang Ling - HOH, Chee-Choong - YEE, Wai-Yan - NG, Kee Peng. Identification and Characterization of a Rare Fungus, *Quambalana cyanescens*, Isolated from the Peritoneal Fluid of a Patient after Nocturnal Intermittent Peritoneal Dialysis. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 12, pp., Registrované v: WOS

2. [1.1] NARMANI, Abolfazl - ARZANLOU, Mandi. *Quambalaria cyanescens*, a new fungal trunk pathogen associated with grapevine decline in Iran. In *CROP PROTECTION*. ISSN 0261-2194, 2019, vol. 124, no., pp., Registrované v: WOS

3. [1.1] PIATEK, Marcin - RIESS, Kai - KARASINSKI, Dariusz - YOROU, Nourou S. - LUTZ, Matthias. Integrative analysis of the West African *Ceraceosorus africanus* sp nov provides insights into the diversity, biogeography, and evolution of the enigmatic Ceraceosorales (Fungi: Ustilaginomycotina). In *ORGANISMS DIVERSITY & EVOLUTION*. ISSN 1439-6092, 2016, vol. 16, no. 4, pp. 743-760., Registrované v: WOS

4. [1.1] SITZ, Rachael A. - LUNA, Emily K. - CABALLERO, Jorge Ibarra - TISSERAT, Ned A. - CRANSHAW, Whitney S. - STEWART, Jane E.

Virulence of Genetically Distinct *Geosmithia morbida* Isolates to Black Walnut and Their Response to Coinoculation with *Fusarium solani*. In *PLANT DISEASE*. ISSN 0191-2917, 2017, vol. 101, no. 1, pp. 116-120., Registrované v: WOS

5. [1.2] LEDNEV, G. R. - LEVCHENKO, M. V. - KAZARSTEV, I. A. Mycobiota associated with the european spruce bark beetle (*Ips typographus*) in Leningrad Region. In *Mikologiya I Fitopatologiya*. ISSN 00263648, 2019-01-01, 53, 2, pp. 80-89., Registrované v: SCOPUS

6. [1.2] VAHEDI-DARMIYAN, Mohammad Ebrahim - JAHANI, Mehdi - MIRZAEI, Mohammad Reza - ASGARI, Bitan. A noteworthy record of endophytic *Quambalaria cyanescens* from *Punica granatum* in Iran. In *Czech Mycology*. ISSN 12110981, 2017-01-01, 69, 2, pp. 113-123., Registrované v: SCOPUS

ADCA650 KOLL, P. - SAAK, W. - POHL, S. - STEINER, Bohumil - KOŮŠ, Miroslav.

Preparation and crystal and molecular structure of 6-O-(
(2S)-2,3-epoxypropyl)-1,2:3,4-di-O-isopropylidene- α -D-galactopyranose.
Pyranoid ring conformation in 1,2:3,4-di-O-isopropylidene-galactopyranose and related systems. In *Carbohydrate Research*, 1994, vol. 265, p. 237-248. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00232-0](https://doi.org/10.1016/0008-6215(94)00232-0)

Ohlasy:

1. [1.1] AHMED, Ahmed M. A. - MOHAMMED, Adnan - READ, Roger W. Towards Functional Fluorous Surfactants. Synthesis and Spectroscopic Features of Systematically Modified Sugar-Substituted Fluorous 1,2,3-Triazoles. In *JOURNAL OF FLUORINE CHEMISTRY*. ISSN 0022-1139, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfluchem.2020.109519>., Registrované v: WOS

2. [1.1] FERNANDES, Fabio de Souza - FERNANDES, Tayrine Silva - DA SILVEIRA, Ligia Souza - CANESCHI, William - LOURENCO, Maria Cristina S. - DINIZ, Claudio G. - DE OLIVEIRA, Pollyanna Francielli - LIMA MARTINS, Sabrina de Paula - PEREIRA, Daiane Eleuterio - TAVARES, Denise Crispim - LE HYARIC, Mireille - DE ALMEIDA, Mauro V. - COURI, Mara Rubia C. Synthesis and evaluation of antibacterial and antitumor activities of new galactopyranosylated amino alcohols. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2016, vol. 108, no., pp. 203-210., Registrované v: WOS

3. [1.1] MOHAMMED, Adnan - AHMED, Ahmed M. A. - BHADBHADE, Mohan M. - HO, Junming - READ, Roger W. Sugar-substituted fluorinated 1,2,3-triazoles: Helical twists in fluoroalkyl chains and their molecular association in the solid state and correlations with physicochemical properties. In *JOURNAL OF FLUORINE CHEMISTRY*. ISSN 0022-1139, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfluchem.2020.109536>., Registrované v: WOS

ADCA651 KOLLÁR, R. - ŠTURDÍK, E. - FARKAŠ, Vladimír. Induction and acceleration of yeast lysis by addition of fresh yeast autolysate. In *Biotechnology Letters*, 1991, vol. 13, p. 543-546. ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/BF01033406>

Ohlasy:

1. [1.1] PEREZ-BIBBINS, B. - TORRADO-AGRASAR, A. -

- SALGADO, J. M. - DE SOUZA OLIVEIRA, R. Pinheiro - DOMINGUEZ, J. M. Potential of lees from wine, beer and cider manufacturing as a source of economic nutrients: An overview. In WASTE MANAGEMENT. ISSN 0956-053X, 2015, vol. 40, no., pp. 72-81., Registrované v: WOS
2. [1.1] TAKALLOO, Zeinab - NIKKHAH, Mohsen - NEMATİ, Robabeh - JALILIAN, Nezam - SAJEDI, Reza H. Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (*Saccharomyces cerevisiae*): a comparative study. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02840-3>., Registrované v: WOS
3. [1.1] XIE, Jin - CUI, Chun - REN, Jiaoyan - ZHAO, Mouming - ZHAO, Long - WANG, Wei. High solid concentrations facilitate enzymatic hydrolysis of yeast cells. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2017, vol. 103, no., pp. 114-121., Registrované v: WOS
4. [1.2] LI, Xiao - SHI, Xiaodan - ZOU, Man - LUO, Yudi - TAN, Yali - WU, Yexu - CHEN, Lin - LI, Pei. Characteristics of morphological and physiological changes during the autolysis process of *Saccharomyces cerevisiae* FX-2. In Korean Journal of Microbiology and Biotechnology. ISSN 1598642X, 2015-01-01, 43, 3, pp. 249-258., Registrované v: SCOPUS

ADCA652 KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Cadmium impact, accumulation and detection in poplar callus cells. In *Environmental Science and Pollution Research*, 2017, vol. 24, p. 15340-15346. (2016: 2.741 - IF, Q2 - JCR, 0.891 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-017-9158-3>

Ohlasy:

1. [1.1] JOHNSON, Clayton R. - SHROUT, Joshua D. - FEIN, Jeremy B. Visualization and quantification of Cd sorption to bacteria using confocal laser scanning microscopy and Cd-specific fluorescent probes. In CHEMICAL GEOLOGY. ISSN 0009-2541, 2018, vol. 483, no., pp. 21-30., Registrované v: WOS
2. [1.1] PAN, Huijuan - LAKSHMIPRIYA, Thangavel - GOPINATH, Subash C. B. - ANBU, Periasamy. High-Affinity Detection of Metal-Mediated Nephrotoxicity by Aptamer Nanomaterial Complementation. In CURRENT NANOSCIENCE. ISSN 1573-4137, 2019, vol. 15, no. 6, pp. 549-556., Registrované v: WOS
3. [1.1] RAN, Di - MA, Yonggang - LIU, Wei - LUO, Tongwang - ZHENG, Jiaming - WANG, Dedong - SONG, Ruilong - ZHAO, Hongyan - ZOU, Hui - GU, Jianhong - YUAN, Yan - BIAN, Jianchun - LIU, Zongping. TGF-beta-activated kinase 1 (TAK1) mediates cadmium-induced autophagy in osteoblasts via the AMPK / mTORC1 / ULK1 pathway. In TOXICOLOGY. ISSN 0300-483X, 2020, vol. 442, no., pp. Dostupné na: <https://doi.org/10.1016/j.tox.2020.152538>., Registrované v: WOS
4. [1.1] TOLEDO SALAS, Anali - HERNANDEZ PIMENTEL, Maria Victoria - RODRIGUEZ TOVAR, Aida Veronica - GUERRERO ZUNIGA, Leonor Angelica - RODRIGUEZ DORANTES, Angelica. EVALUATION OF THE EFFECT OF CADMIUM ON THE ACTIVITY OF PHENOLOXIDASE OF CELLY TISSUE OF *Epithelantha micromeris* INOCULATED WITH RIZOBACTERIA. In REVISTA INTERNACIONAL DE CONTAMINACION

ADCA653 KOLLÁROVÁ, Karin - HENSELOVÁ, M. - LIŠKOVÁ, Desana. Effect of auxins and plant oligosaccharides on root formation and elongation growth of mung bean hypocotyls. In *Plant Growth Regulation*, 2005, vol. 46, p. 1-9. ISSN 0167-6903. Dostupné na: <https://doi.org/10.1007/s10725-005-5185-z>

Ohlasy:

1. [1.1] DE BORBA, Marlon C. - DE FREITAS, Mateus B. - STADNIK, Marciel J. Ulvan enhances seedling emergence and reduces Fusarium wilt severity in common bean (*Phaseolus vulgaris* L.). In *CROP PROTECTION*. ISSN 0261-2194, 2019, vol. 118, no., pp. 66-71., Registrované v: WOS
2. [1.1] FRY, Stephen C. Potassium, not lepidimoid, is the principal 'allelochemical' of cress-seed exudate that promotes amaranth hypocotyl elongation. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2017, vol. 120, no. 4, pp. 511-520., Registrované v: WOS
3. [1.1] IQBAL, Amjad - MILLER, Janice G. - MURRAY, Lorna - SADLER, Ian H. - FRY, Stephen C. The pectic disaccharides lepidimoidic acid and beta-d-xylopyranosyl-(1→3)-d-galacturonic acid occur in cress-seed exudate but lack allelochemical activity. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2016, vol. 117, no. 4, pp. 607-623., Registrované v: WOS
4. [1.1] LARSKAYA, I. A. - BARISHEVA, T. S. - ZABOTIN, A. I. - GORSHKOVA, T. A. Character of oligosaccharin OS-RG participation in the IAA-induced formation of adventitious roots. In *RUSSIAN JOURNAL OF PLANT PHYSIOLOGY*. ISSN 1021-4437, 2015, vol. 62, no. 2, pp. 171-178., Registrované v: WOS
5. [1.1] MIREYA HERNANDEZ-HERRERA, Rosalba - SANTACRUZ-RUVALCABA, Fernando - ZANUDO-HERNANDEZ, Julia - HERNANDEZ-CARMONA, Gustavo. Activity of seaweed extracts and polysaccharide-enriched extracts from *Ulva lactuca* and *Padina gymnospora* as growth promoters of tomato and mung bean plants. In *JOURNAL OF APPLIED PHYCOLOGY*. ISSN 0921-8971, 2016, vol. 28, no. 4, pp. 2549-2560., Registrované v: WOS
6. [1.1] SUMALAPAO, Derick Erl P. - TUPPIL, Caireen G. - URTULA, Anton Angelo C. - VALDESTAMON, Duane M. - VILLANUEVA, Leoncia Marie D. - LEDESMA, Nadine Adellia A. TOLERANCE OF MUNG BEAN (*Vigna radiata* (L.) Wilczek) TO LACTIC ACID, A POTENTIAL HERBICIDE: GROWTH AND MORPHOLOGY. In *JOURNAL OF ANIMAL AND PLANT SCIENCES*. ISSN 1018-7081, 2018, vol. 28, no. 1, pp. 138-145., Registrované v: WOS
7. [1.2] ALEXANDRE, Rodrigo Sobreira - COSTA, Poliana Rangel - CHAGAS, Kristhiano - MAYRINCK, Livia Giro - GILES, João Antônio Dutra - SCHMILDT, Edilson Romais. Different propagules and auxin concentration on rooting of passionflower sandbank. In *Revista Ceres*. ISSN 0034737X, 2016-01-01, 63, 5, pp. 691-697., Registrované v: SCOPUS
8. [1.2] KLYKOV, A. G. - ANISIMOV, M. M. - CHAIKINA, E. L. - SHEVCHENKO, N. M. - PARSKAYA, N. S. Carbohydrate containing biopolymers derived from brown algae as promoters of growth, development and productivity of agricultural crops. In *Indian Journal of Agricultural Research*. ISSN 03678245, 2019-10-01, 53, 5, pp. 609-613., Registrované v: SCOPUS

9. [1.2] LIANG, Xiaoting - LIN, Yibin - SONG, Yuanyuan - WANG, Ruilong - ZENG, Rensen - CHEN, Dongmei. Autotoxicity of *Celosia argentea* and its allelopathic effects on other plants. In *Journal of South China Agricultural University*. ISSN 1001411X, 2018-09-01, 39, 5, pp. 32-38., Registrované v: SCOPUS
10. [1.2] MOENNE, Alejandra. Marine algae oligo-carrageenans (OCs) stimulate growth and defense responses in terrestrial plants. In *Research Progress in Oligosaccharins*, 2016-01-01, pp. 41-49., Registrované v: SCOPUS

ADCA654 KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - LUX, Alexander. Effect of auxins on *Karwinskia humboldtiana* root cultures. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2004, vol. 79, p. 213-221. ISSN 0167-6857. Dostupné na: <https://doi.org/10.1007/s11240-004-0662-z>

Ohlasy:

1. [1.1] CORDEIRO, Livia da Silva - SIMOES-GURGEL, Claudia - ALBARELLO, Norma. Multiplication and cryopreservation of adventitious roots of *Cleome rosea* Vahl. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2015, vol. 51, no. 3, pp. 249-257., Registrované v: WOS
2. [1.1] DEEPTHI, S. - SATHEESHKUMAR, K. Effects of major nutrients, growth regulators and inoculum size on enhanced growth and camptothecin production in adventitious root cultures of *Ophiorrhiza mungos* L. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2017, vol. 117, no., pp. 198-209., Registrované v: WOS
3. [1.1] KHAN, Tariq - ABBASI, Bilal Haider - KHAN, Mubarak Ali - AZEEM, Muhammad. Production of biomass and useful compounds through elicitation in adventitious root cultures of *Fagonia indica*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 108, no., pp. 451-457., Registrované v: WOS
4. [1.1] KIKOWSKA, Malgorzata - THIEM, Barbara - SLIWINSKA, Elwira - REWERS, Monika - KOWALCZYK, Mariusz - STOCHMAL, Anna - DLUGASZEWSKA, Jolanta. MICROPROPAGATION OF *ERYNGIUM CAMPESTRE* L. VIA SHOOT CULTURE PROVIDES VALUABLE UNIFORM PLANT MATERIAL WITH ENHANCED CONTENT OF PHENOLIC ACIDS AND ANTIMICROBIAL ACTIVITY. In *ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA*. ISSN 0001-5296, 2016, vol. 58, no. 1, pp. 43-56., Registrované v: WOS
5. [1.1] LULU, Tao - PARK, So-Young - IBRAHIM, Rusli - PAEK, Kee-Yoeup. Production of biomass and bioactive compounds from adventitious roots by optimization of culturing conditions of *Eurycoma longifolia* in balloon-type bubble bioreactor system. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2015, vol. 119, no. 6, pp. 712-717., Registrované v: WOS
6. [1.1] STANISIC, Mariana - COSIC, Tatjana - SAVIC, Jelena - KRSTIC-MILOSEVIC, Dijana - MISIC, Danijela - SMIGOCKI, Ann - NINKOVIC, Slavica - BANJAC, Nevena. Hairy root culture as a valuable tool for allelopathic studies in apple. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2019, vol. 39, no. 5, pp. 888-905., Registrované v: WOS
7. [1.2] SINGH, Akanksha - GUPTA, Rupali - CHATURVEDI, Shruti -

PANDEY, Rakesh. Harnessing the soil microbial wealth for enhancement of plant secondary metabolites in medicinal and aromatic plants. In *New and Future Developments in Microbial Biotechnology and Bioengineering: Microbes in Soil, Crop and Environmental Sustainability*, 2019-01-01, pp. 179-190., Registrované v: SCOPUS

8. [3.1] Anjum, CE (Anjum, Clarice Evey); Marbawi, H (Marbawi, Hartinie); Gansau, JA (Gansau, Jualang Azlan). Effects of auxin and cytokinin on biomass and phenolics production in adventitious roots cultures of *Labisia pumila* var. Alata. In: *TRANSACTIONS ON SCIENCE AND TECHNOLOGY*. ISSN: 2289-8786, 2018, Volume: 5 Issue 2 Pages: 68-75

9. [3.1] Khan, A (Khan, Asghar); Khan MA (Khan, Mubarak Ali); Alam, M (Alam, Maqsood); Akbar, R (Akbar, Raj); Ali, A (Ali, Amir); Mohammad, S (Mohammad, Sher); Naeem, I (Naeem, Ijaz); Rauf, M (Rauf Mamoon). Analysis of the differential effects of methyl jasmonate on induction of adventitious roots and antioxidant potential in *Artemisia scoparia*. In: *INTERNATIONAL JOURNAL OF BIOSCIENCES*. ISSN: 2220-6655, 2019, Volume: 3 Issue: 10 Pages: 547-558

ADCA655 KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - CAPEK, Peter. Further biological characteristics of galactoglucomannan oligosaccharides. In *Biologia Plantarum : international journal*, 2006, vol. 50, p. 232-238. (2005: 0.792 - IF, Q3 - JCR, 0.449 - SJR, Q2 - SJR). ISSN 0006-3134. Dostupné na: <https://doi.org/10.1007/s10535-006-0012-6>

Ohlasy:

1. [1.1] PRANOVICH, Andrey - HOLMBOM, Bjarne - WILLFOR, Stefan. TWO-STAGE HOT-WATER EXTRACTION OF GALACTOGLUCOMANNANS FROM SPRUCE WOOD. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2016, vol. 36, no. 2, pp. 140-156., Registrované v: WOS

2. [1.2] KOPANIA, Ewa - WIŚNIEWSKA-WRONA, Maria. Biopolymer composites based on galactoglucomannans (GGMS) and micrystalline chitosan (MCCH). In *Progress on Chemistry and Application of Chitin and its Derivatives*. ISSN 18965644, 2015-01-01, 20, pp. 110-121., Registrované v: SCOPUS

ADCA656 KOLLÁROVÁ, Karin - RICHTEROVÁ, Danica - SLOVÁKOVÁ, Ľudmila - HENSELOVÁ, M. - CAPEK, Peter - LIŠKOVÁ, Desana. Impact of galactoglucomannan oligosaccharides on elongation growth in intact mung bean plants. In *Plant Science*, 2009, vol. 177, pp. 324-330. Dostupné na: <https://doi.org/10.1016/j.plantsci.2009.06.002>

Ohlasy:

1. [1.1] CARDENAS-SANDOVAL, B. A. - BRAVO-LUNA, L. - BERMUDEZ-TORRES, K. - TREJO-ESPINO, J. L. - ZAMILPA, A. - TREJO-TAPIA, G. ENHANCEMENT OF PHENYLETHANOID GLYCOSIDES BIOSYNTHESIS IN *Castilleja tenuiflora* Benth. SHOOT CULTURES WITH CELL WALL OLIGOSACCHARIDES FROM *Fusarium oxysporum* f. sp. *lycopersici* RACE 3. In *REVISTA MEXICANA DE INGENIERIA QUIMICA*. ISSN 1665-2738, 2015, vol. 14, no. 3, pp. 631-639., Registrované v: WOS

ADCA657 KOLLÁROVÁ, Karin** - KAMENICKÁ, Viktória - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In *Journal of Plant Physiology*, 2018, vol. 222, p. 59-66. (2017: 2.833 - IF, Q1 - JCR, 1.178 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0176-1617.
Dostupné na: <https://doi.org/10.1016/j.jplph.2017.12.017>

Ohlasy:

1. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>, Registrované v: WOS
2. [1.1] XIE, Xin - YAN, Yunlong - LIU, Tao - CHEN, Jun - HUANG, Maoxi - WANG, Li - CHEN, Meiqing - LI, Xiangyang. Data-independent acquisition proteomic analysis of biochemical factors in rice seedlings following treatment with chitosan oligosaccharides. In *PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY*. ISSN 0048-3575, 2020, vol. 170, no., pp. Dostupné na: <https://doi.org/10.1016/j.pestbp.2020.104681>, Registrované v: WOS
3. [1.1] ZHEN, Meinan - CHEN, Hongkun - LIU, Qinglong - SONG, Benru - WANG, Yizhi - TANG, Jingchun. Combination of rhamnolipid and biochar in assisting phytoremediation of petroleum hydrocarbon contaminated soil using *Spartina anglica*. In *JOURNAL OF ENVIRONMENTAL SCIENCES*. ISSN 1001-0742, 2019, vol. 85, no., pp. 107-118., Registrované v: WOS
4. [1.2] SHEN, Tianer - SHI, Jie Hu - YING, Ying - GU, Jiajia - GUO, Yanping - LIAO, Fanglei - CHEN, Wenrong. Mechanism of Cadmium Transport and Accumulation in Maize and Its Physiological Response Against Cd Toxicity. In *Journal of the Chinese Cereals and Oils Association*. ISSN 10030174, 2019-09-25, 34, 9, pp. 139-146., Registrované v: SCOPUS

ADCA658 KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - LUX, Alexander. Influence of galactoglucomannan oligosaccharides on root culture of *Karwinskia humboldtiana*. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2007, vol. 91, p. 9-19. (2006: 0.951 - IF, Q3 - JCR, 0.614 - SJR, Q1 - SJR). ISSN 0167-6857.

Ohlasy:

1. [1.1] ASGHER, Mohd. - KHAN, M. Iqbal R. - ANJUM, Naser A. - KHAN, Nafees A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In *PROTOPLASMA*. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 399-413., Registrované v: WOS
2. [1.1] CARDENAS-SANDOVAL, B. A. - BRAVO-LUNA, L. - BERMUDEZ-TORRES, K. - TREJO-ESPINO, J. L. - ZAMILPA, A. - TREJO-TAPIA, G. ENHANCEMENT OF PHENYLETHANOID GLYCOSIDES BIOSYNTHESIS IN *Castilleja tenuiflora* Benth. SHOOT CULTURES WITH CELL WALL OLIGOSACCHARIDES FROM *Fusarium oxysporum* f. sp. *lycopersici* RACE 3. In *REVISTA MEXICANA DE INGENIERIA QUIMICA*. ISSN 1665-2738, 2015, vol. 14, no. 3, pp. 631-639., Registrované v: WOS

ADCA659 KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - SLOVÁKOVÁ, Ľudmila - LIŠKOVÁ, Desana. Interaction of galactoglucomannan oligosaccharides with auxin in mung bean primary root. In *Plant Physiology and Biochemistry : an official journal of the Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant Biology (Société Française de Biologie Végétale (SFBV))*, 2010, vol.48, p. 401-406. (2009: 2.485 - IF, 1.153 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2010.03.009>

Ohlasy:

1. [1.1] ASGHER, Mohd. - KHAN, M. Iqbal R. - ANJUM, Naser A. - KHAN, Nafees A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In *PROTOPLASMA*. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 399-413., Registrované v: WOS
2. [1.1] LARSKAYA, I. A. - GORSHKOVA, T. A. Plant oligosaccharides outsiders among elicitors? In *BIOCHEMISTRY-MOSCOW*. ISSN 0006-2979, 2015, vol. 80, no. 7, pp. 881-900., Registrované v: WOS
3. [1.1] ONWURAFOR, E. U. - UZODINMA, E. O. - CHIKWENDU, J. N. - NWANKWOR, O. F. Effect of incorporation of unripe plantain and mung bean malt flours on wheat flour on the chemical, physical and sensory properties of cookies. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2019, vol. 26, no. 3, pp. 959-967., Registrované v: WOS
4. [1.1] SCHAFLEITNER, Roland - HUANG, Shu-mei - CHU, Shui-hui - YEN, Jo-yi - LIN, Chen-yu - YAN, Miao-rong - KRISHNAN, Bharath - LIU, Mao-sen - LO, Hsiao-feng - CHEN, Chien-yu - CHEN, Long-fang O. - WU, Dung-chi - BUI, Thu-giang Thi - RAMASAMY, Srinivasan - TUNG, Chih-wei - NAIR, Ramakrishnan. Identification of single nucleotide polymorphism markers associated with resistance to bruchids (*Callosobruchus* spp.) in wild mungbean (*Vigna radiata* var. *sublobata*) and cultivated *V. radiata* through genotyping by sequencing and quantitative trait locus analysis. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2016, vol. 16, no., pp., Registrované v: WOS
5. [1.1] WU, Xingbo - ISLAM, A. S. M. Faridul - LIMPOT, Naransa - MACKASMIEL, Lucas - MIERZWA, Jerzy - CORTES, Andres J. - BLAIR, Matthew W. Genome-Wide SNP Identification and Association Mapping for Seed Mineral Concentration in Mung Bean (*Vigna radiata*L.). In *FRONTIERS IN GENETICS*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.00656>., Registrované v: WOS
6. [1.1] YAMABHAI, Montarop - SAK-UBOL, Suttipong - SRILA, Witsanu - HALTRICH, Dietmar. Mannan biotechnology: from biofuels to health. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2016, vol. 36, no. 1, pp. 32-42., Registrované v: WOS

ADCA660 KOLLÁROVÁ, Karin** - KUSÁ, Zuzana - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. The response of maize protoplasts to cadmium stress mitigated by silicon. In *Ecotoxicology and Environmental Safety*, 2019, vol. 170, p. 488-494. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0147-6513. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2018.12.016>

Ohlasy:

1. [1.1] BARUAH, I. - BARUAH, G. - SAHU, J. - SINGHA, D.L. - DEKABORUAH, H. - VELMURUGAN, N. - CHIKKAPUTTAIAH, C.

- Transient Sub-cellular Localization and In Vivo Protein-Protein Interaction Study of Multiple Abiotic Stress-Responsive AtEIF4A-III and AtALY4 Proteins in *Arabidopsis thaliana*. In *PLANT MOLECULAR BIOLOGY REPORTER*. ISSN 0735-9640, DEC 2020, vol. 38, no. 4, p. 538-553., Registrované v: WOS
2. [1.1] HAMILL, P.G. - STEVENSON, A. - MCMULLAN, P.E. - WILLIAMS, J.P. - LEWIS, A.D.R. - SUDHARSAN, S. - STEVENSON, K.E. - FARNSWORTH, K.D. - KHROUSTALYOVA, G. - TAKEMOTO, J.Y. - QUINN, J.P. - RAPOPORT, A. - HALLSWORTH, J.E. Microbial lag phase can be indicative of, or independent from, cellular stress. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, APR 3 2020, vol. 10, no. 1., Registrované v: WOS
3. [1.1] HUANG, Hengliang - RIZWAN, Muhammad - LI, Mei - SONG, Furu - ZHOU, Sijiang - HE, Xuan - DING, Rui - DAI, Zhihua - YUAN, Yuan - CAO, Menghua - XIONG, Shuanglian - TU, Shuxin. Comparative efficacy of organic and inorganic silicon fertilizers on antioxidant response, Cd/Pb accumulation and health risk assessment in wheat (*Triticum aestivum* L.). In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2019, vol. 255, art. no. 113146, Registrované v: WOS
4. [1.1] SHEN, M. - SCHNEIDER, H. - XU, R.B. - CAO, G.H. - ZHANG, H.B. - LI, T. - ZHAO, Z.W. Dark septate endophyte enhances maize cadmium (Cd) tolerance by the remodeled host cell walls and the altered Cd subcellular distribution. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, APR 2020, vol. 172., Registrované v: WOS
5. [1.1] SHI, G.L. - LU, H.Y. - LIU, H. - LOU, L.Q. - ZHANG, P.P. - SONG, G.C. - ZHOU, H.M. - MA, H.X. Sulfate application decreases translocation of arsenic and cadmium within wheat (*Triticum aestivum* L.) plant. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, APR 15 2020, vol. 713., Registrované v: WOS
6. [1.1] VACULIK, M. - LUKACOVA, Z. - BOKOR, B. - MARTINKA, M. - TRIPATHI, D.K. - LUX, A. Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6744-6757., Registrované v: WOS

ADCA661 KÓŇA, Juraj - BRINCK, T. A combined molecular dynamics simulation and quantum chemical study on the mechanism for activation of the OxyR transcription factor by hydrogen peroxide. In *Organic and Biomolecular Chemistry*, 2006, vol. 4, p. 3468-3478. (2005: 2.547 - IF, Q2 - JCR, 1.293 - SJR, Q1 - SJR). ISSN 1477-0520. Dostupné na: <https://doi.org/10.1039/b604602a>

Ohlasy:

1. [1.1] HUANG, Beijing K. - LANGFORD, Troy F. - SIKES, Hadley D. Using Sensors and Generators of H₂O₂ to Elucidate the Toxicity Mechanism of Piperlongumine and Phenethyl Isothiocyanate. In *ANTIOXIDANTS & REDOX SIGNALING*. ISSN 1523-0864, 2016, vol. 24, no. 16, pp. 924-938., Registrované v: WOS
2. [1.1] HUANG, Beijing K. - ALI, Sohail - STEIN, Kassi T. - SIKES, Hadley D. Interpreting Heterogeneity in Response of Cells Expressing a Fluorescent Hydrogen Peroxide Biosensor. In *BIOPHYSICAL JOURNAL*. ISSN 0006-3495, 2015, vol. 109, no. 10, pp. 2148-2158., Registrované v: WOS
3. [1.1] JELCIC, Mark - ENYEDI, Balazs - XAVIER, Joao B. - NIETHAMMER, Philipp. Image-Based Measurement of H₂O₂ Reaction

Diffusion in Wounded Zebrafish Larvae. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2017, vol. 112, no. 9, pp. 2011-2018., Registrované v: WOS
4. [1.2] DUBBS, James M. - MONGKOLSUK, Skorn.
Peroxide-Sensing Transcriptional Regulators in Bacteria. In Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria, 2016-08-12, 1, pp. 587-602., Registrované v: SCOPUS

ADCA662 KÓŇA, Juraj - FABIAN, Walter. Hybrid QM/MM calculations on the first redox step of the catalytic cycle of bovine glutathione peroxidase GPX1. In *Journal of Chemical Theory and Computation*, 2011, vol. 7, p. 2610-2616. (2010: 5.138 - IF, Q1 - JCR, 2.431 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct200129q>

Ohlasy:

1. [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad.
Computational Modeling of the Catalytic Cycle of Glutathione Peroxidase Nanomimic. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2016, vol. 120, no. 51, pp. 10108-10115., Registrované v: WOS
2. [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad. Antioxidant activity of selenenamide-based mimic as a function of the aromatic thiols nucleophilicity, a DFT-SAPE model. In COMPUTATIONAL BIOLOGY AND CHEMISTRY. ISSN 1476-9271, 2018, vol. 75, no., pp. 213-221., Registrované v: WOS
3. [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad - HOUSAINDOKHT, Mohammad Reza. Computational Kinetic Modeling of the Catalytic Cycle of Glutathione Peroxidase Nanomimic: Effect of Nucleophilicity of Thiols on the Catalytic Activity. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2018, vol. 122, no. 1, pp. 364-374., Registrované v: WOS
4. [1.1] REZAEIAN, Mojtaba - IZADYAR, Mohammad - POUR, Ali Nakhaei. Carbon Dioxide Absorption by the Imidazolium-Amino Acid Ionic Liquids, Kinetics, and Mechanism Approach. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2018, vol. 122, no. 26, pp. 5721-5729., Registrované v: WOS
5. [1.1] SABET-SARVESTANI, Hossein - IZADYAR, Mohammad - ESHGHI, Hossein - NOROZI-SHAD, Nazanin. Evaluation and understanding the performances of various derivatives of carbonyl-stabilized phosphonium ylides in CO₂ transformation to cyclic carbonates. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2020, vol. 22, no. 1, pp. 223-237., Registrované v: WOS
6. [1.2] BORTOLI, Marco - TORSELLO, Mauro - BICKELHAUPT, F. Matthias - ORIAN, Laura. Role of the Chalcogen (S, Se, Te) in the Oxidation Mechanism of the Glutathione Peroxidase Active Site. In ChemPhysChem. ISSN 14394235, 2017-11-03, 18, 21, pp. 2950-., Registrované v: SCOPUS

ADCA663 KÓŇA, Juraj** - ZÁHRADNÍK, P. - KOZMON, Stanislav - FABIÁK, W.M.F. Role of solvent effects on nucleophilic substitution of 4H-pyran-4-one and its 2,6-dimethyl derivative with hydroxide ion in aqueous solution: ab initio and density functional theory studies on a supermolecular reaction model. In *Journal of Molecular Structure: THEOCHEM*, 2005, vol. 728, p. 117-122. ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.theochem.2005.02.026>

Ohlasy:

1. [1.1] CHANG, Yu-Ming - WANG, Yi-Siang - CHAO, Sheng D. A minimum quantum chemistry CCSD(T)/CBS dataset of dimeric interaction energies for small organic functional groups. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2020, vol. 153, no. 15, pp. Dostupné na: <https://doi.org/10.1063/5.0019392>., Registrované v: WOS

ADCA664 KÓŇA, Juraj. Theoretical study on the mechanism of a ring-opening reaction of oxirane by the active-site aspartic dyad of KIV-1 protease. In *Organic and Biomolecular Chemistry*, 2008, vol., p. 359-365. ISSN 1477-0520. Dostupné na: <https://doi.org/10.1039/b715828a>

Ohlasy:

1. [1.1] AHSAN, Mohd - SENAPATI, Sanjib. Water Plays a Cocatalytic Role in Epoxide Ring Opening Reaction in Aspartate Proteases: A QM/MM Study. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2019, vol. 123, no. 38, pp. 7955-7964., Registrované v: WOS

2. [1.1] IZADYAR, Mohammad - REZAEIAN, Mojtaba - VICTOROV, Alexey. Theoretical study on the absorption of carbon dioxide by DBU-based ionic liquids. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 35, pp. 20050-20060. Dostupné na: <https://doi.org/10.1039/d0cp03612a>., Registrované v: WOS

3. [1.1] JALADANKI, Chaitanya K. - TAXAK, Nikhil - VARIKOTI, Rohith A. - BHARATAM, Prasad V. Toxicity Originating from Thiophene Containing Drugs: Exploring the Mechanism using Quantum Chemical Methods. In *CHEMICAL RESEARCH IN TOXICOLOGY*. ISSN 0893-228X, 2015, vol. 28, no. 12, pp. 2364-2376., Registrované v: WOS

4. [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad. Computational modeling of the kinetics and mechanism of the new generation of glutathione peroxidase nanomimic: selenosubtilisin and tellurosutlisin. In *JOURNAL OF THE IRANIAN CHEMICAL SOCIETY*. ISSN 1735-207X, 2020, vol. 17, no. 8, pp. 2119-2131. Dostupné na: <https://doi.org/10.1007/s13738-020-01919-w>., Registrované v: WOS

5. [1.1] OLAJUYIGBE, Folasade M. - DEMITRI, Nicola - DE ZORZI, Rita - GEREMIA, Silvano. Developing HIV-1 Protease Inhibitors through Stereospecific Reactions in Protein Crystals. In *MOLECULES*. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS

6. [1.1] REZAEIAN, Mojtaba - IZADYAR, Mohammad - HOUSAINDOKHT, Mohammad Reza. Thermal decomposition mechanisms of some amino acid ionic liquids: Molecular approach. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2020, vol. 302, no., pp. Dostupné na: <https://doi.org/10.1016/j.molliq.2020.112505>., Registrované v: WOS

7. [1.1] SABET-SARVESTANI, Hossein - IZADYAR, Mohammad - ESHGHI, Hossein - NOROZI-SHAD, Nazanin. Evaluation and understanding the performances of various derivatives of carbonyl-stabilized phosphonium ylides in CO₂ transformation to cyclic carbonates. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 1, pp. 223-237. Dostupné na: <https://doi.org/10.1039/c9cp05211a>., Registrované v: WOS

ADCA665 KONIGSTEIN, Jozef. Isomerization of trioses in acid solutions catalyzed by molybdate ions. In *Collection of Czechoslovak Chemical Communications*, 1978, vol. 43, p. 1152-1158. ISSN 0010-0765.

Ohlasy:

1. [1.1] GRAINGER, Megan N. C. - MANLEY-HARRIS, Merilyn - LANE, Joseph R. - FIELD, Richard J. Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand manuka honey: Part I Honey systems. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 202, no., pp. 484-491., Registrované v: WOS
2. [1.1] GRAINGER, Megan N. C. - MANLEY-HARRIS, Merilyn - LANE, Joseph R. - FIELD, Richard J. Kinetics of the conversion of dihydroxyacetone to methylglyoxal in New Zealand manuka honey: Part II Model systems. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 202, no., pp. 492-499., Registrované v: WOS

ADCA666 KOÓŠ, Miroslav - MOSHER, H.S. A convenient synthesis of apiose. In *Carbohydrate Research*, 1986, vol. 146, p. 335-341. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(86\)85050-9](https://doi.org/10.1016/0008-6215(86)85050-9)

Ohlasy:

1. [1.1] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 17, pp. 11337-11405., Registrované v: WOS
2. [1.1] KIS, Peter - POTOCKA, Elena - MASTIHUBA, Vladimir - MASTIHUBOVA, Maria. Efficient chemoenzymatic synthesis of 4-nitrophenyl P-Dapiofuranoside and its use in screening of P-D-apiofuranosidases. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 430, no., pp. 48-53., Registrované v: WOS
3. [1.1] PANDA, Amarendra - ISLAM, Sehbanul - SANTRA, Manas Kumar - PAL, Shantanu. Lead tetraacetate mediated one pot oxidative cleavage and acetylation reaction: an approach to apio and homologated apio pyrimidine nucleosides and their anticancer activity. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 100, pp. 82450-82459., Registrované v: WOS

ADCA667 KOÓŠ, Miroslav - MIČOVÁ, Júlia - STEINER, Bohumil - ALFOLDI, Juraj. An efficient and versatile synthesis of apiose and some C-1-aldehyde- and/or 2,3-o-protected derivatives. In *Tetrahedron Letters*, 2002, vol. 43, p. 5405-5406. ISSN 0040-4039.

Ohlasy:

1. [1.1] KIM, Mijin - KANG, Soyeong - RHEE, Young Ho. De Novo Synthesis of Furanose Sugars: Catalytic Asymmetric Synthesis of Apiose and Apiose-Containing Oligosaccharides. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2016, vol. 55, no. 33, pp. 9733-9737., Registrované v: WOS
2. [1.1] KIS, Peter - POTOCKA, Elena - MASTIHUBA, Vladimir - MASTIHUBOVA, Maria. Efficient chemoenzymatic synthesis of 4-nitrophenyl P-Dapiofuranoside and its use in screening of P-D-apiofuranosidases. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 430, no., pp. 48-53., Registrované v: WOS
3. [1.1] PANDA, Amarendra - ISLAM, Sehbanul - SANTRA, Manas

Kumar - PAL, Shantanu. Lead tetraacetate mediated one pot oxidative cleavage and acetylation reaction: an approach to apio and homologated apio pyrimidine nucleosides and their anticancer activity. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 100, pp. 82450-82459., Registrované v: WOS

ADCA668 KOŮŠ, Miroslav - MOSHER, H.S. Isopropylidenation of L-arabinose N,N-dimethylhydrazone. In *Collection of Czechoslovak Chemical Communications*, 1985, vol. 50, p. 1994-1999. ISSN 0010-0765.

Ohlasy:

1. [1.1] FOSTER, Robert W. - TAME, Christopher J. - BUCAR, Dejan-Kresimir - HAILES, Helen C. - SHEPPARD, Tom D. Sustainable Synthesis of Chiral Tetrahydrofurans through the Selective Dehydration of Pentoses. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 45, pp. 15947-15950., Registrované v: WOS

ADCA669 KOŮŠ, Miroslav - STEINER, Bohumil - LANGER, V. - GYEPESOVÁ, Dalma - ĎURÍK, M. Preparation and structure determination of two sugar amino acids via corresponding hydantoin derivatives. In *Carbohydrate Research*, 2000, vol. 328, p. 115-126. (1999: 1.252 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)00099-9](https://doi.org/10.1016/S0008-6215(00)00099-9)

Ohlasy:

1. [1.1] BISELLO, Annalisa - CARDENA, Roberta - ROSSI, Serena - CRISMA, Marco - FORMAGGIO, Fernando - SANTI, Saverio. Hydrogen-Bond-Assisted, Concentration-Dependent Molecular Dimerization of Ferrocenyl Hydantoins. In ORGANOMETALLICS. ISSN 0276-7333, 2017, vol. 36, no. 11, pp. 2190-2197., Registrované v: WOS

ADCA670 KOŮŠ, Miroslav - MOSHER, H.S. α -Amino- α -trifluoromethyl-phenylacetonitrile: A potential reagent for ^{19}F NMR determination of enantiomeric purity of acids. In *Tetrahedron*, 1993, vol. 49, p. 1541-1546. ISSN 0040-4020. Dostupné na: [https://doi.org/10.1016/S0040-4020\(01\)80341-0](https://doi.org/10.1016/S0040-4020(01)80341-0)

Ohlasy:

1. [1.1] KONDO, Yuta - KADOTA, Tetsuya - HIRAZAWA, Yoshinobu - MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Scandium(III) Triflate Catalyzed Direct Synthesis of N-Unprotected Ketimines. In ORGANIC LETTERS. ISSN 1523-7060, 2020, vol. 22, no. 1, pp. 120-125. Dostupné na: <https://doi.org/10.1021/acs.orglett.9b04038>., Registrované v: WOS
2. [1.1] LEHNHERR, Dan - LAM, Yu-hong - NICASTRI, Michael C. - LIU, Jinchu - NEWMAN, Justin A. - REGALADO, Erik L. - DIROCCO, Daniel A. - ROVIS, Tomislav. Electrochemical Synthesis of Hindered Primary and Secondary Amines via Proton-Coupled Electron Transfer. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 1, pp. 468-478. Dostupné na: <https://doi.org/10.1021/jacs.9b10870>., Registrované v: WOS
3. [1.1] MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Direct access to N-unprotected tetrasubstituted propargylamines via direct catalytic alkynylation of N-unprotected trifluoromethyl ketimines. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 47, pp.

6319-6322., Registrované v: WOS

4. [1.1] MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Recent Progress on Catalytic Addition Reactions to N-Unsubstituted Imines. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 12, pp. 6924-6951. Dostupné na: <https://doi.org/10.1021/acscatal.0c01212>., Registrované v: WOS

5. [1.1] SAWA, Masanao - MIYAZAKI, Shotaro - YONESAKI, Ryohei - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Catalytic Enantioselective Decarboxylative Mannich-Type Reaction of N-Unprotected Isatin-Derived Ketimines. In ORGANIC LETTERS. ISSN 1523-7060, 2018, vol. 20, no. 17, pp. 5393-5397., Registrované v: WOS

6. [1.1] SAWA, Masanao - MORISAKI, Kazuhiro - KONDO, Yuta - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Direct Access to N-Unprotected alpha- and/or beta-Tetrasubstituted Amino Acid Esters via Direct Catalytic Mannich-Type Reactions Using N-Unprotected Trifluoromethyl Ketimines. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 67, pp. 17022-17028., Registrované v: WOS

7. [1.1] SUKACH, Volodymyr - MELNYKOV, Serhii - BERTHO, Sylvain - DIACHENKO, Iryna - RETAILLEAU, Pascal - VOVK, Mykhailo - GILLAIZEAU, Isabelle. Access to Unprotected beta-Fluoroalkyl beta-Amino Acids and Their alpha-Hydroxy Derivatives. In ORGANIC LETTERS. ISSN 1523-7060, 2019, vol. 21, no. 7, pp. 2340-2345., Registrované v: WOS

8. [1.1] YONESAKI, Ryohei - KONDO, Yuta - AKKAD, Walaa - SAWA, Masanao - MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. 3-Mono-Substituted BINOL Phosphoric Acids as Effective Organocatalysts in Direct Enantioselective Friedel-Crafts-Type Alkylation of N-Unprotected alpha-Ketiminoester. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 57, pp. 15211-15214., Registrované v: WOS

ADCA671 KORCOVÁ, Jana, Vráblová - MACHOVÁ, Eva - FILIP, Jaroslav - BYSTRICKÝ, Slavomír. Biophysical properties of carboxymethyl derivatives of mannan and dextran. In *Carbohydrate Polymers*, 2015, vol. 134, p. 6-11. (2014: 4.074 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2015.07.008>

Ohlasy:

1. [1.1] GONCHAROVA, N. V. - KHRAPOVA, M. V. - PUPYSHEV, A. B. - KOROLENKO, E. Ts. - NESEAKOVA, Z. - KOROLENKO, T. A. Hypolipidemic Effect of Mannan in Mice with Acute Lipemia Induced by Poloxamer 407. In BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 0007-4888, 2016, vol. 162, no. 1, pp. 18-22., Registrované v: WOS

2. [1.1] CHAKKA, Vara Prasad - ZHOU, Tao. Carboxymethylation of polysaccharides: Synthesis and bioactivities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2425-2431. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.178>., Registrované v: WOS

3. [1.1] KOROLENKO, Tatiana A. - BGATOVA, Nataliya P. - VETVICKA, Vaclav. Glucan and Mannan-Two Peas in a Pod. In

INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 13, pp., Registrované v: WOS

4. [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS

5. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS

6. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

7. [1.1] XIE, Fang - YUAN, Shuzhi - PAN, Hanxu - WANG, Rui - CAO, Jiankang - JIANG, Weibo. Effect of yeast mannan treatments on ripening progress and modification of cell wall polysaccharides in tomato fruit. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 218, no., pp. 509-517., Registrované v: WOS

ADCA672 KORF, Richard P. - LIZOŇ, Pavel. Validation of Nannfeldt's ordinal name Helotiales. In *Mycotaxon : an international journal of research on taxonomy and nomenclature of fungi, including lichens*. - Ithaca : Mycotaxon, 2000, vol. 75, p. 501-502. (2000 - Current Contents). ISSN 0093-4666.

Ohlasy:

1. [1.1] ETAYO, J. - FLAKUS, A. - SUIJA, A. - KUKWA, M. *Macroskyttea parmotrematis* gen. et sp nov (Helotiales, Leotiomycetes, Ascomycota), a new lichenicolous fungus from Bolivia. In *Phytotaxa*, 2015, vol. 224, no. 3, p. 247-257. ISSN 1179-3155., Registrované v: WOS

2. [1.1] HYDE, Kevin D. - DONG, Yang - PHOOKAMSAK, Rungtiwa - JEEWON, Rajesh - BHAT, D. Jayarama - JONES, E. B. Gareth - LIU, Ning-Guo - ABEYWICKRAMA, Pranami D. - MAPOOK, Ausana - WEI, Deping - PERERA, Rekhani H. - MANAWASINGHE, Ishara S. - PEM, Dhandevi - BUNDHUN, Digvijayini - KARUNARATHNA, Anuruddha - EKANAYAKA, Anusha H. - BAO, Dan-Feng - LI, Junfu - SAMARAKOON, Milan C. - CHAIWAN, Napalai - LIN, Chuan-Gen - PHUTTHACHAROEN, Kunthida - ZHANG, Sheng-Nan - SENANAYAKE, Indunil C. - GOONASEKARA, Ishani D. - THAMBUGALA, Kasun M. - PHUKHAMSAKDA, Chayanard - TENNAKOON, Danushka S. - JIANG, Hong-Bo - YANG, Jing - ZENG, Ming - HUANRALUEK, Naruemon - LIU, Jian-Kui (Jack) - WIJESINGHE, Subodini N. - TIAN, Qing - TIBPROMMA, Saowaluck - BRAHMANAGE, Rashika S. - BOONMEE, Saranyaphat - HUANG, Shi-Ke - THIYAGARAJA, Vinodhini - LU, Yong-Zhong - JAYAWARDENA, Ruvishika S. - DONG, Wei - YANG, Er-Fu - SINGH, Sanjay K. - SINGH, Shiv Mohan - RANA, Shiwali - LAD, Sneha S. - ANAND, Garima - DEVADATHA, Bandarupalli - NIRANJAN, M. - SARMA, V. Venkateswara - LIIMATAINEN, Kare - AGUIRRE-HUDSON, Begona -

NISKANEN, Tuula - OVERALL, Andy - ALVARENGA, Renato Lucio Mendes - GIBERTONI, Tatiana Baptista - PFLIEGLER, Walter P. - HORVATH, Eniko - IMRE, Alexandra - ALVES, Amanda Lucia - SANTOS, Ana Carla da Silva - TIAGO, Patricia Vieira - BULGAKOV, Timur S. - WANASINGHE, Dhanushaka N. - BAHKALI, Ali H. - DOILOM, Mingkwan - ELGORBAN, Abdallah M. - MAHARACHCHIKUMBURA, Sajeewa S. N. - RAJESHKUMAR, Kunhiraman C. - HAELEWATERS, Danny - MORTIMER, Peter E. - ZHAO, Qi - LUMYONG, Saisamorn - XU, Jianchu - SHENG, Jun. Fungal diversity notes 1151-1276: taxonomic and phylogenetic contributions on genera and species of fungal taxa. In FUNGAL DIVERSITY. ISSN 1560-2745, 2020, vol. 100, no. 1, pp. 5-277. Dostupné na: <https://doi.org/10.1007/s13225-020-00439-5>, Registrované v: WOS

3. [1.1] QUIJADA, L. - JOHNSTON, P.R. - COOPER, J.A. - PFISTER, D.H. Overview of Phacidiales, including Aotearoamycetes gen. nov. on Nothofagus. In IMA FUNGUS. ISSN 2210-6340, DEC 2018, vol. 9, no. 2, p. 371-382., Registrované v: WOS

ADCA673 KOROLENKO, Tatyana - JOHNSTON, Thomas P. - LYKOV, Alexander P. - SHINTYAPINA, Alexandra B. - KHRAPOVA, Marina V. - GONCHAROVA, Natalya - KOROLENKO, Erik - BGATOVA, Nataliya P. - MACHOVÁ, Eva - NEŠČÁKOVÁ, Zuzana - SAKHNO, Ludmila V. A comparative study of the hypolipidaemic effects of a new polysaccharide, mannan *Candida albicans* serotype A, and atorvastatin in mice with poloxamer 407-induced hyperlipidaemia. In *Journal of Pharmacy and Pharmacology*, 2016, vol. 68, no. 12, p. 1516-1526. (2015: 2.363 - IF, Q2 - JCR, 0.696 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0022-3573.

Ohlasy:

1. [1.1] BARGAGLI, Elena - ROSI, Elisabetta - PISTOLESI, Massimo - LAVORINI, Federico - VOLTOLINI, Luca - ROTTOLI, Paola. Increased Risk of Atherosclerosis in Patients with Sarcoidosis. In *PATHOBIOLOGY*. ISSN 1015-2008, 2017, vol. 84, no. 5, pp. 258-263., Registrované v: WOS
2. [1.1] JIANG, Hang-Hang - ZHANG, Yu-Jing - SUN, Yu-Zhe - QI, Rui-Qun - CHEN, Hong-Duo - GAO, Xing-Hua. Cell wall mannoprotein of *Candida albicans* polarizes macrophages and affects proliferation and apoptosis through activation of the Akt signal pathway. In *INTERNATIONAL IMMUNOPHARMACOLOGY*. ISSN 1567-5769, 2019, vol. 72, no., pp. 308-321., Registrované v: WOS

ADCA674 KOROLENKO, Tatyana A. - JOHNSTON, Thomas P. - MACHOVÁ, Eva** - BGATOVA, Nataliya P. - LYKOV, Alexander P. - GONCHAROVA, Natalya V. - NEŠČÁKOVÁ, Zuzana - SHINTYAPINA, Alexandra B. - MAIBORODIN, Igor V. - KARMATSKIKH, O.L. Hypolipidemic effect of mannans from *C. albicans* serotypes A and B in acute hyperlipidemia in mice. In *International Journal of Biological Macromolecules*, 2018, vol. 107, p. 2385-2394. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.10.111>

Ohlasy:

1. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.

ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

2. [1.1] YUAN, Yiqiong - LIU, Qibing - ZHAO, Fuqiang - CAO, Jun - SHEN, Xuanri - LI, Chuan. Holothuria Leucospilota Polysaccharides Ameliorate Hyperlipidemia in High-Fat Diet-Induced Rats via Short-Chain Fatty Acids

Production and Lipid Metabolism Regulation. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 19, pp., Registrované v: WOS

3. [1.2] ROVKINA, K. I. - KRIVOSHCHEKOV, S. V. - GURIEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Development of methods for obtaining polysaccharides from birch leaves (*Betula Pendula* Roth., *Betula pubescens* Ehrh.). In Khimiya Rastitel'nogo Syr'ya. ISSN 10295151, 2019-01-01, 3, pp. 23-31., Registrované v: SCOPUS

4. [1.2] YANG, Xia - FENG, Ying Shu - TONG, Shan Shan - YU, Jiang Nan - XU, Xi Ming. Study on mechanism and structure-activity relationship of hypolipidemic polysaccharides: a review. In Zhongguo Zhongyao Zazhi. ISSN 10015302, 2018-10-01, 43, 20, pp. 4011-4018., Registrované v: SCOPUS

ADCA675 KOROLENKO, Tatyana A. - PISAREVA, Ekaterina E. - FILYUSHINA, Elena E. - JOHNSTON, Thomas P. - MACHOVÁ, Eva. Serum cystatin C and chitotriosidase in acute P-407 induced dyslipidemia: Can they serve as potential early biomarkers for atherosclerosis? In *Experimental and toxicologic pathology*, 2015, vol. 67, p. 459-466. (2014: 1.860 - IF, Q3 - JCR, 0.785 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0940-2993. Dostupné na: <https://doi.org/10.1016/j.etp.2015.06.003>

Ohlasy:

1. [1.1] BARGAGLI, Elena - ROSI, Elisabetta - PISTOLESI, Massimo - LAVERINI, Federico - VOLTOLINI, Luca - ROTTOLI, Paola. Increased Risk of Atherosclerosis in Patients with Sarcoidosis. In PATHOBIOLOGY. ISSN 1015-2008, 2017, vol. 84, no. 5, pp. 258-263., Registrované v: WOS

2. [1.1] YU, Shihui - ZHANG, Xiaoyu - TAN, Guoxin - TIAN, Lei - LIU, Dandan - LIU, Yaxuan - YANG, Xinggang - PAN, Weisan. A novel pH-induced thermosensitive hydrogel composed of carboxymethyl chitosan and poloxamer cross-linked by glutaraldehyde for ophthalmic drug delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 208-217., Registrované v: WOS

3. [1.2] HU, Hui Ming - ZHU, Yan Chen - ZHU, Qiao Qiao - FENG, Shao - PANG, Min Xia - QIANG, Shi - JIE, Su - CHEN, Su Hong - LV, Gui Yuan. Analysis on animal models of experimental hyperlipidemia. In Zhongguo Zhongyao Zazhi. ISSN 10015302, 2016-10-15, 41, 20, pp. 3709-3714., Registrované v: SCOPUS

ADCA676 KOROLENKO, T.A. - DJANAYEVA, S.J. - FALAMEYEVA, O.V. - WEVERS, R.A. - FIJUSHINA, E.E. - BUZUEVA, I.I. - KALEDIN, V.I. - ŠANDULA, Jozef - NOWICKY, J. Chitotriosidase as a new marker of macrophage stimulation in a tumor model treated with cyclophosphamide and ukrain. In *Drugs Under Experimental and Clinical Research*, 2000, vol. 26, p. 279-283.

Ohlasy:

1. [1.1] SKIVKA, Larysa M. - FEDORCHUK, Olexander G. - SUSAK, Yaroslav M. - SUSAK, Mychailo Y. - MALANCHUK, Oksana M. - RUDYK, Mariia P. - NOWICKY, Yaroslav. W. Physical Activity Interferes with the

Immunomodulatory Effect of the Antineoplastic Drug NSC631570. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2015, vol. 16, no. 1, pp. 49-59., Registrované v: WOS

ADCA677 KOSÍK, Ondřej - FARKAŠ, Vladimír. One-pot fluorescent labeling of xyloglucan oligosaccharides with sulforhodamine. In *Analytical Biochemistry*, 2008, vol.375, p. 232-236. (2007: 3.002 - IF, Q1 - JCR, 1.149 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2007.11.025>

Ohlasy:

1. [1.1] AKHTER, Kazi Farida - MUMIN, Md Abdul - LUI, Edmund M. K. - CHARPENTIER, Paul A. Fabrication of fluorescent labeled ginseng polysaccharide nanoparticles for bioimaging and their immunomodulatory activity on macrophage cell lines. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 254-262., Registrované v: WOS
2. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS
3. [1.1] JUNG, Se-Hui - HA, Kwon-Soo. Protein Arrays for Quantitative Enzymatic Profiling and Serodiagnosis. In BIOCHIP JOURNAL. ISSN 1976-0280, 2015, vol. 9, no. 4, pp. 269-277., Registrované v: WOS
4. [1.1] OLSEN, Stian - STRIBERNY, Bernd - HOLLMANN, Julien - SCHWACKE, Rainer - POPPER, Zoe A. - KRAUSE, Kirsten. Getting ready for host invasion: elevated expression and action of xyloglucan endotransglucosylases/hydrolases in developing haustoria of the holoparasitic angiosperm Cuscuta. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2016, vol. 67, no. 3, pp. 695-708., Registrované v: WOS
5. [1.1] STRATILOVA, Barbora - SESTAK, Sergej - MRAVEC, Jozef - GARAJOVA, Sona - PAKANNOVA, Zuzana - VADINOVA, Kristina - KUCEROVA, Danica - KOZMON, Stanislav - SCHWERDT, Julian G. - SHIRLEY, Neil - STRATILOVA, Eva - HRMOVA, Maria. Another building block in the plant cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. In PLANT JOURNAL. ISSN 0960-7412, 2020, vol. 104, no. 3, pp. 752-767. Dostupné na: <https://doi.org/10.1111/tpj.14964>., Registrované v: WOS

ADCA678 KOSÍK, Ondřej - AUBURN, Richard P. - RUSSEL, Steven - STRATILOVÁ, Eva - GARAJOVÁ, Soňa - HRMOVÁ, Mária - FARKAŠ, Vladimír. Polysaccharide microarrays for high-throughput screening of transglycosylase activities in plant extracts. In *Glycoconjugate journal*, 2010, vol. 27, p. 79-87. (2009: 2.500 - IF, Q3 - JCR, 0.898 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-009-9271-8>

Ohlasy:

1. [1.1] FRANKOVA, Lenka - FRY, Stephen C. A general method for assaying homo- and hetero-transglycanase activities that act on plant cell-wall polysaccharides. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2015, vol. 57, no. 4, pp. 411-428., Registrované v: WOS

2. [1.1] FRANKOVA, Lenka - FRY, Stephen C. Activity and Action of Cell-Wall Transglycanases. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 165-192. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_10., Registrované v: WOS
3. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
4. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované v: WOS
5. [1.1] HUANG, Gangliang - TANG, Qilin - LI, Ping - LI, Min - ZHANG, Xueqin - LIU, Zhangmei - LUO, Deqi - MEI, Xinya. Preparation of Saccharide Microarrays. In CURRENT ORGANIC SYNTHESIS. ISSN 1570-1794, 2015, vol. 12, no. 2, pp. 136-139., Registrované v: WOS
6. [1.1] PALMA, Angelina S. - CHAI, Wengang. Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology. In SYNTHETIC GLYCOMES. ISSN 2055-1975, 2019, vol. 11, no., pp. 421-446., Registrované v: WOS
7. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS
8. [1.1] SIMMONS, Thomas J. - MOHLER, Kyle E. - HOLLAND, Claire - GOUBET, Florence - FRANKOVA, Lenka - HOUSTON, Douglas R. - HUDSON, Andrew D. - MEULEWAETER, Frank - FRY, Stephen C. Hetero-trans--glucanase, an enzyme unique to Equisetum plants, functionalizes cellulose. In PLANT JOURNAL. ISSN 0960-7412, 2015, vol. 83, no. 5, pp. 753-769., Registrované v: WOS
9. [1.1] WEN, Liuqing - EDMUNDS, Garrett - GIBBONS, Christopher - ZHANG, Jiabin - GADI, Madhusudhan Reddy - ZHU, Hailiang - FANG, Junqiang - LIU, Xianwei - KONG, Yun - WANG, Peng George. Toward Automated Enzymatic Synthesis of Oligosaccharides. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8151-8187., Registrované v: WOS
10. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays. In Carbohydrate Chemistry. ISSN 2041353X, 2018-01-01, 43, pp. 159-176., Registrované v: SCOPUS

ADCA679 KOSIKOVA, Bozena - JONIAK, Dusan - SKAMLA, J. Lignin-carbohydrate bonds in beech wood. In *Cellulose Chemistry and Technology*, 1972, vol. 6, p. 579-588.

Ohlasy:

1. [1.1] GIUMMARELLA, Nicola - PU, Yunqiao - RAGAUSKAS, Arthur J. - LAWOKO, Martin. A critical review on the analysis of lignin carbohydrate bonds. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2019, vol. 21, no. 7, pp. 1573-1595., Registrované v: WOS
2. [1.1] OINONEN, Petri - ZHANG, Liming - LAWOKO, Martin - HENRIKSSON, Gunnar. On the formation of lignin polysaccharide networks in Norway spruce. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2015, vol. 111, no., pp. 177-184., Registrované v: WOS

ADCA680 KOSIKOVA, Bozena - EBRINGEROVÁ, Anna. Structural characteristics of the lignin-carbohydrate complex of spruce soda pulp. In *Cellulose Chemistry and Technology*, 1999, vol. 33, p. 445-454.

Ohlasy:

1. [1.1] YANG, Wei - FANG, Munan - XU, Hao - WANG, Hui - WU, Shengji - ZHOU, Jie - ZHU, Shouxin. Interactions between Holocellulose and Lignin during Hydrolysis of Sawdust in Subcritical Water. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2019, vol. 7, no. 12, pp. 10583-10594., Registrované v: WOS
2. [1.1] Zhang, J (Zhang, Jing); Choi, YS (Choi, Yong S.); Yoo, CG (Yoo, Chang G.); Kim: Cellulose-Hemicellulose and Cellulose-Lignin Interactions during Fast Pyrolysis. In: *ACS SUSTAINABLE CHEMISTRY & ENGINEERING* Volume: 3 Issue: 2 Pages: 293-301, Registrované v: WOS

ADCA681 KOSNIK, W. - BOCIAN, W. - CHMIELEWSKI, M. - TVAROŠKA, Igor. DFT calculations of the anomeric and exo-anomeric effect of the hydroperoxy groups. In *Carbohydrate Research*, 2008, vol.343, p. 1463-1472. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2008.03.032>

Ohlasy:

1. [1.1] ROTELLA, Madeline - BEZPALKO, Mark - PIRO, Nicholas - LAZZARA, Nicholas - KASSEL, Scott - ZUBRIS, Deanna - GIULIANO, Robert. Synthesis, X-ray Crystallographic and Computational Analysis of 2,3-Dideoxy-alpha-and beta-D-erythro-Hexopyranosyl Cyanides: Anomeric Effect of the Cyano Group. In *STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL, VOL 1*. ISSN 0097-6156, 2017, vol. 1257, no., pp. 155-170., Registrované v: WOS
2. [1.2] LANGENHAN, Joseph M. - MCLAUGHLIN, Ryan P. - LOSKOT, Steven A. - ROZAL, Leonardo M. - CLAY, Mackenzie S. - ALAIMO, Peter J. Using density functional theory to calculate the anomeric effect in hydroxylamine and hydrazide derivatives of tetrahydropyran. In *Journal of Carbohydrate Chemistry*. ISSN 0732-8303, 2016-02-12, 35, 2, pp. 106-117., Registrované v: SCOPUS

ADCA682 KOSNIK, W. - BOCIAN, W. - KOZERSKI, I. - TVAROŠKA, Igor - CHMIELEWSKI, M. Enantioselective epoxidation of electrophilic olefins by using glycosyl hydroperoxides. In *Chemistry -A European Journal*, 2008, vol.14, p. 6087-6097. (2007: 5.330 - IF, Q1 - JCR, 3.449 - SJR, Q1 - SJR). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.200800051>

Ohlasy:

1. [1.1] KARAMAN, Halide Sedef - KILIC, Hamdullah - SAHIN, Engin. Asymmetric epoxidation of enones using cumyl hydroperoxide and in situ generated zinc complexes of chiral pyrrolidinyl alcohols. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 11, pp. 1626-1632., Registrované v: WOS
2. [1.1] VICTOR, Napoleon John - GANA, Janardhanan - MURALEEDHARAN, Kannothe Manheri. N-Methylpyrrolidone Hydroperoxide/Cs₂CO₃ as an Excellent Reagent System for the Hydroxy-Directed Diastereoselective Epoxidation of Electron-Deficient Olefins. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 42, pp. 14742-14747., Registrované v: WOS
3. [1.2] AI, Bai Ru - CHEN, Xu Ling - DONG, Yu - TANG, Lei - WANG, Ji Yu. Tetrabutylammonium Iodide Catalyzed Epoxidation of Naphthoquinone Derivatives with tertButyl Hydroperoxide as an Oxidant. In Synthesis (Germany). ISSN 00397881, 2017-09-01, 49, 17, pp. 4017-4024., Registrované v: SCOPUS
4. [1.2] Pellissier, H., Lattanzi, A., & Dalpozzo, R. (2017). In Asymmetric synthesis of three-membered rings (Wiley, pp. 1-590)., Registrované v: SCOPUS

ADCA683 KOSSACZKÁ, Zuzana - DRGOŇOVÁ, Jana - PODOBOVÁ, B. - BETINA, V. - FARKAŠ, Vladimír. Accumulation of Golgi-specific mannosyl-transferases in *Candida albicans* grown in the presence of Brefeldin. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 1995, vol. 41, p. 971-977. ISSN 0008-4166. Dostupné na: <https://doi.org/10.1139/m95-135>

Ohlasy:

1. [1.1] GERWIEN, Franziska - ABU SAFYAN - WISGOTT, Stephanie - BRUNKE, Sascha - KASPER, Lydia - HUBE, Bernhard. The Fungal Pathogen *Candida glabrata* Does Not Depend on Surface Ferric Reductases for Iron Acquisition. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] XIE, Jun - WU, Ying-Ying - ZHANG, Tian-Yuan - ZHANG, Meng-Yue - ZHU, Wei-Wei - GULLEN, Elizabeth A. - WANG, Zhao-Jie - CHENG, Yung-Chi - ZHANG, Yi-Xuan. New and bioactive natural products from an endophyte of *Panax notoginseng*. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 60, pp. 38100-38109., Registrované v: WOS

ADCA684 KOSSACZKÁ, Zuzana - BYSTRICKÝ, Slavomír - BRYLA, D.A. - SHILOACH, J. - ROBBINS, J.B. - SZU, S.C. Synthesis and immunological properties of Vi and Di-O-acetyl pectin protein conjugates with adipic acid dihydrazide as the linker. In *Infection and Immunity*, 1997, vol. 65, p. 2088-2093. (1997 - Current Contents). ISSN 0019-9567.

Ohlasy:

1. [1.1] AN, So Jung - SCARIA, Puthupparampil - CHEN, Beth - BARNAFO, Emma - MURATOVA, Olga - ANDERSON, Charles - LAMBERT, Lynn - CHAE, Myung Hwa - YANG, Jae Seung - DUFFY, Patrick E. Development of a bivalent conjugate vaccine candidate against malaria transmission and typhoid fever. In VACCINE. ISSN 0264-410X, 2018, vol. 36, no. 21, pp. 2978-2984., Registrované v: WOS

2. [1.1] GIANNELLI, C. - CAPPELLETTI, E. - DI BENEDETTO, R. - PIPPI, F. - ARCURI, M. - DI CIOCCIO, V. - MARTIN, L. B. - SAUL, A. - MICOLI, F. Determination of free polysaccharide in Vi glycoconjugate vaccine against typhoid fever. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2017, vol. 139, no., pp. 143-147., Registrované v: WOS
3. [1.1] HAQUE, Shabirul - SENGUPTA, Sanjukta - GUPTA, Dinesh - BHAN, Maharaj Kishan - KURNAR, Ramesh - KHAN, Azhar - JAILKHANI, Bansilal. S.Typhi derived OmpC peptide conjugated with Vi-polysaccharide evokes better immune response than free Vi-polysaccharide in mice. In BIOLOGICALS. ISSN 1045-1056, 2019, vol. 62, no., pp. 50-56., Registrované v: WOS
4. [1.1] CHINNASAMI, Balaji - SADASIVAM, Kanimozhi - VIVEKANANDHAN, Aravindhan - ARUNACHALAM, Prema - PASUPATHY, Sekar. A Study on Longevity of Immune Response after Vaccination with Salmonella Typhi Vi Conjugate Vaccine (Pedatyph™) in Children. In JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH. ISSN 2249-782X, 2015, vol. 9, no. 5, pp. SC1-SC3., Registrované v: WOS
5. [1.1] JONES, Christopher - AN, So Jung - YOON, Yeon Kyung - KOTHARI, Sudeep - SAHASTRABUDDHE, Sushant - CARBIS, Rodney. Spectroscopic characterisation of a series of Salmonella Typhi Vi-diphtheria toxoid glycoconjugate antigens differing in polysaccharide-protein ratio. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2020, vol. 181, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2020.113100>., Registrované v: WOS
6. [1.1] KHATUN, Farjana - STEPHENSON, Rachel J. - TOTH, Istvan. An Overview of Structural Features of Antibacterial Glycoconjugate Vaccines That Influence Their Immunogenicity. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 18, pp. 4233-4254., Registrované v: WOS
7. [1.1] LOCKYER, Kay - GAO, Fang - FRANCIS, Robert J. - EASTWOOD, David - KHATRI, Bhagwati - STEBBINGS, Richard - DERRICK, Jeremy P. - BOLGIANO, Barbara. Higher mass meningococcal group C-tetanus toxoid vaccines conjugated with carbodiimide correlate with greater immunogenicity. In VACCINE. ISSN 0264-410X, 2020, vol. 38, no. 13, pp. 2859-2869. Dostupné na: <https://doi.org/10.1016/j.vaccine.2020.02.012>., Registrované v: WOS
8. [1.1] MISHRA, Ravi P. N. - YADAV, Ravi S. P. - JONES, Christopher - NOCADELLO, Salvatore - MINASOV, George - SHUVALOVA, Ludmilla A. - ANDERSON, Wayne F. - GOEL, Akshay. Structural and immunological characterization of E. coli derived recombinant CRM197 protein used as carrier in conjugate vaccines. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2018, vol. 38, no., pp., Registrované v: WOS
9. [1.1] ROSALES-MENDOZA, Sergio - SALAZAR-GONZALEZ, Jorge A. - DECKER, Eva L. - RESKI, Ralf. Implications of plant glycans in the development of innovative vaccines. In EXPERT REVIEW OF VACCINES. ISSN 1476-0584, 2016, vol. 15, no. 7, pp. 915-925., Registrované v: WOS
10. [1.1] TRITAMA, Erman - RIANI, Catur - RUDIANSYAH, Indra - HIDAYAT, Arip - KHARISNAENI, Siti Azizah - RETNONINGRUM, Debbie Sofie. Evaluation of alum-based adjuvant on the immunogenicity of salmonella

enterica serovar typhi conjugates vaccines. In HUMAN VACCINES & IMMUNOTHERAPEUTICS. ISSN 2164-5515, 2018, vol. 14, no. 6, pp. 1524-1529., Registrované v: WOS

11. [1.1] VASHISHTHA, Vipin M. - KALRA, Ajay. The need & the issues related to new-generation typhoid conjugate vaccines in India. In INDIAN JOURNAL OF MEDICAL RESEARCH. ISSN 0971-5916, 2020, vol. 151, no. 1, pp. 22-34. Dostupné na: https://doi.org/10.4103/ijmr.IJMR_1890_17., Registrované v: WOS

12. [1.2] MULARD, Laurence A. Bacterial polysaccharides as major surface antigens: Interest in O-acetyl substitutions. In Carbohydrate Chemistry. ISSN 2041353X, 2018-01-01, 43, pp. 71-103., Registrované v: SCOPUS

ADCA685 KOŠÍK, M. - REISER, V. - DOMANSKÝ, R. Pyrolysis of beech wood at low temperatures. VIII. Conditions for the formation of furfural in the course of pyrolysis. In *Holzforschung und Holzverwertung*, 1969, vol. 21, p. 38-40.

Ohlasy:

1. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main components of *Helianthus annuus* stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS

2. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main components of *Helianthus annuus* stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS

ADCA686 KOŠÍK, M. - HERAIN, J. - DOMANSKÝ, R. Pyrolysis of beech wood and its components at low temperatures. IV. Basic data of the formation of gaseous products. In *Holzforschung und Holzverwertung*, 1968, vol. 20., p. 56-62.

Ohlasy:

1. [1.1] KUBOVSKY, Ivan - KACIK, Frantisek - VELKOVA, Veronika. The Effects of CO₂ Laser Irradiation on Color and Major Chemical Component Changes in Hardwoods. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 2515-2529., Registrované v: WOS

2. [1.1] WANG, Zhe - SUN, Bailing - LIU, Junliang. INVESTIGATION OF VOLATILE PRODUCTS RELEASED DURING VACUUM HEAT TREATMENT OF LARCH WOOD. In WOOD RESEARCH. ISSN 1336-4561, 2017, vol. 62, no. 5, pp. 773-782., Registrované v: WOS

3. [1.1] WANG, Zhe - SUN, Bailing - LIU, Junliang. INVESTIGATION OF VOLATILE PRODUCTS RELEASED DURING VACUUM HEAT TREATMENT OF LARCH WOOD. In WOOD RESEARCH. ISSN 1336-4561, 2017, vol. 62, no. 5, pp. 773-782., Registrované v: WOS

ADCA687 KOŠÍK, M. - REISER, V. - KOVÁČ, Pavol. Thermal decomposition of model compounds related to branched 4-O-methylglucuronoxylans. In *Carbohydrate Research*, 1979, vol. 70, p. 199-207. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)87100-1](https://doi.org/10.1016/S0008-6215(00)87100-1)

Ohlasy:

1. [1.2] Wang, S., & Luo, Z. (2017). In Pyrolysis of biomass (Walter de Gruyter, pp. 1-255), Registrované v: SCOPUS

ADCA688 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena - LÁBAJ, Juraj. Affinity of lignin preparations towards genotoxic compounds. Juraj Lábaj. In *BioResources*, 2009, vol.4, no.1, pp.72-79. (2008: 0.368 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1930-2126.

Ohlasy:

1. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

ADCA689 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena - KAČÍK, F. Biodegradability of extractives in sound and biologically decayed beech by various yeast species. In *Wood Research*, 2008, vol.53, p. 9-16. (2007: 0.148 - IF, Q4 - JCR, 0.244 - SJR, Q2 - SJR). ISSN 1336-4561.

Ohlasy:

1. [1.1] VEK, Viljem - OVEN, Primož - POLJANSEK, Ida. Review on Lipophilic and Hydrophilic Extractives in Tissues of Common Beech. In *DRVNA INDUSTRIJA*. ISSN 0012-6772, 2016, vol. 67, no. 1, pp. 85-96., Registrované v: WOS
2. [1.1] YALCIN, Mesut - DOGAN, Hasan Huseyin - AKCAY, Caglar. Identification of wood-decay fungi and assessment of damage in log depots of Western Black Sea Region (Turkey). In *FOREST PATHOLOGY*. ISSN 1437-4781, 2019, vol. 49, no. 2, pp., Registrované v: WOS
3. [1.2] VEK, Viljem - OVEN, Primož - POLJANŠEK, Ida - TERS, Thomas. Contribution to understanding the occurrence of extractives in red heart of beech. In *BioResources*, 2015-01-01, 10, 1, pp. 970-985., Registrované v: SCOPUS

ADCA690 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena. Biotransformation of lignin polymers derived from beech wood pulping by *Sporobolomyces roseus* isolated from leafy material. In *Biotechnology Letters*, 2004, vol. 26, no. 6, p. 517-519. (2003: 0.778 - IF, Q3 - JCR, 0.441 - SJR, Q2 - SJR). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1023/B:BILE.0000019560.88769.f4>

Ohlasy:

1. [1.1] PIZZOLANTE, Graziano - DURANTE, Miriana - RIZZO, Daniela - DI SALVO, Marco - TREDICI, Salvatore Maurizio - TUFARIELLO, Maria - DE PAOLIS, Angelo - TALA, Adelfia - MITA, Giovanni - ALIFANO, Pietro - DE BENEDETTO, Giuseppe Egidio. Characterization of two *Pantoea* strains isolated from extra-virgin olive oil. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA691 KOŠÍKOVÁ, Božena - ĎURIŠ, M. - DEMIANOVÁ, V. Conversion of lignin biopolymer into surface-active derivatives. In *European Polymer Journal*, 2000, vol.

36, p. 1209-1212. (1999: 0.720 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0014-3057.

Ohlasy:

1. [1.1] GOLISZEK, Marta - WIACEK, Agnieszka Ewa - WAWRZKIEWICZ, Monika - SEVASTYANOVA, Olena - PODKOSCIELNA, Beata. The impact of lignin addition on the properties of hybrid microspheres based on trimethoxyvinylsilane and divinylbenzene. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2019, vol. 120, no., pp., Registrované v: WOS
2. [1.1] CHEN, Shuyan - LIU, Hongjuan - SUN, Hong - YAN, Xiang - WANG, Gehua - ZHOU, Yujie - ZHANG, Jianan. Synthesis and physiochemical performance evaluation of novel sulphobetaine zwitterionic surfactants from lignin for enhanced oil recovery. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2018, vol. 249, no., pp. 73-82., Registrované v: WOS
3. [1.1] CHEN, Shuyan - SHEN, Shicheng - YAN, Xiang - MI, Jie - WANG, Gehua - ZHANG, Jianan - ZHOU, Yujie. Synthesis of Surfactants from Alkali Lignin for Enhanced Oil Recovery. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2016, vol. 37, no. 11, pp. 1574-1580., Registrované v: WOS
4. [1.1] KONDURI, Mohan K. R. - FATEHI, Pedram. Synthesis and characterization of carboxymethylated xylan and its application as a dispersant. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 26-35., Registrované v: WOS
5. [1.1] LIU, Zuguang - LU, Xiang - AN, Lanzhi - XU, Chunqin. A Novel Cationic Lignin-amine Emulsifier with High Performance Reinforced via Phenolation and Mannich Reactions. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 3, pp. 6438-6451., Registrované v: WOS
6. [1.1] LI, Shuai - XIANG, Wenchao - JARVINEN, Marjo - LAPPALAINEN, Timo - SALMINEN, Kristian - ROJAS, Orlando J. Interfacial Stabilization of Fiber-Laden Foams with Carboxymethylated Lignin toward Strong Nonwoven Networks. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 30, pp. 19827-19835., Registrované v: WOS
7. [1.1] SIPPONEN, Mika Henrikki - SMYTH, Matthew - LESKINEN, Timo - JOHANSSON, Leena-Sisko - OSTERBERG, Monika. All-lignin approach to prepare cationic colloidal lignin particles: stabilization of durable Pickering emulsions. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5831-5840., Registrované v: WOS
8. [1.1] SUN, Hong - LIU, Qiang - CHEN, Shuyan - YAN, Xiang - DAI, Lingmei - ZHOU, Yujie - ZHANG, Jianan. Study on synthesis and performance of lignin polyether sulfonate surfactants for enhanced oil recovery. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2017, vol. 38, no. 8, pp. 1124-1128., Registrované v: WOS
9. [1.1] SUN, Hong - LIU, Qiang - CHEN, Shuyan - YAN, Xiang - DAI, Lingmei - ZHOU, Yujie - ZHANG, Jianan. Study on the synthesis and performance of lignin polyether sulfonate surfactants for enhanced oil recovery. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2017, vol. 38, no. 9, pp. 1355-1359., Registrované v: WOS
10. [1.1] TANJUNG, Faisal Amri - HUSSEINSYAH, Salmah - HUSSIN, Kamarudin - HASSAN, Azman. Mechanical and thermal properties of organosolv lignin/sodium dodecyl sulphate binary agent-treated

polypropylene/chitosan composites. In POLYMER BULLETIN. ISSN 0170-0839, 2016, vol. 73, no. 5, pp. 1427-1445., Registrované v: WOS

11. [1.1] WANG, Yingying - WANG, Xiaohong - DING, Yongmei - ZHOU, Zilong - HAO, Chen - ZHOU, Saisai. Novel sodium lignosulphonate assisted synthesis of well dispersed Fe₃O₄ microspheres for efficient adsorption of copper (II). In POWDER TECHNOLOGY. ISSN 0032-5910, 2018, vol. 325, no., pp. 597-605., Registrované v: WOS

12. [1.2] HUANG, Jin - FU, Shiyu - GAN, Lin. Lignin chemistry and applications. In Lignin Chemistry and Applications, 2019-01-31, pp. 1-276., Registrované v: SCOPUS

ADCA692 KOŠÍKOVÁ, Božena - MIKLEŠOVÁ, K - DEMIANOVA, V. Characteristics of free radicals in composite lignin polypropylene films studied by the EPR method. In *European Polymer Journal*, 1993, vol. 29, p. 1495-1497. (1992: 0.834 - IF, Current Contents - CCC). (1993 - Current Contents). ISSN 0014-3057. Dostupné na: [https://doi.org/10.1016/0014-3057\(93\)90065-N](https://doi.org/10.1016/0014-3057(93)90065-N)

Ohlasy:

1. [1.1] AGUIE-BEGHIN, Veronique - FOULON, Laurence - SOTO, Paola - CRONIER, David - CORTI, Elena - LEGEE, Frederic - CEZARD, Laurent - CHABBERT, Brigitte - MAILLARD, Marie-Noelle - HUIJGEN, Wouter J. J. - BAUMBERGER, Stephanie. Use of Food and Packaging Model Matrices to Investigate the Antioxidant Properties of Biorefinery Grass Lignins. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 45, pp. 10022-10031., Registrované v: WOS
2. [1.1] DAS, Oisik - SARMAH, Ajit K. - ZUJOVIC, Zoran - BHATTACHARYYA, Debes. Characterisation of waste derived biochar added biocomposites: chemical and thermal modifications. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2016, vol. 550, no., pp. 133-142., Registrované v: WOS
3. [1.1] PATIL, Shradha V. - ARGYROPOULOS, Dimitris S. Stable Organic Radicals in Lignin: A Review. In CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 17, pp. 3284-3303., Registrované v: WOS
4. [1.1] SHIKINAKA, Kazuhiro - NAKAMURA, Masaya - NAVARRO, Ronald R. - OTSUKAR, Yuichiro. Plant-Based Antioxidant Nanoparticles without Biological Toxicity. In CHEMISTRYOPEN. ISSN 2191-1363, 2018, vol. 7, no. 9, pp. 709-712., Registrované v: WOS
5. [1.1] YEO, Jun-Seok - SEONG, Dong-Wook - HWANG, Seok-Ho. Chemical surface modification of lignin particle and its application as filler in the polypropylene composites. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2015, vol. 31, no., pp. 80-85., Registrované v: WOS
6. [1.2] VASILE, C. - DARIE-NIȚĂ, R. N. - PĂRPĂRIȚĂ, E. Performance of biomass filled polyolefin composites. In Biocomposites: Design and Mechanical Performance, 2015-08-26, pp. 257-301., Registrované v: SCOPUS

ADCA693 KOŠÍKOVÁ, Božena - HRICOVÍNI, Miloš - COSENTINO, C. Interaction of lignin and polysaccharides in beech wood (*Fagus sylvatica*) during drying processes. In *Wood Science and Technology*, 1999, vol. 33, p. 373-380.

Ohlasy:

1. [1.1] ANDERSONE, Ingeborga - DOBELE, Galina - ANDERSONS, Bruno - KURNOSOVA, Nina - KUKA, Edgars - VOLPERTS, Aleksandrs - GRININS, Juris. A study of thermo-hydro-treated (THT) birch wood by chemical analysis and Py-GC/MS. In HOLZFORSCHUNG. ISSN 0018-3830, 2019, vol. 73, no. 7, pp. 653-661., Registrované v: WOS
2. [1.1] JAVED, Muhammad Asadullah - KEKKONEN, Paivi M. - AHOLA, Susanna - TELKKI, Ville-Veikko. Magnetic resonance imaging study of water absorption in thermally modified pine wood. In HOLZFORSCHUNG. ISSN 0018-3830, 2015, vol. 69, no. 7, pp. 899-907., Registrované v: WOS
3. [1.1] KONDRATYEVA, Ekaterina - SAFIULLIN, Kajum R. - MOTYGULLIN, Ildar - KLOCHKOV, Alexander - TAGIROV, Murat - REITA, Valerie. Thermal modification of wood and a complex study of its properties by magnetic resonance and other methods. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 5, pp. 895-916., Registrované v: WOS
4. [1.1] NISHIDA, Masakazu - TANAKA, Tomoko - MIKI, Tsunehisa - ITO, Takafumi - KANAYAMA, Kozo. Instrumental analyses of nanostructures and interactions with bound water of superheated steam treated plant materials. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 114, no., pp. 1-13., Registrované v: WOS
5. [1.1] STRAZE, Ales - FAJDIGA, Gorazd - PERVAN, Stjepan - GORISEK, Zeljko. Hygro-mechanical behavior of thermally treated beech subjected to compression loads. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, 2016, vol. 113, no., pp. 28-33., Registrované v: WOS
6. [1.1] TIMAR, Maria Cristina - VARODI, Anca - HACIBEKTASOGLU, Murat - CAMPEAN, Mihaela. Color and FTIR Analysis of Chemical Changes in Beech Wood (*Fagus sylvatica* L.) after Light Steaming and Heat Treatment in Two Different Environments. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8325-8343., Registrované v: WOS
7. [1.1] ZHONG, Yong - REN, Hai-Qing - JIANG, Ze-Hui. Effects of Temperature on the Compressive Strength Parallel to the Grain of Bamboo Scrimbe. In MATERIALS. ISSN 1996-1944, 2016, vol. 9, no. 6, pp., Registrované v: WOS
8. [1.2] BOONSTRA, Michael. Dimensional Stabilization of Wood and Wood Composites. In Lignocellulosic Fibers and Wood Handbook: Renewable Materials for Today's Environment, 2016-05-17, pp. 629-655., Registrované v: SCOPUS

ADCA694 KOŠÍKOVÁ, Božena - ZÁKUTNÁ, L. - JONIAK, D. Investigation of the lignin-saccharide complex by electron microscopy. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1978, vol. 32, pp. 15-18. ISSN 0018-3830.

Ohlasy:

1. [1.1] GLASSER, Wolfgang G. - LOOS, Robert - COX, Blair - CAO, Nhiem. Melt-blown compostable polyester films with lignin. In TAPPI JOURNAL. ISSN 0734-1415, 2017, vol. 16, no. 3, pp. 111-121., Registrované v: WOS
2. [1.1] GLASSER, Wolfgang G. About Making Lignin Great

Again-Some Lessons From the Past. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2019, vol. 7, no., pp., Registrované v: WOS

3. [1.1] TIAN, Xiaofei - FANG, Zhen - SMITH, Richard L. - WU, Zhenqiang - LIU, Mingyou. Properties, Chemical Characteristics and Application of Lignin and Its Derivatives. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 3-33., Registrované v: WOS

ADCA695 KOŠÍKOVÁ, Božena - LÁBAJ, J. - GREGOROVÁ, Adriana -

SLAMENŇOVÁ, D. Lignin antioxidants for preventing oxidation damage of DNA and for stabilizing polymeric components. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 2006, vol. 60, pp. 166-170. (2005: 1.203 - IF, Q1 - JCR, 0.991 - SJR, Q1 - SJR). ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/HF.2006.027>

Ohlasy:

1. [1.1] AMINZADEH, Selda - LAUBERTS, Maris - DOBELE, Galina - PONOMARENKO, Jevgenija - MATTSSON, Tuve - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena. Membrane filtration of kraft lignin: Structural characteristics and antioxidant activity of the low-molecular-weight fraction. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 112, no., pp. 200-209., Registrované v: WOS

2. [1.1] CHEN, Kai - LEI, Lei - QIAN, Yong - YANG, Dongjie - QIU, Xueqing. Development of anti-photo and anti-thermal high internal phase emulsions stabilized by biomass lignin as a nutraceutical delivery system. In FOOD & FUNCTION. ISSN 2042-6496, 2019, vol. 10, no. 1, pp. 355-365., Registrované v: WOS

3. [1.1] LAUBERTS, Maris - SEVASTYANOVA, Olena - PONOMARENKO, Jevgenija - DIZHBITE, Tatjana - DOBELE, Galina - VOLPERTS, Alexandr - LAUBERTE, Liga - TELYSHEVA, Galina. Fractionation of technical lignin with ionic liquids as a method for improving purity and antioxidant activity. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 95, no., pp. 512-520., Registrované v: WOS

4. [1.1] LIU, Di - LI, Ying - QIAN, Yong - XIAO, Yang - DU, Shengjun - QIU, Xueqing. Synergistic Antioxidant Performance of Lignin and Quercetin Mixtures. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 9, pp. 8424-8428., Registrované v: WOS

5. [1.1] LI, Hao - DENG, Yonghong - WU, Haisong - REN, Yuan - QIU, Xueqing - ZHENG, Dafeng - LI, ChunLi. Self-assembly of kraft lignin into nanospheres in dioxane-water mixtures. In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 8, pp. 725-731., Registrované v: WOS

6. [1.1] MONTEIL-RIVERA, Fanny - PAQUET, Louise. Solvent-free catalyst-free microwave-assisted acylation of lignin. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 65, no., pp. 446-453., Registrované v: WOS

7. [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHA, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS

8. [1.1] PONOMARENKO, Jevgenija - DIZHBITE, Tatiana - LAUBERTS, Maris - VOLPERTS, Aleksandrs - DOBELE, Galina - TELYSHEVA, Galina. Analytical pyrolysis A tool for revealing of lignin structure-antioxidant activity relationship. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2015, vol. 113, no., pp. 360-369., Registrované v: WOS
9. [1.1] SPIRIDON, Iuliana. BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS OF LIGNIN AND ITS DERIVATIVES: A MINI-REVIEW. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2018, vol. 52, no. 7-8, pp. 543-550., Registrované v: WOS
10. [1.1] TAN, Shanyuan - LIU, Di - QIAN, Yong - WANG, Jingyu - HUANG, Jinhao - YI, Conghua - QIU, Xueqing - QIN, Yanlin. Towards better UV-blocking and antioxidant performance of varnish via additives based on lignin and its colloids. In HOLZFORSCHUNG. ISSN 0018-3830, 2019, vol. 73, no. 5, pp. 485-491., Registrované v: WOS
11. [1.1] WANG, Yen-Jen - LARSSON, Mikael - HUANG, Wei-Ting - CHIOU, Shih-Hwa - NICHOLLS, Stephen J. - CHAO, Jui-I - LIU, Dean-Mo. The use of polymer-based nanoparticles and nanostructured materials in treatment and diagnosis of cardiovascular diseases: Recent advances and emerging designs. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2016, vol. 57, no., pp. 153-178., Registrované v: WOS

ADCA696 KOŠÍKOVÁ, Božena - LÁBAJ, Juraj. Lignin-stimulated protection of polypropylene films and DNA in cells of mice against oxidation damage. In *BioResources*, 2009, vol. 4, no. 2, p. 805-815. (2008: 0.368 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1930-2126.

Ohlasy:

1. [1.1] ANTCZAK, Andrzej - RADOMSKI, Andrzej - DROZDZEK, Michal - ZAWADZKI, Janusz - ZIELENKIEWICZ, Tomasz. THERMAL AGEING OF CELLULOSE WITH NATURAL AND SYNTHETIC ANTIOXIDANTS UNDER VARIOUS CONDITIONS. In DREWNO. ISSN 1644-3985, 2016, vol. 59, no. 196, pp. 139-152., Registrované v: WOS
2. [1.1] JAIRAM, Suguna - BUCKLIN, Ray - CORRELL, Melanie - SAKTHIVEL, Tamil Selvan - SEAL, Sudipta - TRUETT, John - TONG, Zhaohui. UV resistance of polystyrene co-butyl acrylate (PSBA) encapsulated lignin-saponite nanohybrid composite film. In MATERIALS & DESIGN. ISSN 0264-1275, 2016, vol. 90, no., pp. 151-156., Registrované v: WOS
3. [1.1] KLEIN, Stephanie Elisabeth - ALZAGAMEEM, Abba - RUMPF, Jessica - KORTE, Imke - KREYENSCHMIDT, Judith - SCHULZE, Margit. Antimicrobial Activity of Lignin-Derived Polyurethane Coatings Prepared from Unmodified and Demethylated Lignins. In COATINGS, 2019, vol. 9, no. 8, pp., Registrované v: WOS
4. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
5. [1.1] PICCININO, Davide - CAPECCHI, Eliana - BOTTA, Lorenzo -

BIZZARRI, Bruno Mattia - BOLLELLA, Paolo - ANTIOCHIA, Riccarda - SALADINO, Raffaele. Layer-by-Layer Preparation of Microcapsules and Nanocapsules of Mixed Polyphenols with High Antioxidant and UV-Shielding Properties. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 9, pp. 3883-3893., Registrované v: WOS

6. [1.1] WITZLER, Markus - ALZAGAMEEM, Abba - BERGS, Michel - EL KHALDI-HANSEN, Basma - KLEIN, Stephanie E. - HIELSCHER, Dorothee - KAMM, Birgit - KREYENSCHMIDT, Judith - TOBIASCH, Edda - SCHULZE, Margit. Lignin-Derived Biomaterials for Drug Release and Tissue Engineering. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 8, pp., Registrované v: WOS

ADCA697 KOŠÍKOVÁ, Božena. Morphological and chemical characteristics of stem and knot poplar wood. In *Wood Research : Vol.54, no.3 (2009), p.117-122*. ISSN 1336-4561.

Ohlasy:

1. [1.1] GALLINA, Gianluca - CABEZA, Alvaro - GRENMAN, Henrik - BIASI, Pierdomenico - GARCIA-SERNA, Juan - SALMI, Tapio. Hemicellulose extraction by hot pressurized water pretreatment at 160 degrees C for 10 different woods: Yield and molecular weight. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2018, vol. 133, no., pp. 716-725., Registrované v: WOS

2. [1.1] VIEIRA ROCHA, Maria Fernanda - COSTA, Livia Ribeiro - COSTA, Luciano Junqueira - CAXITO DE ARAUJO, Ana Clara - DIAS SOARES, Bruno Charles - GHERARDI HEIN, Paulo Ricardo. Wood Knots Influence the Modulus of Elasticity and Resistance to Compression. In FLORESTA E AMBIENTE. ISSN 2179-8087, 2018, vol. 25, no. 4, pp., Registrované v: WOS

ADCA698 KOŠÍKOVÁ, Božena - JONIAK, Dusan - KOSÁKOVÁ, Ľ.. On the properties of benzyl ether bonds in the lignin-saccharidic complex isolated from spruce. In *Holzforschung*, 1979, vol. 33, p. 11-14. ISSN 0018-3830. *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1979, vol. 33, p. 11-14. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1979.33.1.11>

Ohlasy:

1. [1.1] GIUMMARELLA, Nicola - PU, Yunqiao - RAGAUSKAS, Arthur J. - LAWOKO, Martin. A critical review on the analysis of lignin carbohydrate bonds. In GREEN CHEMISTRY. ISSN 1463-9262, 2019, vol. 21, no. 7, pp. 1573-1595., Registrované v: WOS

2. [1.1] HENRIKSSON, Gunnar. What are the biological functions of lignin and its complexation with carbohydrates? In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2017, vol. 32, no. 4, pp. 527-541., Registrované v: WOS

3. [1.1] MARTINEZ, Patricia Murciano - PUNT, Arjen M. - KABEL, Mirjam A. - GRUPPEN, Harry. Deconstruction of lignin linked p-coumarates, ferulates and xylan by NaOH enhances the enzymatic conversion of glucan. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 216, no., pp. 44-51., Registrované v: WOS

4. [1.1] MONOT, Claire - CHIRAT, Christine - EVANGELISTA,

Brieuc - BROCHIER-SALON, Marie-Christine. Characterisation of lignin and lignin-carbohydrate complexes (LCCs) in prehydrolysed wood chips. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2017, vol. 71, no. 3, pp. 199-205., Registrované v: WOS

5. [1.1] NISHIMURA, Hiroshi - KAMIYA, Akihiro - NAGATA, Takashi - KATAHIRA, Masato - WATANABE, Takashi. Direct evidence for alpha ether linkage between lignin and carbohydrates in wood cell walls. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

6. [1.1] TARASOV, Dmitry - LEITCH, Mathew - FATEHI, Pedram. Lignin-carbohydrate complexes: properties, applications, analyses, and methods of extraction: a review. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

7. [1.1] TARASOV, Dmitry - LEITCH, Mathew - FATEHI, Pedram. Chemical and thermal properties of precipitates made from hydrolysate of spruce wood chips. In *WOOD SCIENCE AND TECHNOLOGY*. ISSN 0043-7719, 2019, vol. 53, no. 4, pp. 889-909., Registrované v: WOS

8. [1.1] ZENG, Yining - HIMMEL, Michael E. - DING, Shi-You. Visualizing chemical functionality in plant cell walls. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

9. [1.2] LAI, Yuan Zong. Reactivity and accessibility of cellulose, hemicelluloses, and lignins. In *Chemical Modification of Lignocellulosic Materials*, 2017-01-01, pp. 35-95., Registrované v: SCOPUS

10. [1.2] SINGH, Raj - UPADHYAY, Sushil Kumar - RANI, Anju - KUMAR, Permod - KUMAR, Amit - SINGH, Chhaya. Lignin biodegradation in nature and significance. In *Vegetos*. ISSN 09704078, 2018-12-01, 31, 4, pp. 39-44., Registrované v: SCOPUS

ADCA699 KOŠÍKOVÁ, Božena - SLAMENŇOVÁ, Darina - MIKULÁŠOVÁ, M. - HORVÁTHOVÁ, Eva - LÁBAJ, Juraj. Reduction of carcinogenesis by bio-based lignin derivatives. In *Biomass and Bioenergy*, 2002, vol. 23, no. 2, p. 153-159. ISSN 0961-9534. Dostupné na: [https://doi.org/10.1016/S0961-9534\(02\)00035-1](https://doi.org/10.1016/S0961-9534(02)00035-1)
[https://doi.org/10.1016/S0961-9534\(02\)00035-1](https://doi.org/10.1016/S0961-9534(02)00035-1)

Ohlasy:

1. [1.1] CAPUANO, Edoardo. The behavior of dietary fiber in the gastrointestinal tract determines its physiological effect. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 16, pp. 3543-3564., Registrované v: WOS

2. [1.1] LI, Yan - LI, Jia - ZHAO, Hua. The Preparation of Chitosan from Corncob Hydrolyzate by *Actinomucor elegans*. In *ADVANCES IN APPLIED BIOTECHNOLOGY*. ISSN 1876-1100, 2018, vol. 444, no., pp. 653-662., Registrované v: WOS

3. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

4. [1.1] QAZI, Sohail S. - LI, Dongbing - BRIENS, Cedric - BERRUTI, Franco - ABOU-ZAID, Mamdouh M. Antioxidant Activity of the Lignins

Derived from Fluidized-Bed Fast Pyrolysis. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS

5. [1.1] YANG, Yongxing - LV, Guangqiang - GUO, Wei - ZHANG, Limin. Synthesis of mesoporous silica-included heteropolyacids materials and the utilization for the alkylation of phenol with cyclohexene. In MICROPOROUS AND MESOPOROUS MATERIALS. ISSN 1387-1811, 2018, vol. 261, no., pp. 214-219., Registrované v: WOS

6. [1.2] GONG, Weihua - XIANG, Zhuoya - YE, Fayin - ZHAO, Guohua. Composition and structure of an antioxidant acetic acid lignin isolated from shoot shell of bamboo (*Dendrocalamus Latiforus*). In Industrial Crops and Products. ISSN 09266690, 2016-11-30, 91, pp. 340-349., Registrované v: SCOPUS

7. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADCA700 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana - OSVALD, A. - KRAJČOVIČOVÁ, J. Role of lignin filler in stabilization of natural rubber-based composites. In *Journal of Applied Polymer Science*, 2007, vol. 103, p. 1226-1231. (2006: 1.306 - IF, Q2 - JCR, 0.783 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.24530>

Ohlasy:

1. [1.1] AHVAZI, Behzad - CLOUTIER, Eric - WOJCIECHOWICZ, Olivia - TRI-DUNG NGO. Lignin Profiling: A Guide for Selecting Appropriate Lignins as Precursors in Biomaterials Development. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5090-5105., Registrované v: WOS

2. [1.1] AINI, Nor Anizah Mohamad - OTHMAN, Nadras - HUSSIN, M. Hazwan - SAHAKARO, Kannika - HAYEEMASAE, Nabil. Hydroxymethylation-Modified Lignin and Its Effectiveness as a Filler in Rubber Composites. In PROCESSES, 2019, vol. 7, no. 5, pp., Registrované v: WOS

3. [1.1] BARANA, Davide - ALI, Syed Danish - SALANTI, Anika - ORLANDI, Marco - CASTELLANI, Luca - HANEL, Thomas - ZOIA, Luca. Influence of Lignin Features on Thermal Stability and Mechanical Properties of Natural Rubber Compounds. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 10, pp. 5258-5267., Registrované v: WOS

4. [1.1] BHADRA, Sambhu - MOHAN, Nitin - NAIR, Sujith. Suitability of different biomaterials for the application in tire. In SN APPLIED SCIENCES. ISSN 2523-3963, 2019, vol. 1, no. 12, pp., Registrované v: WOS

5. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Piroska - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of interactions in polypropylene/lignosulfonate blends. In MATERIALS & DESIGN. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v: WOS

6. [1.1] DATTA, Janusz - PARCHETA, Paulina. A comparative study on selective properties of Kraft lignin-natural rubber composites containing different plasticizers. In IRANIAN POLYMER JOURNAL. ISSN 1026-1265,

2017, vol. 26, no. 6, pp. 453-466., Registrované v: WOS

7. [1.1] DATTA, Janusz - PARCHETA, Paulina - SUROWKA, Joanna. Softwood-lignin/natural rubber composites containing novel plasticizing agent: Preparation and characterization. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 95, no., pp. 675-685., Registrované v: WOS

8. [1.1] GOMEZ-FERNANDEZ, Sandra - GUENTHER, Martin - SCHARTEL, Bernhard - ANGELES CORCUERA, M. - ECEIZA, Arantxa. Impact of the combined use of layered double hydroxides, lignin and phosphorous polyol on the fire behavior of flexible polyurethane foams. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 346-359., Registrované v: WOS

9. [1.1] GUPTA, Surojit - RIYAD, M. F. - JI, Yun. Synthesis and Tribological Behavior of Ultra High Molecular Weight Polyethylene (UHMWPE)-Lignin Composites. In LUBRICANTS. ISSN 2075-4442, 2016, vol. 4, no. 3, pp., Registrované v: WOS

10. [1.1] IKEDA, Yuko - PREEYANUCH, Junkong. All Biomass Material: Lignin Filled Cross-Linked Natural Rubber Nanocomposites. In SEN-I GAKKAISHI. ISSN 0037-9875, 2019, vol. 75, no. 4, pp. 202-207., Registrované v: WOS

11. [1.1] JUIKAR, Siddhi J. - VIGNESHWARAN, N. Extraction of nanolignin from coconut fibers by controlled microbial hydrolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 420-425., Registrované v: WOS

12. [1.1] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced Rubber Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 195-206., Registrované v: WOS

13. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS

14. [1.1] MY HA TRAN - LEE, Eun Yeol. Green Preparation of Bioplastics Based on Degradation and Chemical Modification of Lignin Residue. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2019, vol. 38, no. 6, pp. 460-478., Registrované v: WOS

15. [1.1] TRAN, Chau D. - CHEN, Jihua - KEUM, Jong K. - NASKAR, Amit K. A New Class of Renewable Thermoplastics with Extraordinary Performance from Nanostructured Lignin-Elastomers. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2016, vol. 26, no. 16, pp. 2677-2685., Registrované v: WOS

16. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS

17. [1.1] YU, P. - HE, H. - JIANG, C. - WANG, D. - JIA, Y. - ZHOU, L. - JIA, D. M. Reinforcing styrene butadiene rubber with lignin-novolac epoxy resin networks. In EXPRESS POLYMER LETTERS. ISSN 1788-618X, 2015, vol. 9, no. 1, pp. 36-48., Registrované v: WOS

18. [1.1] ZAHER, Khlood S. Abdel - EL-SABBAGH, Salwa H. - ABDELRAZEK, Fathy M. - NAWWAR, Galal A. M. Utility of Zinc (Lignin/Silica/Fatty Acids) Complex Driven From Rice Straw as Antioxidant and

Activator in Rubber Composites. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2019, vol. 59, no., pp. E196-E205., Registrované v: WOS

19. [1.2] HÁZ, Aleš - JABLONSKÝ, Michal - SLÁDKOVÁ, Alexandra - FERANC, Jozef - ŠURINA, Igor. Stability of the lignins and their potential in production of bioplastics. In Key Engineering Materials. ISSN 10139826, 2016-01-01, 688, pp. 25-30., Registrované v: SCOPUS

20. [1.2] HUANG, Jin - FU, Shiyu - GAN, Lin. Lignin chemistry and applications. In Lignin Chemistry and Applications, 2019-01-31, pp. 1-276., Registrované v: SCOPUS

21. [1.2] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced Rubber Composites. In Lignin in Polymer Composites, 2015-01-01, pp. 195-206., Registrované v: SCOPUS

22. [1.2] OBIELODAN, John - VERGENZ, Kevin - AQIL, Danyal - WU, Joseph - ELLISTREM, Laurel Mc. Characterization of PLA/lignin biocomposites for 3D printing. In Solid Freeform Fabrication 2019: Proceedings of the 30th Annual International Solid Freeform Fabrication Symposium An Additive Manufacturing Conference, SFF 2019, 2019-01-01, pp. 998-1007., Registrované v: SCOPUS

23. [1.2] SALLEM-IDRISSI, Naïma - SCLAVONS, Michel - DEBECKER, Damien P. - DEVAUX, Jacques. Miscible raw lignin/nylon 6 blends: Thermal and mechanical performances. In Journal of Applied Polymer Science. ISSN 00218995, 2016-02-10, 133, 6, pp., Registrované v: SCOPUS

24. [1.2] SALLEM-IDRISSI, N. - VAN VELTHEM, P. - SCLAVONS, M. Fully Bio-Sourced Nylon 11/Raw Lignin Composites: Thermal and Mechanical Performances. In Journal of Polymers and the Environment. ISSN 15662543, 2018-12-01, 26, 12, pp. 4405-4414., Registrované v: SCOPUS

25. [1.2] TRAN, My Ha - LEE, Eun Yeol. Green Preparation of Bioplastics Based on Degradation and Chemical Modification of Lignin Residue. In Journal of Wood Chemistry and Technology. ISSN 02773813, 2018-11-02, 38, 6, pp. 460-478., Registrované v: SCOPUS

ADCA701 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana. Sulfur-free lignin as reinforcing component of styrene-butadiene rubber. In *Journal of Applied Polymer Science*, 2005, vol.97, p. 924-929. (2004: 1.021 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.21448>

Ohlasy:

1. [1.1] ABEJON, Ricardo - PEREZ-ACEBO, Heriberto - CLAVIJO, Leonardo. Alternatives for Chemical and Biochemical Lignin Valorization: Hot Topics from a Bibliometric Analysis of the Research Published During the 2000-2016 Period. In PROCESSES. ISSN 2227-9717, 2018, vol. 6, no. 8, pp., Registrované v: WOS

2. [1.1] BHADRA, Sambhu - MOHAN, Nitin - NAIR, Sujith. Suitability of different biomaterials for the application in tire. In SN APPLIED SCIENCES. ISSN 2523-3963, 2019, vol. 1, no. 12, pp., Registrované v: WOS

3. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Piroska - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of interactions in polypropylene/lignosulfonate blends. In MATERIALS & DESIGN. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v:

WOS

4. [1.1] COLLINS, Maurice N. - NECHIFOR, Marioara - TANASA, Fulga - ZANOAGA, Madalina - MCLOUGHLIN, Anne - STROZYK, Michal A. - CULEBRAS, Mario - TEACA, Carmen-Alice. Valorization of lignin in polymer and composite systems for advanced engineering applications A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 131, no., pp. 828-849., Registrované v: WOS
5. [1.1] HANAOKA, Toshiaki - FUJIMOTO, Shinji - KIHARA, Hideyuki. Improvement of the 1,3-butadiene production process from lignin A comparison with the gasification power generation process. In RENEWABLE ENERGY. ISSN 0960-1481, 2019, vol. 135, no., pp. 1303-1313., Registrované v: WOS
6. [1.1] HU, Lei - STEVANOVIC, Tatjana - RODRIGUE, Denis. Comparative Study of Polyethylene Composites Containing Industrial Lignins. In POLYMERS & POLYMER COMPOSITES. ISSN 0967-3911, 2015, vol. 23, no. 6, pp. 369-374., Registrované v: WOS
7. [1.1] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced Rubber Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 195-206., Registrované v: WOS
8. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS
9. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
10. [1.1] WANG, Haixu - LIU, Weifeng - TU, Zhikai - HUANG, Jinhao - QIU, Xueqing. Lignin-Reinforced Nitrile Rubber/Poly(vinyl chloride) Composites via Metal Coordination Interactions. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2019, vol. 58, no. 51, pp. 23114-23123., Registrované v: WOS
11. [1.1] XIONG, Wenlong - YANG, Dongjie - ZHONG, Ruisheng - LI, Yuan - ZHOU, Haifeng - QIU, Xueqing. Preparation of lignin-based silica composite submicron particles from alkali lignin and sodium silicate in aqueous solution using a direct precipitation method. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 74, no., pp. 285-292., Registrované v: WOS
12. [1.1] XU, Ge - YAN, Guangyu - ZHANG, Jing. Lignin as coupling agent in EPDM rubber: thermal and mechanical properties. In POLYMER BULLETIN. ISSN 0170-0839, 2015, vol. 72, no. 9, pp. 2389-2398., Registrované v: WOS
13. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
14. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang'an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang.

Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS

15. [1.1] YU, P. - HE, H. - JIANG, C. - WANG, D. - JIA, Y. - ZHOU, L. - JIA, D. M. Reinforcing styrene butadiene rubber with lignin-novolac epoxy resin networks. In *EXPRESS POLYMER LETTERS*. ISSN 1788-618X, 2015, vol. 9, no. 1, pp. 36-48., Registrované v: WOS

16. [1.2] JIANG, Can - HE, Hui - YAO, Xiaojie - YU, Peng - ZHOU, Ling - JIA, Demin. In situ dispersion and compatibilization of lignin/epoxidized natural rubber composites: Reactivity, morphology and property. In *Journal of Applied Polymer Science*. ISSN 00218995, 2015-01-01, 132, 23, pp., Registrované v: SCOPUS

17. [1.2] KAKROODI, Adel R. - SAIN, Mohini. Lignin-Reinforced Rubber Composites. In *Lignin in Polymer Composites*, 2015-01-01, pp. 195-206., Registrované v: SCOPUS

18. [1.2] MO, Xianke - ZHOU, Mingsong - LOU, Hongming - YANG, Dongjie - QIU, Xueqing. Reinforcing properties of enzymatic hydrolysis lignin/carbon black composite filler system for acrylonitrile butadiene rubber. In *Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering*. ISSN 10007555, 2015-01-01, 31, 1, pp. 51-56., Registrované v: SCOPUS

19. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 49-80., Registrované v: SCOPUS

20. [1.2] XIA, Cheng Long - XU, Yu Zhi - LIU, Xiao Huan - WANG, Chun Peng. Preparation and characterization of demethylated lignin assisted by microwave irradiation. In *Chemistry and Industry of Forest Products*. ISSN 02532417, 2016-04-28, 36, 2, pp. 57-63., Registrované v: SCOPUS

ADCA702 KOŠÍKOVÁ, Božena - RÉVAJOVÁ, A. - DEMIANOVÁ, V. The effect of adding lignin on modification of surface properties of polypropylene. In *European Polymer Journal*, 1995, vol. 31, p. 953-956. (1994: 0.719 - IF, Current Contents - CCC). (1995 - Current Contents). ISSN 0014-3057. Dostupné na: [https://doi.org/10.1016/0014-3057\(95\)00052-6](https://doi.org/10.1016/0014-3057(95)00052-6)

Ohlasy:

1. [1.1] ABDELWAHAB, Mohamed A. - MISRA, Manjusri - MOHANTY, Amar K. Injection molded biocomposites from polypropylene and lignin: Effect of compatibilizers on interfacial adhesion and performance. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2019, vol. 132, no., pp. 497-510., Registrované v: WOS

2. [1.1] BOZSODI, Bruno - ROMHANYI, Vivien - PATAKI, Pirooska - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. Modification of interactions in polypropylene/lignosulfonate blends. In *MATERIALS & DESIGN*. ISSN 0264-1275, 2016, vol. 103, no., pp. 32-39., Registrované v: WOS

3. [1.1] COLLINS, Maurice N. - NECHIFOR, Marioara - TANASA, Fulga - ZANOAGA, Madalina - MCLOUGHLIN, Anne - STROZYK, Michal A. - CULEBRAS, Mario - TEACA, Carmen-Alice. Valorization of lignin in polymer and composite systems for advanced engineering applications A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*.

- ISSN 0141-8130, 2019, vol. 131, no., pp. 828-849., Registrované v: WOS
4. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
5. [1.1] IYER, Krishnan A. - TORKELOSON, John M. Sustainable Green Hybrids of Polyolefins and Lignin Yield Major Improvements in Mechanical Properties When Prepared via Solid-State Shear Pulverization. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 5, pp. 959-968., Registrované v: WOS
6. [1.1] ZADEH, Elham Mohammad - O'KEEFE, Sean F. - KIM, Young-Teck. Utilization of Lignin in Biopolymeric Packaging Films. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 7, pp. 7388-7398., Registrované v: WOS
7. [1.2] ŠIMIĆ, Kristina - BISCHOF, Sandra - SOLJAČIĆ, Ivo. The application of layer-by-layer deposition on textiles. In Tekstil. ISSN 04925882, 2015-11-01, 64, 11-12, pp. 358-368., Registrované v: SCOPUS

ADCA703 KOŠÍKOVÁ, Božena - MLYNÁR, J. - ZAKUTNA, L. - JONIAK, Dusan. The relationship between ultrastructure and lignin extractability of steamed hardwoods. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1990, vol. 44, pp. 249-255. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1990.44.4.249>

Ohlasy:

1. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS

ADCA704 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena - SASINKOVÁ, Vlasta - KACÍK, F. The use of various yeast strains for removal of pine wood extractive constituents. In *Wood Research*, 2006, vol.51, p. 47-53. (2005: 0.125 - IF, Q4 - JCR, 0.169 - SJR, Q3 - SJR). ISSN 1336-4561.

Ohlasy:

1. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - LIPOK, Jacek. Resistance of Conifer Needle Polyolefin Composites (CNPCs) Against Biodecomposition Caused by Fungi. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1179-1193., Registrované v: WOS
2. [1.1] JABLONSKY, Michal - VERNARECOVA, Michaela - HAZ, Ales - DUBINYOVA, Lenka - SKULCOVA, Andrea - SLADKOVA, Alexandra - SURINA, Igor. EXTRACTION OF PHENOLIC AND LIPOPHILIC COMPOUNDS FROM SPRUCE (PICEA ABIES) BARK USING ACCELERATED SOLVENT EXTRACTION BY ETHANOL. In WOOD RESEARCH. ISSN 1336-4561, 2015, vol. 60, no. 4, pp. 583-590., Registrované v: WOS
3. [1.1] JABLONSKY, M. - NOSALOVA, J. - SLADKOVA, A. - HAZ, A. - KREPS, F. - VALKA, J. - MIERTUS, S. - FREČER, V. - ONDREJOVIC, M. - SIMA, J. - SURINA, I. Valorisation of softwood bark through extraction of

utilizable chemicals. A review. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 6, pp. 726-750., Registrované v: WOS
4. [1.1] NAMDAR, Abdoullah. The multilayered soil-structure seismic interaction and structure vibration mechanism. In FRATTURA ED INTEGRITA STRUTTURALE. ISSN 1971-8993, 2020, vol., no. 51, pp. 267-274. Dostupné na: <https://doi.org/10.3221/IGF-ESIS.51.21.>, Registrované v: WOS

ADCA705 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena. Use of lignin products derived from wood pulping as environmentally desirable additives of polypropylene films. In *Wood Research*, 2010, vol. 55, p. 87-92. (2009: 0.369 - IF, Q3 - JCR, 0.218 - SJR, Q3 - SJR). ISSN 1336-4561.

Ohlasy:

1. [1.1] ANTCZAK, Andrzej - RADOMSKI, Andrzej - DROZDZEK, Michal - ZAWADZKI, Janusz - ZIELENKIEWICZ, Tomasz. THERMAL AGEING OF CELLULOSE WITH NATURAL AND SYNTHETIC ANTIOXIDANTS UNDER VARIOUS CONDITIONS. In *DREWNO*. ISSN 1644-3985, 2016, vol. 59, no. 196, pp. 139-152., Registrované v: WOS
2. [1.1] JABLONSKY, Michal - VERNARECOVA, Michaela - HAZ, Ales - DUBINYOVA, Lenka - SKULCOVA, Andrea - SLADKOVA, Alexandra - SURINA, Igor. EXTRACTION OF PHENOLIC AND LIPOPHILIC COMPOUNDS FROM SPRUCE (PICEA ABIES) BARK USING ACCELERATED SOLVENT EXTRACTION BY ETHANOL. In *WOOD RESEARCH*. ISSN 1336-4561, 2015, vol. 60, no. 4, pp. 583-590., Registrované v: WOS
3. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
4. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
5. [1.2] SHULGA, Galia - VITOLINA, Sanita - NEIBERTE, Brigita - JAUNSLAVIETIS, Jevgenijs - VEROVKINS, Anrijs - OZOLINS, Jurijs - LIVCHA, Sandra - BETKERS, Talrits. Valorized soda lignin and its possible application. In *Vide. Tehnologija. Resursi Environment, Technology, Resources*. ISSN 16915402, 2019-01-01, 3, pp. 219-223., Registrované v: SCOPUS

ADCA706 KOŠŤÁLOVÁ, D. - KARDOŠOVÁ, Alžbeta - HAJNICKÁ, Valéria. Effect of Mahonia aquifolium stem bark crude extract and one of its polysaccharide components on production of IL-8. In *Fitoterapia*, 2001, vol. 72, p. 802-806. ISSN 0367-326X. Dostupné na: [https://doi.org/10.1016/S0367-326X\(01\)00336-7](https://doi.org/10.1016/S0367-326X(01)00336-7)

Ohlasy:

1. [1.1] DAMJANOVIC, Ana - ZDUNIC, Gordana - SAVIKIN, Katarina - MANDIC, Boris - JADRANIN, Milka - MATIC, Ivana Z. - STANOJKOVIC, Tatjana P. Evaluation of the anti-cancer potential of Mahonia aquifolium extracts via apoptosis and anti-angiogenesis. In *BANGLADESH JOURNAL OF PHARMACOLOGY*. ISSN 1991-007X, 2016, vol. 11, no. 3, pp. 741-749., Registrované v: WOS
2. [1.1] GODEVAC, Dejan - DAMJANOVIC, Ana - STANOJKOVIC, Tatjana P. - ANDELKOVIC, Boban - ZDUNIC, Gordana. Identification of

cytotoxic metabolites from Mahonia aquifolium using H-1 NMR-based metabolomics approach. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 150, no., pp. 9-14., Registrované v: WOS

3. [1.1] ZHU, Wei - HU, Jin - WANG, Xin - TIAN, Jingkui - KOMATSU, Setsuko. Organ-Specific Analysis of Mahonia Using Gel-Free/Label-Free Proteomic Technique. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2015, vol. 14, no. 6, pp. 2669-2685., Registrované v: WOS

ADCA707 KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - EBRINGEROVÁ, Anna. Bioactive hemicelluloses alkali-extracted from Fallopia sachalinensis leaves. In *Carbohydrate Research*, 2014, vol. 398, p. 19-24. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.08.009>

Ohlasy:

1. [1.1] DING, Huihuang H. - CUI, Steve W. - GOFF, H. Douglas - CHEN, Jie - GUO, Qingbin - WANG, Qi. Xyloglucans from flaxseed kernel cell wall: Structural and conformational characterisation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 538-545., Registrované v: WOS

2. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS

3. [1.1] GUO, Min - DING, Guo-Bin - GUO, Songjia - LI, Zhuoyu - ZHAO, Liangqi - LI, Ke - GUO, Xiangrong. Isolation and antitumor efficacy evaluation of a polysaccharide from Nostoc commune Vauch. In FOOD & FUNCTION. ISSN 2042-6496, 2015, vol. 6, no. 9, pp. 3035-3044., Registrované v: WOS

4. [1.1] CHEN, Zhi - ZHANG, Wei - TANG, Xunyou - FAN, Huajun - XIE, Xiujuan - WAN, Qiang - WU, Xuehao - TANG, James Z. Extraction and characterization of polysaccharides from Semen Cassiae by microwave-assisted aqueous two-phase extraction coupled with spectroscopy and HPLC. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 144, no., pp. 263-270., Registrované v: WOS

5. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. Structural characteristics of oxalate-soluble polysaccharides from Norway spruce (Picea abies) foliage. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116544>., Registrované v: WOS

6. [1.1] OLESZEK, Marta - KOWALSKA, Iwona - OLESZEK, Wiesław. Phytochemicals in bioenergy crops. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2019, vol. 18, no. 3, pp. 893-927., Registrované v: WOS

7. [1.1] RINCON, Esther - ZULIANI, Alessio - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco - LUQUE, Rafael - SERRANO, Luis - BALU, Alina M. Combined Extraction/Purification-Catalytic

Microwave-Assisted Conversion of *Laurus nobilis* L. Pruning Waste Polysaccharides into Methyl Levulinate. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 29, pp. 11016-11023. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c04161>., Registrované v: WOS

8. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of *Picea abies*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS

9. [1.1] SIPOSOVA, Kristina - KOLLAROVA, Karin - LISKOVA, Desana - VIVODOVA, Zuzana. The effects of IBA on the composition of maize root cell walls. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2019, vol. 239, no., pp. 10-17., Registrované v: WOS

10. [1.1] VATEHOVA, Zuzana - MALOVIKOVA, Anna - KOLLAROVA, Karin - KUCEROVA, Danica - LISKOVA, Desana. Impact of cadmium stress on two maize hybrids. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2016, vol. 108, no., pp. 90-98., Registrované v: WOS

11. [1.1] ZENG, Hongliang - ZHANG, Yi - LIN, Shan - JIAN, Yeye - MIAO, Song - ZHENG, Baodong. Ultrasonic-microwave synergistic extraction (UMSE) and molecular weight distribution of polysaccharides from *Fortunella margarita* (Lour.) Swingle. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2015, vol. 144, no., pp. 97-106., Registrované v: WOS

12. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO, Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from *Salvia miltiorrhiza*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.113>., Registrované v: WOS

13. [1.2] LIU, Qianwen - LI, Yuan - JIN, Xin - PENG, Qin - LIU, Xiaofei - WU, Yuntang. Microwave-assisted synthesis of chitosan biguanidine hydrochloride and its antioxidant activity in vitro. In Journal of Applied Polymer Science. ISSN 00218995, 2016-07-05, 133, 25, pp., Registrované v: SCOPUS

14. [3.1] Abejón, R (Abejón, Ricardo). A Bibliometric Study of Scientific Publications regarding Hemicellulose Valorization during the 2000–2016 Period: Identification of Alternatives and Hot Topics. In: CHEMENGINEERING. ISSN 1385-8947, Vol. 2 (2018), Issue 1, Article number 7, p. 1-31

ADCA708 KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Isolation and characterization of pectic polysaccharides from the seeded fruit of oil pumpkin (*Cucurbita pepo* L. var. *Styriaca*). In *Industrial crops and products : An international journal*, 2010, vol.31, p. 370-377. (2009: 2.103 - IF, Q1 - JCR, 0.824 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0926-6690.

Ohlasy:

1. [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In

CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658.,
Registrované v: WOS

2. [1.1] DAMMAK, Mariem Itaimi - CHAKROUN, Ibtissem - MZOUGH, Zeineb - AMAMOU, Sawsen - BEN MANSOUR, Hedi - LE CERF, Didier - MAJDOUB, Hatem. Characterization of polysaccharides from *Prunus amygdalus* peels: Antioxidant and antiproliferative activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 198-206., Registrované v: WOS

3. [1.1] KAUR, Navpreet - KISHORE, Lalit - SINGH, Randhir. Attenuation of STZ-induced diabetic nephropathy by *Cucurbita pepo* L. seed extract characterized by GCMS. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2017, vol. 41, no. 6, pp., Registrované v: WOS

4. [1.1] KHEDMAT, Leila - IZADI, Anahita - MOFID, Vahid - MOJTAHEDI, Sayed Yousef. Recent advances in extracting pectin by single and combined ultrasound techniques: A review of techno-functional and bioactive health-promoting aspects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2019.115474>., Registrované v: WOS

5. [1.1] LIN, Tingting - LIU, Yan - LAI, Changjiangsheng - YANG, Tingting - XIE, Junbo - ZHANG, Yanqing. The effect of ultrasound assisted extraction on structural composition, antioxidant activity and immunoregulation of polysaccharides from *Ziziphus jujuba* Mill var. *spinosa* seeds. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 150-159., Registrované v: WOS

6. [1.1] LIU, Hua-Min - LI, Yao-Ran - WU, Min - YIN, Hui-Shuang - WANG, Xue-De. Two-step isolation of hemicelluloses from Chinese quince fruit: Effect of hydrothermal treatment on structural features. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 615-624., Registrované v: WOS

7. [1.1] MOULAY, Sadiki - HASSAN, Barkai - ALAE, Elabed - MERYEM, Asri - MOHAMED, Moustakim - SAAD, Ibnsouda Koraichi - SOUMYA, Elabed. The Anti-Adherent Activity of Plant Extracts on *Penicillium Commune* Spores Causing Cedar Wood Decay: An ESEM Analysis. In JOURNAL OF ADHESION. ISSN 0021-8464, 2016, vol. 92, no. 4, pp. 295-305., Registrované v: WOS

8. [1.1] SUN, Zijian - QI, Fengqin - GAO, Huan - LIU, Lijuan. Preliminary exploration of phytochemical profiles, antioxidant and hepatoprotective activities of non-oil extracts of pumpkin seeds treated by four different processing methods. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020, vol. 59, no. 1, pp. 51-60., Registrované v: WOS

9. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS

10. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from

pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

11. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcyon Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58

ADCA709 KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - POLOVKA, Martin - MICHAELSEN, Terje Einar - PAULSEN, Berit Smestad. Polysaccharides from Styrian oil-pumpkin with antioxidant and complement-fixing activity. In *Industrial Crops and Products*, 2013, vol. 41, p. 127-133. (2012: 2.468 - IF, Q1 - JCR, 0.980 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2012.04.029>

Ohlasy:

1. [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS

2. [1.1] CIRIMINNA, Rosaria - FIDALGO, Alexandra - MENEGUZZO, Francesco - PRESENTATO, Alessandro - SCURRIA, Antonino - NUZZO, Domenico - ALDUINA, Rosa - ILHARCO, Laura M. - PAGLIARO, Mario. Pectin: A Long-Neglected Broad-Spectrum Antibacterial. In CHEMMEDCHEM. ISSN 1860-7179, 2020, vol. 15, no. 23, pp. 2228-2235. Dostupné na: <https://doi.org/10.1002/cmdc.202000518>., Registrované v: WOS

3. [1.1] DENMAN, Laura J. - MORRIS, Gordon A. An experimental design approach to the chemical characterisation of pectin polysaccharides extracted from *Cucumis melo* Inodorus. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 364-369., Registrované v: WOS

4. [1.1] FILHO, Cesar M. C. - BUENO, Pedro V. A. - MATSUSHITA, Alan F. Y. - VILSINSKI, Bruno H. - RUBIRA, Adley F. - MUNIZ, Edvani C. - MURTINHO, Dina M. B. - VALENTE, Artur J. M. Uncommon Sorption Mechanism of Aromatic Compounds onto Poly(Vinyl Alcohol)/Chitosan/Maleic Anhydride-beta-Cyclodextrin Hydrogels. In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040877>., Registrované v: WOS

5. [1.1] MATHARU, Avtar S. - HOUGHTON, Joseph A. - LUCAS-TORRES, Covadonga - MORENO, Andres. Acid-free microwave-assisted hydrothermal extraction of pectin and porous cellulose from mango peel waste towards a zero waste mango biorefinery. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 19, pp. 5280-5287., Registrované v: WOS

6. [1.1] SHAKIBI, Sepideh - HEMMATINEJAD, Nahid - BASHARI, Azadeh. Sorbent Textiles for Colored Wastewater Made from Orange Based Pectin Nano-hydrogel. In FIBERS AND POLYMERS. ISSN 1229-9197, 2020, vol. 21, no. 6, pp. 1275-1282. Dostupné na: <https://doi.org/10.1007/s12221-020-9907-7>., Registrované v: WOS

7. [1.1] SMIRNOV, Vasily V. - GOLOVCHENKO, Victoria V. - VITYAZEY, Fedor V. - PATOVA, Olga A. - SELIVANOV, Nikolay Yu - SELIVANOVA, Olga G. - POPOV, Sergey V. The Antioxidant Properties of

Pectin Fractions Isolated from Vegetables Using a Simulated Gastric Fluid. In JOURNAL OF CHEMISTRY. ISSN 2090-9063, 2017, vol., no., pp.,

Registrované v: WOS

8. [1.1] TAN, Hwee-Feng - GAN, Chee-Yuen. Polysaccharide with antioxidant, alpha-amylase inhibitory and ACE inhibitory activities from *Momordica charantia*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 85, no., pp. 487-496.,

Registrované v: WOS

9. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS

10. [1.1] WANG, Libo - LIU, Fangcheng - WANG, Aoxue - YU, Zeyuan - XU, Yaqin - YANG, Yu. Purification, characterization and bioactivity determination of a novel polysaccharide from pumpkin (*Cucurbita moschata*) seeds. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 66, no., pp. 357-364., Registrované v: WOS

11. [1.1] XIE, Jian-Hua - JIN, Ming-Liang - MORRIS, Gordon A. - ZHA, Xue-Qiang - CHEN, Han-Qing - YI, Yang - LI, Jing-En - WANG, Zhi-Jun - GAO, Jie - NIE, Shao-Ping - SHANG, Peng - XIE, Ming-Yong. Advances on Bioactive Polysaccharides from Medicinal Plants. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2016, vol. 56, no., pp. S60-S84., Registrované v: WOS

12. [1.2] WANG, Libo - CHENG, Long - XU, Yaqin - WANG, Taiheng - LI, Lubin - WANG, Hansong. Extraction technology optimization and antioxidant activity of polysaccharides from pumpkin seeds. In Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering. ISSN 10026819, 2016-05-01, 32, 9, pp. 284-290., Registrované v: SCOPUS

13. [1.2] WANG, Libo - XU, Yaqin - YU, Zeyuan - WANG, Taiheng - LI, Lubin. Ethanol fractional precipitation and ultrasonic modification of pumpkin polysaccharides. In Nongye Jixie Xuebao/Transactions of the Chinese Society for Agricultural Machinery. ISSN 10001298, 2015-01-01, 46, 8, pp. 206-210., Registrované v: SCOPUS

14. [1.2] YIN, Hong Mei - WANG, Su Nan - NIE, Shao Ping - XIE, Ming Yong. Coix polysaccharides: Gut microbiota regulation and immunomodulatory. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2018-10-01, 16, pp. 53-61., Registrované v: SCOPUS

15. [1.2] ZHAO, Jing - LIU, Wei - CHEN, Dong - SONG, Yi - ZHANG, Yuyu - NI, Yuanying - LI, Quanhong. Physico-chemical and antioxidant properties of different pumpkin cultivars grown in China. In Advance Journal of Food Science and Technology. ISSN 20424868, 2015-01-01, 9, 4, pp. 308-316., Registrované v: SCOPUS

ADCA710 KOŠŤÁLOVÁ, Zuzana** - HROMÁDKOVÁ, Zdenka. Structural characterisation of polysaccharides from roasted hazelnut skins. In *Food Chemistry*, 2019, vol. 286, p. 179-184. (2018: 5.399 - IF, Q1 - JCR, 1.768 - SJR, Q1 - SJR,

Current Contents - CCC). (2019 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.01.203>

Ohlasy:

1. [1.1] LIU, Hongcheng - FAN, Hongxiu - ZHANG, Jing - ZHANG, Shanshan - ZHAO, Wenting - LIU, Tingting - WANG, Dawei. Isolation, purification, structural characteristic and antioxidative property of polysaccharides from *A. cepa* L. var. *agrogatum* Don. In *FOOD SCIENCE AND HUMAN WELLNESS*, 2020, vol. 9, no. 1, pp. 71-79. Dostupné na: <https://doi.org/10.1016/j.fshw.2019.12.006>., Registrované v: WOS
2. [1.1] LIU, Xuegui - XU, Shuangshuang - DING, Xiaodan - YUE, Dandan - BIAN, Jun - ZHANG, Xue - ZHANG, Gonglin - GAO, Pinyi. Structural characteristics of *Medicago Sativa* L. Polysaccharides and Semodified polysaccharides as well as their antioxidant and neuroprotective activities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 147, no., pp. 1099-1106. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.078>., Registrované v: WOS
3. [1.1] LI, Ke - LI, Shuying - WANG, Di - LI, Xiaoxia - WU, Xingkang - LIU, Xiaojie - DU, Guanhua - LI, Xianrong - QIN, Xuemei - DU, Yuguang. Extraction, Characterization, Antitumor and Immunological Activities of Hemicellulose Polysaccharide from *Astragalus radix* Herb Residue. In *MOLECULES*, 2019, vol. 24, no. 20, pp., Registrované v: WOS
4. [1.1] LI, Ke - LI, Shuying - DU, Yuguang - QIN, Xuemei. Screening and structure study of active components of *Astragalus* polysaccharide for injection based on different molecular weights. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2020, vol. 1152, no., pp. Dostupné na: <https://doi.org/10.1016/j.jchromb.2020.122255>., Registrované v: WOS
5. [1.1] NIU, Junfeng - WANG, Shangping - WANG, Bulei - CHEN, Lijun - ZHAO, Guangming - LIU, Shuai - WANG, Shiqiang - WANG, Zhezhi. Structure and anti-tumor activity of a polysaccharide from *Bletilla ochracea* Schltr. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 1548-1555. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.039>., Registrované v: WOS
6. [1.1] RENNA, Manuela - LUSSIANA, Carola - MALFATTO, Vanda - GERBELLE, Mathieu - TURILLE, Germano - MEDANA, Claudio - GHIRARDELLO, Daniela - MIMOSI, Antonio - CORNALE, Paolo. Evaluating the Suitability of Hazelnut Skin as a Feed Ingredient in the Diet of Dairy Cows. In *ANIMALS*. ISSN 2076-2615, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/ani10091653>., Registrované v: WOS
7. [1.1] SOROURIAN, Reihaneh - KHAJEHRAHIMI, Amir Eghbal - TADAYONI, Mehrnoosh - AZIZI, Mohammad Hossein - HOJJATI, Mohammad. Ultrasound-assisted extraction of polysaccharides from *Typha domingensis*: Structural characterization and functional properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 160, no., pp. 758-768. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.226>., Registrované v: WOS
8. [1.1] SUN, Xuyang - ZHAO, Qianqian - SI, Yu - LI, Kaidong - ZHU, Jingyi - GAO, Xiangdong - LIU, Wei. Bioactive structural basis of proteoglycans

from *Sarcandra glabra* based on spectrum-effect relationship. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2020, vol. 259, no., pp.
 Dostupné na: <https://doi.org/10.1016/j.jep.2020.112941>., Registrované v: WOS
 9. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na: <https://doi.org/10.1080/10408398.2019.1672037>., Registrované v: WOS
 10. [1.1] XU, Yu - ZHANG, Xuan - YAN, Xiao-Hui - ZHANG, Jia-Lin - WANG, Li-Yan - XUE, Hai - JIANG, Guo-Chuan - MA, Xin-Tong - LIU, Xue-Jun. Characterization, hypolipidemic and antioxidant activities of degraded polysaccharides from *Ganoderma lucidum*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 135, no., pp. 706-716., Registrované v: WOS

ADCA711 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Structural diversity of pectins isolated from the Styrian oil-pumpkin (*Cucurbita pepo* var. *styriaca*) fruit. In *Carbohydrate Polymers*, 2013, vol. 93, p. 163-171. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.05.017>

Ohlasy:

1. [1.1] ALBA, K. - LAWS, A. P. - KONTOGIORGOS, V. Isolation and characterization of acetylated LM-pectins extracted from okra pods. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 43, no., pp. 726-735., Registrované v: WOS
2. [1.1] ASAD, Mohammad - BRAHIM, Marwa - ZIEGLER-DEVIN, Isabelle - BOUSSETTA, Nadia - BROSSE, Nicolas. Chemical Characterization of Non-Saccharidic and Saccharidic Components of Rapeseed Hulls and Sunflower Shells. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3143-3153., Registrované v: WOS
3. [1.1] COLODEL, Cristiane - DAS GRACAS BAGATIN, Rosane Maria - TAVARES, Talita Maria - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from pulp and peel of cubiu: A pectin-rich fruit. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 226-234., Registrované v: WOS
4. [1.1] COLODEL, Cristiane - VRIESMANN, Lucia Cristina - TEOFILLO, Reinaldo Francisco - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Extraction of pectin from ponkan (*Citrus reticulata* Blanco cv. Ponkan) peel: Optimization and structural characterization. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 385-391., Registrované v: WOS
5. [1.1] COLODEL, Cristiane - VRIESMANN, Lucia Cristina - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from Ponkan mandarin (*Citrus reticulata* Blanco cv. Ponkan) peel. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 120-127., Registrované v: WOS
6. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER,

- Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Gastroprotective effects and structural characterization of a pectic fraction isolated from *Artemisia campestris* subsp *maritima*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS
7. [1.1] CORREA-FERREIRA, Marllia Locatelli - VIUDES, Eliane Batista - DE MAGALHAES, Pedro Melillo - DE SANTANA FILHO, Arquimedes Paixao - SASSAKI, Guilherme Lanzi - PACHECO, Ana Claudia - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Changes in the composition and structure of cell wall polysaccharides from *Artemisia annua* in response to salt stress. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 483, no., pp., Registrované v: WOS
8. [1.1] DENMAN, Laura J. - MORRIS, Gordon A. An experimental design approach to the chemical characterisation of pectin polysaccharides extracted from *Cucumis melo Inodorus*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 117, no., pp. 364-369., Registrované v: WOS
9. [1.1] FAN, Ruiyi - XIE, Yuming - ZHU, Congyi - QIU, Diyang - ZENG, Jiwu - LIU, Zheyu. Structural elucidation of an acidic polysaccharide from *Citrus grandis* 'Tomentosa' and its anti-proliferative effects on LOVO and SW620 cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 138, no., pp. 511-518., Registrované v: WOS
10. [1.1] HAN, Kun - JIN, Can - CHEN, Huanjun - WANG, Peipei - YU, Mei - DING, Kan. Structural characterization and anti-A549 lung cancer cells bioactivity of a polysaccharide from *Houttuynia cordata*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 288-296., Registrované v: WOS
11. [1.1] HUANG, Chao - CAO, Xiyue - CHEN, Xingfu - FU, Yuping - ZHU, Yingguo - CHEN, Zhengli - LUO, Qihui - LI, Lixia - SONG, Xu - JIA, Renyong - YIN, Zhongqiong - FENG, Bin - ZOU, Yuanfeng. A pectic polysaccharide from *Ligusticum chuanxiong* promotes intestine antioxidant defense in aged mice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 915-922., Registrované v: WOS
12. [1.1] CHOI, Yu-Ra - LEE, Yun-Kyung - CHANG, Yoon Hyuk. Structural and rheological properties of pectic polysaccharide extracted from *Ulmus davidiana* esterified by succinic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 245-254., Registrované v: WOS
13. [1.1] KPODO, F. M. - AGBENORHEVI, J. K. - ALBA, K. - SMITH, A. M. - MORRIS, G. A. - KONTOGIORGOS, V. Structure and physicochemical properties of Ghanaian *grewia* gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 122, no., pp. 866-872., Registrované v: WOS
14. [1.1] LEE, Jin-Hye - LEE, Yun-Kyung - CHOI, Yu-Ra - PARK, Joon - JUNG, Sung Keun - CHANG, Yoon Hyuk. The characterization, selenylation and anti-inflammatory activity of pectic polysaccharides extracted from *Ulmus pumila* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 311-318., Registrované v: WOS
15. [1.1] LEH, Daniele Stock - BIZ, Alessandra - DE PAULA, D. H. F. -

RICHARD, Peter - GONCALVES, Alan Guilherme - NOSEDA, Miguel Daniel - MITCHELL, David Alexander - KRIEGER, Nadia. Conversion of citric pectin into D-galacturonic acid with high substrate loading using a fermented solid with pectinolytic activity. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2017, vol. 11, no., pp. 214-219.,

Registrované v: WOS

16. [1.1] LIU, Jun - MENG, Chen-guang - YAN, Ye-hua - SHAN, Ya-na - KAN, Juan - JIN, Chang-hai. Structure, physical property and antioxidant activity of catechin grafted Tremella fuciformis polysaccharide. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 82, no., pp. 719-724., Registrované v: WOS

17. [1.1] LI, De-qiang - DU, Guang-ming - JING, Wei-wen - LI, Jun-fang - YAN, Jia-yu - LIU, Zhi-yong. Combined effects of independent variables on yield and protein content of pectin extracted from sugar beet pulp by citric acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 129, no., pp. 108-114., Registrované v: WOS

18. [1.1] LI, Junhui - LI, Shan - LIU, Shanshan - WEI, Chaoyang - YAN, Lufeng - DING, Tian - LINHARDT, Robert J. - LIU, Donghong - YE, Xingqian - CHEN, Shiguo. Pectic oligosaccharides hydrolyzed from citrus canning processing water by Fenton reaction and their antiproliferation potentials. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 124, no., pp. 1025-1032., Registrované v: WOS

19. [1.1] LI, Pei-jun - XIA, Jin-lan - NIE, Zhen-yuan - SHAN, Yang. Pectic oligosaccharides hydrolyzed from orange peel by fungal multi enzyme complexes and their prebiotic and antibacterial potentials. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2016, vol. 69, no., pp. 203-210., Registrované v: WOS

20. [1.1] LI, Qiu - FENG, Yanxian - HE, Wei - WANG, Lintao - WANG, Ruibing - DONG, Lei - WANG, Chunming. Post-screening characterisation and in vivo evaluation of an anti-inflammatory polysaccharide fraction from *Eucommia ulmoides*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 169, no., pp. 304-314., Registrované v: WOS

21. [1.1] MAO, Guizhu - WU, Dongmei - WEI, Chaoyang - TAO, Wenyang - YE, Xingqian - LINHARDT, Robert J. - ORFILA, Caroline - CHEN, Shiguo. Reconsidering conventional and innovative methods for pectin extraction from fruit and vegetable waste: Targeting rhamnogalacturonan I. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2019, vol. 94, no., pp. 65-78., Registrované v: WOS

22. [1.1] MINZANOVA, S. T. - MIRONOV, V. F. - VYSHTAKALYUK, A. B. - TSEPAEVA, O. V. - MIRONOVA, L. G. - KONOVALOV, A. I. Pectic polysaccharides from the plant *Amaranthus cruentus*. Water-soluble complexes of amaranth pectin with macro- and microelements. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2014, vol. 63, no. 9, pp. 2142-2155., Registrované v: WOS

23. [1.1] MUELLER-MAATSCH, Judith - BENCIVENNI, Mariangela - CALIGIANI, Augusta - TEDESCHI, Tullia - BRUGGEMAN, Geert - BOSCH, Montse - PETRUSAN, Janos - VAN DROOGENBROECK, Bart - ELST, Kathy - SFORZA, Stefano. Pectin content and composition from different food waste streams. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 201, no., pp. 37-45., Registrované v: WOS

24. [1.1] QU, Honglan - YANG, Wei - LI, Jie. Structural characterization of a polysaccharide from the flower buds of *Tussilago farfara*, and its effect on proliferation and apoptosis of A549 human non-small lung cancer cell line. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 113, no., pp. 849-858., Registrované v: WOS
25. [1.1] RAMOS DO PRADO, Samira Bernardino - SANTOS, Gustavo R. C. - MOURAO, Paulo A. S. - FABR, Joao Paulo. Chelate-soluble pectin fraction from papaya pulp interacts with galectin-3 and inhibits colon cancer cell proliferation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, no., pp. 170-178., Registrované v: WOS
26. [1.1] SEO, Soo Young - KANG, Yu-Ra - LEE, Yun-Kyung - LEE, Jin Hye - CHANG, Yoon Hyuk. Physicochemical, molecular, emulsifying and rheological characterizations of sage (*Salvia splendens*) seed gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 1174-1182., Registrované v: WOS
27. [1.1] SOCACI, Sonia A. - FARCAS, Anca C. - GALANAKIS, Charis M. Introduction in Functional Components for Membrane Separations. In SEPARATION OF FUNCTIONAL MOLECULES IN FOOD BY MEMBRANE TECHNOLOGY, 2019, vol., no., pp. 31-77., Registrované v: WOS
28. [1.1] SUKHENKO, Yuriy - MUSHTRUK, Mikhailo - VASYLIV, Volodimir - SUKHENKO, Vladislav - DUDCHENKO, Vladislav. Production of Pumpkin Pectin Paste. In ADVANCES IN DESIGN, SIMULATION AND MANUFACTURING II. ISSN 2195-4356, 2020, vol., no., pp. 805-812. Dostupné na: https://doi.org/10.1007/978-3-030-22365-6_80., Registrované v: WOS
29. [1.1] THOELE, Christian - BRANDT, Simone - AHMED, Niyaz - HENSEL, Andreas. Acetylated Rhamnogalacturonans from Immature Fruits of *Abelmoschus esculentus* Inhibit the Adhesion of *Helicobacter pylori* to Human Gastric Cells by Interaction with Outer Membrane Proteins. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 9, pp. 16770-16787., Registrované v: WOS
30. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
31. [1.1] WANG, Hailiang - GAO, Tingting - DU, Yuzhi - YANG, Hongxia - WEI, Lixin - BI, Hongtao - NI, Weihua. Anticancer and immunostimulating activities of a novel homogalacturonan from *Hippophae rhamnoides* L. berry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 288-296., Registrované v: WOS
32. [1.1] WANG, Ruhai - ZHU, Xiaofang - QIAN, Wei - HONG, Zhineng - TANG, Haoye - XU, Renkou - YU, Yuanchun. Pectin adsorption on amorphous Fe/Al hydroxides and its effect on surface charge properties and Cu(II) adsorption. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, 2017, vol. 17, no. 10, pp. 2481-2489., Registrované v: WOS
33. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In CRITICAL

REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na:

<https://doi.org/10.1080/10408398.2019.1672037>., Registrované v: WOS

34. [1.1] XU, Honggao - JIAO, Qiong - YUAN, Fang - GAO, Yanxiang. In vitro binding capacities and physicochemical properties of soluble fiber prepared by microfluidization pretreatment and cellulase hydrolysis of peach pomace. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 63, no. 1, pp. 677-684., Registrované v: WOS

35. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W. Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS

36. [1.1] ZHANG, Yu - PAN, Xianglin - RAN, Siqi - WANG, Kaiping. Purification, structural elucidation and anti-inflammatory activity in vitro of polysaccharides from Smilax china L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, no., pp. 233-243., Registrované v: WOS

37. [1.1] ZHAO, Jing - LIU, Wei - CHEN, Dong - ZHOU, Chunli - SONG, Yi - ZHANG, Yuyu - NI, Yuanying - LI, Quanhong. Microbiological and Physicochemical Analysis of Pumpkin Juice Fermentation by the Basidiomycetous Fungus Ganoderma lucidum. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2015, vol. 80, no. 2, pp. C241-C251., Registrované v: WOS

38. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

39. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvild - INNGJERDINGEN, Kari Tvete - HUANG, Chao - LEI, Fei-Yi - SONG, Xu - LI, Lixia - YE, Gang - ETICHA, Lemlem Dugassa - YIN, Zhongqiong - PAULSEN, Berit Smestad. Polysaccharides with immunomodulating activity from roots of Gentiana crassicaulis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 172, no., pp. 306-314., Registrované v: WOS

40. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvild - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI, Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of Ligusticum chuanxiong. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS

41. [1.1] ZOU, Yuan-Feng - ZHANG, Yan-Yun - PAULSEN, Berit Smestad - RISE, Frode - CHEN, Zheng-Li - JIA, Ren-Yong - LI, Li-Xia - SONG, Xu - FENG, Bin - TANG, Hua-Qiao - HUANG, Chao - YIN, Zhong-Qiong. Structural features of pectic polysaccharides from stems of two species of Radix Codonopsis and their antioxidant activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 704-713. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.083>.,

Registrované v: WOS

42. [1.1] ZWECKMAIR, Thomas - HETTEGGER, Hubert - ABUSHAMMALA, Hatem - BACHER, Markus - POTTHAST, Antje - LABORIE, Marie-Pierre - ROSENAU, Thomas. On the mechanism of the unwanted acetylation of polysaccharides by 1,3-dialkylimidazolium acetate ionic liquids: part 1-analysis, acetylating agent, influence of water, and mechanistic considerations. In *CELLULOSE*. ISSN 0969-0239, 2015, vol. 22, no. 6, pp. 3583-3596., Registrované v: WOS
43. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcayota Gum Films: Experimental Reviews. In: *JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING*. ISSN 2327-6045, Vol. 6 (2018), p. 11-58

ADCA712 KOVÁCS, László - HLA VATÁ, A. - BALDOVIČ, Marián - PAULOVÍČOVÁ, Ema - DALLOS, Tomáš - FÉHERVÍZIOVÁ, Zuzana - KÁDAŠI, Ľudevít. Elevated immunoglobulin D levels in children with PFAPA syndrome. In *Neuroendocrinology Letters*, 2010, vol. 31, p. 743-746. (2009: 1.047 - IF, Q4 - JCR, 0.440 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] BATU, Ezgi Deniz. Periodic fever, aphthous stomatitis, pharyngitis, and cervical adenitis (PFAPA) syndrome: main features and an algorithm for clinical practice. In *RHEUMATOLOGY INTERNATIONAL*. ISSN 0172-8172, 2019, vol. 39, no. 6, pp. 957-970., Registrované v: WOS
2. [1.1] CATTALINI, Marco - SOLIANI, Martina - RIGANTE, Donato - LOPALCO, Giuseppe - IANNONE, Florenzo - GALEAZZI, Mauro - CANTARINI, Luca. Basic Characteristics of Adults with Periodic Fever, Aphthous Stomatitis, Pharyngitis, and Adenopathy Syndrome in Comparison with the Typical Pediatric Expression of Disease. In *MEDIATORS OF INFLAMMATION*. ISSN 0962-9351, 2015, vol. 2015, no., pp., Registrované v: WOS
3. [1.1] DI GIOIA, Silvio Alessandro - BEDONI, Nicola - VON SCHEVEN-GETE, Annette - VANONI, Federica - SUPERTI-FURGA, Andrea - HOFER, Michael - RIVOLTA, Carlo. Analysis of the genetic basis of periodic fever with aphthous stomatitis, pharyngitis, and cervical adenitis (PFAPA) syndrome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
4. [1.1] CHAITOW, Jeffrey. PFAPA: Periodic Fever, Aphthous Ulceration, Pharyngitis, Adenitis. In *PERIODIC AND NON-PERIODIC FEVERS*. ISSN 2282-6505, 2020, vol., no., pp. 27-44. Dostupné na: https://doi.org/10.1007/978-3-030-19055-2_3., Registrované v: WOS
5. [1.1] KISAARSLAN, Aysenur Pac - UNSUR, Emel Kabakoglu - SOZERI, Betul. Current Diagnosis and Treatment Models of Periodic Fever, Aphthous Stomatitis, Pharyngitis and Cervical Lymphadenitis Syndrome. In *JOURNAL OF PEDIATRIC RESEARCH*. ISSN 2147-9445, 2017, vol. 4, no. 2, pp. 42-45., Registrované v: WOS

ADCA713 KOVÁČ, Pavol - PETRÍKOVÁ, M. Alternative syntheses of methylated sugars. Part III. Methyl furanosides of 3-O-methyl- and 2,3-di-O-methyl-D-xylose. In *Carbohydrate Research*, 1971, vol. 19, p. 249-251. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)81626-2](https://doi.org/10.1016/S0008-6215(00)81626-2)

Ohlasy:

1. [1.2] CORKRAN, Hilary M. - DANGERFIELD, Emma M. - HASLETT, Gregory W. - STOCKER, Bridget L. - TIMMER, Mattie S.M. Synthesis and anti-tuberculosis activity of glycitylamines. In *Bioorganic and Medicinal Chemistry*. ISSN 09680896, 2016-02-15, 24, 4, pp. 693-702., Registrované v: SCOPUS

ADCA714 KOVÁČ, Pavol - HIRSCH, Ján. Sequential synthesis of ¹³C-NMR spectra of methyl-β- glycosides of (1→4)-β-D-xylo-oligosaccharides. In *Carbohydrate Research*, 1982, vol. 100, p. 177-193. ISSN 0008-6215.

Ohlasy:

1. [1.1] PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS
2. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
3. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In *Chemical Reviews*. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS

ADCA715 KOVÁČ, Pavol - HIRSCH, Ján - KOVÁČIK, Vladimír - PETRÁKOVÁ, Eva. Synthesis and reactions of uronic acid derivatives. XIX. The stepwise synthesis of an aldopentauronic acid related to branched (4-O-methylglucurono) xylans. In *Carbohydrate Research*, 1980, vol. 85, p. 41-49. ISSN 0008-6215.

Ohlasy:

1. [1.1] PAL, Rita - DAS, Anupama - JAYARAMAN, Narayanaswamy. One-pot oligosaccharide synthesis: latent-active method of glycosylations and radical halogenation activation of allyl glycosides. In *PURE AND APPLIED CHEMISTRY*. ISSN 0033-4545, 2019, vol. 91, no. 9, pp. 1451-1470., Registrované v: WOS
2. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS
3. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In *Chemical Reviews*. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS

ADCA716 KOVÁČ, Pavol - HIRSCH, Ján. Systematic synthesis of (1→4)-β-D-xylooligosaccharides and their methyl β-glycosides. In *Carbohydrate Research*, 1981, vol. 90, c5-C7. ISSN 0008-6215.

Ohlasy:

1. [1.1] PAL, Rita - DAS, Anupama - JAYARAMAN, Narayanaswamy. One-pot oligosaccharide synthesis: latent-active method of glycosylations and radical halogenation activation of allyl glycosides. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2019, vol. 91, no. 9, pp. 1451-1470., Registrované v: WOS
2. [1.1] PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS
3. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In Chemical Reviews. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS

ADCA717 KOVÁČ, P. - HIRSCH, Ján - SHASHKOV, A.S. - USOV, A.I. - YAROTSKY, S.V. ¹³C-NMR spectra of xylooligosaccharides and their application to the elucidation of xylan structure. In *Carbohydrate Research*, 1980, vol. 85, p. 177-185. ISSN 0008-6215.

Ohlasy:

1. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of tucuma (*Astrocaryum aculeatum*), a commelinid monocotyledon from the family Arecaceae. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS
2. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleraceae*). In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS

ADCA718 KOVÁČIK, Vladimír - KOMPIŠ, I. Alkaloids from *Vinca minor*. XXIII. Mass spectrometry of eburnamine-type alkaloids. In *Collection of Czechoslovak Chemical Communications*, 1969, vol. 34, p. 2809-2818. ISSN 0010-0765.

Ohlasy:

1. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. Treatment of *Vinca minor* Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS
2. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SELMAR, Dirk. Stress-induced modification of indole alkaloids: Phytomodificines as a new category of specialized metabolites. In PHYTOCHEMISTRY. ISSN 0031-9422, 2019, vol. 159, no., pp. 102-107., Registrované v: WOS
3. [1.1] AKHGARI, Amir - LAAKSO, Into - SEPPANEN-LAAKSO, Tuulikki - YRJONEN, Teijo - VUORELA, Heikki - OKSMAN-CALDENTY, Kirsi-Marja - RISCHER, Heiko. Analysis of Indole Alkaloids from *Rhazya stricta* Hairy Roots by Ultra-Performance Liquid Chromatography-Mass

Spectrometry. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 12, pp. 22621-22634., Registrované v: WOS

- ADCA719 KOVÁČIK, Vladimír - PÄTOPRSTÝ, Vladimír - OKSMAN, P. - MISTRÍK, R. - KOVÁČ, P. Electron ionization mass spectrometric study of monomeric models of O-polysaccharides of *Vibrio cholerae* O:1, serotypes Ogawa and Inaba. In *Journal of Mass Spectrometry*, 2003, vol. 38, p. 924-930. (2003 - Current Contents). ISSN 1076-5174.

Ohlasy:

1. [1.1] SAINT HILAIRE, Pierre Barbier - WARNET, Anna - GIMBERT, Yves - HOHENESTER, Ulli Martin - GIORGI, Gianluca - OLIVIER, Marie-Francoise - FENAILLE, Francois - COLSCH, Benoit - JUNOT, Christophe - TABET, Jean-Claude. Mechanistic study of competitive releases of H₂O, NH₃ and CO₂ from deprotonated aspartic and glutamic acids: Role of conformation. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2017, vol. 1047, no., pp. 64-74., Registrované v: WOS

- ADCA720 KOVÁČIK, Vladimír - GRUTZMACHER, H.F. Mass-analysed ion kinetic energy and collisional activation spectra of clusters of per-O-methylated β -D-xylotriose with protonated reagents formed under the conditions of chemical ionization. In *Organic Mass Spectrometry*, 1990, vol. 25, p. 687-688.

Ohlasy:

1. [1.1] BANOUB, Joseph H. - DEMIAN, Wael L. L. - PIAZZETTA, Paolo - SARKIS, George - KANAWATI, Basem - LAFONT, Dominique - LAURENT, Nicolas - VAILLANT, Celine - RANDELL, Edward - GIORGI, Gianluca - FRIDGEN, Travis D. The in situ gas-phase formation of a C-glycoside ion obtained during electrospray ionization tandem mass spectrometry. A unique intramolecular mechanism involving an ion-molecule reaction. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2015, vol. 29, no. 19, pp. 1717-1732., Registrované v: WOS

- ADCA721 KOVÁČIK, Vladimír - HIRSCH, Ján - KOVÁČ, Pavol - HEERMA, W. - THOMASOATES, J. - HAVERKAMP, J. Oligosaccharide characterization using collision-induced dissociation fast-atom-bombardment mass spectrometry - evidence for internal monosaccharide residue loss. In *Journal of Mass Spectrometry*, 1995, vol. 30, p. 949-958. ISSN 1076-5174. Dostupné na: <https://doi.org/10.1002/jms.1190300704>

Ohlasy:

1. [1.1] AGYEKUM, Isaac - PEPI, Lauren - YU, Yanlei - LI, Junhui - YAN, Lufeng - LINHARDT, Robert J. - CHEN, Shiguo - AMSTER, I. Jonathan. Structural elucidation of fucosylated chondroitin sulfates from sea cucumber using FTICR-MS/MS. In EUROPEAN JOURNAL OF MASS SPECTROMETRY. ISSN 1469-0667, 2018, vol. 24, no. 1, pp. 157-167., Registrované v: WOS

2. [1.1] BANOUB, Joseph H. - DEMIAN, Wael L. L. - PIAZZETTA, Paolo - SARKIS, George - KANAWATI, Basem - LAFONT, Dominique - LAURENT, Nicolas - VAILLANT, Celine - RANDELL, Edward - GIORGI, Gianluca - FRIDGEN, Travis D. The in situ gas-phase formation of a

C-glycoside ion obtained during electrospray ionization tandem mass spectrometry. A unique intramolecular mechanism involving an ion-molecule reaction. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2015, vol. 29, no. 19, pp. 1717-1732., Registrované v: WOS

3. [1.1] LETTOW, Maike - MUCHA, Eike - MANZ, Christian - THOMAS, Daniel A. - MARIANSKI, Mateusz - MEIJER, Gerard - VON HELDEN, Gert - PAGEL, Kevin. The role of the mobile proton in fucose migration. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 19, pp. 4637-4645., Registrované v: WOS

4. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. New strategies for profiling and characterization of human milk oligosaccharides. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786. Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>., Registrované v: WOS

5. [1.1] WONG, Y-L. Elaine - CHEN, Xiangfeng - LI, Wan - WANG, Ze - HUNG, Y.L. Winnie - WU, Ri - CHAN, T.W. Dominic. Differentiation of Isomeric Ginsenosides by Using Electron-Induced Dissociation Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 11, pp. 5590-5594., Registrované v: WOS

6. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In Analysis of Post-Translational Modifications Using Mass Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA722 KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka - PÄTOPRSTÝ, Vladimír - ŘEHULKA, P. - CHMELÍK, J. - KOVÁČ, P. Positive-ion fragmentation in matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry of synthetic analogs of the O-specific polysaccharide of *Vibrio cholerae* O:1. In *European Journal of Mass Spectrometry*, 2006, vol. 12, p. 247-252. (2005: 1.261 - IF, Q3 - JCR, 0.604 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 1469-0667. Dostupné na: <https://doi.org/10.1255/ejms.807>

Ohlasy:

1. [1.1] AFANAS'EV, M. V. - MIRONOVA, L. V. - BALAKHONOV, S. V. MALDI-ToF mass spectrometric analysis for the identification of plague, cholera, and tularemia causative agents. In MOLECULAR GENETICS MICROBIOLOGY AND VIROLOGY. ISSN 0891-4168, 2015, vol. 30, no. 2, pp. 57-63., Registrované v: WOS

2. [3.2] AFANAS'EV, M V; MIRONOVA, L V; BALAKHONOV, S V.: [Maldi-tof ms analysis for yersinia pestis, vibrio cholera, and francisella tularensis identification]. IN Molekuliarnaia genetika, mikrobiologiya i virusologiya, 2015, vol. 33, iss. 2, p. 3-8., Registrované v: MEDLINE

ADCA723 SMRTIČOVÁ, Hana - ČANIGOVÁ, Margita - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Enzymatic preparation of melibiose and alkyl beta-D-fructofuranosides by commercial lactase. In *Journal of Molecular Catalysis B - Enzymatic*, 2011, vol. 72, p. 53-56. (2010: 2.330 - IF, Q2 - JCR, 0.813 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2011.04.024>

Ohlasy:

1. [1.1] KEGEL, Laurel L. - SZABO, Lajos Z. - POLT, Robin -

PEMBERTON, Jeanne E. Alkyl melibioside and alkyl cellobioside surfactants: effect of sugar headgroup and alkyl chain length on performance. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 16, pp. 4446-4460., Registrované v: WOS

2. [1.1] XU, Wei - YU, Shuhuai - LIU, Qian - ZHANG, Tao - JIANG, Bo - MU, Wanmeng. Enzymatic Production of Melibiose from Raffinose by the Levansucrase from *Leuconostoc mesenteroides* B-512 FMC. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 19, pp. 3910-3918., Registrované v: WOS

ADCA724 KOZMON, Stanislav - TVAROŠKA, Igor. Catalytic mechanism of glycotransferases: Hybrid quantum mechanical/molecular mechanical study of the inverting N-acetylglucosaminyl-transferase. In *Journal of the American Chemical Society*, 2006, vol. 128, p. 16921-16927. (2005: 7.419 - IF, Q1 - JCR, 4.413 - SJR, Q1 - SJR). ISSN 0002-7863.

Ohlasy:

1. [1.1] ARDEVOL, Albert - ROVIRA, Carme. Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 24, pp. 7528-7547., Registrované v: WOS

2. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS

3. [1.1] COTE, Joy M. - TAYLOR, Erika A. The Glycosyltransferases of LPS Core: A Review of Four Heptosyltransferase Enzymes in Context. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 11, pp., Registrované v: WOS

4. [1.1] GERLACH, David - GUO, Yinglan - DE CASTRO, Cristina - KIM, Sun-Hwa - SCHLATTERER, Katja - XU, Fei-Fei - PEREIRA, Claney - SEEBERGER, Peter H. - ALI, Sara - CODEE, Jeroen - SIRISARN, Wanchat - SCHULTE, Berit - WOLZ, Christiane - LARSEN, Jesper - MOLINARO, Antonio - LEE, Bok Luel - XIA, Guoqing - STEHLE, Thilo - PESCHEL, Andreas. Methicillin-resistant *Staphylococcus aureus* alters cell wall glycosylation to evade immunity. In NATURE. ISSN 0028-0836, 2018, vol. 563, no. 7733, pp. 705-+, Registrované v: WOS

5. [1.1] KNOTT, Brandon C. - CROWLEY, Michael F. - HIMMEL, Michael E. - ZIMMER, Jochen - BECKHAM, Gregg T. Simulations of cellulose translocation in the bacterial cellulose synthase suggest a regulatory mechanism for the dimeric structure of cellulose. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 5, pp. 3108-3116., Registrované v: WOS

6. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol.

18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>.,
Registrované v: WOS

7. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG, Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms and applications in natural product development. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374.,
Registrované v: WOS

8. [1.1] MAYES, Heather B. - KNOTT, Brandon C. - CROWLEY, Michael F. - BROADBELT, Linda J. - STAHLBERG, Jerry - BECKHAM, Gregg T. Who's on base? Revealing the catalytic mechanism of inverting family 6 glycoside hydrolases. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 9, pp. 5955-5968., Registrované v: WOS

9. [1.1] SI, Zaiyong - YANG, Qianqian - LIANG, Rongrong - CHEN, Ling - CHEN, Dasong - LI, Youguo. Digalactosyldiacylglycerol Synthase Gene MtDGD1 Plays an Essential Role in Nodule Development and Nitrogen Fixation. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2019, vol. 32, no. 9, pp. 1196-1209., Registrované v: WOS

10. [1.1] SOBHANIFAR, Solmaz - WORRALL, Liam J. - KING, Dustin T. - WASNEY, Gregory A. - BAUMANN, Lars - GALE, Robert T. - NOSELLA, Michael - BROWN, Eric D. - WITHERS, Stephen G. - STRYNADKA, Natalie C. J. Structure and Mechanism of Staphylococcus aureus TarS, the Wall Teichoic Acid beta-glycosyltransferase Involved in Methicillin Resistance. In PLOS PATHOGENS. ISSN 1553-7366, 2016, vol. 12, no. 12, pp., Registrované v: WOS

11. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625.
Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS

ADCA725 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Vojtech - KOČA, Jaroslav. Dispersion interactions of carbohydrates with condensate aromatic moieties: Theoretical study on the CH- π interaction additive properties. In *Physical Chemistry Chemical Physics*, 2011, vol. 13, p. 14215-14222. (2010: 3.454 - IF, Q1 - JCR, 1.817 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c1cp21071h>

Ohlasy:

1. [1.1] HAYASHI, Satoko - SUGIBAYASHI, Yuji - NAKANISHI, Waro. Quantum chemical calculations with the AIM approach applied to the π -interactions between hydrogen chalcogenides and naphthalene. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 55, pp. 49651-49660.,
Registrované v: WOS

2. [1.1] HAYASHI, Satoko - SUGIBAYASHI, Yuji - NAKANISHI, Waro. Behavior of interactions between hydrogen chalcogenides and an anthracene π -system elucidated by QTAIM dual functional analysis with QC calculations. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 51, pp. 31858-31865., Registrované v: WOS

3. [1.1] HUDSON, Kieran L. Carbohydrate-Based Interactions at the Molecular and the Cellular Level Introduction. In CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL.

- ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS
4. [1.1] CHU, Tian-shu - LIU, Bai-tong. Establishing new mechanisms with triplet and singlet excited-state hydrogen bonding roles in photoinduced liquid dynamics. In INTERNATIONAL REVIEWS IN PHYSICAL CHEMISTRY. ISSN 0144-235X, 2016, vol. 35, no. 2, pp. 187-208., Registrované v: WOS
5. [1.1] KOZŁOWSKA, Mariana - MEYER, Bernd - RODZIEWICZ, Pawel. Single-walled carbon nanotubes in tetrahydrofuran solution: microsolvation from first-principles calculations. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2019, vol. 25, no. 7, pp., Registrované v: WOS
6. [1.1] LANSKY, Shifra - SALAMA, Rachel - SHULAMI, Smadar - LAVID, Noa - SEN, Saumik - SCHAPIRO, Igor - SHOHAM, Yuval - SHOHAM, Gil. Carbohydrate-Binding Capability and Functional Conformational Changes of AbnE, an Arabino-oligosaccharide Binding Protein. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, 2020, vol. 432, no. 7, pp. 2099-2120. Dostupné na: <https://doi.org/10.1016/j.jmb.2020.01.041.>, Registrované v: WOS
7. [1.1] LEE, Ka Hung - SCHNUPF, Udo - SUMPTER, Bobby G. - IRLE, Stephan. Performance of Density-Functional Tight-Binding in Comparison to Ab Initio and First-Principles Methods for Isomer Geometries and Energies of Glucose Epimers in Vacuo and Solution. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 16899-16915., Registrované v: WOS
8. [1.1] LI MIN-MIN - XIONG YU-TING - QING GUANG-YAN - SUN TAO-LEI. Advances in CH- π Interactions Between Carbohydrate and Protein. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2016, vol. 43, no. 2, pp. 115-127., Registrované v: WOS
9. [1.1] ROZADA, Thiago C. - DE MELO, Ulisses Z. - PONTES, Rodrigo M. - RITTNER, Roberto - BASSO, Ernani A. Facial Selectivity between Carbohydrates and Aromatic Amino Acids Explained by a Combination of NCI, NBO and EDA Techniques with NMR Spectroscopy. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2019, vol. 30, no. 5, pp. 948-967., Registrované v: WOS
10. [1.1] SHEN, Chao - GONG, Zhenyu - GAO, Lei - GU, Minglong - HUAN, Long - WANG, Sicong - XIE, Ju. Theoretical study on host-guest interaction between pillar[4]arene and molecules or ions. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2018, vol. 24, no. 8, pp., Registrované v: WOS
11. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702.>, Registrované v: WOS
12. [1.1] STANKOVIC, Ivana M. - FILIPOVIC, Jelena P. Blagojevic - ZARIC, Snezana D. Carbohydrate Protein aromatic ring interactions beyond CH/ π interactions: A Protein Data Bank survey and quantum chemical calculations. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.251.>, Registrované v: WOS
13. [1.1] VITNIK, Zeljko J. - FABIAN, Walter M. F. Ring- and

side-group conformational properties of di-O-acylated xylopyranosides: A computational study. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2015, vol. 1051, no., pp. 104-109., Registrované v: WOS

14. [1.1] YANG, Hua - LIU, Yan-Lin - TAO, Yuan-Yuan - YANG, Wei - YANG, Chun-Ping - ZHANG, Jing - QIAN, Li-Zhi - LIU, Hao - WANG, Zhi-Yong. Bioinformatic and biochemical analysis of the key binding sites of the pheromone binding protein of *Cyrtotrachelus buqueti* Guerin-Meneville (Coleoptera: Curculionidea). In PEERJ. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS

15. [1.2] WILSON, Katie A. - WETMORE, Stacey D. A Survey of DNA-Protein π -Interactions: A Comparison of Natural Occurrences and Structures, and Computationally Predicted Structures and Strengths. In Challenges and Advances in Computational Chemistry and Physics. ISSN 25424491, 2015-01-01, 19, pp. 501-532., Registrované v: SCOPUS

ADCA726 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Vojtech - KOČA, Jaroslav. Three-dimensional potential energy surface of selected carbohydrates'CH/ π dispersion interactions calculated by high-level quantum mechanical methods. In *Chemistry - A European Journal*, 2011, vol. 17, p. 5680-5690. (2010: 5.476 - IF, Q1 - JCR, 2.791 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201002876>

Ohlasy:

1. [1.1] LANSKY, Shifra - SALAMA, Rachel - SHULAMI, Smadar - LAVID, Noa - SEN, Saumik - SCHAPIRO, Igor - SHOHAM, Yuval - SHOHAM, Gil. Carbohydrate-Binding Capability and Functional Conformational Changes of AbnE, an Arabino-oligosaccharide Binding Protein. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, 2020, vol. 432, no. 7, pp. 2099-2120. Dostupné na: <https://doi.org/10.1016/j.jmb.2020.01.041>., Registrované v: WOS

2. [1.1] LEHNHERR, Dan - ADAM, Matthias - MURRAY, Adrian H. - MCDONALD, Robert - HAMPEL, Frank - TYKWINSKI, Rik R. Synthesis, physical properties, and chemistry of donor-acceptor-substituted pentacenes. In CANADIAN JOURNAL OF CHEMISTRY. ISSN 0008-4042, 2017, vol. 95, no. 3, pp. 303-314., Registrované v: WOS

3. [1.1] ROZADA, Thiago C. - DE MELO, Ulisses Z. - PONTES, Rodrigo M. - RITTNER, Roberto - BASSO, Ernani A. Facial Selectivity between Carbohydrates and Aromatic Amino Acids Explained by a Combination of NCI, NBO and EDA Techniques with NMR Spectroscopy. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2019, vol. 30, no. 5, pp. 948-967., Registrované v: WOS

4. [1.1] STANKOVIC, Ivana M. - FILIPOVIC, Jelena P. Blagojevic - ZARIC, Snezana D. Carbohydrate Protein aromatic ring interactions beyond CH/ π interactions: A Protein Data Bank survey and quantum chemical calculations. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.251>., Registrované v: WOS

5. [1.1] TOIKKA, Yulia N. - MIKHERDOV, Alexander S. - IVANOV, Daniil M. - MOOIBROEK, Tiddo J. - BOKACH, Nadezhda A. - KUKUSHKIN,

Vadim Yu. Cyanamides as pi-Hole Donor Components of Structure-Directing (Cyanamide)...Arene Noncovalent Interactions. In CRYSTAL GROWTH & DESIGN. ISSN 1528-7483, 2020, vol. 20, no. 7, pp. 4783-4793. Dostupné na: <https://doi.org/10.1021/acs.cgd.0c00561>., Registrované v: WOS

6. [1.2] WILSON, Katie A. - WETMORE, Stacey D. A Survey of DNA-Protein π -Interactions: A Comparison of Natural Occurrences and Structures, and Computationally Predicted Structures and Strengths. In Challenges and Advances in Computational Chemistry and Physics. ISSN 25424491, 2015-01-01, 19, pp. 501-532., Registrované v: SCOPUS

ADCA727 KRAJČOVIČ, Tomáš - BUČKO, Marek - VIKARTOVSKÁ, Alica - LACÍK, Igor - UHELSKÁ, Lucia - CHORVÁT, Dušan - NEDĚLA, Vilém - TIHLAŘÍKOVÁ, Eva - GERICKE, Martin - HEINZE, Thomas - GEMEINER, Peter. Polyelectrolyte complex beads by novel two-step process for improved performance of viable whole-cell Bayeyer-Villiger monooxygenase by immobilization. In *Catalyst*, 2017, vol. 7, no. 11, art. no. 353. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 2073-4344. *Grunwald Peter, ed. Immobilized Biocatalysts 2018*, p. 130-141. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, Current Contents - CCC). ISSN 978-3-03897-318-8. Dostupné na: <https://doi.org/10.3390/catal7110353>

Ohlasy:

1. [1.1] CALABRESE, V. - CALIFANO, D. - DA SILVA, M.A. - SCHMITT, J. - BRYANT, S.J. - HOSSAIN, K.M.Z. - PERCEBOM, A.M. - GRAMATGES, A.P. - SCOTT, J.L. - EDLER, K.J. Core-Shell Spheroidal Hydrogels Produced via Charge-Driven Interfacial Complexation. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, MAR 2020, vol. 2, no. 3, p. 1213-1221., Registrované v: WOS

2. [1.1] FURST, M.J.L.J. - GRAN-SCHEUCH, A. - AALBERS, F.S. - FRAAIJE, M.W. Baeyer-Villiger Monooxygenases: Tunable Oxidative Biocatalysts. In ACS CATALYSIS. ISSN 2155-5435, DEC 2019, vol. 9, no. 12, p. 11207-11241., Registrované v: WOS

3. [1.1] GRUNWALD, P. Immobilized Biocatalysts. In CATALYSTS. ISSN 2073-4344, SEP 2018, vol. 8, no. 9., Registrované v: WOS

4. [1.1] JEANNOT, L. - BELL, M. - ASHWELL, R. - VOLODKIN, D. - VIKULINA, A.S. Internal Structure of Matrix-Type Multilayer Capsules Templated on Porous Vaterite CaCO₃ Crystals as Probed by Staining with a Fluorescence Dye. In MICROMACHINES. ISSN 2072-666X, NOV 2018, vol. 9, no. 11., Registrované v: WOS

5. [1.1] LI, F.L. - ZHUANG, M.Y. - SHEN, J.J. - FAN, X.M. - CHOI, H. - LEE, J.K. - ZHANG, Y.W. Specific Immobilization of Escherichia coli Expressing Recombinant Glycerol Dehydrogenase on Mannose-Functionalized Magnetic Nanoparticles. In CATALYSTS. JAN 2019, vol. 9, no. 1., Registrované v: WOS

6. [3.1] JOSHI, K.S.; SONAWANE, R.O.; IGE, P.P.; BHAVSA, S.K. Polyelectrolyte complex for pharmaceutical aid. IN International Journal Of Creative and Innovative Research, 2019, vol. 1, iss. 12, p. 69-99.

ADCA728 KRAMÁROVÁ, Z. - ALEXY, P. - CHODÁK, Ivan - ŠPIRK, E. - HUDEC, I. - KOŠÍKOVÁ, Božena - GREGOROVÁ, Anna - ŠÚRI, P. - FERANC, J. - BUGAJ, P. - ĎURAČKA, M. Biopolymers as fillers for rubber blends. In *Polymers for*

Advanced Technologies, 2007, vol. 18, p. 132-140. (2006: 1.406 - IF, Q2 - JCR, 0.697 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 1042-7147.

Ohlasy:

1. [1.1] FORMELA, Krzysztof - HEJNA, Aleksander - PISZCZYK, Aukasz - SAEED, Mohammad Reza - COLOM, Xavier. Processing and structure-property relationships of natural rubber/wheat bran biocomposites. In *CELLULOSE*. ISSN 0969-0239, 2016, vol. 23, no. 5, pp. 3157-3175., Registrované v: WOS
2. [1.1] GILL, Y.Q. - SAEED, F. - IRFAN, M.S. - EHSAN, H. - SHAKOOR, A. Hybrid NBR/Chitosan/Nano-Silanised Silica Based Green Rubber Products. In *JOURNAL OF RUBBER RESEARCH*. ISSN 1511-1768, 2018, vol. 21, no. 3, p. 194-208., Registrované v: WOS
3. [1.1] ION, S. - OPRIS, C. - COJOCARU, B. - TUDORACHE, M. - ZGURA, I. - GALCA, A.C. - BODESCU, A.M. - ENACHE, M. - MARIA, G.M. - PARVULESCU, V.I. One-Pot Enzymatic Production of Lignin-Composites. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, APR 20 2018, vol. 6., Registrované v: WOS
4. [1.1] JOY, J. - JOSE, C. - YU, X.Y. - MATHEW, L. - THOMAS, S. - PILLA, S. The influence of nanocellulosic fiber, extracted from *Helicteres isora*, on thermal, wetting and viscoelastic properties of poly(butylene succinate) composites. In *CELLULOSE*. ISSN 0969-0239, OCT 2017, vol. 24, no. 10, p. 4313-4323., Registrované v: WOS
5. [1.1] O'DEA, R.M. - WILLIE, J.A. - EPPS, T.H. 100th Anniversary of Macromolecular Science Viewpoint: Polymers from Lignocellulosic Biomass. Current Challenges and Future Opportunities. In *ACS MACRO LETTERS*. APR 21 2020, vol. 9, no. 4, p. 476-493., Registrované v: WOS
6. [1.1] ROY, K. - DEBNATH, S.C. - POTIYARAJ, P. A Review on Recent Trends and Future Prospects of Lignin Based Green Rubber Composites. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, FEB 2020, vol. 28, no. 2, p. 367-387., Registrované v: WOS
7. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
8. [1.2] IVANOVA, S. F. - PETROVA, N. N. Polyfunctional materials based on collagen Hydrolysate obtained from swim bladders of northern fish species. In *Materials Science Forum*. ISSN 02555476, 2018-01-01, 945 MSF, pp. 422-427., Registrované v: SCOPUS
9. [1.2] IVANOVA, S.F.- PETROVA, N.N. Collagen-containing products derived from the swim bladders of northern fish and their application. (2019) *IOP Conference Series: Earth and Environmental Science*, 320 (1), art. no. 012061, Registrované v: Scopus
10. [1.2] MOKHOTHU, Thabang H. - JOHN, Maya J. Bio-based fillers for environmentally friendly composites. In *Handbook of Composites from Renewable Materials*, 2017-01-01, 1-8, pp. 243-270., Registrované v: SCOPUS
11. [1.2] PRAKASH, Aditya - SINGH, Rawel - BALAGURUMURTHY, Bhavya - BHASKAR, Thallada - ARORA, Ajay K. - PURI, S. K. Thermochemical Valorization of Lignin. In *Recent Advances in Thermochemical Conversion of Biomass*, 2015-02-02, pp. 455-478., Registrované v: SCOPUS

ADCA729 KRÁTKY, Z. - BIELY, Peter - BAUER, Štefan. Mechanism of 2-deoxy-D-glucose inhibition of cell wall polysaccharide and glycoprotein biosyntheses in *Saccharomyces cerevisiae*. In *European Journal of Biochemistry*, 1975, vol. 54, p. 459-467. ISSN 0014-2956.

Ohlasy:

1. [1.1] DEFENOUILLE, Quentin - VERRAES, Agathe - LAUSSEL, Clotilde - FRIEDRICH, Anne - SCHACHERER, Joseph - LEON, Sebastien. The induction of HAD-like phosphatases by multiple signaling pathways confers resistance to the metabolic inhibitor 2-deoxyglucose. In *SCIENCE SIGNALING*. ISSN 1945-0877, 2019, vol. 12, no. 597, pp., Registrované v: WOS
2. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS
3. [1.1] LE POGAM, Pierre - DOUE, Mickael - LE PAGE, Yann - HABAUZIT, Denis - ZHADOBOV, Maxim - SAULEAU, Ronan - LE DREAN, Yves - RONDEAU, David. Untargeted Metabolomics Reveal Lipid Alterations upon 2-Deoxyglucose Treatment in Human HaCaT Keratinocytes. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2018, vol. 17, no. 3, pp. 1146-1157., Registrované v: WOS
4. [1.1] O'DONNELL, Allyson F. - MCCARTNEY, Rhonda R. - CHANDRASHEKARAPPA, Dakshayini G. - ZHANG, Bob B. - THORNER, Jeremy - SCHMIDT, Martin C. 2-Deoxyglucose Impairs *Saccharomyces cerevisiae* Growth by Stimulating Snf1-Regulated and alpha-Arrestin-Mediated Trafficking of Hexose Transporters 1 and 3. In *MOLECULAR AND CELLULAR BIOLOGY*. ISSN 0270-7306, 2015, vol. 35, no. 6, pp. 939-955., Registrované v: WOS
5. [1.1] VISHWANATHA, Akshay - RALLIS, Charalampos - SUBRAMANYASWAMY, Shubha Beval - D'SOUZA, Cletus Joseph Michael - BAHLER, Jurg - SCHWEINGRUBER, Martin Ernst. Identification of nuclear genes affecting 2-Deoxyglucose resistance in *Schizosaccharomyces pombe*. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2016, vol. 16, no. 6, pp., Registrované v: WOS
6. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus Joseph Michael. Multifaceted Effects of Antimetabolite and Anticancer Drug, 2-Deoxyglucose on Eukaryotic Cancer Models Budding and Fission Yeast. In *IUBMB LIFE*. ISSN 1521-6543, 2017, vol. 69, no. 3, pp. 137-147., Registrované v: WOS
7. [1.1] VISHWANATHA, Akshay - D'SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. Genes Controlling 2-deoxyglucose Induced Lysis and Formation of Reactive Oxygen Species in *Schizosaccharomyces pombe*. In *POLISH JOURNAL OF MICROBIOLOGY*. ISSN 1733-1331, 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS
8. [1.1] ZHANG, Ning - FAN, Yuxuan - LI, Chen - WANG, Qiming - LEKSAWASDI, Noppol - LI, Fuli - WANG, Shi'an. Cell permeability and nuclear DNA staining by propidium iodide in basidiomycetous yeasts. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4183-4191., Registrované v: WOS

ADCA730 KRATOCHVÍLOVÁ, Irena - ASHCHEULOV, Petr - KOVALENKO, Alexander - ZÁLIŠ, Stanislav - LEDVINA, Miroslav - MIČOVÁ, Júlia.
Luminiscent diamond nanoparticles: physical, chemical and biological aspects of the phenomenon. In *Journal of Nanoscience and Nanotechnology*, 2015, vol. 15, p. 1000-1005. (2014: 1.556 - IF, Q2 - JCR, 0.327 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1533-4880.

Ohlasy:

1. [1.1] BORULEVA, E. A. - CHUDINOVA, G. K. - NAGOVITSIN, I. A. Optical studies of nanodiamonds interaction with some compounds important for medicine. In *LASER PHYSICS LETTERS*. ISSN 1612-2011, 2019, vol. 16, no. 5, pp., Registrované v: WOS

ADCA731 KRATOCHVÍLOVÁ, Irena - GOLAN, Martin - POMEISL, Karel - RICHTER, Jan - SEDLÁKOVÁ, Silvia - ŠEBERA, Jakub - MIČOVÁ, Júlia - FALK, Martin - FALKOVÁ, Iva - ŘEHA, David - ELLIOT, K. Wade - VARGA, Krisztina - FOLLET, Shelby E. - ŠIMEK, Daniel. Theoretical and experimental study of the antifreeze protein AFP752, trehalose and dimethyl sulfoxide cryoprotection mechanism: correlation with cryopreserved cell viability. In *RSC Advances*, 2017, vol. 7, no. 1, p. 352-360. (2016: 3.108 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 2046-2069.
Dostupné na: <https://doi.org/10.1039/c6ra25095e>

Ohlasy:

1. [1.1] DIAZ-DUSSAN, Diana - PENG, Yi-Yang - SENGUPTA, Jayeeta - ZABLUDOWSKI, Rebecca - ADAM, Madeleine K. - ACKER, Jason P. - BEN, Robert N. - KUMAR, Piyush - NARAIN, Ravin. Trehalose-Based Polyethers for Cryopreservation and Three-Dimensional Cell Scaffolds. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2020, vol. 21, no. 3, pp. 1264-1273. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00018>, Registrované v: WOS
2. [1.1] GU, Jianfeng - HUANG, Jianren - CHEN, Guoqi - HOU, Linxi - ZHANG, Jin - ZHANG, Xi - YANG, Xiaoxiang - GUAN, Lunhui - JIANG, Xiancai - LIU, Huiyong. Multifunctional Poly(vinyl alcohol) Nanocomposite Organohydrogel for Flexible Strain and Temperature Sensor. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2020, vol. 12, no. 36, pp. 40815-40827. Dostupné na: <https://doi.org/10.1021/acsami.0c12176>, Registrované v: WOS
3. [1.1] LIU, Bo - ZHANG, Qifa - ZHAO, Yunhui - REN, Lixia - YUAN, Xiaoyan. Trehalose-functional glycopeptide enhances glycerol-free cryopreservation of red blood cells. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2019, vol. 7, no. 37, pp. 5695-5703., Registrované v: WOS
4. [1.1] MARTIN, W. Blake - SICARD, Renaud - NAMIN, Shabnam M. - GANEY, Timothy. Methods of Cryoprotectant Preservation: Allogeneic Cellular Bone Grafts and Potential Effects. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2019, vol. 2019, no., pp., Registrované v: WOS
5. [1.1] MOUSAZADEHKASIN, Mohammad - TSAVALAS, John G. Insights into Design of Biomimetic Glycerol-Grafted Polyol-Based Polymers for Ice Nucleation/Recrystallization Inhibition and Thermal Hysteresis Activity. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2020, vol. 21, no. 11, pp.

4626-4637. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00907>,
Registrované v: WOS

6. [1.1] PENG, Yinjie - YAN, Bin - LI, Yueshan - LAN, Ji - SHI, Lingying - RAN, Rong. Antifreeze and moisturizing high conductivity PEDOT/PVA hydrogels for wearable motion sensor. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2020, vol. 55, no. 3, pp. 1280-1291. Dostupné na: <https://doi.org/10.1007/s10853-019-04101-7>, Registrované v: WOS

7. [1.1] QIN, Qingyuan - ZHAO, Lishan - LIU, Zhang - LIU, Tao - QU, Jiangxue - ZHANG, Xiaowei - LI, Rong - YAN, Liying - YAN, Jie - JIN, Shenglin - WANG, Jianjun - QIAO, Jie. Bioinspired L-Proline Oligomers for the Cryopreservation of Oocytes via Controlling Ice Growth. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 16, pp. 18352-18362. Dostupné na: <https://doi.org/10.1021/acsami.0c02719>, Registrované v: WOS

8. [1.1] RODRIGUEZ, Celeste - SAJJADI, Seyed - ABROL, Ravinder - WEN, Xin. A beetle antifreeze protein protects lactate dehydrogenase under freeze-thawing. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 136, no., pp. 1153-1160., Registrované v: WOS

9. [1.1] SUN, Wu-Sheng - JANG, Hoon - KWON, Hyo Jin - KIM, Ki Young - BIN AHN, Soo - HWANG, Seongsoo - LEE, Sung Gu - LEE, Jun Hyuck - HWANG, In-Sul - LEE, Jeong-Woong. The protective effect of Leucosporidium-derived ice-binding protein (LeIBP) on bovine oocytes and embryos during vitrification. In THERIOGENOLOGY. ISSN 0093-691X, 2020, vol. 151, no., pp. 137-143. Dostupné na: <https://doi.org/10.1016/j.theriogenology.2020.04.016>, Registrované v: WOS

10. [1.1] UCHIDA, Tsutomu - FURUKAWA, Maho - KIKAWADA, Takahiro - YAMAZAKI, Kenji - GOHARA, Kazutoshi. Viabilities of long-term cryopreserved CHO-TRET1 cells with trehalose and DMSO. In BULLETIN OF GLACIOLOGICAL RESEARCH. ISSN 1345-3807, 2019, vol. 37, no., pp., Registrované v: WOS

ADCA732 KREMnický, Ľubomír - BIELY, Peter. Beta-Mannanolytic system of *Aureobasidium pullulans*. In *Archives of Microbiology*, 1997, vol. 167, p. 350-355. ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s002030050454>

Ohlasy:

1. [1.1] BALDWIN, Emily L. - KARKI, Bishnu - ZAHLER, Jacob D. - RINEHART, Michael - GIBBONS, William R. Submerged vs. Solid-State Conversion of Soybean Meal into a High Protein Feed Using *Aureobasidium pullulans*. In JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY. ISSN 0003-021X, 2019, vol. 96, no. 9, pp. 989-998., Registrované v: WOS

2. [1.1] PRASONGSUK, Sehanat - LOTRAKUL, Pongtharin - ALI, Imran - BANKEEREE, Wichanee - PUNNAPAYAK, Hunsu. The current status of *Aureobasidium pullulans* in biotechnology. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2018, vol. 63, no. 2, pp. 129-140., Registrované v: WOS

3. [1.1] YOU, Shengping - DING, Juanjuan - DAI, Yemei - XING, Ruizhe - QI, Wei - WANG, Mengfan - SU, Rongxin - HE, Zhimin. A simply enzymatic hydrolysis pretreatment for beta-mannanase production from konjac

powder. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 249, no., pp. 1052-1057., Registrované v: WOS

ADCA733 KREMNIČKÝ, Ľubomír - BIELY, Peter. Disaccharide permeases - constituents of xylanolytic and mannanolytic systems of *Aureobasidium pullulans*. In *Biochimica et Biophysica Acta*, 1998, vol. 1425, p. 560-566. Dostupné na: [https://doi.org/10.1016/S0304-4165\(98\)00112-3](https://doi.org/10.1016/S0304-4165(98)00112-3)

Ohlasy:

1. [1.1] CHAUHAN, Prakram Singh - GUPTA, Naveen. Insight into microbial mannosidases: a review. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2017, vol. 37, no. 2, pp. 190-201., Registrované v: WOS
2. [1.1] MALHOTRA, Girisha - CHAPADGAONKAR, Shilpa S. Production and applications of xylanases – An overview. In *Biotechnologia*. ISSN 08607796, 2018-01-01, 99, 1, pp. 59-72., Registrované v: WOS
3. [1.1] NATHAN, Vinod Kumar - RANI, Mary Esther - RATHINASAMY, Gunaseeli - DHIRAVIAM, Kannan Narayanan. Low Molecular Weight Xylanase from *Trichoderma viride* VKF3 for Bio-bleaching of Newspaper Pulp. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5264-5278., Registrované v: WOS
4. [1.1] PATIPONG, Tanutchai - LOTRAKUL, Pongtharin - PADUNGROS, Panuwat - PUNNAPAYAK, Hunsa - BANKEEREE, Wichanee - PRASONGSUK, Sehanat. Enzymatic hydrolysis of tropical weed xylans using xylanase from *Aureobasidium melanogenum* PBUAP46 for xylooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 2, pp., Registrované v: WOS
5. [1.1] RAVICHANDRA, K. - YASWANTH, V. V. N. - NIKHILA, B. - AHMAD, Jamal - RAO, P. Srinivasa - UMA, A. - RAVINDRABABU, V. - PRAKASHAM, R. S. Xylanase Production by Isolated Fungal Strain, *Aspergillus fumigatus* RSP-8 (MTCC 12039): Impact of Agro-industrial Material as Substrate. In SUGAR TECH. ISSN 0972-1525, 2016, vol. 18, no. 1, pp. 29-38., Registrované v: WOS

ADCA734 KREMNIČKÝ, Ľubomír - MASTIHUBA, Vladimír - CÔTÉ, G.L. *Trichoderma reesei* acetyl esterase catalyzes transesterification in water. In *Journal of Molecular Catalysis B: Enzymatic*, 2004, vol. 30, p. 229-239. ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2004.05.007>

Ohlasy:

1. [1.1] ALJAWISH, Abdulhadi - HEUSON, Egon - BIGAN, Muriel - FROIDEVAUX, Renato. Lipase catalyzed esterification of formic acid in solvent and solvent-free systems. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 20, no., pp., Registrované v: WOS
2. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
3. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS

4. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>., Registrované v: WOS
5. [1.1] NIKOLAIVITS, Efstratios - NORRA, Giannis-Florjan - VOUTSAS, Epaminondas - TOPAKAS, Evangelos. Cutinase from *Fusarium oxysporum* catalyzes the acylation of tyrosol in an aqueous medium: Optimization and thermodynamic study of the reaction. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 129, no., pp. 29-36., Registrované v: WOS
6. [1.1] PUCHART, Vladimir - BERRIN, Jean-Guy - HAON, Mireille - BIELY, Peter. A unique CE16 acetyl esterase from *Podospira anserina* active on polymeric xylan. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 24, pp. 10515-10526., Registrované v: WOS
7. [1.1] PUCHART, Vladimir - BIELY, Peter. Redistribution of acetyl groups on the non-reducing end xylopyranosyl residues and their removal by xylan deacetylases. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 9, pp. 3865-3873., Registrované v: WOS
8. [1.1] QIU, Xin - FAIRBANKS, Antony J. Scope of the DMC mediated glycosylation of unprotected sugars with phenols in aqueous solution. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 37, pp. 7355-7365. Dostupné na: <https://doi.org/10.1039/d0ob01727b>., Registrované v: WOS
9. [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
10. [1.1] STARON, Jakub - DABROWSKI, Janusz M. - CICHON, Ewelina - GUZIK, Maciej. Lactose esters: synthesis and biotechnological applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 245-258., Registrované v: WOS
11. [1.1] TAWFIKE, Ahmed F. - ROMLI, Muhammad - CLEMENTS, Carol - ABBOTT, Grainne - YOUNG, Louise - SCHUMACHER, Marc - DIEDERICH, Marc - FARAG, Mohamed - EDRADA-EBEL, RuAngelie. Isolation of anticancer and anti-trypanosome secondary metabolites from the endophytic fungus *Aspergillus flocculus* via bioactivity guided isolation and MS based metabolomics. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2019, vol. 1106, no., pp. 71-83., Registrované v: WOS
12. [1.2] JAMRICHOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetylesterase CE16 from *Hypocrea Jecorina* Encoded by A Synthetic Gene and Expressed in *Escherichia coli* Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS

ADCA735 KREMnický, Lubomir - BIELY, Peter. Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase. In *Journal of Molecular Catalysis B - Enzymatic*, 2005, vol. 37, p. 72-78. ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2005.09.011>

Ohlasy:

1. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
2. [1.1] NIKOLAIVITS, Efstratios - NORRA, Giannis-Florjan - VOITSAS, Epaminondas - TOPAKAS, Evangelos. Cutinase from *Fusarium oxysporum* catalyzes the acylation of tyrosol in an aqueous medium: Optimization and thermodynamic study of the reaction. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 129, no., pp. 29-36., Registrované v: WOS
3. [1.1] STARON, Jakub - DABROWSKI, Janusz M. - CICHON, Ewelina - GUZIK, Maciej. Lactose esters: synthesis and biotechnological applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 245-258., Registrované v: WOS
4. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
5. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
6. [1.2] JAMRICOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetylerase CE16 from *Hypocrea Jecorina* Encoded by A Synthetic Gene and Expressed in *Escherichia coli* Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS

ADCA736 KRIST, P. - VANNUCCI, L. - KUZMA, M. - MAN, P. - SADALAPURE, K. - PATEL, A. - BEZOUŠKA, K. - POSPÍŠIL, M. - PETRUŠ, Ladislav - LINDHORST, T.K. - KŘEN, V. Fluorescent labelled thiourea-bridged glycodendrons. In *Chembiochem : a European journal of chemical biology*, 2004, vol. 5, p. 445-452. ISSN 1439-4227. Dostupné na: <https://doi.org/10.1002/cbic.200300669>

Ohlasy:

1. [1.1] APPELHANS, Dietmar - KLAJNERT-MACULEWICZ, Barbara - JANASZEWSKA, Anna - LAZNIEWSKA, Joanna - VOIT, Brigitte. Dendritic glycopolymers based on dendritic polyamine scaffolds: view on their synthetic approaches, characteristics and potential for biomedical applications. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 12, pp. 3968-3996., Registrované v: WOS

2. [1.1] HAO, Nanjing - NERANON, Kitjanit - RAMSTROM, Olof - YAN, Mingdi. Glyconanomaterials for biosensing applications. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 76, no., pp. 113-130., Registrované v: WOS
3. [1.1] ROZBESKY, Daniel - IVANOVA, Ljubina - HERNYCHOVA, Lucie - GROBAROVA, Valeria - NOVAK, Petr - CERNY, Jan. Nkrp1 Family, from Lectins to Protein Interacting Molecules. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 2, pp. 3463-3478., Registrované v: WOS
4. [1.1] VU KHAC HOANG BUI - PARK, Duckshin - LEE, Young-Chul. Aminoclays for biological and environmental applications: An updated review. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2018, vol. 336, no., pp. 757-772., Registrované v: WOS

ADCA737 KRISTIAN, Pavol - BERNÁT, Juraj - IMRICH, Ján - SEDLÁK, Erik - ALFOLDI, Juraj - ČORNANIČ, Michal. New approach to synthesis of N-substituted 9-amino/iminoacridines with important fluorescence properties. In *Heterocycles*, 2001, vol. 55, p. 279-290. ISSN 0385-5414.

Ohlasy:

1. [1.2] RAM, Vishnu Ji - SETHI, Arun - NATH, Mahendra - PRATAP, Ramendra. The chemistry of heterocycles: Chemistry of six-to-eight-membered N, O, S, P and Se heterocycles. In *The Chemistry of Heterocycles: Chemistry of Six to Eight Membered N, O, S, P and Se Heterocycles*, 2019-01-01, pp. 1-503., Registrované v: SCOPUS

ADCA738 KRIŽÁKOVÁ, Martina, Zámorová - HOLAZOVÁ, Alena - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIČ, Miloš - MALENKOVIČ, Vesna - DUKANOVIČ, Blagoje - GEMEINER, Peter - KATRLÍK, Jaroslav - NEDIČ, Olgica. Analysis of changes in the glycan composition of serum, cytosol and membrane glycoprotein biomarkers of colorectal cancer using a lectin-based protein microarray. In *Analytical Methods*, 2017, vol. 9, p. 2660-2666. (2016: 1.900 - IF, Q2 - JCR, 0.595 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c7ay00159b>

Ohlasy:

1. [1.1] BERTOK, Tomas - JANE, Eduard - CHRENEKOVA, Nikola - HRONCEKOVA, Stefania - BERTOKOVA, Aniko - HIRES, Michal - VIKARTOVSKA, Alica - KUBANIKOVA, Petra - SOKOL, Roman - FILLO, Juraj - KASAK, Peter - BORSIG, Lubor - TKAC, Jan. Analysis of serum glycome by lectin microarrays for prostate cancer patients-a search for aberrant glycoforms. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 6, pp. 703-711. Dostupné na: <https://doi.org/10.1007/s10719-020-09958-4>., Registrované v: WOS
2. [1.1] LEE, Pey Yee - CHIN, Siok-Fong - LOW, Teck Yew - JAMAL, Rahman. Probing the colorectal cancer proteome for biomarkers: Current status and perspectives. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2018, vol. 187, no., pp. 93-105., Registrované v: WOS
3. [1.1] WANIWAN, Juanilita T. - CHEN, Yi-Ju - CAPANGPANGAN, Rey - WENG, Shao-Hsing - CHEN, Yu-Ju. Glycoproteomic Alterations in Drug-Resistant Non-small Cell Lung Cancer Cells Revealed by Lectin Magnetic Nanoprobe-Based Mass Spectrometry. In *JOURNAL OF PROTEOME*

- ADCA739 KRIŽKOVÁ, Livia - ŽITŇANOVÁ, I. - MISLOVIČOVÁ, Danica -
MASÁROVÁ, Jana - SASINKOVÁ, Vlasta - ĎURAČKOVÁ, Z. - KRAJČOVIČ, J.
Antioxidant and antimutagenic activity of mannan neoglycoconjugates:
Mannan-human serum albumine and mannan-penicillin G acylase. In *Mutation
research-genetic toxicology and environmental mutagenesis*, 2006, vol. 606, p.
72-79. (2005: 2.188 - IF, Q2 - JCR, 0.709 - SJR, Q2 - SJR). ISSN 1383-5718.
Dostupné na: <https://doi.org/10.1016/j.mrgentox.2006.03.003>
Ohlasy:
1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN,
Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic
Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL
60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
 2. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk.
Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future.
In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN
1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
 3. [1.1] COBOS-PUC, L. - RODRIGUEZ-HERRERA, R. -
CANO-CABRERA, J.C. - AGUAYO-MORALES, H. - SILVA-BELMARES,
S.Y. - GALLEGOS, A.C.F. - HERNANDEZ, J.L.M. Classical and New
Pharmaceutical Uses of Bacterial Penicillin G Acylase. In *CURRENT
PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2020, vol. 21,
no. 4, p. 287-297., Registrované v: WOS
 4. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH
DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer
Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging
Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var.
boulardii Cell Wall Components. In *NUTRITION AND CANCER-AN
INTERNATIONAL JOURNAL*. ISSN 0163-5581, 2018, vol. 70, no. 1, pp.
83-96., Registrované v: WOS
 5. [1.1] GHOSH, Kuntal - RAY, Mousumi - ADAK, Atanu - DEY,
Prabuddha - HALDER, Suman K. - DAS, Arpan - JANA, Arijit - PARUA
(MONDAL), Saswati - DAS MOHAPATRA, Pradeep K. - PATI, Bikas R. -
MONDAL, Keshab C. Microbial, saccharifying and antioxidant properties of an
Indian rice based fermented beverage. In *FOOD CHEMISTRY*. ISSN
0308-8146, 2015, vol. 168, no., pp. 196-202., Registrované v: WOS
 6. [1.1] HAFNER, Dora - TUBOLY, Tamas - MEZES, Miklos -
BLOCH-BODNAR, Zsolt - BALOGH, Krisztian - VANTUS, Viola - BOTA,
Brigitta - SZABO-FODOR, Judit - MATICS, Zsolt - SZABO, Andras -
KOVACS, Melinda. Effect of feeding *Bacillus cereus* var. *toyoi* and/or mannan
oligosaccharide (MOS) on blood clinical chemistry, oxidative stress, immune
response and genotoxicity in T-2 toxin exposed rabbits. In *ITALIAN JOURNAL
OF ANIMAL SCIENCE*. ISSN 1594-4077, 2019, vol. 18, no. 1, pp. 1239-1251.,
Registrované v: WOS
 7. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra -
MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel -
BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. -
SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel -

- PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
8. [1.1] LIU, Ning - WANG, Jinquan - LIU, Zhaoyang - WANG, Yongchao - WANG, Jianping. Effect of supplemental yeast cell walls on growth performance, gut mucosal glutathione pathway, proteolytic enzymes and transporters in growing broiler chickens. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2018, vol. 96, no. 4, pp. 1330-1337., Registrované v: WOS
9. [1.1] LIU, N. - WANG, J. Q. - JIA, S. C. - CHEN, Y. K. - WANG, J. P. Effect of yeast cell wall on the growth performance and gut health of broilers challenged with aflatoxin B-1 and necrotic enteritis. In POULTRY SCIENCE. ISSN 0032-5791, 2018, vol. 97, no. 2, pp. 477-484., Registrované v: WOS
10. [1.1] MADRIGAL-BUJADAR, Eduardo - ANTONIO MORALES-GONZALEZ, Jose - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - REYES-ARELLANO, Alicia - ALVAREZ-GONZALEZ, Isela - PEREZ-PASTEN, Ricardo - MADRIGAL-SANTILLAN, Eduardo. Prevention of Aflatoxin B-1-Induced DNA Breaks by beta-D-Glucan. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 6, pp. 2145-2158., Registrované v: WOS
11. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJADAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLEDOS, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS
12. [1.1] MELLO, M. B. - MACHADO, C. S. - RIBEIRO, D. L. - AISSA, A. F. - BURIM, R. V. - ALVES DA CUNHA, M. A. - BARCELOS, G. R. M. - ANTUNES, L. M. G. - BIANCHI, M. L. P. Protective effects of the exopolysaccharide Lasiodiplodan against DNA damage and inflammation induced by doxorubicin in rats: Cytogenetic and gene expression assays. In TOXICOLOGY. ISSN 0300-483X, 2017, vol. 376, no., pp. 66-74., Registrované v: WOS
13. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA, Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In SECONDARY ENDOSYMBIOSES. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS
14. [1.1] WANG, Haisong - CHENG, Xiangrong - SHI, Yonghui - LE, Guowei. Preparation and structural characterization of poly-mannose synthesized by phosphoric acid catalyzation under microwave irradiation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 121, no., pp. 355-361., Registrované v: WOS
15. [1.2] ABDOLSHAH, Anna - YAZDI, Farideh Tabatabaiee - SHABANI, Ali Akbar - MORTAZAVI, Seyed Ali - NAFCHI, Abdolreza Mohammadi. Antifungal properties of gelatin-based coating containing mannoprotein from *saccharomyces cerevisiae* on *aspergillus flavus* growth in pistachio. In Journal of Mazandaran University of Medical Sciences. ISSN

- 17359279, 2016-01-01, 26, 139, pp. 93-102., Registrované v: SCOPUS
16. [1.2] MAHMOUD, Khaled F. - AMIN, Azza A. - SALAMA, Manal F. - SELIEM, Effat I. Encapsulation of nano beta-glucan for preservation of functionality and targeted delivery of bioactive food component. In *International Journal of ChemTech Research*. ISSN 09744290, 2015-01-01, 8, 11, pp. 587-598., Registrované v: SCOPUS
17. [1.2] USATII, Agafia - BEJENARU, Ludmila. Reaction of *Saccharomyces cerevisiae* yeast strain to the action of TiOinf2/inf nanoparticles. In *Analele Universitatii din Oradea, Fascicula Biologie*. ISSN 12245119, 2017-01-01, 24, 1, pp. 25-29., Registrované v: SCOPUS

ADCA740 KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Z. - ŠANDULA, Jozef - SASINKOVÁ, Vlasta - KRAJČOVIČ, J. Antioxidative and antimutagenic activity of yeast cell wall mannans in vitro. In *Mutation Research*, 2001, vol. 497, p. 213-222. ISSN 1568-7864. Dostupné na: [https://doi.org/10.1016/S1383-5718\(01\)00257-1](https://doi.org/10.1016/S1383-5718(01)00257-1)

Ohlasy:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60*. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
2. [1.1] BANIK, Abhijit - HALDER, Suman Kumar - GHOSH, Chandradipa - MONDAL, Keshab Chandra. Fungal Probiotics: Opportunity, Challenge, and Prospects. In *RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 2: PERSPECTIVE FOR VALUE-ADDED PRODUCTS AND ENVIRONMENTS*. ISSN 2198-7777, 2019, vol., no., pp. 101-117., Registrované v: WOS
3. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Pdraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS
4. [1.1] EL-FAR, Ali H. - AHMED, Hamada A. - SHAHEEN, Hazem M. Dietary Supplementation of Phoenix dactylifera Seeds Enhances Performance, Immune Response, and Antioxidant Status in Broilers. In *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS
5. [1.1] FARINHA, Ines - ARAUJO, Diana - FREITAS, Filomena. Optimization of medium composition for production of chitin-glucan complex and mannose-containing polysaccharides by the yeast *Komagataella pastoris*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2019, vol. 303, no., pp. 30-36., Registrované v: WOS
6. [1.1] FDHILA, Kais - HADDAJI, Najla - CHAKROUN, Ibtissem - MACHERKI, Mohammed Ezz Eddine - NEFZI, Faten - BAKHROUF, Amina. Glucomanan's protective effect on the virulence of *Vibrio splendidus* in pacific oyster. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2016, vol. 56, no., pp. 410-416., Registrované v: WOS
7. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In *HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS*, 2015, vol., no.,

pp. 61-103., Registrované v: WOS

8. [1.1] GUERREIRO, Ines - OLIVA-TELES, Aires - ENES, Paula. Prebiotics as functional ingredients: focus on Mediterranean fish aquaculture. In *REVIEWS IN AQUACULTURE*. ISSN 1753-5123, 2018, vol. 10, no. 4, pp. 800-832., Registrované v: WOS

9. [1.1] HAFNER, Dora - TUBOLY, Tamas - MEZES, Miklos - BLOCH-BODNAR, Zsolia - BALOGH, Krisztian - VANTUS, Viola - BOTA, Brigitta - SZABO-FODOR, Judit - MATICS, Zsolt - SZABO, Andras - KOVACS, Melinda. Effect of feeding *Bacillus cereus* var. *toyoi* and/or mannan oligosaccharide (MOS) on blood clinical chemistry, oxidative stress, immune response and genotoxicity in T-2 toxin exposed rabbits. In *ITALIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 1594-4077, 2019, vol. 18, no. 1, pp. 1239-1251., Registrované v: WOS

10. [1.1] CHUDZIK, Barbara - BONIO, Katarzyna - DABROWSKI, Wojciech - PIETRZAK, Daniel - NIEWIADOMY, Andrzej - OLENDER, Alina - PAWLIKOWSKA-PAWLEGA, Bozena - GAGOS, Mariusz. Antifungal effects of a 1,3,4-thiadiazole derivative determined by cytochemical and vibrational spectroscopic studies. In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 9, pp., Registrované v: WOS

11. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS

12. [1.1] KOKSAL, B. H. - CENGİZ, O. - AHSAN, U. - SEVİM, O. - TATLI, O. - BEYAZ, D. - BUYUKYORUK, S. - BOYACIOĞLU, M. - KUTER, E. - KIZANLIK, P. Kocak - KAYA, M. - ONOL, A. Gokhan. Effect of dietary prebiotics supplementation on growth performance, relative carcass and organ yields, gut microbiome, and blood malondialdehyde level of broilers subjected to post-hatch feed and water restriction. In *EUROPEAN POULTRY SCIENCE*. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS

13. [1.1] LEMIESZEK, Marta K. - NUNES, Fernando M. - MARQUES, Guilhermina - RZESKI, Wojciech. *Cantharellus cibarius* branched mannans inhibits colon cancer cells growth by interfering with signals transduction in NF-kappa B pathway. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 134, no., pp. 770-780., Registrované v: WOS

14. [1.1] LI, Xiaohan - CHEN, Y. P. - CHENG, Y. F. - WEN, C. - ZHOU, Y. M. Effects of dietary supplementation with yeast cell wall, palygorskite and their combination on the growth performance, meat quality, muscular antioxidant ability and mineral element content of broilers. In *EUROPEAN POULTRY SCIENCE*. ISSN 1612-9199, 2017, vol. 81, no., pp., Registrované v: WOS

15. [1.1] LI, X. H. - CHEN, Y. P. - CHENG, Y. F. - YANG, W. L. - WEN, C. - ZHOU, Y. M. Effect of yeast cell wall powder with different particle sizes on the growth performance, serum metabolites, immunity and oxidative status of broilers. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2016, vol. 212, no., pp. 81-89., Registrované v: WOS

16. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJAIDAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO

- MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLED0, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS
17. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS
18. [1.1] NYMAN, Anna Armika T. - AACHMANN, Finn L. - RISE, Frode - BALLANCE, Simon - SAMUELSEN, Anne Berit C. Structural characterization of a branched (1→6)-alpha-mannan and beta-glucans isolated from the fruiting bodies of *Cantharellus cibarius*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 197-207., Registrované v: WOS
19. [1.1] PAWAR, Mahesh M. - PATTANAIK, Ashok K. - SINHA, Dharmendra K. - GOSWAMI, Tapas K. - SHARMA, Kusumakar. Effect of dietary mannanoligosaccharide supplementation on nutrient digestibility, hindgut fermentation, immune response and antioxidant indices in dogs. In JOURNAL OF ANIMAL SCIENCE AND TECHNOLOGY. ISSN 2672-0191, 2017, vol. 59, no., pp.
20. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - KHOSROUSHAHI, Ahmad Yari. Cellular and molecular effects of yeast probiotics on cancer. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, 2017, vol. 43, no. 1, pp. 96-115., Registrované v: WOS
21. [1.1] SANGURI, Sweta - GUPTA, Damodar. Mannan oligosaccharide requires functional ETC and TLR for biological radiation protection to normal cells. In BMC CELL BIOLOGY. ISSN 1471-2121, 2018, vol. 19, no., pp., Registrované v: WOS
22. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
23. [1.1] SKORIK, Yury A. - KRITCHENKOV, Andrei S. - MOSKALENKO, Yulia E. - GOLYSHEV, Anton A. - RAIK, Sergei V. - WHALEY, Andrei K. - VASINA, Lyubov V. - SONIN, Dmitry L. Synthesis of N-succinyl- and N-glutaryl-chitosan derivatives and their antioxidant, antiplatelet, and anticoagulant activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 166, no., pp. 166-172., Registrované v: WOS
24. [1.1] SULTANA, Afroza - TANAKA, Yusuke - FUSHIMI, Yoshiya - YOSHII, Hidefumi. Stability and release behavior of encapsulated flavor from spray-dried *Saccharomyces cerevisiae* and maltodextrin powder. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 106, no., pp. 809-816., Registrované v: WOS
25. [1.1] SULTANA, Afroza - YOSHII, Hidefumi. Kinetic study of controlled release of flavor compounds from spray-dried encapsulated yeast

powder using dynamic vapor sorption-gas chromatography. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2019, vol. 83, no. 4, pp. 738-746., Registrované v: WOS

26. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA, Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In SECONDARY ENDOSYMBIOSES. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS

27. [1.1] VARELAS, Vassileios - LIOUNI, Maria - CALOKERINOS, Antony C. - NERANTZIS, Elias T. An evaluation study of different methods for the production of D-glucan from yeast biomass. In DRUG TESTING AND ANALYSIS. ISSN 1942-7603, 2016, vol. 8, no. 1, pp. 46-56., Registrované v: WOS

ADCA741 KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Zdena - ŠANDULA, Jozef - SLAMENŇOVÁ, Darina - SASINKOVÁ, Vlasta - SIVONŇOVÁ, Monika - KRAJČOVIČ, Juraj. Fungal beta-(1-3)-D-glucan derivatives exhibit high antioxidative and antimutagenic activity in vitro. In *Anticancer Research : International Journal of Cancer Research and Treatment*. - Athens : J. G. Delinassios, 2003, vol. 23, no. 3B, p. 2751-2756. ISSN 0250-7005.

Ohlasy:

1. [1.1] BEZERRA, Lorena Soares - MAGNANI, Marciane - HERNAN CASTRO-GOMEZ, Raul Jorge - CAVALCANTE, Hassler Clementino - FELISBERTO DA SILVA, Tays Amanda - PAIXAO VIEIRA, Renata Layne - DE MEDEIROS, Isac Almeida - VERAS, Robson Cavalcante. Modulation of vascular function and anti-aggregation effect induced by (1→3) (1→6)-(beta-D-glucan of *Saccharomyces cerevisiae* and its carboxymethylated derivative in rats. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2017, vol. 69, no. 3, pp. 448-455., Registrované v: WOS

2. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats. In BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS

3. [1.1] DANG VAN CUONG - KIM, Hyoung Kyu - MARQUEZ, Jubert - KIM, Nari - KO, Kyung Soo - RHEE, Byoung Doo - HAN, Jin. Mitochondrial calcium uniporter inhibition attenuates mouse bone marrow-derived mast cell degranulation induced by beta-1,3-glucan. In KOREAN JOURNAL OF PHYSIOLOGY & PHARMACOLOGY. ISSN 1226-4512, 2016, vol. 20, no. 2, pp. 213., Registrované v: WOS

4. [1.1] KIM, Kyung Hu - PARK, Soo Jin - LEE, Young Joon - LEE, Ji Eun - SONG, Chang Hyun - CHOI, Seong Hun - KU, Sae Kwang - KANG, Su Jin. Inhibition of UVB-Induced Skin Damage by Exopolymers from *Aureobasidium pullulans* SM-2001 in Hairless Mice. In BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY. ISSN 1742-7835, 2015, vol. 116, no. 2, pp. 73., Registrované v: WOS

5. [1.1] LIM, Mee-Kyoung - KU, Sae-Kwang - CHOI, Jae-Suk - KIM, Joo-Wan. Effect of polycan, a beta-glucan originating from *Aureobasidium*, on a high-fat diet-induced hyperlipemic hamster model. In EXPERIMENTAL AND THERAPEUTIC MEDICINE. ISSN 1792-0981, 2015, vol. 9, no. 4, pp. 1369., Registrované v: WOS

6. [1.1] PIOTROWSKA, Malgorzata - MASEK, Anna. Saccharomyces Cerevisiae Cell Wall Components as Tools for Ochratoxin A Decontamination. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 4, pp. 1151., Registrované v: WOS
7. [1.1] SELLI, Jale - UNAL, Deniz - MERCANTEPE, Filiz - AKARAS, Nurhan - KABAYEL, Rabia - UNAL, Bunyami - ATILAY, Hilal. Protective effects of beta glucan in brain tissues of post-menopausal rats: a histochemical and ultra-structural study. In GYNECOLOGICAL ENDOCRINOLOGY. ISSN 0951-3590, 2016, vol. 32, no. 3, pp. 234., Registrované v: WOS
8. [1.1] SOHN, Jae-Hak - KIM, Joo Wan - JUNG, Go-Woon - PARK, Dong-Chan - MOON, Seung-Bae - CHO, Hyung-Rae - KU, Sae Kwang - CHOI, Jae-Suk. Effects of beta-glucan and Folium mori Extract Combinations in STZ-induced Diabetic Rats: Effectiveness of Various BGFM Complex Compositions in Treating Diabetes. In CURRENT NUTRITION & FOOD SCIENCE. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 235-246., Registrované v: WOS
9. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. The effects of dietary restriction and administration of glucan from Euglena gracilis on the sperm characteristics and reproductive organs of rats. In ANDROLOGIA. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS
10. [1.1] WANG SHANSHAN - CAI CHAO - HAO JIEJIE - LI GUOYUN - WANG XUELIANG - HU MINGHUA - FAN LUODI - YU GUANGLI. Preparation and Immunological Activity Evaluation of Water-soluble beta-Glucan from Saccharomyces cerevisiae. In CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE. ISSN 0251-0790, 2019, vol. 40, no. 9, pp. 1873-1880., Registrované v: WOS
11. [1.1] ZHU, Lingli - WU, Di - ZHANG, Henan - LI, Qiaozhen - ZHANG, Zhong - LIU, Yanfang - ZHOU, Shuai - WANG, Wenhan - LI, Zhengpeng - YANG, Yan. Effects of Atmospheric and Room Temperature Plasma (ARTP) Mutagenesis on Physicochemical Characteristics and Immune Activity In Vitro of Hericium erinaceus Polysaccharides. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 2, pp., Registrované v: WOS

ADCA742 KRIŽKOVÁ, L. - ĎURAČKOVÁ, Z. - ŠANDULA, Jozef - SLAMENŇOVÁ, D. - SASINKOVÁ, Vlasta - SIVOŇOVÁ, M. - KRAJČOVIČ, J. Fungal β -(1-3)-D-glucan derivatives exhibit high antioxidative and antimutagenic activity in vitro. In *Anticancer Research : international journal of cancer research and treatment*, 2003, vol. 23, p. 2751-2756. ISSN 0250-7005.

Ohlasy:

1. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats. In BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS
2. [1.1] KIM, Kyung Hu - PARK, Soo Jin - LEE, Young Joon - LEE, Ji Eun - SONG, Chang Hyun - CHOI, Seong Hun - KU, Sae Kwang - KANG, Su Jin. Inhibition of UVB-Induced Skin Damage by Exopolymers from Aureobasidium pullulans SM-2001 in Hairless Mice. In BASIC & CLINICAL

PHARMACOLOGY & TOXICOLOGY. ISSN 1742-7835, 2015, vol. 116, no. 2, pp. 73-86., Registrované v: WOS

3. [1.1] KOC, F. - ERISGIN, Z. - TEKELIOGLU, Y. - TAKIR, S. The effect of beta glucan on MTX induced testicular damage in rats. In BIOTECHNIC & HISTOCHEMISTRY. ISSN 1052-0295, 2018, vol. 93, no. 1, pp. 70-75., Registrované v: WOS

4. [1.1] LIM, Mee-Kyoung - KU, Sae-Kwang - CHOI, Jae-Suk - KIM, Joo-Wan. Effect of polycan, a beta-glucan originating from Aureobasidium, on a high-fat diet-induced hyperlipemic hamster model. In EXPERIMENTAL AND THERAPEUTIC MEDICINE. ISSN 1792-0981, 2015, vol. 9, no. 4, pp. 1369-1378., Registrované v: WOS

5. [1.1] PIOTROWSKA, Malgorzata - MASEK, Anna. Saccharomyces Cerevisiae Cell Wall Components as Tools for Ochratoxin A Decontamination. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 4, pp. 1151-1162., Registrované v: WOS

6. [1.1] SOHN, Jae-Hak - KIM, Joo Wan - JUNG, Go-Woon - PARK, Dong-Chan - MOON, Seung-Bae - CHO, Hyung-Rae - KU, Sae Kwang - CHOI, Jae-Suk. Effects of beta-glucan and Folium mori Extract Combinations in STZ-induced Diabetic Rats: Effectiveness of Various BGFM Complex Compositions in Treating Diabetes. In CURRENT NUTRITION & FOOD SCIENCE. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 235-246., Registrované v: WOS

7. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. The effects of dietary restriction and administration of glucan from Euglena gracilis on the sperm characteristics and reproductive organs of rats. In ANDROLOGIA. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS

8. [1.1] WANG SHANSHAN - CAI CHAO - HAO JIEJIE - LI GUOYUN - WANG XUELIANG - HU MINGHUA - FAN LUODI - YU GUANGLI. Preparation and Immunological Activity Evaluation of Water-soluble beta-Glucan from Saccharomyces cerevisiae. In CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE. ISSN 0251-0790, 2019, vol. 40, no. 9, pp. 1873-1880., Registrované v: WOS

9. [1.1] ZHU, Lingli - WU, Di - ZHANG, Henan - LI, Qiaozhen - ZHANG, Zhong - LIU, Yanfang - ZHOU, Shuai - WANG, Wenhan - LI, Zhengpeng - YANG, Yan. Effects of Atmospheric and Room Temperature Plasma (ARTP) Mutagenesis on Physicochemical Characteristics and Immune Activity In Vitro of Hericium erinaceus Polysaccharides. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 2, pp., Registrované v: WOS

10. [1.2] LEE, Hyeong Ryeol - LIM, Heung Bin. Antimutagenic and antioxidative effects of polysaccharides isolated from the water extract of Ganoderma lucidum. In Journal of Applied Pharmaceutical Science, 2019-04-01, 9, 4, pp. 1-7., Registrované v: SCOPUS

ADCA743 KRONEK, Juraj - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Immunomodulatory efficiency of poly(2-oxazolines). In *Journal of Materials Science: Materials in Medicine*, 2012, vol. 23, no. 6, p. 1457-1464. (2011: 2.316 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0957-4530. Dostupné na: <https://doi.org/10.1002/pc.22387>

Ohlasy:

1. [1.1] BOERMAN, M.A. - ROOZEN, E. - SANCHEZ-FERNANDEZ, M.J. - KEEREWEER, A.R. - LANAO, R.P.F. - BENDER, J.C.M.E. - HOOGENBOOM, R. - LEEUWENBURGH, S.C. - JANSEN, J.A. - VAN GOOR, H. - VAN HEST, J.C.M. Next Generation Hemostatic Materials Based on NHS-Ester Functionalized Poly(2-oxazoline)s. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2017, vol. 18, no. 8, p. 2529-2538., Registrované v: WOS
2. [1.1] CZICH, S. - WLOKA, T. - ROTHE, H. - ROST, J. - PENZOLD, F. - KLEINSTEUBER, M. - GOTTSCHALDT, M. - SCHUBERT, U.S. - LIEFEITH, K. Two-Photon Polymerized Poly(2-Ethyl-2-Oxazoline) Hydrogel 3D Microstructures with Tunable Mechanical Properties for Tissue Engineering. In MOLECULES. NOV 2020, vol. 25, no. 21., Registrované v: WOS
3. [1.1] HARTLIEB, M. - BUS, T. - KUBEL, J. - PRETZEL, D. - HOEPPENER, S. - LEISKE, M.N. - KEMPE, K. - DIETZEK, B. - SCHUBERT, U.S. Tailoring Cellular Uptake and Fluorescence of Poly(2-oxazoline)-Based Nanogels. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, APR 2017, vol. 28, no. 4, p. 1229-1235., Registrované v: WOS
4. [1.1] HARTLIEB, M. - FLOYD, T. - COOK, A.B. - SANCHEZ-CANO, C. - CATROUILLET, S. - BURNS, J.A. - PERRIER, S. Well-defined hyperstar copolymers based on a thiol-yne hyperbranched core and a poly(2-oxazoline) shell for biomedical applications. In POLYMER CHEMISTRY. ISSN 1759-9954, APR 4 2017, vol. 8, no. 13, p. 2041-2054., Registrované v: WOS
5. [1.1] HARTLIEB, M. - PRETZEL, D. - WAGNER, M. - HOEPPENER, S. - BELLSTEDT, P. - GORLACH, M. - ENGLERT, C. - KEMPE, K. - SCHUBERT, U.S. Core cross-linked nanogels based on the self-assembly of double hydrophilic poly(2-oxazoline) block copolymers. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 9, p. 1748-1759., Registrované v: WOS
6. [1.1] HUMPHRIES, J. - PIZZI, D. - SONDEREGGER, S.E. - FLETCHER, N.L. - HOUSTON, Z.H. - BELL, C.A. - KEMPE, K. - THURECHT, K.J. Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structure-Activity Comparison of Biodistribution. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3318-3331., Registrované v: WOS
7. [1.1] LEISKE, M.N. - HARTLIEB, M. - SOBOTTA, F.H. - PAULUS, R.M. - GORLS, H. - BELLSTEDT, P. - SCHUBERT, U.S. Cationic ring-opening polymerization of protected oxazolidine imines resulting in gradient copolymers of poly(2-oxazoline) and poly(urea). In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 30, p. 4924-4936., Registrované v: WOS
8. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS
9. [1.1] LOWE, S. - O'BRIEN-SIMPSON, N.M. - CONNAL, L.A. Antibiofouling polymer interfaces: poly(ethylene glycol) and other promising candidates. In POLYMER CHEMISTRY. ISSN 1759-9954, 2015, vol. 6, no. 2,

p. 198-212., Registrované v: WOS

10. [1.1] SEDLACEK, O. - HOOGENBOOM, R. Drug Delivery Systems Based on Poly(2-Oxazoline)s and Poly(2-Oxazine)s. In ADVANCED THERAPEUTICS. JAN 2020, vol. 3, no. 1., Registrované v: WOS

11. [1.1] SRAMKOVA, P. - ZAHORANOVA, A. - KELAR, J. - TUCEKOVA, Z.K. - STUPAVSKA, M. - KRUMPOLEC, R. - JURMANOVA, J. - KOVACIK, D. - CERNAK, M. Cold atmospheric pressure plasma: simple and efficient strategy for preparation of poly(2-oxazoline)-based coatings designed for biomedical applications. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 11 2020, vol. 10, no. 1., Registrované v: WOS

12. [1.2] HOELZER, Doerte - LEISKE, Meike N. - HARTLIEB, Matthias - BUS, Tanja - PRETZEL, David - HOEPPENER, Stephanie - KEMPE, Kristian - THIERBACH, René - SCHUBERT, Ulrich S. Tumor targeting with pH-responsive poly(2-oxazoline)-based nanogels for metronomic doxorubicin treatment. In Oncotarget, 2018-04-27, 9, 32, pp. 22316-22331., Registrované v: SCOPUS

13. [1.2] LEISKE, M.N.- TRÜTZSCHLER, A.K.- ARMONEIT, S.- SUNGUR, P.- HOEPPENER, S.- LEHMANN, M.- TRAEGER, A.- SCHUBERT, U.S. Mission ImPOxable-or the unknown utilization of non-toxic poly(2-oxazoline)s as cryoprotectants and surfactants at the same time. IN Journal of Materials Chemistry B, 2017, 5 (46), p. 9102-9113., Registrované v: Scopus

14. [1.2] MAO, Juan - LI, Jian Ming - DING, Jin Song. The application of poly(2-ethyl-2-oxazoline) in drug delivery system. In Yaoxue Xuebao. ISSN 05134870, 2017-01-01, 52, 8, pp. 1235-1240., Registrované v: SCOPUS

ADCA744 KRONEK, Juraj - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MENDREK, Barbara. In vitro bio-immunological and cytotoxicity studies of poly(2-oxazolines). In *Journal of Materials Science: Materials in Medicine*, 2011, vol. 22, p. 1725 - 1734. (2010: 2.325 - IF, Q2 - JCR, 0.938 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0957-4530.

Ohlasy:

1. [1.1] AMIROVA, A. - RODCHENKO, S. - KURLYKIN, M. - TENKOVTSSEV, A. - KRASNOU, I. - KRUMME, A. - FILIPPOV, A. Synthesis and Investigation of Thermo-Induced Gelation of Partially Cross-Linked Poly-2-isopropyl-2-oxazoline in Aqueous Media. In POLYMERS. MAR 2020, vol. 12, no. 3., Registrované v: WOS

2. [1.1] BECK-BROICHSITTER, Moritz - NICOLAS, Julien - COUVREUR, Patrick. Design attributes of long-circulating polymeric drug delivery vehicles. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2015, vol. 97, no., pp. 304-317., Registrované v: WOS

3. [1.1] BOERMAN, Marcel A. - ROOZEN, Edwin - SANCHEZ-FERNANDEZ, Maria Jose - KEEREWEER, Abraham R. - LANAO, Rosa P. Felix - BENDER, Johan C. M. E. - HOOGENBOOM, Richard - LEEUWENBURGH, Sander C. - JANSEN, John A. - VAN GOOR, Harry - VAN HEST, Jan C. M. Next Generation Hemostatic Materials Based on NHS-Ester Functionalized Poly(2-oxazoline)s. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 8, pp. 2529-2538., Registrované v: WOS

4. [1.1] CELEBI, O. - BARNES, S. R. - NARANG, G. S. - KELLOGG, D. - MECHAM, S. J. - RIFFLE, J. S. Molecular weight distribution and endgroup functionality of poly(2-ethyl-2-oxazoline) prepolymers. In POLYMER. ISSN 0032-3861, 2015, vol. 56, no., pp. 147-156., Registrované v: WOS
5. [1.1] CVEK, M. - ZAHORANOVA, A. - MRLIK, M. - SRAMKOVA, P. - MINARIK, A. - SEDLACIK, M. Poly(2-oxazoline)-based magnetic hydrogels: Synthesis, performance and cytotoxicity. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, JUN 2020, vol. 190., Registrované v: WOS
6. [1.1] CZICH, S. - WLOKA, T. - ROTHE, H. - ROST, J. - PENZOLD, F. - KLEINSTEUBER, M. - GOTTSCHALDT, M. - SCHUBERT, U.S. - LIEFEITH, K. Two-Photon Polymerized Poly(2-Ethyl-2-Oxazoline) Hydrogel 3D Microstructures with Tunable Mechanical Properties for Tissue Engineering. In MOLECULES. NOV 2020, vol. 25, no. 21., Registrované v: WOS
7. [1.1] ENGLERT, C. - BRENDDEL, J.C. - MAJDANSKI, T.C. - YILDIRIM, T. - SCHUBERT, S. - GOTTSCHALDT, M. - WINDHAB, N. - SCHUBERT, U.S. Pharmapolymers in the 21st century: Synthetic polymers in drug delivery applications. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, DEC 2018, vol. 87, p. 107-164., Registrované v: WOS
8. [1.1] FAEL, H. - RAFOLS, C. - DEMIREL, A.L. Poly(2-Ethyl-2-Oxazoline) as an Alternative to Poly(Vinylpyrrolidone) in Solid Dispersions for Solubility and Dissolution Rate Enhancement of Drugs. In JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0022-3549, SEP 2018, vol. 107, no. 9, p. 2428-2438., Registrované v: WOS
9. [1.1] GRIMAUDO, M.A. - NICOLI, S. - SANTI, P. - CONCHEIRO, A. - ALVAREZ-LORENZO, C. Cyclosporine-loaded cross-linked inserts of sodium hyaluronan and hydroxypropyl-beta-cyclodextrin for ocular administration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, DEC 1 2018, vol. 201, p. 308-316., Registrované v: WOS
10. [1.1] HADLER, C. - ALIUOS, P. - BRANDES, G. - WARNECKE, A. - BOHLMANN, J. - DEMPWOLF, W. - MENZEL, H. - LENARZ, T. - REUTER, G. - WISSEL, K. Polymer Coatings of Cochlear Implant Electrode Surface An Option for Improving Electrode-Nerve-Interface by Blocking Fibroblast Overgrowth. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
11. [1.1] HALADJOVA, E. - RANGELOV, S. - TSVETANOV, C. Thermoresponsive Polyoxazolines as Vectors for Transfection of Nucleic Acids. In POLYMERS. NOV 2020, vol. 12, no. 11., Registrované v: WOS
12. [1.1] HARTLIEB, Matthias - PRETZEL, David - WAGNER, Michael - HOEPPENER, Stephanie - BELLSTEDT, Peter - GOERLACH, Matthias - ENGLERT, Christoph - KEMPE, Kristian - SCHUBERT, Ulrich S. Core cross-linked nanogels based on the self-assembly of double hydrophilic poly(2-oxazoline) block copolymers. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 9, pp. 1748-1759., Registrované v: WOS
13. [1.1] HARTLIEB, Matthias - FLOYD, Thomas - COOK, Alexander B. - SANCHEZ-CANO, Carlos - CATROUILLET, Sylvain - BURNS, James A. - PERRIER, Sebastien. Well-defined hyperstar copolymers based on a thiol-yne hyperbranched core and a poly(2-oxazoline) shell for biomedical applications. In

- POLYMER CHEMISTRY. ISSN 1759-9954, 2017, vol. 8, no. 13, pp. 2041-2054., Registrované v: WOS
14. [1.1] HARTLIEB, Matthias - BUS, Tanja - KUEBEL, Joachim - PRETZEL, David - HOEPPENER, Stephanie - LEISKE, Meike N. - KEMPE, Kristian - DIETZEK, Benjamin - SCHUBERT, Ulrich S. Tailoring Cellular Uptake and Fluorescence of Poly(2-oxazoline)-Based Nanogels. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2017, vol. 28, no. 4, pp. 1229-1235., Registrované v: WOS
15. [1.1] HE, Zhijian - SCHULZ, Anita - WAN, Xiaomeng - SEITZ, Joshua - BLUDAU, Herdis - ALAKHOVA, Daria Y. - DARR, David B. - PEROU, Charles M. - JORDAN, Rainer - OJIMA, Iwao - KABANOV, Alexander V. - LUXENHOFER, Robert. Poly(2-oxazoline) based micelles with high capacity for 3rd generation taxoids: Preparation, in vitro and in vivo evaluation. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2015, vol. 208, no., pp. 67-75., Registrované v: WOS
16. [1.1] HUMPHRIES, J. - PIZZI, D. - SONDEREGGER, S.E. - FLETCHER, N.L. - HOUSTON, Z.H. - BELL, C.A. - KEMPE, K. - THURECHT, K.J. Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structure-Activity Comparison of Biodistribution. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3318-3331., Registrované v: WOS
17. [1.1] JANA, S. - UCHMAN, M. Poly(2-oxazoline)-based stimulus-responsive (Co)polymers: An overview of their design, solution properties, surface-chemistries and applications. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, JUL 2020, vol. 106., Registrované v: WOS
18. [1.1] KEMPE, Kristian. Chain and Step Growth Polymerizations of Cyclic Imino Ethers: From Poly(2-oxazoline)s to Poly(ester amide)s. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2017, vol. 218, no. 11, pp., Registrované v: WOS
19. [1.1] KERSCHER, B. - TROTSCHLER, T.M. - PASZTOI, B. - GROER, S. - SZABO, A. - IVAN, B. - MULHAUPT, R. Thermoresponsive Polymer Ionic Liquids and Nanostructured Hydrogels Based upon Amphiphilic Polyisobutylene-b-poly(2-ethyl-2-oxazoline) Diblock Copolymers. In MACROMOLECULES. ISSN 0024-9297, MAY 14 2019, vol. 52, no. 9, p. 3306-3318., Registrované v: WOS
20. [1.1] KONEFAL, R. - CERNOCH, P. - KONEFAL, M. - SPEVACEK, J. Temperature Behavior of Aqueous Solutions of Poly(2-Oxazoline) Homopolymer and Block Copolymers Investigated by NMR Spectroscopy and Dynamic Light Scattering. In POLYMERS. SEP 2020, vol. 12, no. 9., Registrované v: WOS
21. [1.1] LEGROS, Camille - WIROTIUS, Anne-Laure - DE PAUW-GILLET, Marie-Claire - TAM, Kam Chiu - TATON, Daniel - LECOMMANDOUX, Sebastien. Poly(2-oxazoline)-Based Nanogels as Biocompatible Pseudopolypeptide Nanoparticles. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 1, pp. 183-191., Registrované v: WOS
22. [1.1] LEISKE, Meike N. - HARTLIEB, Matthias - SOBOTTA, Fabian H. - PAULUS, Renzo M. - GOERLS, Helmar - BELLSTEDT, Peter - SCHUBERT, Ulrich S. Cationic ring-opening polymerization of protected oxazolidine imines resulting in gradient copolymers of poly(2-oxazoline) and poly(urea). In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 30,

pp. 4924-4936., Registrované v: WOS

23. [1.1] LEISKE, Meike N. - TRUETZSCHLER, Anne-Kristin - ARMONEIT, Sabine - SUNGUR, Pelin - HOEPPENER, Stephanie - LEHMANN, Marc - TRAEGER, Anja - SCHUBERT, Ulrich S. Mission ImPOxable or the unknown utilization of non-toxic poly(2-oxazoline)s as cryoprotectants and surfactants at the same time. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2017, vol. 5, no. 46, pp. 9102-9113., Registrované v: WOS

24. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS

25. [1.1] LOWE, Sean - O'BRIEN-SIMPSON, Neil M. - CONNALL, Luke A. Antibiofouling polymer interfaces: poly(ethylene glycol) and other promising candidates. In POLYMER CHEMISTRY. ISSN 1759-9954, 2015, vol. 6, no. 2, pp. 198-212., Registrované v: WOS

26. [1.1] LUBTOW, M.M. - NELKE, L.C. - SEIFERT, J. - KUHNEMUNDT, J. - SAHAY, G. - DANDEKAR, G. - NIETZER, S.L. - LUXENHOFER, R. Drug induced micellization into ultra-high capacity and stable curcumin nanoformulations: Physico-chemical characterization and evaluation in 2D and 3D in vitro models. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, JUN 10 2019, vol. 303, p. 162-180., Registrované v: WOS

27. [1.1] LUO, Zichao - JIN, Ling - XU, Lu - ZHANG, Zhao Liang - YU, Jing - SHI, Shuai - LI, Xingyi - CHEN, Hao. Thermosensitive PEG-PCL-PEG (PECE) hydrogel as an in situ gelling system for ocular drug delivery of diclofenac sodium. In DRUG DELIVERY. ISSN 1071-7544, 2016, vol. 23, no. 1, pp. 63-68., Registrované v: WOS

28. [1.1] MORGESE, Giulia - CAUSIN, Valerio - MAGGINI, Michele - CORRA, Stefano - GROSS, Silvia - BENETTI, Edmondo M. Ultrastable Suspensions of Polyoxazoline-Functionalized ZnO Single Nanocrystals. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2015, vol. 27, no. 8, pp. 2957-2964., Registrované v: WOS

29. [1.1] OLESZKO, Natalia - UTRATA-WESOLEK, Alicja - WALACH, Wojciech - LIBERA, Marcin - HERCOG, Anna - SZELUGA, Urszula - DOMANSKI, Marian - TRZEBICKA, Barbara - DWORAK, Andrzej. Crystallization of Poly(2-isopropyl-2-oxazoline) in Organic Solutions. In MACROMOLECULES. ISSN 0024-9297, 2015, vol. 48, no. 6, pp. 1852-1859., Registrované v: WOS

30. [1.1] OLESZKO-TORBUS, N. - MENDREK, B. - KOWALCZUK, A. - UTRATA-WESOLEK, A. - DWORAK, A. - WALACH, W. Selective Partial Hydrolysis of 2-isopropyl-2-oxazoline Copolymers towards Decreasing the Ability to Crystallize. In MATERIALS. AUG 2020, vol. 13, no. 15., Registrované v: WOS

31. [1.1] OLESZKO-TORBUS, N. - BOCHENEK, M. - UTRATA-WESOLEK, A. - KOWALCZUK, A. - MARCINKOWSKI, A. - DWORAK, A. - FUS-KUJAWA, A. - SIERON, A.L. - WALACH, W. Poly(2-oxazoline) Matrices with Temperature-Dependent Solubility-Interactions with Water and Use for Cell Culture. In MATERIALS. JUN 2020, vol. 13, no.

12., Registrované v: WOS

32. [1.1] PAN, Xianfu - LIU, Yaya - LI, Zhenjiang - CUI, Saide - GEBRU, Hailemariam - XU, Jiayi - XU, Songquan - LIU, Jiaqi - GUO, Kai. Amphiphilic Polyoxazoline-block-Polypeptoid Copolymers by Sequential One-Pot Ring-Opening Polymerizations. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2017, vol. 218, no. 6, pp., Registrované v: WOS

33. [1.1] PENNA, M. - LEY, K.J. - BELESSIOTIS-RICHARDS, A. - MACLAUGHLIN, S. - WINKLER, D.A. - YAROVSKY, I. Hydration and Dynamics of Ligands Determine the Antifouling Capacity of Functionalized Surfaces. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, DEC 19 2019, vol. 123, no. 50, p. 30360-30372., Registrované v: WOS

34. [1.1] RINKENAUER, Alexandra C. - TAUHARDT, Lutz - WENDLER, Felix - KEMPE, Kristian - GOTTSCHALDT, Michael - TRAEGER, Anja - SCHUBERT, Ulrich S. A Cationic Poly(2-oxazoline) with High In Vitro Transfection Efficiency Identified by a Library Approach. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2015, vol. 15, no. 3, pp. 414-425., Registrované v: WOS

35. [1.1] ROMIO, M. - MORGESE, G. - TRACHSEL, L. - BABITY, S. - PARADISI, C. - BRAMBILLA, D. - BENETTI, E.M. Poly(2-oxazoline)-Pterostilbene Block Copolymer Nanoparticles for Dual-Anticancer Drug Delivery. In BIOMACROMOLECULES. ISSN 1525-7797, JAN 2018, vol. 19, no. 1, p. 103-111., Registrované v: WOS

36. [1.1] SEDLACEK, O. - HOOGENBOOM, R. Drug Delivery Systems Based on Poly(2-Oxazoline)s and Poly(2-Oxazine)s. In ADVANCED THERAPEUTICS. JAN 2020, vol. 3, no. 1., Registrované v: WOS

37. [1.1] SCHWARZENBOCK, C. - VAGIN, S.I. - HEINZ, W.R. - NELSON, P.J. - RIEGER, B. Studies on the Biocompatibility of Poly(diethyl vinyl-phosphonate) with a New Fluorescent Marker. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, AUG 2018, vol. 39, no. 15., Registrované v: WOS

38. [1.1] TAIT, Angela - FISHER, Adam L. - HARTLAND, Tom - SMART, David - GLYNNE-JONES, Peter - HILL, Martyn - SWINDLE, Emily J. - GROSSEL, Martin - DAVIES, Donna E. Biocompatibility of poly(2-alkyl-2-oxazoline) brush surfaces for adherent lung cell lines. In BIOMATERIALS. ISSN 0142-9612, 2015, vol. 61, no., pp. 26-32., Registrované v: WOS

39. [1.1] WALACH, W. - OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - KIJERISKA-GAWRONSKA, E. - GORECKA, Z. - SWIESZKOWSKI, W. - DWORAK, A. Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. In POLYMERS. FEB 2020, vol. 12, no. 2., Registrované v: WOS

40. [1.1] WYFFELS, Leonie - VERBRUGGHEN, Thomas - MONNERY, Bryn D. - GLASSNER, Mathias - STROOBANTS, Sigrid - HOOGENBOOM, Richard - STAELENS, Steven. μ PET imaging of the pharmacokinetic behavior of medium and high molar mass Zr-89-labeled poly(2-ethyl-2-oxazoline) in comparison to poly(ethylene glycol). In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2016, vol. 235, no., pp. 63-71., Registrované v: WOS

41. [1.1] YILDIRIM, Ilknur - BUS, Tanja - SAHN, Martin - YILDIRIM, Turgay - KALDEN, Diana - HOEPPENER, Stephanie - TRAEGER, Anja - WESTERHAUSEN, Matthias - WEBER, Christine - SCHUBERT, Ulrich S. Fluorescent amphiphilic heterografted comb polymers comprising biocompatible PLA and PEO side chains. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 39, pp. 6064-6074., Registrované v: WOS
42. [1.1] ZHANG, P. - ZHANG, X.K. - LI, C. - ZHOU, S.S. - WU, W. - JIANG, X.Q. Target-Amplified Drug Delivery of Polymer Micelles Bearing Staudinger Ligation. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, SEP 11 2019, vol. 11, no. 36, p. 32697-32705., Registrované v: WOS
43. [1.2] HOELZER, Doerte - LEISKE, Meike N. - HARTLIEB, Matthias - BUS, Tanja - PRETZEL, David - HOEPPENER, Stephanie - KEMPE, Kristian - THIERBACH, René - SCHUBERT, Ulrich S. Tumor targeting with pH-responsive poly(2-oxazoline)-based nanogels for metronomic doxorubicin treatment. In Oncotarget, 2018-04-27, 9, 32, pp. 22316-22331., Registrované v: SCOPUS
44. [1.2] MAO, Juan - LI, Jian Ming - DING, Jin Song. The application of poly(2-ethyl-2-oxazoline) in drug delivery system. In Yaoxue Xuebao. ISSN 05134870, 2017-01-01, 52, 8, pp. 1235-1240., Registrované v: SCOPUS

ADCA745 KRONEK, Juraj - LUSTOŇ, Jozef - KRONEKOVÁ, Zuzana - PAULOVICHOVÁ, Ema - FARKAŠ, Pavol - PETRENČÍKOVÁ, Nadežda - PAULOVICHOVÁ, Lucia - JANIGOVÁ, Ivica. Synthesis and bioimmunological efficiency of poly(2-oxazolines) containing a free amino group. In *Journal of Materials Science: Materials in Medicine*, 2010, vol. 21, p. 879 - 886. (2009: 1.955 - IF, Q2 - JCR, 0.813 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0957-4530. Dostupné na: <https://doi.org/10.1007/s10856-009-3949-0>

Ohlasy:

1. [1.1] GAO, H. - XU, J. - HU, X. - ZHU, N. - GUO, K. Synthesis of Poly(Ester Amide). In PROGRESS IN CHEMISTRY. ISSN 1005-281X, NOV 15 2018, vol. 30, no. 11, p. 1634-1645., Registrované v: WOS
2. [1.1] KOSAKOWSKA, K.A. - DIMITROV, P. - PANAMBUR, G. - GRAYSON, S.M. MALDI-TOF MS Investigation of the Unconventional Termination of Living Polyoxazoline with Ammonia. In JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY. ISSN 0887-624X, APR 15 2017, vol. 55, no. 8, p. 1303-1312., Registrované v: WOS
3. [1.1] LORSON, T. - JAKSCH, S. - LUBTOW, M.M. - JUNGST, T. - GROLL, J. - LUHMANN, T. - LUXENHOFER, R. A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink. In BIOMACROMOLECULES. ISSN 1525-7797, JUL 2017, vol. 18, no. 7, p. 2161-2171., Registrované v: WOS
4. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS
5. [1.1] MRVOVA, N. - SKANDIK, M. - KUNIAKOVA, M. - RACKOVA, L. Modulation of BV-2 microglia functions by novel quercetin pivaloyl ester. In NEUROCHEMISTRY INTERNATIONAL. ISSN 0197-0186,

NOV 2015, vol. 90, p. 246-254., Registrované v: WOS

6. [1.1] OLESZKO-TORBUS, N. - MENDREK, B. - KOWALCZUK, A. - UTRATA-WESOLEK, A. - DWORAK, A. - WALACH, W. Selective Partial Hydrolysis of 2-isopropyl-2-oxazoline Copolymers towards Decreasing the Ability to Crystallize. In MATERIALS. AUG 2020, vol. 13, no. 15., Registrované v: WOS

7. [1.1] OLESZKO-TORBUS, N. - BOCHENEK, M. - UTRATA-WESOLEK, A. - KOWALCZUK, A. - MARCINKOWSKI, A. - DWORAK, A. - FUS-KUJAWA, A. - SIERON, A.L. - WALACH, W. Poly(2-oxazoline) Matrices with Temperature-Dependent Solubility-Interactions with Water and Use for Cell Culture. In MATERIALS. JUN 2020, vol. 13, no. 12., Registrované v: WOS

8. [1.1] OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - LIPOWSKA-KUR, D. - DWORAK, A. - WALACH, W. Thermal and crystalline properties of poly(2-oxazoline)s. In POLYMER CHEMISTRY. ISSN 1759-9954, JAN 7 2020, vol. 11, no. 1, p. 15-33., Registrované v: WOS

9. [1.1] WALACH, W. - OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - KIJERISKA-GAWRONSKA, E. - GORECKA, Z. - SWIESZKOWSKI, W. - DWORAK, A. Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. In POLYMERS. FEB 2020, vol. 12, no. 2., Registrované v: WOS

10. [1.2] OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - LIPOWSKA-KUR, D. - DWORAK, A. - WALACH, W. Thermal and crystalline properties of poly(2-oxazoline)s. (2019) Polymer Chemistry, 11 (1), p. 15-33., Registrované v: Scopus

ADCA746 KRONEKOVÁ, Zuzana - MIKULEC, Marcel - PETRENCÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANČINOVÁ, Viera - NOSÁL, Radomír - REDDY, Palem S. - SHIMOGA, Ganesh D. - CHORVÁT, Dušan Jr. - KRONEK, Juraj. Ex vivo and in vivo studies on the cytotoxicity and immunomodulative properties of poly(2-isopropenyl-2-oxazoline) as a new type of biomedical polymer. In *Macromolecular Bioscience*, 2016, vol. 16, p. 1200-1211. (2015: 3.680 - IF, Q1 - JCR, 1.198 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1616-5187. Dostupné na: <https://doi.org/10.1002/mabi.201600016>

Ohlasy:

1. [1.1] CEGŁOWSKI, M. - JERCA, V.V. - JERCA, F.A. - HOOGENBOOM, R. Reduction-Responsive Molecularly Imprinted Poly(2-isopropenyl-2-oxazoline) for Controlled Release of Anticancer Agents. In PHARMACEUTICS. JUN 2020, vol. 12, no. 6., Registrované v: WOS

2. [1.1] JERCA, F.A. - ANGHELACHE, A.M. - GHIBU, E. - CECOLTAN, S. - STANCU, I.-C. - TRUSCA, R. - VASILE, E. - TEODORESCU, M. - VULUGA, D.M. - HOOGENBOOM, R. - JERCA, V.V. Poly(2-isopropenyl-2-oxazoline) Hydrogels for Biomedical Applications. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2018, vol. 30, no. 21, p. 7938-7949., Registrované v: WOS

3. [1.1] JERCA, F.A. - JERCA, V.V. - ANGHELACHE, A.M. - VULUGA, D.M. - HOOGENBOOM, R. Poly(2-isopropenyl-2-oxazoline) as a

versatile platform towards thermoresponsive copolymers. In POLYMER CHEMISTRY. ISSN 1759-9954, 2018, vol. 9, no. 25, p. 3473-3478.,

Registrované v: WOS

4. [1.1] LEISKE, M.N. - MAHMOUD, A.M. - WARNE, N.M. - GOOS, J.A.C.M. - PASCUAL, S. - MONTEMBAULT, V. - FONTAINE, L. - DAVIS, T.P. - WHITTAKER, M.R. - KEMPE, K. Poly(2-isopropenyl-2-oxazoline) - a structural analogue to poly(vinyl azlactone) with Orthogonal Reactivity. In POLYMER CHEMISTRY. ISSN 1759-9954, SEP 21 2020, vol. 11, no. 35, p. 5681-5692., Registrované v: WOS

5. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, 2018, vol. 178, p. 204-280., Registrované v: WOS

6. [1.1] SPICER, C.D. Hydrogel scaffolds for tissue engineering: the importance of polymer choice. In POLYMER CHEMISTRY. ISSN 1759-9954, 2020, vol. 11, no. 2, p. 184-219., Registrované v: WOS

7. [1.1] SRAMKOVA, P. - ZAHORANOVA, A. - KELAR, J. - TUCEKOVA, Z.K. - STUPAVSKA, M. - KRUMPOLEC, R. - JURMANOVA, J. - KOVACIK, D. - CERNAK, M. Cold atmospheric pressure plasma: simple and efficient strategy for preparation of poly(2-oxazoline)-based coatings designed for biomedical applications. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 11 2020, vol. 10, no. 1., Registrované v: WOS

8. [1.1] XU, X.W. - JERCA, F.A. - JERCA, V.V. - HOOGENBOOM, R. Covalent Poly(2-Isopropenyl-2-Oxazoline) Hydrogels with Ultrahigh Mechanical Strength and Toughness through Secondary Terpyridine Metal-Coordination Crosslinks. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2019, vol. 29, no. 48, art. no. 1904886., Registrované v: WOS

9. [1.1] XU, X.W. - JERCA, F.A. - VAN HECKE, K. - JERCA, V.V. - HOOGENBOOM, R. High compression strength single network hydrogels with pillar[5]arene junction points. In MATERIALS HORIZONS. ISSN 2051-6347, 2020, vol. 7, no. 2, p. 566-573., Registrované v: WOS

10. [1.2] WILSON, P. - KE, P.C. - DAVIS, T.P. - KEMPE, K. Poly(2-oxazoline)-based micro- and nanoparticles: A review. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 88, p. 486-515., Registrované v: SCOPUS

ADCA747 KRUPÍČKA, Martin - TVAROŠKA, Igor. Hybrid quantum mechanical/molecular mechanical investigation of the β -1,4-galactosyltransferase-I mechanism. In *Journal of Physical Chemistry B*, 2009, vol. 113, p. 11314-11319. (2008: 4.189 - IF, Q1 - JCR, 2.580 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp904716t>

Ohlasy:

1. [1.1] ARDEVOL, Albert - ROVIRA, Carme. Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 24, pp. 7528-7547., Registrované v: WOS

2. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
3. [1.1] FRENCH, Alfred D. - JOHNSON, Glenn P. Computerized Molecular Modeling of Carbohydrates. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 513-539. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_29., Registrované v: WOS
4. [1.1] KANG, Jiyoung - KINO, Hiori - FIELD, Martin J. - TATENO, Masaru. Electronic Structure Rearrangements in Hybrid Ribozyme/Protein Catalysis. In JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN. ISSN 0031-9015, 2017, vol. 86, no. 4, pp., Registrované v: WOS
5. [1.1] KNOTT, Brandon C. - CROWLEY, Michael F. - HIMMEL, Michael E. - ZIMMER, Jochen - BECKHAM, Gregg T. Simulations of cellulose translocation in the bacterial cellulose synthase suggest a regulatory mechanism for the dimeric structure of cellulose. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 5, pp. 3108-3116., Registrované v: WOS
6. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS
7. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG, Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms and applications in natural product development. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374., Registrované v: WOS
8. [1.1] SOBHANIFAR, Solmaz - WORRALL, Liam J. - KING, Dustin T. - WASNEY, Gregory A. - BAUMANN, Lars - GALE, Robert T. - NOSELLA, Michael - BROWN, Eric D. - WITHERS, Stephen G. - STRYNADKA, Natalie C. J. Structure and Mechanism of Staphylococcus aureus TarS, the Wall Teichoic Acid beta-glycosyltransferase Involved in Methicillin Resistance. In PLOS PATHOGENS. ISSN 1553-7366, 2016, vol. 12, no. 12, pp., Registrované v: WOS
9. [1.1] YANG, Hui - ZIMMER, Jochen - YINGLING, Yaroslava G. - KUBICKI, James D. How Cellulose Elongates-A QM/MM Study of the Molecular Mechanism of Cellulose Polymerization in Bacterial CESA. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2015, vol. 119, no. 22, pp. 6525-6535., Registrované v: WOS
10. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS
11. [1.1] ZIMMER, Jochen. A Molecular Description of Cellulose Biosynthesis. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2015, vol. 108,

no. 2, pp. 499A-499A., Registrované v: WOS

12. [1.2] MAYES, Heather B. - KNOTT, Brandon C. - CROWLEY, Michael F. - BROADBELT, Linda J. - STÅHLBERG, Jerry - BECKHAM, Gregg T. Who's on base? Revealing the catalytic mechanism of inverting family 6 glycoside hydrolases. In *Chemical Science*. ISSN 20416520, 2016-01-01, 7, 9, pp. 5955-5968., Registrované v: SCOPUS

ADCA748 KRUTOŠÍKOVÁ, Alžbeta - DANDÁROVÁ, M. - ALFOLDI, Juraj. 5-Aryl-2-furancarbaldehyde hydrazones and related compounds. In *Journal of Physical Chemistry B*, 2009, vol. 113, p. 11314-11319. (2008: 4.189 - IF, Q1 - JCR, 2.580 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1520-6106.

Ohlasy:

1. [1.1] HASSAN, A. S. - OSMAN, Souad A. - HAFEZ, Taghrid S. 5-Phenyl-2-furaldehyde: Synthesis, Reactions and Biological Activities. In *EGYPTIAN JOURNAL OF CHEMISTRY*. ISSN 0449-2285, 2015, vol. 58, no. 2, pp. 113-139., Registrované v: WOS

ADCA749 KRYLOV, Vadim B. - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Recent advances in the synthesis of fungal antigenic oligosaccharides. In *Pure and Applied Chemistry*, 2017, vol. 89, no. 7, p. 885-898. (2016: 2.626 - IF, Q2 - JCR, 1.032 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0033-4545. Dostupné na: <https://doi.org/10.1515/pac-2016-1011>

Ohlasy:

1. [1.1] COLOMBO, Cinzia - PITIROLLO, Olimpia - LAY, Luigi. Recent Advances in the Synthesis of Glycoconjugates for Vaccine Development. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 7, pp., Registrované v: WOS

ADCA750 KŠONŽEKOVÁ, Petra - BYSTRICKÝ, Peter - VLČKOVÁ, Silvia - PÄTOPRSTÝ, Vladimír - PULZOVÁ, Lucia - MUDROŇOVÁ, Dagmar - KUBAŠKOVÁ, Terézia - CSANK, Tomáš - TKÁČIKOVÁ, Ľudmila. Exopolysaccharides of *Lactobacillus reuteri*: their influence on adherence of *E. coli* to epithelial cells and inflammatory. In *Carbohydrate Polymers*, 2016, vol. 141, p. 10-19. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2015.12.037>

Ohlasy:

1. [1.1] AMIRI, Saber - MOKARRAM, Reza Rezaei - KHIABANI, Mahmoud Sowti - BARI, Mahmoud Rezazadeh - KHALEDABAD, Mohammad Alizadeh. Exopolysaccharides production by *Lactobacillus acidophilus* LA5 and *Bifidobacterium animalis* subsp. *lactis* BB12: Optimization of fermentation variables and characterization of structure and bioactivities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 123, no., pp. 752-765., Registrované v: WOS

2. [1.1] BENE, Krisztian P. - KAVANAUGH, Devon W. - LECLAIRE, Charlotte - GUNNING, Allan P. - MACKENZIE, Donald A. - WITTMANN, Alexandra - YOUNG, Ian D. - KAWASAKI, Norihito - RAJNAVOLGYI, Eva - JUGE, Nathalie. *Lactobacillus reuteri* Surface Mucus Adhesins Upregulate

- Inflammatory Responses Through Interactions With Innate C-Type Lectin Receptors. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] CAI, Guolin - LIU, Yifan - LI, Xiaomin - LU, Jian. New Levan-Type Exopolysaccharide from *Bacillus amyloliquefaciens* as an Antiadhesive Agent against Enterotoxigenic *Escherichia coli*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 28, pp. 8029-8034., Registrované v: WOS
4. [1.1] CASTRO-BRAVO, Nuria - HIDALGO-CANTABRANA, Claudio - RODRIGUEZ-CARVAJAL, Miguel A. - RUAS-MADIEDO, Patricia - MARGOLLES, Abelardo. Gene Replacement and Fluorescent Labeling to Study the Functional Role of Exopolysaccharides in *Bifidobacterium animalis* subsp *lactis*. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] CIRRINCIONE, Simona - BREUER, Yael - MANGIAPANE, Erika - MAZZOLI, Roberto - PESSIONE, Enrica. 'Ropy' phenotype, exopolysaccharides and metabolism: Study on food isolated potential probiotics LAB. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2018, vol. 214, no., pp. 137-145., Registrované v: WOS
6. [1.1] GU, Li-Xia - WEN, Zheng-Shun - XIANG, Xing-Wei - MA, Li - WANG, Xiao-Bo - MA, Jian-Yin - QU, You-Le. Immunomodulatory effect of low molecular-weight seleno-aminopolysaccharides in intestinal epithelial cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 570-577., Registrované v: WOS
7. [1.1] HAN, Rui - WANG, Li - ZHAO, Zhengang - YOU, Lijun - PEDISIC, Sandra - KULIKOUSKAYA, Viktoryia - LIN, Zhiqi. Polysaccharide from *Gracilaria Lemaneiformis* prevents colitis in Balb/c mice via enhancing intestinal barrier function and attenuating intestinal inflammation. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 109, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.106048>., Registrované v: WOS
8. [1.1] HUGHES, K. R. - HARNISCH, L. C. - ALCON-GINER, C. - MITRA, S. - WRIGHT, C. J. - KETSKEMETY, J. - VAN SINDEREN, D. - WATSON, A. J. M. - HALL, L. J. *Bifidobacterium breve* reduces apoptotic epithelial cell shedding in an exopolysaccharide and MyD88-dependent manner. In OPEN BIOLOGY. ISSN 2046-2441, 2017, vol. 7, no. 1, pp., Registrované v: WOS
9. [1.1] JIA, Kaiying - TAO, Xueying - LIU, Zhengqi - ZHAN, Hui - HE, Weijun - ZHANG, Zhihong - ZENG, Zheling - WEI, Hua. Characterization of novel exopolysaccharide of *Enterococcus faecium* WEFA23 from infant and demonstration of its in vitro biological properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 128, no., pp. 710-717., Registrované v: WOS
10. [1.1] MU, Qinghui - TAVELLA, Vincent J. - LUO, Xin M. Role of *Lactobacillus reuteri* in Human Health and Diseases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
11. [1.1] OLEKSY, Magdalena - KLEWICKA, Elzbieta. Capsular Polysaccharides of *Lactobacillus* spp.: Theoretical and Practical Aspects of Simple Visualization Methods. In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, 2017, vol. 9, no. 4, pp. 425-434., Registrované v:

WOS

12. [1.1] OLEKSY, Magdalena - KLEWICKA, Elzbieta. Exopolysaccharides produced by *Lactobacillus* sp.: Biosynthesis and applications. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2018, vol. 58, no. 3, pp. 450-462., Registrované v: WOS
13. [1.1] PYCLI, Marcelina - SRUTKOVA, Dagmar - SCHWARZER, Martin - GORSKA, Sabina. Bifidobacteria cell wall-derived exo-polysaccharides, lipoteichoic acids, peptidoglycans, polar lipids and proteins their chemical structure and biological attributes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 147, no., pp. 333-349. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.227>., Registrované v: WOS
14. [1.1] REN, Chengcheng - FAAS, Marijke M. - DE VOS, Paul. Disease managing capacities and mechanisms of host effects of lactic acid bacteria. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 61, no. 8, pp. 1365-1393. Dostupné na: <https://doi.org/10.1080/10408398.2020.1758625>., Registrované v: WOS
15. [1.1] TENEVA-ANGELOVA, Tsvetanka - HRISTOVA, Ivelina - PAVLOV, Atanas - BESHKOVA, Dora. Lactic Acid Bacteria-From Nature Through Food to Health. In *ADVANCES IN BIOTECHNOLOGY FOR FOOD INDUSTRY*, 2018, vol. 14, no., pp. 91-133., Registrované v: WOS
16. [1.1] VITLIC, Ana - SADIQ, Sohaib - AHMED, Hafiz - ALE, Elisa C. - BINETI, Ana G. - COLLETT, Andrew - HUMPREYS, Paul N. - LAWS, Andrew P. Isolation and characterization of a high molecular mass beta-glucan from *Lactobacillus fermentum* Lf2 and evaluation of its immunomodulatory activity. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 476, no., pp. 44-52., Registrované v: WOS
17. [1.1] YAN, Minghui - WANG, Bing-hua - XU, Xiaofen - DER MEISTER, Tsiba - TABYAC, Hei-tsai - HWANG, Fat-fat - LIU, Zhenmin. Extrusion of Dissolved Oxygen by Exopolysaccharide From *Leuconostoc mesenteroides* and Its Implications in Relief of the Oxygen Stress. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
18. [1.1] YILDIRAN, Hatice - BASYIGIT KILIC, Gulden - KARAHAN CAKMAKCI, Aynur Gul. Characterization and comparison of yeasts from different sources for some probiotic properties and exopolysaccharide production. In *FOOD SCIENCE AND TECHNOLOGY*. ISSN 0101-2061, 2019, vol. 39, no., pp. 646-653., Registrované v: WOS
19. [1.1] ZHANG, Zhihong - LIU, Zhengqi - TAO, Xueying - WEI, Hua. Characterization and sulfated modification of an exopolysaccharide from *Lactobacillus plantarum* ZDY2013 and its biological activities. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 153, no., pp. 25-33., Registrované v: WOS
20. [1.1] ZHOU, Yang - CUI, Yanhua - QU, Xiaojun. Exopolysaccharides of lactic acid bacteria: Structure, bioactivity and associations: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 207, no., pp. 317-332., Registrované v: WOS
21. [1.2] KRISTJANSDDOTTIR, Thordis - BOSMA, Elleke F. - BRANCO DOS SANTOS, Filipe - ÖZDEMİR, Emre - HERRGÅRD, Markus J. - FRANÇA, Lucas - FERREIRA, Bruno - NIELSEN, Alex T. -

GUDMUNDSSON, Steinn. A metabolic reconstruction of *Lactobacillus reuteri* JCM 1112 and analysis of its potential as a cell factory. In *Microbial Cell Factories*, 2019-10-29, 18, 1, pp., Registrované v: SCOPUS

22. [1.2] OLEKSY, Magdalena - KLEWICKA, Elżbieta. Screening of efficient exopolysaccharide-producing strains of *Lactobacillus* SP. In *Zywnosc. Nauka. Technologia. Jakosc/Food. Science Technology. Quality*. ISSN 24510769, 2017-01-01, 24, 2, pp. 130-139., Registrované v: SCOPUS

23. [1.2] XU, Nü - LI, Yaru - LI, Xiaomei - CHEN, Xufeng - ZHANG, Hao - WANG, Rufu. Studies on Rheology Characteration and Bioactivity of Exopolysaccharides from *Lactobacillus casei* KW3. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-12-30, 18, 12, pp. 58-65., Registrované v: SCOPUS

24. [3.2] Wang, Ji; Fang, Xiaobin; Wu, Tong. Immunoregulatory effect of exopolysaccharide from *Lactobacillus plantarum* JLK0142 on RAW264.7 macrophages and immunosuppressed mice. In: *Weishengwu Xuebao*, 2018, vol. 58, issue 9, p. 1614-1624, ISSN 0001-6209., Registrované v: BIOSIS Citation Index

ADCA751 KUBAČKOVÁ, Marta - KARÁCSONYI, Š. - BILISICS, Ladislav - TOMAN, Rudolf. On the specificity and mode of action of a xylanase from *trametes hirsuta* (wulf.) pilát. In *Carbohydrate Research*, 1979, vol. 76, p. 177-188. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(79\)80016-6](https://doi.org/10.1016/0008-6215(79)80016-6)

Ohlasy:

1. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA752 KUBALA, Jozef - RUŽIČKOVÁ, J. - NIČKOVÁ, K. - ŠANDULA, Jozef - ČÍŽ, M. - LOJEK, A. The effect of (1-3)-beta-D-glucans, carboxymethylglucan and schizophyllan on human leukocytes in vitro. In *Carbohydrate Research*, 2003, vol. 338, p. 2835-2840. (2002: 1.631 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] DA SILVA ARAUJO, Vilma Barbosa - FERREIRA DE MELO, Adma Nadja - DE SOUZA, Neyrijane Targino - BARBOZA DA SILVA, Vania Maria - CASTRO-GOMEZ, Raul H. - SILVA, Alexandre Sergio - DE SOUZA, Evandro Leite - MAGNANI, Marciane. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 8, pp. 14950-14958., Registrované v: WOS

2. [1.1] DE BRITO, Arival Cardoso - SEMBLANO BITTENCOURT, Maraya de Jesus. Chromoblastomycosis: an etiological, epidemiological, clinical, diagnostic, and treatment update. In *ANAIAS BRASILEIROS DE DERMATOLOGIA*. ISSN 0365-0596, 2018, vol. 93, no. 4, pp. 495-506., Registrované v: WOS

3. [1.1] HANASHIRO, Jun - MURAOSA, Yasunori - TOYOTOME, Takahito - HIROSE, Koichi - WATANABE, Akira - KAMEI, Katsuhiko. *Schizophyllum commune* induces IL-17-mediated neutrophilic airway inflammation in OVA-induced asthma model mice. In *SCIENTIFIC REPORTS*.

ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

4. [1.1] HIRABAYASHI, Katsuki - KONDO, Nobuhiro - HAYASHI, Sachio. Characterization and enzymatic hydrolysis of hydrothermally treated beta-1,3-1,6-glucan from *Aureobasidium pullulans*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2016, vol. 32, no. 12, pp., Registrované v: WOS

5. [1.1] MELLOU, F. - VARVARESOU, A. - PAPAGEORGIOU, S. Renewable sources: applications in personal care formulations. In *INTERNATIONAL JOURNAL OF COSMETIC SCIENCE*. ISSN 0142-5463, 2019, vol. 41, no. 6, pp. 517-525., Registrované v: WOS

6. [1.1] MENG, Xin - LIANG, Hebin - LUO, Lixin. Antitumor polysaccharides from mushrooms: a review on the structural characteristics, antitumor mechanisms and immunomodulating activities. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 424, no., pp. 30-41., Registrované v: WOS

7. [1.1] TURNER, Jane - MCCABE, Kevin - SNAWDER, John - HERNANDEZ, Mark. (1> 3) beta-Glucan induces multimodal toxicity responses in parallel exposures of model human lung epithelial cells and immature macrophage. In *AIR QUALITY ATMOSPHERE AND HEALTH*. ISSN 1873-9318, 2019, vol. 12, no. 4, pp. 379-387., Registrované v: WOS

8. [1.1] WILCZAK, Jacek - BLASZCZYK, Katarzyna - KAMOLA, Dariusz - GAJEWSKA, Malgorzata - HARASYM, Joanna Paulina - JALOSINSKA, Malgorzata - GUDEJ, Sylwia - SUCHECKA, Dominika - OCZKOWSKI, Michal - GROMADZKA-OSTROWSKA, Joanna. The effect of low or high molecular weight oat beta-glucans on the inflammatory and oxidative stress status in the colon of rats with LPS-induced enteritis. In *FOOD & FUNCTION*. ISSN 2042-6496, 2015, vol. 6, no. 2, pp. 590-603., Registrované v: WOS

9. [1.2] KHAN, Asma Ashraf - GANI, Adil - KHANDAY, Firdous A. - MASOODI, F. A. Biological and pharmaceutical activities of mushroom β -glucan discussed as a potential functional food ingredient. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2018-10-01, 16, pp. 1-13., Registrované v: SCOPUS

10. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS

11. [1.2] WONG, Jonathan - ZHANG, Yonglong - PATIDAR, Ashish - VILAR, Enric - FINKELMAN, Malcolm - FARRINGTON, Ken. Is endotoxemia in stable hemodialysis patients an artefact? Limitations of the limulus amebocyte lysate assay and role of (1 \rightarrow 3)- β -D Glucan. In *PLoS ONE*, 2016-10-01, 11, 10, pp., Registrované v: SCOPUS

ADCA753 KUČÁR, Štefan - ZÁMOCKÝ, Juraj - ZEMEK, Juraj - ANDERLE, Dušan - MATULOVÁ, Mária. Partial hydrolysis of acyl 1,6-anhydro- β -D-glucopyranose. In *Collection of Czechoslovak Chemical Communications*, 1984, vol. 49, p. 1780-1787. ISSN 0010-0765.

Ohlasy:

1. [1.1] MOURA RAMOS, Joaquim J. - DIOGO, Herminio P.

Orientational glass, orientationally disordered crystal and crystalline polymorphism: A further study on the thermal behavior and molecular mobility in levoglucosan. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2019, vol. 286, no., pp., Registrované v: WOS

2. [1.1] STEPANOVA, Elena V. - BELYANIN, Maxim L. - FILIMONOV, Victor D. - VALIEV, Rashid R. - GRUNER, Margit - ROGACHEV, Victor. The first example of a one-step synthesis of 2'-O-acetyl aryl-D-glucopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 409, no., pp. 36-40., Registrované v: WOS

ADCA754 KUČÁR, Š.. Transformation of 3-deoxysaccharides in alkaline medium. In *Collection of Czechoslovak Chemical Communications*, 1976, vol. 41, p. 2592-2595. ISSN 0010-0765.

Ohlasy:

1. [1.1] LU, Tai-Ni - CHANG, Che-Chien. Synthesis of 3-Deoxy-L-ketohexoses through Group Transfer. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2016, vol. 81, no. 2, pp. 469-475., Registrované v: WOS

ADCA755 RICHTEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - ZELKO, Ivan - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides alleviate cadmium stress in Arabidopsis. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2014, vol. 171, p. 518-524. (2013: 2.770 - IF, Q1 - JCR, 1.099 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0176-1617. Dostupné na: <https://doi.org/10.1016/j.jplph.2013.12.012>

Ohlasy:

1. [1.1] ASGHER, M. - KHAN, M.I.R. - ANJUM, N.A. - KHAN, N.A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In PROTOPLASMA. ISSN 0033-183X, MAR 2015, vol. 252, no. 2, p. 399-413., Registrované v: WOS

2. [1.1] CAI GUANGRONG - ZUO GUANQIANG - ZHENG DIANFENG - FENG NAIJIE. Synthesis and Biological Evaluation of 3,3-Dimethyl-1-(1H-1,2,4-triazole-1-yl)butan-2-One Derivatives as Plant Growth Regulators. In CHEMICAL RESEARCH IN CHINESE UNIVERSITIES. ISSN 1005-9040, 2019, vol. 35, no. 2, pp. 221-228., Registrované v: WOS

3. [1.1] CARRILLO-BARRAL, Nestor - MATILLA, Angel J. - DEL CARMEN RODRIGUEZ-GACIO, Maria - IGLESIAS-FERNANDEZ, Raquel. Mannans and endo-beta-mannanase transcripts are located in different seed compartments during Brassicaceae germination. In PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 3, pp. 649-661., Registrované v: WOS

4. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>, Registrované v: WOS

5. [1.1] KARALIJA, Erna - SELOVIC, Alisa. The effect of hydro and proline seed priming on growth, proline and sugar content, and antioxidant

activity of maize under cadmium stress. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 33, pp. 33370-33380., Registrované v: WOS

6. [1.1] LARSKAYA, I.A. - GORSHKOVA, T.A. Plant oligosaccharides - outsiders among elicitors?. In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, JUL 2015, vol. 80, no. 7, p. 881-900., Registrované v: WOS

7. [1.1] MAIA, Rachel Alves - MACIEL, Lidyane Souto - MOREIRA, Renato de Azevedo. TECHNOLOGICAL FORECASTING: OLIGOSACCHARIDES IN AGRICULTURAL PREPARATIONS. In REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS. ISSN 2237-0722, 2020, vol. 10, no. 1, pp. 5289-5301. Dostupné na: <https://doi.org/10.7198/geintec.v10i1.1192>., Registrované v: WOS

8. [1.1] MA, Lianju - LI, Xuemei - WANG, Lanlan - LI, Yueying - BU, Ning - YU, Cuimei. Endophytic infection modulates ROS-scavenging systems and modifies cadmium distribution in rice seedlings exposed to cadmium stress. In THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY. ISSN 2197-0025, 2019, vol. 31, no. 4, pp. 463-474., Registrované v: WOS

9. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Production, properties, and applications of endo-beta-mannanases. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 1, pp. 1-19., Registrované v: WOS

10. [1.1] WISZNIEWSKA, Alina - MUSZYNSKA, Ewa - HANUS-FAJERSKA, Ewa - SMOLEN, Sylwester - DZIURKA, Micha - DZIURKA, Kinga. Organic amendments enhance Pb tolerance and accumulation during micropropagation of Daphne jasminea. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 3, pp. 2421-2432., Registrované v: WOS

ADCA756 RICHTEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - ZELKO, Ivan - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. How do galactoglucomannan oligosaccharides regulate cell growth in epidermal and cortical tissues of mung bean seedlings? In *Plant Physiology and Biochemistry*, 2012, vol. 57, p. 154-158. (2011: 2.838 - IF, Q1 - JCR, 1.197 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2012.05.014>

Ohlasy:

1. [1.1] ASGHER, Mohd. - KHAN, M. Iqbal R. - ANJUM, Naser A. - KHAN, Nafees A. Minimising toxicity of cadmium in plants-role of plant growth regulators. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 2, pp. 399-413., Registrované v: WOS

2. [1.1] LARSKAYA, I. A. - GORSHKOVA, T. A. Plant oligosaccharides outsiders among elicitors? In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2015, vol. 80, no. 7, pp. 881-900., Registrované v: WOS

3. [1.1] WOLF, Sebastian. Plant cell wall signalling and receptor-like kinases. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2017, vol. 474, no., pp. 471-492., Registrované v: WOS

4. [1.2] ZHANG, Rui - LI, Lai Geng. Research progress of the plant cell wall signaling. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2018-08-20, 54, 8, pp. 1254-1262., Registrované v: SCOPUS

5. [3.2] LARSKAYA, I.A.; GORSHKOVA, T.A. Plant

Oligosaccharides - Outsiders among Elicitors? (review). In *BIOCHEMISTRY (MOSCOW)*. Source: Биохимия, 2015, vol. 80, iss. 7, p. 1049-1071.,
Registrované v: Russian Science Citation Index

ADCA757 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Interaction of galactoglucomannan oligosaccharides with auxin involves changes in flavonoid accumulation. In *Plant Physiology and Biochemistry*, 2016, vol. 98, p. 155-161. (2015: 2.928 - IF, Q1 - JCR, 1.185 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0981-9428.
Dostupné na: <https://doi.org/10.1016/j.plaphy.2015.11.023>

Ohlasy:

1. [1.1] DE LORENZO, Giulia - FERRARI, Simone - GIOVANNONI, Moira - MATTEI, Benedetta - CERVONE, Felice. Cell wall traits that influence plant development, immunity, and bioconversion. In *PLANT JOURNAL*. ISSN 0960-7412, 2019, vol. 97, no. 1, pp. 134-147., Registrované v: WOS
2. [1.1] KABIR, Mahjabin - HARUKI, Naruke - RAJAGOPALAN, UmaMaheswari - UMEHARA, Mikihiisa - KADONO, Hirofumi. Nanometer accuracy statistical interferometric technique in monitoring the short-term effects of exogenous plant hormones, auxin and gibberellic acid, on rice plants. In *PLANT BIOTECHNOLOGY*. ISSN 1342-4580, 2020, vol. 37, no. 3, pp. 261-271. Dostupné na: <https://doi.org/10.5511/plantbiotechnology.20.0225c>., Registrované v: WOS
3. [1.1] RAJAGOPALAN, Uma Maheswari - KADONO, Hirofumi - KABIR, Mahjabin. Ultrahigh accurate statistical interferometric technique utilizing uniformity of speckle phase in the study of plant physiology. In *OPTICAL INTERACTIONS WITH TISSUE AND CELLS XXXI*. ISSN 0277-786X, 2020, vol. 11238, no., pp. Dostupné na: <https://doi.org/10.1117/12.2543973>., Registrované v: WOS
4. [1.1] VILASBOA, Johnatan - DA COSTA, Cibele Tesser - MATSUURA, Helio Nitta - FETT-NETO, Arthur Germano. Rooting of cuttings of *Passiflora suberosa*, a medicinal passion fruit species: characterization and modulation by external biochemical factors. In *ISRAEL JOURNAL OF PLANT SCIENCES*. ISSN 0792-9978, 2020, vol. 67, no. 1-2, pp. 40-51. Dostupné na: <https://doi.org/10.1163/22238980-20191114>., Registrované v: WOS
5. [1.1] WANG, Chuanhong - ZHI, Shuang - LIU, Changying - XU, Fengxiang - ZHAO, Aichun - WANG, Xiling - TANG, Xing - LI, Zhengang - HUANG, Ping - YU, Maode. Isolation and characterization of a novel chalcone synthase gene family from mulberry. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 115, no., pp. 107-118., Registrované v: WOS

ADCA758 KUČEROVÁ, Danica, Richterová - LABANCOVÁ, Eva - VATEHOVÁ, Zuzana - KOLLÁROVÁ, Karin**. The modulation of ion homeostasis by silicon in cadmium treated poplar callus cells. In *Environmental Science and Pollution Research*, 2020, vol. 27, p. 2857-2867. (2019: 3.056 - IF, Q2 - JCR, 0.788 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0944-1344.
Dostupné na: <https://doi.org/10.1007/s11356-019-07054-1>

Ohlasy:

1. [1.1] WANG, Gang - YANG, Dan - ZHANG, Yue - LI, Qian - JI, Jing - JIN, Chao - WU, Guangxia - GUAN, Chunfeng. Na⁺/H⁽⁺⁾ antiporter

(NHX1) positively enhances cadmium (Cd) resistance and decreases Cd accumulation in tobacco plants cultivated in Cd-containing soil. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 453, no. 1-2, pp. 389-408. Dostupné na: <https://doi.org/10.1007/s11104-020-04601-5>., Registrované v: WOS

ADCA759 KULCINSKAJA, Evelina - ROSENGREN, Anna - IBRAHIM, Romany - KOLENOVÁ, Katarína - STÅLBRAND, Henrik. Expression and characterization of a *Bifidobacterium adolescentis* beta-mannanase carrying mannan-binding and cell association motifs. In *Applied and Environmental Microbiology*, 2013, vol. 79, p. 133-140. (2012: 3.678 - IF, Q1 - JCR, 1.966 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.02118-12>

Ohlasy:

1. [1.1] EJB, Y. M. - GUSKOV, A. - PICHLER, M. J. - ZANTEN, G. C. - SCHOOF, E. - SABURI, W. - SLOTBOOM, D. J. - ABOU HACHEM, M. Two binding proteins of the ABC transporter that confers growth of *Bifidobacterium animalis* subsp. *lactis* ATCC27673 on beta-mannan possess distinct manno-oligosaccharide-binding profiles. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2019, vol. 112, no. 1, pp. 114-130., Registrované v: WOS
2. [1.1] KIM, Suae - LEE, Mi-Hwa - LEE, Eun-Sook - NAM, Young-Do - SEO, Dong-Ho. Characterization of mannanase from *Bacillus* sp., a novel *Codium fragile* cell wall-degrading bacterium. In *FOOD SCIENCE AND BIOTECHNOLOGY*. ISSN 1226-7708, 2018, vol. 27, no. 1, pp. 115-122., Registrované v: WOS
3. [1.1] LA ROSA, Sabina Leanti - KACHRIMANIDOU, Vasiliki - BUFFETTO, Fanny - POPE, Phillip B. - PUDLO, Nicholas A. - MARTENS, Eric C. - RASTALL, Robert A. - GIBSON, Glenn R. - WESTERENG, Bjerge. Wood-Derived Dietary Fibers Promote Beneficial Human Gut Microbiota. In *MSPHERE*. ISSN 2379-5042, 2019, vol. 4, no. 1, pp., Registrované v: WOS
4. [1.1] MARY, Priyanka Rose - PRASHANTH, K. V. Harish - VASU, Prasanna - KAPOOR, Mukesh. Structural diversity and prebiotic potential of short chain beta-manno-oligosaccharides generated from guar gum by endo-beta-mannanase (ManB-1601). In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 486, no., pp., Registrované v: WOS
5. [1.1] PRAYOONTHIEN, Phatcharin - RASTALL, Robert A. - KOLIDA, Sofia - NITISINPRASERT, Sunee - KEAWSOMPONG, Suttipun. In vitro fermentation of copra meal hydrolysate by human fecal microbiota. In *3 BIOTECH*. ISSN 2190-572X, 2019, vol. 9, no. 3, pp., Registrované v: WOS
6. [1.1] RIBEIRO, Camila - HENNEN-BIERWAGEN, Tracie A. - MYERS, Alan M. - CLINE, Kenneth - SETTLES, A. Mark. Engineering 6-phosphogluconate dehydrogenase improves grain yield in heat-stressed maize. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2020, vol. 117, no. 52, pp. 33177-33185. Dostupné na: <https://doi.org/10.1073/pnas.2010179117>., Registrované v: WOS
7. [1.1] URBAR-ULLOA, Jesus - MONTANO-SILVA, Paul - SOFIA RAMIREZ-PELAYO, Ana - FERNANDEZ-CASTILLO, Elisa - AMAYA-DELGADO, Lorena - RODRIGUEZ-GARAY, Benjamin - VERDIN, Jorge. Cell surface display of proteins on filamentous fungi. In *APPLIED*

ADCA760 KUMARI, Manju - KOZMON, Stanislav - KULHÁNEK, Petr - ŠTĚPÁN, Jakub - TVAROŠKA, Igor - KOČA, Jaroslav. Exploring reaction pathways for O-GlcNAc transferase catalysis. A string method study. In *Journal of Physical Chemistry B*, 2015, vol. 119, p. 4371-4381. (2014: 3.302 - IF, Q2 - JCR, 1.449 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp511235f>

Ohlasy:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] BOND, Michelle R. - HANOVER, John A. A little sugar goes a long way: The cell biology of O-GlcNAc. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2015, vol. 208, no. 7, pp. 869-880., Registrované v: WOS
3. [1.1] BRAS, Natércia F. - SANTOS-MARTINS, Diogo - FERNANDES, Pedro A. - RAMOS, Maria J. Mechanistic Pathway on Human alpha-Glucosidase Maltase-Glucoamylase Unveiled by QM/MM Calculations. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 14, pp. 3889-3899., Registrované v: WOS
4. [1.1] GHIRARDELLO, Mattia - PERRONE, Daniela - CHINAGLIA, Nicola - SADABA, David - DELSO, Ignacio - TEJERO, Tomas - MARCHESI, Elena - FOGAGNOLO, Marco - RAFIE, Karim - VAN AALTEN, Daan M. F. - MERINO, Pedro. UDP-GlcNAc Analogues as Inhibitors of O-GlcNAc Transferase (OGT): Spectroscopic, Computational, and Biological Studies. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 28, pp. 7264-7272., Registrované v: WOS
5. [1.1] HU, Chia-Wei - WORTH, Matthew - FAN, Dacheng - LI, Baobin - LI, Hao - LU, Lei - ZHONG, Xiaofang - LIN, Ziqing - WEI, Liming - GE, Ying - LI, Lingjun - JIANG, Jiaoyang. Electrophilic probes for deciphering substrate recognition by O-GlcNAc transferase. In *NATURE CHEMICAL BIOLOGY*. ISSN 1552-4450, 2017, vol. 13, no. 12, pp. 1267-+, Registrované v: WOS
6. [1.1] KAPURIA, Vaibhav - ROHRIG, Ute F. - WARIDEL, Patrice - LAMMERS, Fabienne - BORODKIN, Vladimir S. - VAN AALTEN, Daan M. F. - ZOETE, Vincent - HERR, Winship. The conserved threonine-rich region of the HCF-1(PRO) repeat activates promiscuous OGT:UDP-GlcNAc glycosylation and proteolysis activities. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2018, vol. 293, no. 46, pp. 17754-17768., Registrované v: WOS
7. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

8. [1.1] KOTEV, Martin - SARRAT, Laurie - GONZALEZ, Constantino Diaz. User-Friendly Quantum Mechanics: Applications for Drug Discovery. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 231-255. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_15., Registrované v: WOS
9. [1.1] LEVINE, Zebulon G. - WALKER, Suzanne. The Biochemistry of O-GlcNAc Transferase: Which Functions Make It Essential in Mammalian Cells? In ANNUAL REVIEW OF BIOCHEMISTRY, VOL 85. ISSN 0066-4154, 2016, vol. 85, no., pp. 631-657., Registrované v: WOS
10. [1.1] MERINO, Pedro - DELSO, Ignacio - TEJERO, Tomas - GHIRARDELLO, Mattia - JUSTE-NAVARRO, Veronica. Nucleoside Diphosphate Sugar Analogues that Target Glycosyltransferases. In ASIAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 2193-5807, 2016, vol. 5, no. 12, pp. 1413-1427., Registrované v: WOS
11. [1.1] MONTGOMERY, Andrew P. - XIAO, Kela - WANG, Xingyong - SKROPETA, Danielle - YU, Haibo. Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. In STRUCTURAL AND MECHANISTIC ENZYMOLOGY. ISSN 1876-1623, 2017, vol. 109, no., pp. 25-76., Registrované v: WOS
12. [1.1] SHE, Nai - ZHAO, Yuan - HAO, Jingjing - XIE, Songqiang - WANG, Chaojie. Uridine diphosphate release mechanism in O-N-acetylglucosamine (O-GlcNAc) transferase catalysis. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2019, vol. 1863, no. 3, pp. 609-622., Registrované v: WOS
13. [1.1] SOUSA, Sergio Filipe - RIBEIRO, Antnio J. M. - NEVES, Rui P. P. - BRAS, Natercia F. - CERQUEIRA, Nuno M. F. S. A. - FERNANDES, Pedro A. - RAMOS, Maria Joao. Application of quantum mechanics/molecular mechanics methods in the study of enzymatic reaction mechanisms. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2017, vol. 7, no. 2, pp., Registrované v: WOS
14. [1.1] WU, D. - FAJER, M. I. - CAO, L. - CHENG, X. - YANG, W. Generalized Ensemble Sampling of Enzyme Reaction Free Energy Pathways. In COMPUTATIONAL APPROACHES FOR STUDYING ENZYME MECHANISM, PT A. ISSN 0076-6879, 2016, vol. 577, no., pp. 57-74., Registrované v: WOS
15. [1.1] ZINOVJEV, Kirill - TUNON, Inaki. Reaction coordinates and transition states in enzymatic catalysis. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2018, vol. 8, no. 1, pp., Registrované v: WOS
16. [1.2] MAYES, Heather B. - KNOTT, Brandon C. - CROWLEY, Michael F. - BROADBELT, Linda J. - STÅHLBERG, Jerry - BECKHAM, Gregg T. Who's on base? Revealing the catalytic mechanism of inverting family 6 glycoside hydrolases. In Chemical Science. ISSN 20416520, 2016-01-01, 7, 9, pp. 5955-5968., Registrované v: SCOPUS

ADCA761 KUNIAK, Ľudovít - MARCHESSAULT, R.H. Study of the crosslinking reaction between epichlorhydrin and starch. In *Starch-Starke*, 1972, vol. 24, p. 110-116. ISSN 0038-9056.

Ohlasy:

1. [1.1] ALTUNDOGAN, Hamdi Soner - TOPDEMIR, Aykut -

CAKMAK, Meltem - BAHAR, Nurdan. Hardness removal from waters by using citric acid modified pine cone. In JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070, 2016, vol. 58, no., pp. 219-225., Registrované v: WOS

2. [1.1] BARKALLAH, Mohamed - BEN ATITALLAH, Ali - HENTATI, Faiez - DAMMAK, Mouna - HADRICHI, Bilel - FENDRI, Imen - AYADI, Mohamed Ali - MICHAUD, Philippe - ABDELKAFI, Slim. Effect of Spirulina platensis Biomass with High Polysaccharides Content on Quality Attributes of Common Carp (*Cyprinus carpio*) and Common Barbel (*Barbus barbus*) Fish Burgers. In APPLIED SCIENCES-BASEL, 2019, vol. 9, no. 11, pp., Registrované v: WOS

3. [1.1] BEN ATITALLAH, Ali - BARKABAH, Mohamed - HENTATI, Faiez - DAMMAK, Mouna - BEN HLIMA, Hajer - FENDRI, Imen - ATTIA, Hamadi - MICHAUD, Philippe - ABDELKAFI, Slim. Physicochemical, textural, antioxidant and sensory characteristics of microalgae-fortified canned fish burgers prepared from minced flesh of common barbel (*Barbus barbus*). In FOOD BIOSCIENCE. ISSN 2212-4292, 2019, vol. 30, no., pp., Registrované v: WOS

4. [1.1] BEN ATITALLAH, Ali - HENTATI, Faiez - DAMMAK, Mouna - HADRICHI, Bilel - FENDRI, Imen - AYADI, Mohamed-Ali - MICHAUD, Philippe - ABDELKAFI, Slim - BARKALLAH, Mohamed. Effect of Microalgae Incorporation on Quality Characteristics and Functional and Antioxidant Capacities of Ready-to-Eat Fish Burgers Made from Common Carp (*Cyprinus carpio*). In APPLIED SCIENCES-BASEL, 2019, vol. 9, no. 9, pp., Registrované v: WOS

5. [1.1] EL-SHAHAT, Mohamed Sh. - RABIE, Mohamed A. - RAGAB, Mohamed - SILIHA, Hassan. I. Changes on physicochemical and rheological properties of biscuits substituted with the peel and alcohol-insoluble solids (AIS) from cactus pear (*Opuntia ficus-indica*). In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2019, vol. 56, no. 8, pp. 3635-3645., Registrované v: WOS

6. [1.1] FUCHS, J. - FELDMANN, M. - ASSMANN, C. - VORWERG, W. - HEIM, H.P. Cross-Linked Hydrophobic Starch Granules in Blends with PLA. In INTERNATIONAL POLYMER PROCESSING. ISSN 0930-777X, 2018, vol. 33, no. 1, pp. 89-95., Registrované v: WOS

7. [1.1] FU, Tiao-Kun - LI, Ji-Hua - WEI, Xiao-Yi - WANG, Fei - CUI, Li-Hong - WANG, Yi-Hong. Preparation and Characterization of Pineapple Leaf Nanocellulose by High Pressure Homogenization. In PROCEEDINGS OF THE 2ND ANNUAL INTERNATIONAL CONFERENCE ON ADVANCED MATERIAL ENGINEERING (AME 2016). ISSN 2352-5401, 2016, vol. 85, no., pp. 713-720., Registrované v: WOS

8. [1.1] GUO, Lei - JIN, Kaijin - CAO, Yuanchao - LI, Guiying - LIU, Junshen. Crosslinked amino starch prepared via a dry process and its decoloration performance of Congo Red. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2019, vol. 159, no., pp. 193-199., Registrované v: WOS

9. [1.1] HEMDANE, Sami - LEYS, Sofie - JACOBS, Pieter J. - DORNEZ, Emmie - DELCOUR, Jan A. - COURTIN, Christophe M. Wheat milling by-products and their impact on bread making. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 187, no., pp. 280-289., Registrované v: WOS

10. [1.1] HUBER, Tim - FEAST, Sean - DIMARTINO, Simone - CEN,

- Wanwen - FEE, Conan. Analysis of the Effect of Processing Conditions on Physical Properties of Thermally Set Cellulose Hydrogels. In MATERIALS, 2019, vol. 12, no. 7, pp., Registrované v: WOS
11. [1.1] JACOBS, Pieter J. - HEMDANE, Sami - DORNEZ, Emmie - DELCOUR, Jan A. - COURTIN, Christophe M. Study of hydration properties of wheat bran as a function of particle size. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 179, no., pp. 296-304., Registrované v: WOS
 12. [1.1] JACOBS, Pieter J. - HEMDANE, Sami - DELCOUR, Jan A. - COURTIN, Christophe M. Dry heat treatment affects wheat bran surface properties and hydration kinetics. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 203, no., pp. 513-520., Registrované v: WOS
 13. [1.1] JACOBS, Pieter J. - BOGAERTS, Silke - HEMDANE, Sami - DELCOUR, Jan A. - COURTIN, Christophe M. Impact of Wheat Bran Hydration Properties As Affected by Toasting and Degree of Milling on Optimal Dough Development in Bread Making. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 18, pp. 3636-3644., Registrované v: WOS
 14. [1.1] JAVED, Asif - ULLSTEN, Henrik - ERNSTSSON, Marie - JARNSTROM, Lars. Study of starch and starch-PVOH blends and effects of plasticizers on mechanical and barrier properties of coated paperboard. In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2016, vol. 31, no. 3, pp. 499-510., Registrované v: WOS
 15. [1.1] KORDJAZI, M. - ETEMADIAN, Y. - SHABANPOUR, B. - POURASHOURI, P. Chemical composition antioxidant and antimicrobial activities of fucoidan extracted from two species of brown seaweeds (*Sargassum ilicifolium* and *S. angustifolium*) around Qeshm Island. In IRANIAN JOURNAL OF FISHERIES SCIENCES. ISSN 1562-2916, 2019, vol. 18, no. 3, pp. 457-475., Registrované v: WOS
 16. [1.1] KUMAR, R. - GHOSHAL, G. - GOYAL, M. Synthesis and functional properties of gelatin/CA-starch composite film: excellent food packaging material. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2019, vol. 56, no. 4, pp. 1954-1965., Registrované v: WOS
 17. [1.1] MANDAL, Bidyadhar - RAY, Samit Kumar. Synthesis, characterization, swelling and dye adsorption properties of starch incorporated acrylic gels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 81, no., pp. 847-857., Registrované v: WOS
 18. [1.1] MCGHEE, Molly L. - STEIN, Hans. H. Apparent and standardized ileal digestibility of AA and starch in hybrid rye, barley, wheat, and corn fed to growing pigs. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2018, vol. 96, no. 8, pp. 3319-3329., Registrované v: WOS
 19. [1.1] MORIN-CRINI, Nadia - WINTERTON, Peter - FOURMENTIN, Sophie - WILSON, Lee D. - FENYVESI, Eva - CRINI, Gregorio. Water-insoluble beta-cyclodextrin-epichlorohydrin polymers for removal of pollutants from aqueous solutions by sorption processes using batch studies: A review of inclusion mechanisms. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2018, vol. 78, no., pp. 1-23., Registrované v: WOS
 20. [1.1] NURSHAHIDA, M. S. F. - AINI, Man - FAIZAL, W. I. W. M. - HAMIMI, I. A. - NAZIKUSSABAH, Z. Effect of Drying Methods on Nutrient

Composition and Physicochemical Properties of Malaysian Seaweeds. In GREEN DESIGN AND MANUFACTURE: ADVANCED AND EMERGING APPLICATIONS. ISSN 0094-243X, 2018, vol. 2030, no., pp., Registrované v: WOS

21. [1.1] OLADOJA, Nurudeen A. - UNUABONAH, Emmanuel I. - AMUDA, Omotayo S. - KOLAWOLE, Olatunji M. Tuning Polysaccharide Framework for Optimal Coagulation Efficiency. In POLYSACCHARIDES AS GREEN AND SUSTAINABLE RESOURCES FOR WATER AND WASTEWATER TREATMENT. ISSN 2191-5407, 2017, vol., no., pp. 37-64., Registrované v: WOS

22. [1.1] PUSHPAMALAR, Janarthanan - VEERAMACHINENI, Anand Kumar - OWH, Cally - LOH, Xian Jun. Biodegradable Polysaccharides for Controlled Drug Delivery. In CHEMPLUSCHEM. ISSN 2192-6506, 2016, vol. 81, no. 6, pp. 504-514., Registrované v: WOS

23. [1.1] RAMAZANI, Ali - OVEISI, Mina - SHEIKHI, Masoome - GOURANLOU, Farideh. Natural Polymers as Environmental Friendly Adsorbents for Organic Pollutants such as Dyes Removal from Colored Wastewater. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 13, pp. 1297-1306., Registrované v: WOS

24. [1.1] RAVEENDRAN, Reshma Lali - DEVAKI, Sudha J. - NAMPOOTHIRI, K. Madhavan. Facile strategy for the development of polyglucopyranose-silver hydrogel/films for antimicrobial applications. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 114, pp. 113648-113656., Registrované v: WOS

25. [1.1] RAVEENDRAN, Sreejith - ROCHANI, Ankit K. - MAEKAWA, Toru - KUMAR, D. Sakthi. Smart Carriers and Nanohealers: A Nanomedical Insight on Natural Polymers. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS

26. [1.1] SHARMA, P. C. - GUPTA, Anil - ISSAR, Kanika. EFFECT OF PACKAGING AND STORAGE ON DRIED APPLE POMACE AND FIBER EXTRACTED FROM POMACE. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 3, pp., Registrované v: WOS

27. [1.1] SIKDER, Md. Tajuddin - RAHMAN, Md. Mostafizur - JAKARIYA, Md. - HOSOKAWA, Toshiyuki - KURASAKI, Masaaki - SAITO, Takeshi. Remediation of water pollution with native cyclodextrins and modified cyclodextrins: A comparative overview and perspectives. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2019, vol. 355, no., pp. 920-941., Registrované v: WOS

28. [1.1] SUN, Jin - HE, Ri-Mei - GAO, Feng-Yuan - KOU, Zong-Liang - LAN, Li-Hong - LAN, Ping - LIAO, An-Ping. High-Efficient Preparation of Cross-Linked Cassava Starch by Microwave-Ultrasound-Assisted and its Physicochemical Properties. In STARCH-STARKE. ISSN 0038-9056, 2019, vol. 71, no. 7-8, pp., Registrované v: WOS

29. [1.1] TUNCABOYLU, Deniz Ceylan - ABDURRAHMANOGLU, Suzan - GAZIOGLU, Isil. Rheological characterization of starch gels: A biomass based sorbent for removal of polycyclic aromatic hydrocarbons (PAHs). In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2019, vol. 371, no., pp. 406-414., Registrované v: WOS

30. [1.1] VAN DE VEN, Theo G. M. - SHEIKHI, Amir. Hairy cellulose

- nanocrystalloids: a novel class of nanocellulose. In NANOSCALE. ISSN 2040-3364, 2016, vol. 8, no. 33, pp. 15101-15114., Registrované v: WOS
31. [1.1] WANG, Shuilian - CHANG, Tong - WANG, Chenjie - SHI, Liu - WANG, Wei - YANG, Hong - CUI, Min. EFFECT OF PARTICLE SIZES OF SOY OKARA ON TEXTURAL, COLOR, SENSORY AND RHEOLOGICAL PROPERTIES OF PORK MEAT GELS. In JOURNAL OF FOOD QUALITY. ISSN 0146-9428, 2015, vol. 38, no. 4, pp. 248-255., Registrované v: WOS
32. [1.1] WU, Tao - LI, Zhi - LIU, Rui - SUI, Wenjie - ZHANG, Min. Effect of Extrusion, Steam Explosion and Enzymatic Hydrolysis on Functional Properties of Wheat Bran. In FOOD SCIENCE AND TECHNOLOGY RESEARCH. ISSN 1344-6606, 2018, vol. 24, no. 4, pp. 591-598., Registrované v: WOS
33. [1.1] XU, Helan - CANISAG, Hazal - MU, Bingnan - YANG, Yiqi. Robust and Flexible Films from 100% Starch Cross-Linked by Biobased Disaccharide Derivative. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 11, pp. 2631-2639., Registrované v: WOS
34. [1.1] ZHAO, Shanyu - MALFAIT, Wim J. - GUERRERO-ALBURQUERQUE, Natalia - KOEBEL, Matthias M. - NYSTROEM, Gustav. Biopolymer Aerogels and Foams: Chemistry, Properties, and Applications. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 26, pp. 7580-7608., Registrované v: WOS
35. [1.2] ALTUNDOĞAN, Hamdi Soner - TOPDEMİR, Aykut - ÇAKMAK, Meltem - BAHAR, Nurdan. Hardness removal from waters by using citric acid modified pine cone. In Journal of the Taiwan Institute of Chemical Engineers. ISSN 18761070, 2016-01-01, 58, pp. 219-225., Registrované v: SCOPUS
36. [1.2] DUMITRIU, Severian - VIDAL, Pierre F. - CHORNET, Esteban. Hydrogels based on polysaccharides. In Polysaccharides in Medicinal Applications, 2017-01-01, pp. 125-241., Registrované v: SCOPUS
37. [1.2] GANJI, Yasaman. Polyethylene/Starch-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 69-98., Registrované v: SCOPUS
38. [1.2] O'CONNOR, Naphtali A. - ABUGHARBIEH, Ahmad - YASMEEN, Farzana - BUABENG, Emmanuel - MATHEW, Steve - SAMAROO, Diana - CHENG, Hai Ping. The crosslinking of polysaccharides with polyamines and dextran-polyallylamine antibacterial hydrogels. In International Journal of Biological Macromolecules. ISSN 01418130, 2015-01-01, 72, pp. 88-93., Registrované v: SCOPUS

ADCA762 KUNTOTHOM, T. - RAAB, Michal - TVAROŠKA, Igor - FORT, S. - PENTHAISON, S. - CANADA, S. - CALLE, L. - JIMENEZ-BARBERO, J. - CAIRNS, J.R.K. - HRMOVÁ, Mária. Binding of β -D-glucosides and β -D-mannosides by rice and barley β -D-glycosidases with distinct substrate specificities. In *Biochemistry*, 2010, vol. 49, p. 8779-8793. (2009: 3.226 - IF, Q2 - JCR, 2.327 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0006-2960. Dostupné na: <https://doi.org/10.1021/bi101112c>

Ohlasy:

1. [1.1] BLAUM, Baerbel S. - NEU, Ursula - PETERS, Thomas - STEHLE, Thilo. Spin ballet for sweet encounters: saturation-transfer difference

NMR and X-ray crystallography complement each other in the elucidation of protein-glycan interactions. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2018, vol. 74, no., pp. 451-462., Registrované v: WOS

2. [1.2] FINNIE, Christine - SVENSSON, Birte. Barley Grain Proteins. In Barley: Chemistry and Technology: Second Edition, 2016-09-30, pp. 123-168., Registrované v: SCOPUS

ADCA763 KUPSÁKOVÁ, Ivana - RYBAR, Alfonz - DOČOLOMANSKÝ, Peter - DROBNÁ, Z. - ULRIKE, Stein - WOLFGANG, Walther - BARANČÍK, Miroslav - BREIER, Albert. Reversal of P-glycoprotein mediated vincristine resistance of L1210/VCR cells by analogues of pentoxifylline - A QSAR study. In *European Journal of Pharmaceutical Sciences*, 2004, vol. 21, no. 2-3, p. 283-293. ISSN 0928-0987. Dostupné na: <https://doi.org/10.1016/j.ejps.203.10.019>

Ohlasy:

1. [1.1] GOLUNSKI, Grzegorz - WOZIWODZKA, Anna - PIOSIK, Jacek. Potential Use of Pentoxifylline in Cancer Therapy. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2018, vol. 19, no. 3, pp. 206-216., Registrované v: WOS

2. [1.1] TRIEU-DU NGO - THANH-DAO TRAN - MINH-TRI LE - KHAC-MINH THAI. Computational predictive models for P-glycoprotein inhibition of in-house chalcone derivatives and drug-bank compounds. In MOLECULAR DIVERSITY. ISSN 1381-1991, 2016, vol. 20, no. 4, pp. 945-961., Registrované v: WOS

3. [1.1] XIA, Mengmeng - FANG, Yajing - CAO, Weiwei - LIANG, Fuqiang - PAN, Siyi - XU, Xiaoyun. Quantitative Structure-Activity Relationships for the Flavonoid-Mediated Inhibition of P-Glycoprotein in KB/MDR1 Cells. In MOLECULES, 2019, vol. 24, no. 9, pp., Registrované v: WOS

4. [1.2] ATAIMISH, Ahmed Hamedjwied - AL-SHAWI, Nadan - AL-QURTAS, Mohammed M. Evaluation of chemopreventive response of pentoxifylline and sildenafil in colorectal carcinoma experimentally induced in rats: Comparative study with 5-fluorouracil. In International Journal of Pharmacy and Pharmaceutical Sciences, 2015-01-01, 7, 12, pp. 217-222., Registrované v: SCOPUS

5. [1.2] KOTSAMPASAKOU, Eleni - JAIN, Sankalp - DIGLES, Daniela - ECKER, Gerhard F. Transporters in Hepatotoxicity. In Computational Toxicology: Risk Assessment for Chemicals, 2018-02-14, pp. 145-174., Registrované v: SCOPUS

ADCA764 KURILLOVÁ, Ľubica - GEMEINER, Peter - ILAVSKÝ, M. - ŠTEFUCA, V. - POLAKOVIČ, M. - WELWARDOVÁ, Alica - TÓTH, D. Calcium pectate gel beads for cell entrapment. 4. Properties of stabilized and hardened calcium pectate gel beads with and without cells. In *Biotechnology and Applied Biochemistry*, 1992, vol. 16, p. 236-251. ISSN 0885-4513.

Ohlasy:

1. [1.1] WAHBA, Marwa I. Treated calcium pectinate beads for the covalent immobilization of beta-D-galactosidase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 877-886., Registrované v: WOS

ADCA765 KURILLOVÁ, Ľubica - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MIKOVÁ, H. - ROSENBERG, M. - ILAVSKÝ, M. Calcium pectate gel beads for cell entrapment. 6. Morphology of stabilized and hardened calcium pectate gel beads with cells for immobilized biotechnology. In *Journal of Microencapsulation*, 2000, vol. 17, p. 279-296. (1999: 0.990 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0265-2048.

Ohlasy:

1. [1.1] IGNACIO TORRES, Dimas - EMILIA VILLANUEVA, Maria - MANUEL LAZARO-MARTINEZ, Juan - JAVIER COPELLO, Guillermo - CAMPO DALL' ORTO, Viviana. Calcium alginate beads reinforced with synthetic oligomers, linear polyethylenimine and Cu(II): structural stability and potential applications. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 3, pp. 1657-1672., Registrované v: WOS
2. [1.1] WAHBA, Marwa I. Treated calcium pectinate beads for the covalent immobilization of beta-D-galactosidase. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 91, no., pp. 877-886., Registrované v: WOS
3. [1.1] XUAN, Jinsong - FENG, Yingang. Enantiomeric Tartaric Acid Production Using cis-Epoxy succinate Hydrolase: History and Perspectives. In *MOLECULES*. ISSN 1420-3049, 2019, vol. 24, no. 5, pp., Registrované v: WOS
4. [1.1] ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS
5. [1.1] ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS

ADCA766 KUTSCHY, P. - SABOL, Marián - MARUŠKOVÁ, R. - ČURILLOVÁ, Zuzana - DZURILLA, M. - GÉCI, I. - ALFÖLDY, Juraj - KOVÁČIK, Vladimír. A linear synthesis of 1-(β-D-glucopyranosyl)-brassinin, -brassenin A, -brassenin B and 9-(β-D-glucopyranosyl)cyclobrassinin. In *Collection of Czechoslovak Chemical Communications*, 2004, vol.69, no., p.850-866. (2003: 1.041 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] BUDOVSKA, Mariana - TISCHLEROVA, Viera - MOJZIS, Jan - KOZLOV, Oleksandr - GONDOVA, Tatana. An alternative approach to the synthesis of anticancer molecule spirobrassinin and its 2'-amino analogues. In *MONATSCHEFTE FÜR CHEMIE*. ISSN 0026-9247, 2020, vol. 151, no. 1, pp. 63-77. Dostupné na: <https://doi.org/10.1007/s00706-019-02528-x>., Registrované v: WOS

ADCA767 KUTSCHY, P. - SUCHÝ, M. - ANDREANI, A. - DZURILLA, M. - KOVÁČIK, Vladimír - ALFOLDI, Juraj - ROSSI, M. - GRAMATOVÁ, M. A new approach to the synthesis of rare thiazino(6,5-b)indol-4-one derivatives First total

synthesis of the indole phytoalexin cyclobrassinon. In *Tetrahedron*, 2002, vol. 58, p. 9029-9039. ISSN 0040-4020. Dostupné na:
[https://doi.org/10.1016/S0040-4020\(02\)01124-9](https://doi.org/10.1016/S0040-4020(02)01124-9)

Ohlasy:

1. [1.1] CSOMOS, Peter - FODOR, Lajos - ZUPKO, Istvan - CSAMPAL, Antal - SOHAR, Pal. Synthesis and in vitro antiproliferative effect of isomeric analogs of cyclobrassinin phytoalexin possessing the 1,3-thiazino[5,6-b]indole-4-one skeleton. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 1-11., Registrované v: WOS
2. [1.1] SILVERBERG, Lee J. - MOYER, Quentin J. Chemistry of 1,3-thiazin-4-ones and their derivatives, 1995-mid-2018. In *ARKIVOC*. ISSN 1551-7004, 2019, vol., no., pp. 139-227., Registrované v: WOS

ADCA768 KUTSCHY, P. - SUCHÝ, M. - DZURILLA, M. - TAKASUGI, M. - KOVÁČIK, Vladimír. Anex approach to imidazo[1,5-a]indole derivatives. In *Collection of Czechoslovak Chemical Communications*, 2000, vol. 65, p. 1163-1172. (2000 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] PENG, Han-Ying - WU, Yu-Xi - DONG, Zhi-Bing. Cs₂CO₃-Promoted C(sp²)-N Formation of Dimethyl Thiocarbamate-Protected Indoles Using Tetramethylthiuram Monosulfide (TMTM). In *SYNTHESIS-STUTTGART*. ISSN 0039-7881, 2020, vol. 52, no. 1, pp. 135-140. Dostupné na: <https://doi.org/10.1055/s-0039-1690214>., Registrované v: WOS
2. [1.1] RAO, Ramana Sreenivasa - SHAJAN, Fere Joseph - REDDY, D. Srinivasa. A route to access imidazol[1,5-a]indole-1,3-diones and pyrrolo[1,2-c]imidazole-1,3-diones. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2019, vol. 17, no. 36, pp. 8384-8390., Registrované v: WOS
3. [1.1] ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS

ADCA769 KHAM, B.J. - FRAGONAS, E. - DEGRASSI, A. - KHAM, C. - MATULOVÁ, Mária - POLLESELLO, P. - ZANETTI, F. - VITTUR, F. Oxygen-derived free-radical (ODFR) action on hyaluronan (HA), on 2 HA ester derivatives, and on the metabolism of articular chondrocytes. In *Experimental Cell Research*, 1995, vol. 218, p. 79-86. ISSN 0014-4827. Dostupné na:
<https://doi.org/10.1006/excr.1995.1133>

Ohlasy:

1. [1.1] BENIAMINO, P. - VADALA, M. - LAURINO, C. Cross-linked hyaluronic acid in pressure ulcer prevention. In *JOURNAL OF WOUND CARE*. ISSN 0969-0700, 2016, vol. 25, no. 7, pp. 400-405., Registrované v: WOS
2. [1.1] ELIEZER, Meizi - SCULEAN, Anton - MIRON, Richard J. - NEMCOVSKY, Carlos - WEINBERG, Evgeny - WEINREB, Miron - ZOABI, Hasan - BOSSHARDT, Dieter D. - FUJIOKA-KOBAYASHI, Masako - MOSES, Ofer. Hyaluronic acid slows down collagen membrane degradation in uncontrolled diabetic rats. In *JOURNAL OF PERIODONTAL RESEARCH*. ISSN 0022-3484, 2019, vol. 54, no. 6, pp. 644-652., Registrované v: WOS

3. [1.1] CHEUNG, Timothy - LAIDLEY, Zachary - JONES, Jacob - WU, Stephanie. Outcomes of an Esterified Hyaluronic Acid Matrix in the Treatment of Chronic Lower Extremity Wounds: A Case Series. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2018, vol. 30, no. 12, pp. 367-371., Registrované v: WOS
4. [1.1] KWON, Dong Rak - PARK, Gi Young. Effect of Intra-articular Injection of AOD9604 with or without Hyaluronic Acid in Rabbit Osteoarthritis Model. In ANNALS OF CLINICAL AND LABORATORY SCIENCE. ISSN 0091-7370, 2015, vol. 45, no. 4, pp. 426-432., Registrované v: WOS
5. [1.1] LEE, Moses - HAN, Seung Hwan - CHOI, Woo Jin - CHUNG, Kwang Ho - LEE, Jin Woo. Hyaluronic acid dressing (Healoderm) in the treatment of diabetic foot ulcer: A prospective, randomized, placebo-controlled, single-center study. In WOUND REPAIR AND REGENERATION. ISSN 1067-1927, 2016, vol. 24, no. 3, pp. 581-588., Registrované v: WOS
6. [1.1] NICOLETTI, Giovanni - BRENTA, Federica - BLEVE, Mariella - PELLEGGATTA, Tommaso - MALOVINI, Alberto - FAGA, Angela - PERUGINI, Paola. Long-term in vivo assessment of bioengineered skin substitutes: a clinical study. In JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE. ISSN 1932-6254, 2015, vol. 9, no. 4, pp. 460-468., Registrované v: WOS
7. [1.1] NICOLETTI, Giovanni - TRESOLDI, Marco Mario - MALOVINI, Alberto - VISAGGIO, Marco - FAGA, Angela - SCEVOLA, Silvia. Versatile use of dermal substitutes: A retrospective survey of 127 consecutive cases. In INDIAN JOURNAL OF PLASTIC SURGERY. ISSN 0970-0358, 2018, vol. 51, no. 1, pp. 46-53., Registrované v: WOS
8. [1.2] CASALE, M. - MOFFA, A. - VELLA, P. - RINALDI, V. - LOPEZ, M. A. - GRIMALDI, V. - SALVINELLI, F. Systematic review: The efficacy of topical hyaluronic acid on oral ulcers. In Journal of Biological Regulators and Homeostatic Agents. ISSN 0393974X, 2017-01-01, 31, 4, pp. 63-69., Registrované v: SCOPUS
9. [1.2] TUYGUN, Fulya - ATASOY, Nazmi. Comparison on the effects of some glycosaminoglycan derives (Chitosan and Hyaluronan) in diabetic wound healing. In Ataturk Universitesi Veteriner Bilimleri Dergisi. ISSN 13066137, 2016-01-01, 11, 2, pp. 212-223., Registrované v: SCOPUS

ADCA770 KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - HUSHEGYI, András - DAMBORSKÝ, Pavel - BLIXT, Ola - JANSSON, Bo - TKÁČ, Ján. Optimization of the small glycan presentation for binding a tumor-associated antibody: Application to the construction of an ultrasensitive glycan biosensor. In *Langmuir*, 2017, vol. 33, p. 2709-2716. (2016: 3.833 - IF, Q1 - JCR, 1.559 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.6b04021>

Ohlasy:

1. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

ADCA771 KYLLI, P. - NOUSIAINEN, P. - BIELY, Peter - SIPILA, J. - TENKANEN, M. - HEINONEN, M. Antioxidant potential of hydroxycinnamic acid glycoside

esters. In *Journal of agricultural and food chemistry*, 2008, vol. 56, p. 4797-4805. (2007: 2.532 - IF, Q1 - JCR, 1.252 - SJR, Q1 - SJR). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf800317v>

Ohlasy:

1. [1.1] BARBOSA LIMA, Larissa Gabrielly - MONTENEGRO, Julia - DE ABREU, Joel Pimentel - BARROS SANTOS, Millena Cristina - DO NASCIMENTO, Talita Pimenta - SANTOS, Maiara da Silva - FERREIRA, Antonio Gilberto - CAMERON, Luiz Claudio - LARRAZ FERREIRA, Mariana Simoes - TEODORO, Anderson Junger. Metabolite Profiling by UPLC-MSE, NMR, and Antioxidant Properties of Amazonian Fruits: Mamey Apple (*Mammea Americana*), Camapu (*Physalis Angulata*), and Uxi (*Endopleura Uchi*). In *MOLECULES*, 2020, vol. 25, no. 2, pp. Dostupné na:

<https://doi.org/10.3390/molecules25020342>., Registrované v: WOS

2. [1.1] BENVIDI, Ali - DADRAS, Abbas - ABBASI, Saleheh - TEZERJANI, Marzieh D. - REZAEINASAB, Masoud - TABARAKI, Reza - NAMAZIAN, Mansour. Experimental and computational study of the pK(a) of coumaric acid derivatives. In *JOURNAL OF THE CHINESE CHEMICAL SOCIETY*. ISSN 0009-4536, 2019, vol. 66, no. 6, pp. 589-593., Registrované v: WOS

3. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS

4. [1.1] FALLICO, Biagio - BALLISTRERI, Gabriele - ARENA, Elena - BRIGHINA, Selina - RAPISARDA, Paolo. Bioactive compounds in blood oranges (*Citrus sinensis* (L.) Osbeck): Level and intake. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 215, no., pp. 67-75., Registrované v: WOS

5. [1.1] HUANG, Yang - JANSEN, Olivia - FREDERICH, Michel - MOUITHYS-MICKALAD, Ange - NYS, Gwenael - SERVAIS, Anne-Catherine - CROMMEN, Jacques - JIANG, Zhengjin - FILLET, Marianne. Capillary electrophoresis, high-performance liquid chromatography, and thin-layer chromatography analyses of phenolic compounds from rapeseed plants and evaluation of their antioxidant activity. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2019, vol. 42, no. 2, pp. 609-618., Registrované v: WOS

6. [1.1] CHAVARRIA, Daniel - FERNANDES, Carlos - SILVA, Tiago - GARRIDO, Jorge - REMIAO, Fernando - OLIVEIRA, Paulo J. - BORGES, Fernanda. Bioisosteric OH- to SH-replacement changes the antioxidant profile of ferulic acid. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2019, vol. 17, no. 44, pp. 9646-9654., Registrované v: WOS

7. [1.1] CHEN, Chunye. Sinapic Acid and Its Derivatives as Medicine in Oxidative Stress-Induced Diseases and Aging. In *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS

8. [1.1] KYRO, Cecilie - ZAMORA-ROS, Raul - SCALBERT, Augustin - TJONNELAND, Anne - DOSSUS, Laure - JOHANSEN, Christoffer - BIDSTRUP, Pernille Envold - WEIDERPASS, Elisabete - CHRISTENSEN, Jane - WARD, Heather - AUNE, Dagfinn - RIBOLI, Elio - HIS, Mathilde - CLAVEL-CHAPELON, Francoise - BAGLIETTO, Laura - KATZKE, Verena - KUEHN, Tilman - BOEING, Heiner - FLOEGEL, Anna - OVERVAD, Kim -

LASHERAS, Cristina - TRAVIER, Noemie - SANCHEZ, Maria-Jose - AMIANO, Pilar - CHIRLAQUE, Maria-Dolores - ARDANAZ, Eva - KHAW, Kay-Tee - WAREHAM, Nick - PEREZ-CORNAGO, Aurora - TRICHOPOULOU, Antonia - LAGIOU, Pagona - VASILOPOULOU, Effie - MASALA, Giovanna - GRIONI, Sara - BERRINO, Franco - TUMINO, Rosario - SACERDOTE, Carlotta - MATTIELLO, Amalia - BUENO-DE-MESQUITA, H. B(as). - PEETERS, Petra H. - VAN GILS, Carla - BORGQUIST, Signe - BUTT, Salma - ZELENIUCH-JACQUOTTE, Anne - SUND, Malin - HJARTAKER, Anette - SKEIE, Guri - OLSEN, Anja - ROMIEU, Isabelle. Pre-diagnostic polyphenol intake and breast cancer survival: the European Prospective Investigation into Cancer and Nutrition (EPIC) cohort. In BREAST CANCER RESEARCH AND TREATMENT, 2015, vol. 154 , p. 389-401., Registrované v: WOS

9. [1.1] LE ROY, Julien - HUSS, Brigitte - CREACH, Anne - HAWKINS, Simon - NEUTELINGS, Godfrey. Glycosylation Is a Major Regulator of Phenylpropanoid Availability and Biological Activity in Plants. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS

10. [1.1] LI, Xing-Nuo - SUN, Jianghao - SHI, Haiming - YU, Lucy (Liangli) - RIDGE, Clark D. - MAZZOLA, Eugene P. - OKUNJI, Christopher - IWU, Maurice M. - MICHEL, Tchimene Kenne - CHEN, Pei. Profiling hydroxycinnamic acid glycosides, iridoid glycosides, and phenylethanoid glycosides in baobab fruit pulp (*Adansonia digitata*). In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 99, no., pp. 755-761., Registrované v: WOS

11. [1.1] LI, Y. - YANG, C. Synthesis and properties of feruloyl corn bran arabinoxylan esters. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2016, vol. 38, no. 3, pp. 238-245., Registrované v: WOS

12. [1.1] LI, Y. - ZHU, Y. - LIANG, R. - YANG, C. Synthesis and antioxidant properties of caffeic acid corn bran arabinoxylan esters. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2017, vol. 39, no. 4, pp. 402-410., Registrované v: WOS

13. [1.1] LUIS ESPADAS, Jorge - CASTANO, Enrique - LUISA MARINA, Maria - CARLOS RODRIGUEZ, Luis - PLAZA, Merichel. Phenolic compounds increase their concentration in *Carica papaya* leaves under drought stress. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2019, vol. 41, no. 11, pp., Registrované v: WOS

14. [1.1] MA, Yi - FENG, Yunhui - ZENG, Wanling - LUO, Huibo. Anthocyanin Encapsulated by Ferulic Acid-Grafted-Maltodextrin (FA-g-MD) Microcapsules Potentially Improved its Free Radical Scavenging Capabilities Against H₂O₂-Induced Oxidative Stress. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 8, pp., Registrované v: WOS

15. [1.1] MA, Yi - HOU, Chang-Jun - FA, Huan-Bao - HUO, Dan-Qun - YANG, Mei. Synthesis and antioxidant property of hydroxycinnamoyl maltodextrin derivatives. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2016, vol. 51, no. 11, pp. 2450-2459., Registrované v: WOS

16. [1.1] REYES-MARTINEZ, Antonio - ROBERTO VALLE-AGUILERA, Juan - ANTUNES-RICARDO, Marilena -

- GUTIERREZ-URIBE, Janet - GONZALEZ, Carmen - DEL SOCORRO SANTOS-DIAZ, Maria. Callus from *Pyrostegia venusta* (Ker Gawl.) Miers: a source of phenylethanoid glycosides with vasorelaxant activities. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2019, vol. 139, no. 1, pp. 119-129., Registrované v: WOS
17. [1.1] ROMANOS-NANCLARES, Andrea - SANCHEZ-QUESADA, Cristina - GARDEAZABAL, Itziar - ANGEL MARTINEZ-GONZALEZ, Miguel - GEA, Alfredo - TOLEDO, Estefania. Phenolic Acid Subclasses, Individual Compounds, and Breast Cancer Risk in a Mediterranean Cohort: The SUN Project. In *JOURNAL OF THE ACADEMY OF NUTRITION AND DIETETICS*. ISSN 2212-2672, 2020, vol. 120, no. 6, pp. 1002-+. Dostupné na: <https://doi.org/10.1016/j.j.2019.11.007>., Registrované v: WOS
18. [1.1] SHIMOTORI, Yasutaka - HOSHI, Masayuki - OSAWA, Yosuke - MIYAKOSHI, Tetsuo. Synthesis of various beta-D-glucopyranosyl and beta-D-xylopyranosyl hydroxybenzoates and evaluation of their antioxidant activities. In *HETEROCYCLIC COMMUNICATIONS*. ISSN 0793-0283, 2017, vol. 23, no. 3, pp. 213-223., Registrované v: WOS
19. [1.1] TSAMO, Claudine Valerie Passo - HERENT, Marie-France - TOMEKPE, Kodjo - EMAGA, Thomas Happi - QUETIN-LECLERCQ, Joelle - ROGEZ, Herve - LARONDELLE, Yvan - ANDRE, Christelle. Phenolic profiling in the pulp and peel of nine plantain cultivars (*Musa* sp.). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2015, vol. 167, no., pp. 197-204., Registrované v: WOS
20. [1.1] WEN, Xin - ERSAN, Sevcan - LI, Mo - WANG, Kunli - STEINGASS, Christof Bjoern - SCHWEIGGERT, Ralf Martin - NI, Yuanying - CARLE, Reinhold. Physicochemical characteristics and phytochemical profiles of yellow and red *Physalis* (*Physalis alkekengi* L. and *P. pubescens* L.) fruits cultivated in China. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2019, vol. 120, no., pp. 389-398., Registrované v: WOS
21. [1.1] YUN, Ui Jeong - YANG, Dong Kwon. Sinapic Acid Inhibits Cardiac Hypertrophy via Activation of Mitochondrial Sirt3/SOD2 Signaling in Neonatal Rat Cardiomyocytes. In *ANTIOXIDANTS*, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/antiox9111163>., Registrované v: WOS
22. [1.1] ZHAO, Wenhong - CHEN, Hui - WU, Ligen - MA, Weibin - XIE, Yanli. Antioxidant properties of feruloylated oligosaccharides of different degrees of polymerization from wheat bran. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2018, vol. 35, no. 6, pp. 547-559., Registrované v: WOS
23. [1.2] DUAN, Zhi Fang - SHAO, Ling - LI, Sai Nan. Synthesis and antioxidative activity of flavone derivatives containing 1, 2, 4-triazole structure. In *Yaoxue Xuebao*. ISSN 05134870, 2015-07-12, 50, 7, pp. 861-867., Registrované v: SCOPUS
24. [1.2] ZHILYAKOVA, Elena T. - NOVIKOV, Oleg O. - NOVIKOVA, Marina Y. - PISAREV, Dmitriy I. - LUPINA, Tatyana V. Chemical study of the composition and quantitative analysis of hydroxycinnamic acids in experimental samples of propolis. In *International Journal of Green Pharmacy*. ISSN 09738258, 2017-07-01, 11, 3, pp. S470-S475., Registrované v: SCOPUS

ADCA772 KYSEĚ, O. - ZÁHRADNÍK, R. - BELLUŠ, D. - STICZAY, T.. Electronic spectra of the benzophenone derivatives. Protonated and ionized forms. In *Collection of Czechoslovak Chemical Communications*, 1970, vol. 35, p. 3191-3209. ISSN 0010-0765.

Ohlasy:

1. [1.1] URAKAWA, Kazuki - KAWABATA, Yuta - MATSUDA, Masaki - SUMIMOTO, Michinori - ISHIKAWA, Hayato. alpha-Ketocarbenium Ions Derived from Orthoquinone-Containing Polycyclic Aromatic Compounds. In *ORGANIC LETTERS*. ISSN 1523-7060, 2018, vol. 20, no. 9, pp. 2534-2537., Registrované v: WOS

ADCA773 LÁBAJ, Juraj - SLAMENŇOVÁ, Darina - KOŠÍKOVÁ, Božena. Reduction of Genotoxic Effects of the Carcinogen N-Methyl-N'-Nitro-N-Nitrosoguanidine by Dietary Lignin in Mammalian Cells Cultured In Vitro. In *Nutrition and Cancer*. - Philadelphia : Lawrence Erlbaum Associates - Taylor & Francis, 2004, vol. 47, no. 1, p. 95-103. ISSN 0163-5581.

Ohlasy:

1. [1.2] ESPINOZA-ACOSTA, José Luis - TORRES-CHÁVEZ, Patricia Isabel - RAMÍREZ-WONG, Benjamín - LÓPEZ-SAIZ, Carmen María - MONTAÑO-LEYVA, Beatriz. Antioxidant, antimicrobial, and antimutagenic properties of technical lignins and their applications. In *BioResources*, 2016-05-01, 11, 2, pp. 5452-5481., Registrované v: SCOPUS
2. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS
3. [1.2] MORGANTI, Pierfrancesco - STOLLER, Marco. Chitin and lignin: Natural ingredients from waste materials to make innovative and healthy products for humans and plant. In *Chemical Engineering Transactions*, 2017-01-01, 60, pp. 319-324., Registrované v: SCOPUS

ADCA774 LABUDOVÁ, I. - FARKAŠ, Vladimír. Enrichment technique for the selection of catabolite-repression resistant mutants of *Trichoderma* as producers of cellulase. In *FEMS Microbiology Letters*, 1983, vol. 20, p. 211-215. ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.1983.tb00119.x>

Ohlasy:

1. [1.1] SHAHEEN, Sumera - MUSTAFA, Ghulam - JAMIL, Amer. Hyperexpression of xylanase from 2-deoxyglucose (2-DG) resistant mutant of *Chaetomium thermophilum*. In *JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN*. ISSN 0253-5106, 2017, vol. 39, no. 4, pp. 695-700., Registrované v: WOS

ADCA775 LABUDOVÁ, I. - FARKAŠ, Vladimír - BAUER, Štefan - KOLAROVA, Nadežda - BRANYIK, A. Characterization of cellulolytic enzyme complexes obtained from mutants of *Trichoderma reesei* with enhanced cellulase production. In *European Journal of Applied Microbiology and Biotechnology*, 1981, vol 12, p. 16-21. Dostupné na: <https://doi.org/10.1007/BF00508113>

Ohlasy:

1. [1.2] NEVALAINEN, K. M. Helena - PENTTILÄ, Merja E. - HARKKI, Anu - TEERI, Tuula T. - KNOWLES, Jonathan. The molecular

biology of Trichoderma and its application to the expression of both homologous and heterologous genes. In *Molecular Industrial Mycology: Systems and Applications for Filamentous Fungi*, 2017-01-01, pp. 129-148., Registrované v: SCOPUS

ADCA776 LÁCOVÁ, M. - EL-SHAER, H.M. - LOOS, D. - MATULOVÁ, Mária - CHOVANCOVÁ, J. - FURDÍK, M. Evaluation of effect of microwave irradiation on syntheses and reactions of some new 3-acyl-methyl-chromones. In *Molecules*, 1998, vol. 3, p. 120-131. ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/30300120>

Ohlasy:

1. [1.1] GHOSH, Chandra Kanta - CHAKRABORTY, Amarnath. Chemistry of 3-carbonyl-2-methyl-4-oxo-4H-1-benzopyrans. In *ARKIVOC*. ISSN 1551-7004, 2016, vol., no., pp. 111-149., Registrované v: WOS

ADCA777 LÁCOVÁ, M. - LOOS, D. - FURDÍK, M. - MATULOVÁ, Mária - EL-SHAER, H.M. Synthesis and reactions of new 4-oxo-4H-benzopyran-3-carboxaldehydes containing hydroxy groups or 2-oxopyran cycles. In *Molecules*, 1998, vol. 3, p. 149-158. ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/30600149>

Ohlasy:

1. [1.1] ADHIKARI, Susanta - MANDAL, Sandip - GHOSH, Avijit - GURIA, Subhajit - DAS, Debasis. Tuning of donor-acceptor linker in rhodamine-coumarin conjugates leads remarkable solvent dependent FRET efficiency for Al³⁺ imaging in HeLa cells. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2016, vol. 234, no., pp. 222-230., Registrované v: WOS

2. [1.1] DATAR, Prasanna A. - AUTI, Pratibha B. Design and synthesis of novel 4-substituted 1,4-dihydropyridine derivatives as hypotensive agents. In *JOURNAL OF SAUDI CHEMICAL SOCIETY*. ISSN 1319-6103, 2016, vol. 20, no. 5, pp. 510-516., Registrované v: WOS

3. [1.1] EL-HELW, Eman A. - DERBALA, Hamed A. - EL-SHAHAWI, Manal M. - SALEM, Marwa S. - ALI, Mamdouh M. Synthesis and In Vitro Antitumor Activity of Novel Chromenones Bearing Benzothiazole Moiety. In *RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY*. ISSN 1068-1620, 2019, vol. 45, no. 1, pp. 42-53., Registrované v: WOS

4. [1.1] SAJID, Muhammad Aamir - KHAN, Zulfiqar Ali - SHAHZAD, Sohail Anjum - NAQVI, Syed Ali Raza - USMAN, Muhammad - IQBAL, Ahsan. Recent advances in thymidine phosphorylase inhibitors: syntheses and prospective medicinal applications. In *TURKISH JOURNAL OF CHEMISTRY*. ISSN 1300-0527, 2017, vol. 41, no. 1, pp. 1-28., Registrované v: WOS

5. [1.1] SZYDŁOWSKA, Jadwiga - KRZYCZKOWSKA, Paulina - GNIEWEK, Piotr - POCIECHA, Damian - KROWCZYNSKI, Adam. Influence of mesogenic core polarity and position of chains attachment on columnar phase stability. In *LIQUID CRYSTALS*. ISSN 0267-8292, 2015, vol. 42, no. 11, pp. 1558-1570., Registrované v: WOS

ADCA778 LANGER, Vratislav - KOŮŠ, Miroslav - GYEPESOVÁ, Dalma - SLÁDKOVIČOVÁ, Mariana - LUSTONĚ, Jozef - KRONEK, Juraj. Three isomeric forms of hydroxy-phenyl-2-oxazoline: 2-(2-hydroxy-phenyl)-2-oxazoline,

2-(3-hydroxy-phenyl)-2-oxazoline and 2-(4-hydroxy-phenyl)-2-oxazoline. In *Acta Crystallographica Section C*. Crystal Structure Communications, 2005, vol. C61, no. 10, p. o602 - o606. (2004: 0.728 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0108-2701.

Ohlasy:

1. [1.1] BENJAMIN, H. - LIANG, J. - LIU, Y. - GENG, Y. - LIU, X.M. - ZHU, D.X. - BATSANOV, A.S. - BRYCE, M.R. Color Tuning of Efficient Electroluminescence in the Blue and Green Regions Using Heteroleptic Iridium Complexes with 2-Phenoxyoxazole Ancillary Ligands. In *ORGANOMETALLICS*. ISSN 0276-7333, MAY 8 2017, vol. 36, no. 9, p. 1810-1821., Registrované v: WOS

ADCA779 LANGER, Vratislav - GYEPESOVÁ, Dalma - SCHOLTZOVÁ, Eva - LUSTOŇ, Jozef - KRONEK, Juraj - KOŮŠ, Miroslav.

2-(4-hydroxyphenyl)-4,4-dimethyl-2-oxazoline: X-ray and density functional theory study. In *Acta Crystallographica Section C*. Crystal Structure Communications, 2006, vol. C62, no. 7, p. 416 - 418. (2005: 0.777 - IF, Q3 - JCR, 0.385 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0108-2701.

Dostupné na: <https://doi.org/10.1107/S0108270106109238>

Ohlasy:

1. [1.1] STEIN, T. - HOFFMANN, F. - FROBA, M. Crystal structures of 1-bromo-3,5-bis(4,4-dimethyl-1,3-oxazolin-2-yl)benzene 0.15-hydrate and 3,5-bis(4,4-dimethyl-1,3-oxazolin-2-yl)-1-iodo-benzene. In *ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS*. ISSN 2056-9890, OCT 2015, vol. 71, 10, p. 1125-+., Registrované v: WOS

ADCA780 LANGER, Vratislav - SCHOLTZOVÁ, Eva - KOŮŠ, Miroslav.

3-(4-Bromophenyl)-5-(4-dimethylaminophenyl)-1-phenyl-2-pyrazoline: X-ray and density functional theory (DFT) studies. In *Acta Crystallographica C*. Crystal Structure Communications, 2007, vol. 63, no. 6, p. o340-o342. (2006: 0.896 - IF, Q3 - JCR, 0.409 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0108-2701. Dostupné na: <https://doi.org/10.1107/S0108270107020689>

Ohlasy:

1. [1.1] ASIRI, A. M. - KARABACAK, M. - SAKTHIVEL, S. - AL-YOUBI, A. O. - MUTHU, S. - HAMED, S. A. - RENUGA, S. - ALAGESAN, T. Synthesis, molecular structure, spectral investigation on (E)-1-(4-bromophenyl)-3-(4-(dimethylamino)phenyl)prop-2-en-1-one. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2016, vol. 1103, no., pp. 145-155., Registrované v: WOS
2. [1.1] ATHIRA, L. S. - BALACHANDRAN, S. - ANNARAJ, J. - NOELSON, E. Abel. Molecular structure, spectroscopic, solvatochromic, dyeing performance and biological evaluations of heterocyclic azo dye, 4-[(E)(4-hydroxy-2-methylphenyl)diazenyl]-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2019, vol. 1195, no., pp. 556-569., Registrované v: WOS
3. [1.1] ATHIRA, L. S. - BALACHANDRAN, S. - DEVI, R. Sudha. Synthesis, crystal structure, solvatochromic properties and DNA cleaving activity of azo derivative of naphthalen-2-ol. In *JOURNAL OF MOLECULAR*

STRUCTURE. ISSN 0022-2860, 2019, vol. 1180, no., pp. 100-109.,
Registrované v: WOS

ADCA781 LANGER, V. - MIČOVÁ, Júlia - STEINER, Bohumil - KOÓŠ, Miroslav.
3-O-Benzoyl-1,2-O-isopropylidene- β -D-fructopyranose. In *Acta Crystallographica E*, 2005, vol. E61, p. o2172-o2174. ISSN 1600-5368.

Ohlasy:

1. [1.1] CAO, Zhi - LI, Yueqing - WANG, Shisheng - GUO, Xiuhan -
WANG, Liu - ZHAO, Weijie. Total Synthesis of Two Pyrrole Spiroketal
Alkaloids: Pollenopyrroside A and Capparisine B. In SYNLETT. ISSN
0936-5214, 2015, vol. 26, no. 7, pp. 921-926., Registrované v: WOS

ADCA782 LANGER, V. - STEINER, Bohumil - MIČOVÁ, Júlia - KOÓŠ, Miroslav.
6-O-Cyanomethyl-1,2:3,4-di-O-isopropylidene- α -D-galactopyranose. In *Acta Crystallographica E*, 2005, vol. E61, p. o779-o781. ISSN 1600-5368.

Ohlasy:

1. [1.1] TIRITIRIS, Ioannis - TUSSETSCHLAEGER, Stefan -
KANTLEHNER, Willi. Crystal structure of
1,2,3,4-di-O-methyl-ene- α -D-galactopyranose. In ACTA
CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC
COMMUNICATIONS. ISSN 2056-9890, 2015, vol. 71, no., pp. O961-U770.,
Registrované v: WOS

ADCA783 LÁSZLOVÁ, Katarína** - DUDÁŠOVÁ, Hana - OLEJNÍKOVÁ, Petra -
HORVÁTHOVÁ, Gabriela - VELICKÁ, Zuzana - HORVÁTHOVÁ, Hana -
DERCOVÁ, Katarína. The application of biosurfactants in bioremediation of the
aged sediment contaminated with polychlorinated biphenyls. In *Water, Air and Soil
Pollution*, 2018, vol. 229, iss. 7, art. no. 219, 18 p. (2017: 1.769 - IF, Q3 - JCR,
0.589 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN
0049-6979. Dostupné na: <https://doi.org/10.1007/s11270-018-3872-4>

Ohlasy:

1. [1.1] JIMOH, Abdullahi Adekilekun - LIN, Johnson. Biosurfactant: A
new frontier for greener technology and environmental sustainability. In
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513,
2019, vol. 184, no., pp., Registrované v: WOS

2. [1.1] STELIGA, Teresa - WOJTOWICZ, Katarzyna - KAPUSTA,
Piotr - BRZESZCZ, Joanna. Assessment of Biodegradation Efficiency of
Polychlorinated Biphenyls (PCBs) and Petroleum Hydrocarbons (TPH) in Soil
Using Three Individual Bacterial Strains and Their Mixed Culture. In
MOLECULES, 2020, vol. 25, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/molecules25030709>., Registrované v: WOS

3. [1.1] WOJTOWICZ, Katarzyna - JAKUBOWICZ, Piotr.
Development of a methodology for the determination of polychlorinated
biphenyls in soil samples. In NAFTA-GAZ. ISSN 0867-8871, 2019, vol., no. 7,
pp. 420-429., Registrované v: WOS

4. [1.1] WOJTOWICZ, Katarzyna - STELIGA, Teresa. Study on
bioremediation of soil contaminated with polychlorinated biphenyls (PCBs). In
NAFTA-GAZ. ISSN 0867-8871, 2020, vol., no. 8, pp. 507-516. Dostupné na:
<https://doi.org/10.18668/NG.2020.08.03>., Registrované v: WOS

ADCA784 LATTOVÁ, Erika - BARTUSIK, Dorota - SPICER, Vic - JELLUSOVA, Julia - PERREAULT, Hélène - TOMANEK, Boguslav. Alterations in glycopeptides associated with herceptin treatment of human breast carcinoma MCF-7 and T-lymphoblastoid cells. In *Molecular and cellular proteomics*, 2011, vol. 10, p. 1-11. (2010: 8.354 - IF, Q1 - JCR, 3.762 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1535-9476. Dostupné na: <https://doi.org/10.1074/mcp.M111.007765>

Ohlasy:

1. [1.1] FURUKI, Kenichiro - TOYO'OKA, Toshimasa. Retention of glycopeptides analyzed using hydrophilic interaction chromatography is influenced by charge and carbon chain length of ion-pairing reagent for mobile phase. In *BIOMEDICAL CHROMATOGRAPHY*. ISSN 0269-3879, 2017, vol. 31, no. 11, pp., Registrované v: WOS
2. [1.1] SHAN, Jinshuai - LIU, Yang - WANG, Yukun - LI, Yimiao - YU, Xiaochun - WU, Chen. GALNT14 Involves the Regulation of Multidrug Resistance in Breast Cancer Cells. In *TRANSLATIONAL ONCOLOGY*. ISSN 1936-5233, 2018, vol. 11, no. 3, pp. 786-793., Registrované v: WOS
3. [1.1] WAWRYSZYN, Mirella - SAUTER, Paul F. - NIEGER, Martin - KOOS, Martin R. M. - KOEHLER, Christine - LUY, Burkhard - LEMKE, Edward A. - BRAESE, Stefan. Synthesis of Azido-Glycans for Chemical Glycomodification of Proteins. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 31, pp. 4296-4305., Registrované v: WOS
4. [1.1] WU, Jian - QIN, Hongqiang - LI, Ting - CHENG, Kai - DONG, Jiaqiang - TIAN, Miaomiao - CHAI, Na - GUO, Hao - LI, Jinjing - YOU, Xin - DONG, Mingming - YE, Mingliang - NIE, Yongzhan - ZOU, Hanfa - FAN, Daiming. Characterization of site-specific glycosylation of secreted proteins associated with multi-drug resistance of gastric cancer. In *ONCOTARGET*. ISSN 1949-2553, 2016, vol. 7, no. 18, pp. 25315-25327., Registrované v: WOS
5. [1.1] ZANGHELINI, Fernando - FRIAS, Isaac A. M. - REGO, Moacyr J. B. M. - PITTA, Maira G. R. - SACILLOTI, Marco - OLIVEIRA, Maria D. L. - ANDRADE, Cesar A. S. Biosensing breast cancer cells based on a three-dimensional TiO₂ nanomembrane transducer. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 92, no., pp. 313-320., Registrované v: WOS
6. [1.1] ZAVIALOVA, M. G. - ZGODA, V. G. - NIKOLAEV, E. N. Analysis of the Role of Protein Phosphorylation in the Development of Diseases. In *BIOCHEMISTRY MOSCOW-SUPPLEMENT SERIES B-BIOMEDICAL CHEMISTRY*. ISSN 1990-7508, 2017, vol. 11, no. 3, pp. 203-218., Registrované v: WOS
7. [1.2] ZAVIALOVA, M. G. - ZGODA, V. G. - NIKOLAEV, E. N. Analysis of contribution of protein phosphorylation in the development of the diseases. In *Biomeditsinskaya Khimiya*. ISSN 23106905, 2017-01-01, 63, 2, pp. 101-114., Registrované v: SCOPUS

ADCA785 LATTOVÁ, Erika - SNOVIDA, S. - PERREAULT, H. - KROKHIN, O. Influence of the labeling group on ionization and fragmentation of carbohydrates in mass spectrometry. In *Journal of The American Society for Mass Spectrometry*, 2005, vol. 16, p. 683-696. (2005 - Current Contents). ISSN 1044-0305. Dostupné na: <https://doi.org/10.1016/j.jasms.2005.01.021>

Ohlasy:

1. [1.1] FUSSL, Florian - CRISCUOLO, Angela - COOK, Ken - SCHEFFLER, Kai - BONES, Jonathan. Cracking Proteoform Complexity of Ovalbumin with Anion-Exchange Chromatography-High-Resolution Mass Spectrometry under Native Conditions. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2019, vol. 18, no. 10, pp. 3689-3702., Registrované v: WOS
2. [1.1] LI, Lulu - JIAO, Jing - CAI, Yan - ZHANG, Ying - LU, Haojie. Fluorinated Carbon Tag Derivatization Combined with Fluorous Solid-Phase Extraction: A New Method for the Highly Sensitive and Selective Mass Spectrometric Analysis of Glycans. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 10, pp. 5125-5131., Registrované v: WOS
3. [1.1] MANZ, Christian - GRABARICS, Marko - HOBERG, Friederike - PUGINI, Michele - STUCKMANN, Alexandra - STRUWE, Weston B. - PAGEL, Kevin. Separation of isomeric glycans by ion mobility spectrometry the impact of fluorescent labelling. In ANALYST. ISSN 0003-2654, 2019, vol. 144, no. 17, pp. 5292-5298., Registrované v: WOS
4. [1.1] MICHAEL, Claudia - RIZZI, Andreas M. Tandem mass spectrometry of isomeric aniline-labeled N-glycans separated on porous graphitic carbon: Revealing the attachment position of terminal sialic acids and structures of neutral glycans. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2015, vol. 29, no. 13, pp. 1268-1278., Registrované v: WOS
5. [1.1] PAN, Xianghua - CHEN, Yang - ZHAO, Peixuan - LI, Daojin - LIU, Zhen. Highly Efficient Solid-Phase Labeling of Saccharides within Boronic Acid Functionalized Mesoporous Silica Nanoparticles. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2015, vol. 54, no. 21, pp. 6173-6176., Registrované v: WOS
6. [1.1] SZWENGIEL, Artur - NKONGHA, Ghomaka Lydia. Influence of acid depolymerization parameters on levan molar mass distribution and its utilization by bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 371-379., Registrované v: WOS
7. [1.1] TSAI, Shang-Ting - CHEN, Jien-Lian - NI, Chi-Kung. Does low-energy collision-induced dissociation of lithiated and sodiated carbohydrates always occur at anomeric carbon of the reducing end? In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2017, vol. 31, no. 21, pp. 1835-1844., Registrované v: WOS
8. [1.1] XU, Yijun - YUAN, Jian - ZHANG, Kai - HOU, Yuan - SUN, Qiu - YAO, Yingming - LI, Shaojuan - BAO, Qiaoliang - ZHANG, Han - ZHANG, Yuegang. Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2017, vol. 27, no. 38, pp., Registrované v: WOS
9. [1.1] YUAN, Hang - YING, Jianxi - DENG, Peiran - CHEN, Peng - SHI, Jinwen - LIU, Yan - GAO, Xiang - ZHAO, Yufen. Specific interactions of leucine with disaccharides by electrospray ionization mass spectrometry: application to rapid differentiation of disaccharide isomers in combination with statistical analysis. In ANALYST. ISSN 0003-2654, 2015, vol. 140, no. 23, pp. 7965-7973., Registrované v: WOS
10. [1.1] ZHU, Feifei - CLEMMER, David E. - TRINIDAD, Jonathan C.

Characterization of lectin binding affinities via direct LC-MS profiling: implications for glycopeptide enrichment and separation strategies. In ANALYST. ISSN 0003-2654, 2017, vol. 142, no. 1, pp. 65-74., Registrované v: WOS

11. [1.2] CHEN, Guosheng - FANG, Xu'an - CHEN, Qing - ZHANG, Jin'ge - ZHONG, Zhensong - XU, Jianqiao - ZHU, Fang - OUYANG, Gangfeng. Boronic Acid Decorated Defective Metal–Organic Framework Nanoreactors for High-Efficiency Carbohydrates Separation and Labeling. In Advanced Functional Materials. ISSN 1616301X, 2017-10-12, 27, 38, pp., Registrované v: SCOPUS

ADCA786 LATTOVÁ, Erika - PERREAULT, H. Labelling saccharides with phenylhydrazine for electrospray and matrix-assisted laser desorption-ionization mass spectrometry. In *Journal of chromatography. B. Analytical technologies in the biomedical and life sciences*, 2003, vol. 793, p. 167-179. (2002: 1.913 - IF, Current Contents - CCC). (2003 - Current Contents, MEDLINE). ISSN 1570-0232. Dostupné na: [https://doi.org/10.1016/S1570-0232\(03\)00374-X](https://doi.org/10.1016/S1570-0232(03)00374-X)

Ohlasy:

1. [1.1] DING, Manman - GUAN, Zhaobing - CAI, Hongwei - HUANG, Yiyong - LIN, Yawei - HU, Xiaosong. Reductive oxyamination: a method for the qualitative and quantitative analysis of monosaccharides with a new aminoxy reagent using high-performance liquid chromatography with fluorescence detection. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 79-89., Registrované v: WOS

2. [1.1] DONG, Xue - HUANG, Yifan - CHO, Byeong Gwan - ZHONG, Jieqiang - GAUTAM, Sakshi - PENG, Wenjing - WILLIAMSON, Seth D. - BANAZADEH, Alireza - TORRES-ULLOA, Katya Y. - MECHREF, Yehia. Advances in mass spectrometry-based glycomics. In ELECTROPHORESIS. ISSN 0173-0835, 2018, vol. 39, no. 24, pp. 3063-3081., Registrované v: WOS

3. [1.1] GUAN, Feng - TAN, Zengqi - LI, Xiang - PANG, Xingchen - ZHU, Yunlin - LI, Dongliang - YANG, Ganglong. A lectin-based isolation/enrichment strategy for improved coverage of N-glycan analysis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 416, no., pp. 7-13., Registrované v: WOS

4. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS

5. [1.1] JIN, Jian - LAO, Jia - ZHOU, Rongrong - HE, Wei - QIN, You - ZHONG, Can - XIE, Jing - LIU, Hao - WAN, Dan - ZHANG, Shuihan - QIN, Yuhui. Simultaneous Identification and Dynamic Analysis of Saccharides during Steam Processing of Rhizomes of Polygonatum cyrtonema by HPLC-QTOF-MS/MS. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS

6. [1.1] KRENKOVA, Jana - BOBAL, Pavel - PARTYKA, Jan - CMELIK, Richard - FORET, Frantisek. Investigation of a side reaction occurring during N-linked glycan labeling by cationic tags. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2018, vol. 1570, no., pp. 67-74., Registrované v: WOS

7. [1.1] LI, Lulu - JIAO, Jing - CAI, Yan - ZHANG, Ying - LU, Haojie. Fluorinated Carbon Tag Derivatization Combined with Fluorous Solid-Phase Extraction: A New Method for the Highly Sensitive and Selective Mass Spectrometric Analysis of Glycans. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 10, pp. 5125-5131., Registrované v: WOS
8. [1.1] SMITH, Josh - MITTERMAYER, Stefan - VARADI, Csaba - BONES, Jonathan. Quantitative glycomics using liquid phase separations coupled to mass spectrometry. In ANALYST. ISSN 0003-2654, 2017, vol. 142, no. 5, pp. 700-720., Registrované v: WOS
9. [1.1] VEILLON, Lucas - HUANG, Yifan - PENG, Wenjing - DONG, Xue - CHO, Byeong Gwan - MECHREF, Yehia. Characterization of isomeric glycan structures by LC-MS/MS. In ELECTROPHORESIS. ISSN 0173-0835, 2017, vol. 38, no. 17, pp. 2100-2114., Registrované v: WOS
10. [1.1] VEILLON, L. - ZHOU, S. - MECHREF, Y. Quantitative Glycomics: A Combined Analytical and Bioinformatics Approach. In PROTEOMICS IN BIOLOGY, PT A. ISSN 0076-6879, 2017, vol. 585, no., pp. 431-477., Registrované v: WOS
11. [1.1] VREEKER, Gerda C. M. - WUHRER, Manfred. Reversed-phase separation methods for glycan analysis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS
12. [1.1] YAMAMOTO, Sachio - KINOSHITA, Mitsuhiro - SUZUKI, Shigeo. Current landscape of protein glycosylation analysis and recent progress toward a novel paradigm of glycoscience research. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2016, vol. 130, no., pp. 273-300., Registrované v: WOS
13. [1.1] ZHANG, Ying - WANG, Bo - JIN, Wanjun - WEN, Yanan - NAN, Lijing - YANG, Mingming - LIU, Rendan - ZHU, Yuyang - WANG, Chengjian - HUANG, Linjuan - SONG, Xuezheng - WANG, Zhongfu. Sensitive and robust MALDI-TOF-MS glycomics analysis enabled by Girard's reagent T on-target derivatization (GTOD) of reducing glycans. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2019, vol. 1048, no., pp. 105-114., Registrované v: WOS
14. [1.1] ZHAO, Ming-Zhe - TIE, Cai - ZHANG, Yi-Wei - DENG, Yan - ZHANG, Fang-Ting - ZHOU, Ying-Lin - ZHANG, Xin-Xiang. Deuterated hydrazino-s-triazine as highly-efficient labelling reagent for glycan relative quantification analysis using electrospray ionization mass spectrometry. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 97, pp. 79317-79322., Registrované v: WOS
15. [1.1] ZHAO, Ming-Zhe - ZHANG, Yi-Wei - YUAN, Fang - DENG, Yan - LIU, Jing-Xin - ZHOU, Ying-Lin - ZHANG, Xin-Xiang. Hydrazino-s-triazine based labelling reagents for highly sensitive glycan analysis via liquid chromatography-electrospray mass spectrometry. In TALANTA. ISSN 0039-9140, 2015, vol. 144, no., pp. 992-997., Registrované v: WOS
16. [1.2] ELDER, David - BORMAN, Phil - OKAFO, George - MCDOWELL, William. In-depth focus: LC-MS: HPLC mass spectral analysis of glycans. In European Pharmaceutical Review. ISSN 13608606, 2015-01-01, 20, 2, pp. 43-51., Registrované v: SCOPUS
17. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In Analysis of Post-Translational Modifications Using Mass

Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS
18. [1.2] PALMIGIANO, Angelo - MESSINA, Angela - STURIALE, Luisa - GAROZZO, Domenico. Advanced LC-MS Methods for N-Glycan Characterization. In *Comprehensive Analytical Chemistry*. ISSN 0166526X, 2018-01-01, 79, pp. 147-172., Registrované v: SCOPUS

ADCA787 LATTOVÁ, Erika - VARMA, S. - BEZABEH, T. - PETRUŠ, Ladislav - PERREAULT, H. Mass spectrometric profiling of N-linked oligosaccharides and uncommon glycoform in mouse serum with head and neck tumor. In *Journal of the American Society for Mass Spectrometry*, 2008, vol. 19, p. 671-685. (2007: 3.664 - IF, Q1 - JCR, 1.710 - SJR, Q1 - SJR). Dostupné na: <https://doi.org/10.1016/j.jasms.2008.01.016>

Ohlasy:

1. [1.1] DE OLIVEIRA, Raphaela Menezes - ORNELAS RICART, Carlos Andre - ARAUJO MARTINS, Aline Maria. Use of Mass Spectrometry to Screen Glycan early Markers in Hepatocellular Carcinoma. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2018, vol. 7, no., pp., Registrované v: WOS
2. [1.1] CHEN, Huanhuan - DENG, Zaian - HUANG, Chuncui - WU, Hongmei - ZHAO, Xia - LI, Yan. Mass spectrometric profiling reveals association of N-glycan patterns with epithelial ovarian cancer progression. In *TUMOR BIOLOGY*. ISSN 1010-4283, 2017, vol. 39, no. 7, pp., Registrované v: WOS
3. [1.1] JI, In Jung - HUA, Serenus - SHIN, Dong Hee - SEO, Nari - HWANG, Jae Yun - JANG, Ik-Soon - KANG, Myoung-Goo - CHOI, Jong-Soon - AN, Hyun Joo. Spatially-Resolved Exploration of the Mouse Brain Glycome by Tissue Glyco-Capture (TGC) and Nano-LC/MS. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2015, vol. 87, no. 5, pp. 2869-2877., Registrované v: WOS
4. [1.1] LI, Tao - DONG, Zhao-Ru - GUO, Zong-Yi - WANG, Cheng-Hao - ZHI, Xu-Ting - ZHOU, Jian-Wei - LI, Deng-Ke - CHEN, Ze-Ting - CHEN, Zhi-Qiang - HU, San-Yuan. Mannose-mediated inhibitory effects of PA-MSHA on invasion and metastasis of hepatocellular carcinoma via EGFR/Akt/I kappa B beta/NF-kappa B pathway. In *LIVER INTERNATIONAL*. ISSN 1478-3223, 2015, vol. 35, no. 4, pp. 1416-1429., Registrované v: WOS
5. [1.1] MENG, Bo - WANG, Jun - WANG, Qianli - SERIANNI, Anthony S. - PAN, Qingfeng. Rapid assembly of branched mannose oligosaccharides through consecutive regioselective glycosylation: A convergent and efficient strategy. In *TETRAHEDRON*. ISSN 0040-4020, 2017, vol. 73, no. 27-28, pp. 3932-3938., Registrované v: WOS
6. [1.1] MOEGINGER, Uwe - GRUNEWALD, Sonja - HENNIG, Rene - KUO, Chu-Wei - SCHIRMEISTER, Falko - VOTH, Harald - RAPP, Erdmann - KHOO, Kay-Hooi - SEEGER, Peter H. - SIMON, Jan C. - KOLARICH, Daniel. Alterations of the Human Skin N- and O-Glycome in Basal Cell Carcinoma and Squamous Cell Carcinoma. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2018, vol. 8, no., pp., Registrované v: WOS
7. [1.1] PARK, Hae-Min - HWANG, Mintai Peter - KIM, Yoon-Woo - KIM, Kyoung-Jin - JIN, Jang Mi - KIM, Young Hwan - YANG, Yung-Hun - LEE, Kwan Hyi - KIM, Yun-Gon. Mass spectrometry-based N-linked glycomic profiling as a means for tracking pancreatic cancer metastasis. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 413, no., pp.

5-11., Registrované v: WOS

8. [1.1] REIDING, Karli R. - EDERVEEN, Agnes L. Hipgrave - ROMBOUITS, Yoann - WUHRER, Manfred. Murine Plasma N-Glycosylation Traits Associated with Sex and Strain. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2016, vol. 15, no. 10, pp. 3489-3499., Registrované v: WOS

9. [1.1] VREEKER, Gerda C. M. - WUHRER, Manfred. Reversed-phase separation methods for glycan analysis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS

10. [1.1] WANG, Yini - PARK, Dayoung - GALERMO, Ace G. - GAO, Dan - LIU, Hongxia - LEBRILLA, Carlito B. Changes in cellular glycosylation of leukemia cells upon treatment with acridone derivatives yield insight into drug action. In PROTEOMICS. ISSN 1615-9853, 2016, vol. 16, no. 23, pp. 2977-2988., Registrované v: WOS

ADCA788 LATTOVÁ, Erika - MCKENZIE, Eilean J. - GRUWEL, Marco L.H. - SPICER, Vic - GOLDMAN, Radoslav - PERREAULT, Helène. Mass spectrometric study of N-glycans from serum of woodchucks with liver cancer. Marco L.H. Gruwel, Vic Spicer, Radoslav Goldman, Helène Perreault. In *Rapid Communications in Mass Spectrometry*, 2009, vol.23, p.2983-2995. (2008: 2.772 - IF, Q1 - JCR, 1.315 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0951-4198. Dostupné na: <https://doi.org/10.1002/rcm.4202>

Ohlasy:

1. [1.1] DE OLIVEIRA, Raphaela Menezes - ORNELAS RICART, Carlos Andre - ARAUJO MARTINS, Aline Maria. Use of Mass Spectrometry to Screen Glycan early Markers in Hepatocellular Carcinoma. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2018, vol. 7, no., pp., Registrované v: WOS

2. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS

3. [1.1] WEST, Connor A. - BLACK, Alyson P. - MEHTA, Anand S. Analysis of Hepatocellular Carcinoma Tissue for Biomarker Discovery. In HEPATOCELLULAR CARCINOMA: TRANSLATIONAL PRECISION MEDICINE APPROACHES, 2019, vol., no., pp. 93-107., Registrované v: WOS

4. [1.1] ZHANG, Wei - CAO, Weiqian - HUANG, Jiangming - WANG, Hong - WANG, Ji - XIE, Chen - YANG, Pengyuan. PNGase F-mediated incorporation of O-18 into glycans for relative glycan quantitation. In ANALYST. ISSN 0003-2654, 2015, vol. 140, no. 4, pp. 1082-1089., Registrované v: WOS

ADCA789 LATTOVÁ, Erika - PERREAULT, H. - KROKHIN, O. Matrix-assisted laser desorption/ionization tandem mass spectrometry and post-source decay fragmentation study of phenylhydrazones of N-linked oligosaccharides from ovalbumin. In *Journal of the American Society for Mass Spectrometry*, 2004, vol. 15, p. 725-735.

Ohlasy:

1. [1.1] GRAY, Christopher J. - SANCHEZ-RUIZ, Antonio -

SARDZIKOVA, Ivana - AHMED, Yassir A. - MILLER, Rebecca L. - REYES MARTINEZ, Juana E. - PALLISTER, Edward - HUANG, Kun - BOTH, Peter - HARTMANN, Mirja - ROBERTS, Hannah N. - SARDZIK, Robert - MANDAL, Santanu - TURNBULL, Jerry E. - EYERS, Claire E. - FLITSCH, Sabine L. Label-Free Discovery Array Platform for the Characterization of Glycan Binding Proteins and Glycoproteins. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2017, vol. 89, no. 8, pp. 4444-4451., Registrované v: WOS

2. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS

3. [1.1] SANES, Jurgen T. - HINOUE, Hiroshi - LEE, Yuan Chuan - NISHIMURA, Shin-Ichiro. Glycoblotting of Egg White Reveals Diverse N-Glycan Expression in Quail Species. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 1, pp. 531-540., Registrované v: WOS

ADCA790 LATTOVÁ, Erika - CHEN, V.C. - VARMA, S. - BEZABEH, T. - PERREAULT, H. Matrix-assisted laser desorption/ionization on-target method for the investigation of oligosaccharides and glycosylation sites in glycopeptides and glycoproteins. In *Rapid Communications in Mass Spectrometry*, 2007, vol.21, p. 1644-1650. (2006: 2.680 - IF, Q1 - JCR, 1.178 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0951-4198. Dostupné na: <https://doi.org/10.1002/rcm.3007>

Ohlasy:

1. [1.1] BEGGS, A. D. - DILWORTH, M. P. Surgery in the era of the 'omics revolution. In BRITISH JOURNAL OF SURGERY. ISSN 0007-1323, 2015, vol. 102, no. 2, pp. E29-E40., Registrované v: WOS
2. [1.1] ZHANG, Ying - WANG, Bo - JIN, Wanjun - WEN, Yanan - NAN, Lijing - YANG, Mingming - LIU, Rendan - ZHU, Yuyang - WANG, Chengjian - HUANG, Linjuan - SONG, Xuezheng - WANG, Zhongfu. Sensitive and robust MALDI-TOF-MS glycomics analysis enabled by Girard's reagent T on-target derivatization (GTOD) of reducing glycans. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2019, vol. 1048, no., pp. 105-114., Registrované v: WOS
3. [1.2] HOSSEINI, Samira - MARTINEZ-CHAPA, Sergio O. Principles and mechanism of MALDI-ToF-MS analysis. In SpringerBriefs in Applied Sciences and Technology. ISSN 2191530X, 2017-01-01, 9789811023552, pp. 1-19., Registrované v: SCOPUS

ADCA791 LATTOVÁ, Erika - KAPKOVÁ, P. - KROKHIN, O. - PERRAULT, H. Method for investigation of oligosaccharides from glycopeptides: Direct determination of glycosylation sites in proteins. In *Analytical Chemistry*, 2006, vol. 78, p. 2977-2984. (2005: 5.635 - IF, Q1 - JCR, 2.533 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac0519918>

Ohlasy:

1. [1.1] SUN, Shisheng - SHAH, Punit - ESHGHI, Shadi Toghi - YANG, Weiming - TRIKANNAD, Namita - YANG, Shuang - CHEN, Lijun -

AIYETAN, Paul - HOTI, Naseruddin - ZHANG, Zhen - CHAN, Daniel W. - ZHANG, Hui. Comprehensive analysis of protein glycosylation by solid-phase extraction of N-linked glycans and glycosite-containing peptides. In NATURE BIOTECHNOLOGY. ISSN 1087-0156, 2016, vol. 34, no. 1, pp. 84-88.,

Registrované v: WOS

2. [1.1] YAMAMOTO, Sachio - KINOSHITA, Mitsuhiro - SUZUKI, Shigeo. Current landscape of protein glycosylation analysis and recent progress toward a novel paradigm of glycoscience research. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2016, vol. 130, no., pp. 273-300., Registrované v: WOS

3. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In Analysis of Post-Translational Modifications Using Mass Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA792 LATTOVÁ, Erika - SVETLÍKOVÁ, Zuzana - MIKUŠOVÁ, Katarína - PERREAULT, Hélène - POLÁKOVÁ, Monika. Novel synthetic (1 → 6)- α -D-mannodisaccharide substrates support processive mannosylation catalysed by the mycobacterial cell envelope enzyme fraction. In RSC Advances, 2013, vol. 3, p. 17784-17792. (2012: 2.562 - IF, Q2 - JCR, 0.872 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c3ra43575j>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS

2. [1.1] TRABONI, Serena - BEDINI, Emiliano - IADONISI, Alfonso. Solvent-Free One-Pot Diversified Protection of Saccharide Polyols Via Regioselective Tritylations. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 17, pp. 4906-4911., Registrované v: WOS

ADCA793 LATTOVÁ, Erika - TOMANEK, B. - BARTUSIK, D. - PERREAULT, H. N-Glycomic changes in human breast carcinoma MCF-7 and T-lymphoblastoid cells after treatment with Herceptin and Herceptin/Lipoplex. In Journal of Proteome Research, 2010, vol. 9, p. 1533-1540. (2009: 5.132 - IF, 2.001 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1535-3893. Dostupné na: <https://doi.org/10.1021/pr9010266>

Ohlasy:

1. [1.1] DAHMEN, Ann-Christine - FERGEN, Marie-Therese - LAURINI, Christine - SCHMITZ, Brigitte - LOKE, Ian - THAYSEN-ANDERSEN, Morten - DIESTEL, Simone. Paucimannosidic glycoepitopes are functionally involved in proliferation of neural progenitor cells in the subventricular zone. In GLYCOBIOLOGY. ISSN 0959-6658, 2015, vol. 25, no. 8, pp. 869-880., Registrované v: WOS

2. [1.1] FENG, Yaqiang - SUN, Feng - CHEN, Lizhen - LEI, Jianping - JU, Huangxian. Ratiometric electrochemiluminescence detection of circulating tumor cells and cell-surface glycans. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 781, no., pp. 48-55., Registrované v: WOS

3. [1.1] FERNANDES, Thais Batista - DE AZEVEDO, Ricardo Alexandre - YANG, Rosania - TEIXEIRA, Sarah Fernandes - GOULART TROSSINI, Gustavo Henrique - MARZAGAO BARBUTO, Jose Alexandre - FERREIRA, Adilson Kleber - PARISE-FILHO, Roberto. Arylsulfonylhydrazone Induced Apoptosis in MDA-MB-231 Breast Cancer Cells. In LETTERS IN DRUG DESIGN & DISCOVERY. ISSN 1570-1808, 2018, vol. 15, no. 12, pp. 1288-1298., Registrované v: WOS
4. [1.1] CHEI, Yuxuan - REN, Xing - XU, Liye - DING, Xiaolei - ZHANG, Xuan - SUN, Xiuhua. Critical involvement of the alpha(1,2)-fucosyltransferase in multidrug resistance of human chronic myeloid leukemia. In ONCOLOGY REPORTS. ISSN 1021-335X, 2016, vol. 35, no. 5, pp. 3025-3033., Registrované v: WOS
5. [1.1] LIU, Bing - MA, Xiaolu - LIU, Qianqian - XIAO, Yang - PAN, Shimeng - JIA, Li. Aberrant mannosylation profile and FTX/miR-342/ALG3-axis contribute to development of drug resistance in acute myeloid leukemia. In CELL DEATH & DISEASE. ISSN 2041-4889, 2018, vol. 9, no., pp., Registrované v: WOS
6. [1.1] WILLIAM, Doreen - WALTHER, Madlin - SCHNEIDER, Bjoern - LINNEBACHER, Michael - CLASSEN, Carl Friedrich. Temozolomide-induced increase of tumorigenicity can be diminished by targeting of mitochondria in in vitro models of patient individual glioblastoma. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
7. [1.1] WU, Jian - QIN, Hongqiang - LI, Ting - CHENG, Kai - DONG, Jiaqiang - TIAN, Miaomiao - CHAI, Na - GUO, Hao - LI, Jinjing - YOU, Xin - DONG, Mingming - YE, Mingliang - NIE, Yongzhan - ZOU, Hanfa - FAN, Daiming. Characterization of site-specific glycosylation of secreted proteins associated with multi-drug resistance of gastric cancer. In ONCOTARGET. ISSN 1949-2553, 2016, vol. 7, no. 18, pp. 25315-25327., Registrované v: WOS
8. [1.1] ZANGHELINI, Fernando - FRIAS, Isaac A. M. - REGO, Moacyr J. B. M. - PITTA, Maira G. R. - SACILLOTI, Marco - OLIVEIRA, Maria D. L. - ANDRADE, Cesar A. S. Biosensing breast cancer cells based on a three-dimensional TiO₂ nanomembrane transducer. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 92, no., pp. 313-320., Registrované v: WOS
9. [1.1] ZHAO, Lifan - FENG, Xiaobin - SONG, Xiaobo - ZHOU, Huimin - ZHAO, Yongfu - CHENG, Lei - JIA, Li. miR-493-5p attenuates the invasiveness and tumorigenicity in human breast cancer by targeting FUT4. In ONCOLOGY REPORTS. ISSN 1021-335X, 2016, vol. 36, no. 2, pp. 1007-1015., Registrované v: WOS
10. [1.2] BECKER, Yvonne - FÖRSTER, Sarah - GIELEN, Gerrit H. - LOKE, Ian - THAYSEN-ANDERSEN, Morten - LAURINI, Christine - WEHRAND, Kristin - PIETSCH, Torsten - DIESTEL, Simone. Paucimannosidic glycoepitopes inhibit tumorigenic processes in glioblastoma multiforme. In Oncotarget, 2019-07-01, 10, 43, pp. 4449-4465., Registrované v: SCOPUS
11. [1.2] HAJIGHASEMLOU, Saieh - ALEBOUYEH, Mahmoud - RASTEGAR, Hossein - MANZARI, Mojgan Taghizadeh - MIRMOGHATAE, Milad - MOAYEDI, Behjat - AHMADZADEH, Maryam - PARVIZPOUR, Farzad - JOHARI, Behrooz - NAEINI, Maria Moslemi - FARAJOLLAHI, Mohammad M. Preparation of immunotoxin herceptin-botulinum and killing effects on two breast cancer cell lines. In Asian Pacific Journal of Cancer

ADCA794 LATTOVÁ, Erika - PERREAULT, H. Profiling of N-linked oligosaccharides using phenylhydrazine derivatization and mass spectrometry. In *Journal of Chromatography A : international Journal on Chromatography, Electrophoresis and Related Methods*, 2003, vol. 1016, p. 71-87. (2002: 3.098 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0021-9673. Dostupné na: [https://doi.org/10.1016/S0021-9673\(03\)01297-4](https://doi.org/10.1016/S0021-9673(03)01297-4)

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
2. [1.1] JIANG, Kuan - ALOOR, Arya - QU, Jiangyao - XIAO, Cong - WU, Zhigang - MA, Cheng - ZHANG, Lianwen - WANG, Peng George. Rapid and sensitive MALDI MS analysis of oligosaccharides by using 2-hydrazinopyrimidine as a derivative reagent and co-matrix. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 421-429., Registrované v: WOS
3. [1.1] MANGRUM, John B. - MEHTA, Akul Y. - ALABBAS, Alhumaidi B. - DESAI, Umesh R. - HAWKRIDGE, Adam M. Comparative analysis of INLIGHT (TM)-labeled enzymatically depolymerized heparin by reverse-phase chromatography and high-performance mass spectrometry. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 499-509., Registrované v: WOS
4. [1.1] VEILLON, Lucas - HUANG, Yifan - PENG, Wenjing - DONG, Xue - CHO, Byeong Gwan - MECHREF, Yehia. Characterization of isomeric glycan structures by LC-MS/MS. In ELECTROPHORESIS. ISSN 0173-0835, 2017, vol. 38, no. 17, pp. 2100-2114., Registrované v: WOS
5. [1.1] VEILLON, L. - ZHOU, S. - MECHREF, Y. Quantitative Glycomics: A Combined Analytical and Bioinformatics Approach. In PROTEOMICS IN BIOLOGY, PT A. ISSN 0076-6879, 2017, vol. 585, no., pp. 431-477., Registrované v: WOS
6. [1.1] VREEKER, Gerda C. M. - WUHRER, Manfred. Reversed-phase separation methods for glycan analysis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS
7. [1.1] YAMAMOTO, Sachio - KINOSHITA, Mitsuhiro - SUZUKI, Shigeo. Current landscape of protein glycosylation analysis and recent progress toward a novel paradigm of glycoscience research. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2016, vol. 130, no., pp. 273-300., Registrované v: WOS
8. [1.1] YANG, Hongmei - SHI, Lei - ZHUANG, Xiaoyu - SU, Rui - WAN, Debin - SONG, Fengrui - LI, Jinying - LIU, Shuying. Identification of structurally closely related monosaccharide and disaccharide isomers by PMP labeling in conjunction with IM-MS/MS. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
9. [1.1] ZHANG, Ying - WANG, Bo - JIN, Wanjun - WEN, Yanan -

NAN, Lijing - YANG, Mingming - LIU, Rendan - ZHU, Yuyang - WANG, Chengjian - HUANG, Linjuan - SONG, Xuezheng - WANG, Zhongfu. Sensitive and robust MALDI-TOF-MS glycomics analysis enabled by Girard's reagent T on-target derivatization (GTOD) of reducing glycans. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1048, no., pp. 105-114.,

Registrované v: WOS

10. [1.1] ZHAO, Xiaoyong - GUO, Cheng - HUANG, Yu - HUANG, Lili - MA, Ge - LIU, Yaqin - HE, Quan - WANG, Huiwen - CHEN, Kunsong - PAN, Yuanjiang. Combination Strategy of Reactive and Catalytic Matrices for Qualitative and Quantitative Profiling of N-Glycans in MALDI-MS. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2019, vol. 91, no. 14, pp. 9251-9258., Registrované v: WOS

11. [1.1] ZHOU, Shiyue - HU, Yunli - MECHREF, Yehia. High-temperature LC-MS/MS of permethylated glycans derived from glycoproteins. In *ELECTROPHORESIS*. ISSN 0173-0835, 2016, vol. 37, no. 11, pp. 1506-1513., Registrované v: WOS

12. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass spectrometry. In *Analysis of Post-Translational Modifications Using Mass Spectrometry*, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA795 LATTOVÁ, Erika - PETRUŠ, Ladislav. Synthesis of N-acetyl-lactosamine via ozonolysis of a nitro derivative. In *Carbohydrate Research*, 1992, vol. 235, p. 289-293. (1991: 1.299 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(92\)80097-K](https://doi.org/10.1016/0008-6215(92)80097-K)

Ohlasy:

1. [1.1] MENDE, Marco - BEDNAREK, Christin - WAWRYSZYN, Mirella - SAUTER, Paul - BISKUP, Moritz B. - SCHEPERS, Ute - BRAESE, Stefan. Chemical Synthesis of Glycosaminoglycans. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2016, vol. 116, no. 14, pp. 8193-8255., Registrované v: WOS

ADCA796 LATTOVÁ, Erika - PERREAULT, H  lene. The usefulness of hydrazine derivatives for mass spectrometric analysis of carbohydrates. In *Mass Spectrometry Reviews*, 2013, vol. 32, p. 366-385. (2012: 7.735 - IF, Q1 - JCR, 3.597 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0277-7037. Dostupné na: <https://doi.org/10.1002/mas.21367>

Ohlasy:

1. [1.1] DINDA, Soumitra - PATRA, Sarat Chandra - PANDA, Bikash Kumar - GANGULY, Sanjib. Synthesis, X-ray crystal structure, DFT calculations, spectroscopic characterization and redox behaviour of a rhodium(III) complex of an anthracene-pyridylhydrazone ligand. In *TRANSITION METAL CHEMISTRY*. ISSN 0340-4285, 2019, vol. 44, no. 4, pp. 341-347., Registrované v: WOS

2. [1.1] FANG, Jingjing - QIN, Guochen - MA, Jun - SHE, Yi-Min. Quantification of plant cell wall monosaccharides by reversed-phase liquid chromatography with 2-aminobenzamide pre-column derivatization and a non-toxic reducing reagent 2-picoline borane. In *JOURNAL OF CHROMATOGRAPHY A*. ISSN 0021-9673, 2015, vol. 1414, no., pp. 122-128., Registrované v: WOS

3. [1.1] FANG, Liwen - DONG, Cheng - GUO, Cheng - XU, Jianxing - LIU, Qiaoling - QU, Zhirong - JIANG, Kezhi. Two competing ionization

- processes in ESI-MS analysis of N-(1,3-diphenylallyl)benzenamines: formation of the unusual [M-H](+) ion versus the regular [M+H](+) ion. In EUROPEAN JOURNAL OF MASS SPECTROMETRY. ISSN 1469-0667, 2018, vol. 24, no. 3, pp. 251-260., Registrované v: WOS
4. [1.1] FROMMHAGEN, Matthias - VAN ERVEN, Gijs - SANDERS, Mark - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. - GRUPPEN, Harry. RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 191-199., Registrované v: WOS
5. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
6. [1.1] CHEN, Mengmeng - ZHU, Guohua - XU, Jiaxiang - ZHANG, Huarong - LIU, Jinsong - JIANG, Kezhi. Differentiation of isomeric methylanilines by imidization and gas chromatography/mass spectrometry analysis. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2018, vol. 32, no. 4, pp. 342-348., Registrované v: WOS
7. [1.1] INANAN, Tulden - TUZMEN, Nalan - KARIPCIN, Fatma. Oxime-functionalized cryogel disks for catalase immobilization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 114, no., pp. 812-820., Registrované v: WOS
8. [1.1] KOLMEL, Dominik K. - KOOL, Eric T. Oximes and Hydrazones in Bioconjugation: Mechanism and Catalysis. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 10358-10376., Registrované v: WOS
9. [1.1] LAGEVEEN-KAMMEIJER, Guinevere S. M. - DE HAAN, Noortje - MOHAUPT, Pablo - WAGT, Sander - FILIUS, Mike - NOUTA, Jan - FALCK, David - WUHRER, Manfred. Highly sensitive CE-ESI-MS analysis of N-glycans from complex biological samples. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2019, vol. 10, no., pp., Registrované v: WOS
10. [1.1] LU, Haojie - ZHANG, Ying - YANG, Pengyuan. Advancements in mass spectrometry-based glycoproteomics and glycomics. In NATIONAL SCIENCE REVIEW. ISSN 2095-5138, 2016, vol. 3, no. 3, pp. 345-364., Registrované v: WOS
11. [1.1] MANGRUM, John B. - MEHTA, Akul Y. - ALABBAS, Alhumaidi B. - DESAI, Umesh R. - HAWKRIDGE, Adam M. Comparative analysis of INLIGHT (TM)-labeled enzymatically depolymerized heparin by reverse-phase chromatography and high-performance mass spectrometry. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 499-509., Registrované v: WOS
12. [1.1] ROTARU, K. I. - ZENKEVICH, I. G. - KOSTIKOV, R. R. GC/MS characterization of monosubstituted hydrazones of glyoxylic acid ethyl ester. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2016, vol. 71, no. 14, pp. 1377-1380., Registrované v: WOS
13. [1.1] ROTARU, K. I. - ZENKEVICH, I. G. - KOSTIKOV, R. R. GC/MS characterization of monosubstituted hydrazones of glyoxylic acid ethyl

- ester. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2016, vol. 71, no. 14, pp. 1377-1380., Registrované v: WOS
14. [1.1] STEFANOWICZ, Piotr - KLUCZYK, Alicja - SZEWCZUK, Zbigniew. Derivatization of peptides for improved detection by mass spectrometry. In AMINO ACIDS, PEPTIDES AND PROTEINS, VOL 40. ISSN 1361-5904, 2016, vol. 40, no., pp. 36-74., Registrované v: WOS
15. [1.1] TOPOLYAN, A. P. - STRIZHEVSKAYA, D. A. - SLYUNDINA, M. S. - BELYAEVA, M. A. - IVANOVA, O. M. - KORSHUN, V. A. - USTINOV, A. V. - MIKHURA, I. V. - FORMANOVSKY, A. A. - BORISOV, R. S. Tris(2,6-dimethoxyphenyl)methyl carbenium ion as a charge derivatization agent for the analysis of primary amines by MALDI mass spectrometry. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2016, vol. 71, no. 14, pp. 1326-1331., Registrované v: WOS
16. [1.1] WANG, Lei - TENG, Qianqian - SUN, Xiaotong - CHEN, Yutong - WANG, Yunmei - WANG, Huan - ZHANG, Yufan. Facile synthesis of metal-organic frameworks/ordered mesoporous carbon composites with enhanced electrocatalytic ability for hydrazine. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2018, vol. 512, no., pp. 127-133., Registrované v: WOS
17. [1.1] YAMAMOTO, Sachio - KINOSHITA, Mitsuhiro - SUZUKI, Shigeo. Current landscape of protein glycosylation analysis and recent progress toward a novel paradigm of glycoscience research. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2016, vol. 130, no., pp. 273-300., Registrované v: WOS
18. [1.1] ZHANG, Xiaoping - JIANG, Kezhi - BAI, Xingfeng - LV, Huiqing - LI, Zuguang - LEE, Maw-Rong. Observation of the intermediates of in-source aldolization reactions in electrospray ionization mass spectrometry analysis of heteroaromatic aldehydes. In EUROPEAN JOURNAL OF MASS SPECTROMETRY. ISSN 1469-0667, 2015, vol. 21, no. 1, pp. 51-57., Registrované v: WOS
19. [1.1] ZHANG, Xiaoping - ZHU, Peixi - ZHANG, Huarong - LI, Zuguang - JIANG, Kezhi - LEE, Maw-Rong. The competing radical eliminations in the tandem mass spectrometry of the OH-deprotonated benzyl vanillate. In JOURNAL OF MASS SPECTROMETRY. ISSN 1076-5174, 2015, vol. 50, no. 2, pp. 432-436., Registrované v: WOS
20. [1.1] ZHANG, Ying - WANG, Bo - JIN, Wanjun - WEN, Yanan - NAN, Lijing - YANG, Mingming - LIU, Rendan - ZHU, Yuyang - WANG, Chengjian - HUANG, Linjuan - SONG, Xuezheng - WANG, Zhongfu. Sensitive and robust MALDI-TOF-MS glycomics analysis enabled by Girard's reagent T on-target derivatization (GTOD) of reducing glycans. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2019, vol. 1048, no., pp. 105-114., Registrované v: WOS
21. [1.1] ZHAO, Xiaoyong - GUO, Cheng - HUANG, Yu - HUANG, Lili - MA, Ge - LIU, Yaqin - HE, Quan - WANG, Huiwen - CHEN, Kunsong - PAN, Yuanjiang. Combination Strategy of Reactive and Catalytic Matrices for Qualitative and Quantitative Profiling of N-Glycans in MALDI-MS. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 14, pp. 9251-9258., Registrované v: WOS
22. [1.2] HARVEY, David J. Analysis of protein glycosylation by mass

spectrometry. In Analysis of Post-Translational Modifications Using Mass Spectrometry, 2016-10-26, pp. 89-159., Registrované v: SCOPUS

ADCA797 LAURENČÍK, M. - SULO, P. - SLÁVIKOVÁ, Elena - PIECKOVÁ, E. - SEMAN, M. - EBRINGER, L. The diversity of eukaryotic microbiota in the traditional Slovak sheep cheese – Bryndza. In *International journal of food microbiology*, 2008, vol. 127, p. 176-179. (2007: 2.581 - IF, Q1 - JCR, 1.349 - SJR, Q1 - SJR). ISSN 0168-1605. Dostupné na: <https://doi.org/10.1016/j.ijfoodmicro.2008.06.016>

Ohlasy:

1. [1.1] BIRMETA, Genet - BAKEEVA, Albina - PASSOTH, Volkmar. Yeasts and bacteria associated with kocho, an Ethiopian fermented food produced from enset (*Ensete ventricosum*). In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2019, vol. 112, no. 4, pp. 651-659., Registrované v: WOS
2. [1.1] CARDOZO, Marina C. - FUSCO, Angel J. - CARRASCO, Marta S. Yeast microbiota in artisanal cheeses from Corrientes, Argentina. In REVISTA ARGENTINA DE MICROBIOLOGIA. ISSN 0325-7541, 2018, vol. 50, no. 2, pp. 165-172., Registrované v: WOS
3. [1.1] CARMINATI, Domenico - GIRAFFA, Giorgio - ZAGO, Miriam - BRIGGILER MARCO, Mariangeles - GUGLIELMOTTI, Daniela - BINETTI, Ana - REINHEIMER, Jorge. Lactic Acid Bacteria for Dairy Fermentations: Specialized Starter Cultures to Improve Dairy Products. In BIOTECHNOLOGY OF LACTIC ACID BACTERIA: NOVEL APPLICATIONS, 2ND EDITION, 2016, vol., no., pp. 191-208., Registrované v: WOS
4. [1.1] DERTLI, Enes - CON, Ahmet Hilmi. Microbial diversity of traditional kefir grains and their role on kefir aroma. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 85, no., pp. 151-157., Registrované v: WOS
5. [1.1] DÍČAKOVÁ, Zuzana - BYSTRICKÝ, Pavel - SEMJON, Boris - BAUER, Susanne - VALI, Sharhiar - PAULSEN, Peter. Contents of biogenic amines and microbiota in typical slovak cheeses. In JOURNAL OF FOOD SAFETY AND FOOD QUALITY-ARCHIV FÜR LEBENSMITTELHYGIENE. ISSN 0003-925X, 2018, vol. 69, no. 1, pp. 4-9., Registrované v: WOS
6. [1.1] GIENKA, Iwona - ALECSANDRZAK-PIEKARCZYK, Tamara - BZDUCHA-WROBEL, Anna - SYNOWIEC, Alicja - BLAZEJAK, Stanislaw. Deproteinized Potato Wastewater as a Sustainable Nitrogen Source in *Trichosporon domesticum* Yeast Lipids Biosynthesis-a Concept of Valorization of Wastewater from Starch Industry. In POTATO RESEARCH. ISSN 0014-3065, 2019, vol. 62, no. 3, pp. 221-237., Registrované v: WOS
7. [1.1] KONUCHOVÁ, Martina - LIPTÁKOVÁ, Denisa - ŠÍPKOVÁ, Anna - VALÍK, Lubomír. Role of *Geotrichum candidum* in Dairy Industry. In CHEMICKE LISTY. ISSN 0009-2770, 2016, vol. 110, no. 7, pp. 491-497., Registrované v: WOS
8. [1.1] KONUCHOVÁ, Martina - VALÍK, Lubomír. Evaluation of radial growth dynamics variability of *Geotrichum candidum*: A quantitative approach. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2017, vol. 56, no. 2, pp. 155-166., Registrované v: WOS

9. [1.1] SAKOVA, Nikoleta - SADECKA, Jana - LEJKOVA, Jadza - PUSKAROVA, Andrea - KORENOVA, Janka - KOLEK, Emil - VALIK, Lubomir - KUČHTA, Tomas - PANGALLO, Domenico. Characterization of May bryndza cheese from various regions in Slovakia based on microbiological, molecular and principal volatile odorants examination. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2015, vol. 54, no. 3, pp. 239-251., Registrované v: WOS
10. [1.2] PLANÝ, Matej - KUČHTA, Tomáš - ŠOLTÝS, Katarína - SZEMES, Tomáš - PANGALLO, Domenico - SIEKEL, Peter. Metagenomic analysis of slovak bryndza cheese using next-generation 16S rDNA amplicon sequencing. In Nova Biotechnologica et Chimica. ISSN 13386905, 2016-06-01, 15, 1, pp. 23-34., Registrované v: SCOPUS
11. [2.1] FOLTINOVA, Denisa - TANCINOVA, Dana - CISAROVA, Miroslava. INHIBITORY EFFECT OF ESSENTIAL OILS ON THE GROWTH OF GEOTRICHUM CANDIDUM. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2019, vol. 9, no., pp. 380-384., Registrované v: WOS
12. [2.1] KACANIOVA, Miroslava - KUNOVA, Simona - STEFANIKOVA, Jana - FELSOCIOVA, Sona - GODOCIKOVA, Lucia - HORSKA, Elena - NAGYOVA, Ludmila - HASCIK, Peter - TERENTJEVA, Margarita. MICROBIOTA OF THE TRADITIONAL SLOVAK SHEEP CHEESE "BRYNDZA". In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2019, vol. 9, no., pp. 482-486., Registrované v: WOS

ADCA798 LAZAROVÁ, Monika - LÁBAJ, Juraj - ECKL, Peter - KOGAN, Grigorij - SLAMENŇOVÁ, Darina. Effects of dietary intake of a fungal beta-D-glucan derivative on the level of DNA damage induced in primary rat hepatocytes by various carcinogens. In *Nutrition and Cancer*. - Philadelphia : Lawrence Erlbaum Associates - Taylor & Francis, 2006, vol. 56, no. 1, p. 113-122. (2005: 2.426 - IF, Q1 - JCR, 0.894 - SJR, Q1 - SJR). ISSN 0163-5581. Dostupné na: https://doi.org/10.1207/s15327914nc5601_15

Ohlasy:

1. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJIDAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
2. [1.1] JANTOVA, Sona - BAKOS, Dusan - BIROSOVA, Lucia - MATEJOV, Patrik. Biological properties of a novel coladerm-beta glucan membrane. In vitro assessment using human fibroblasts. In BIOMEDICAL PAPERS-OLOMOUC. ISSN 1213-8118, 2015, vol. 159, no. 1, pp. 67., Registrované v: WOS

ADCA799 LAZAROVÁ, M. - LÁBAJ, J. - ECKL, P. - KOGAN, Grigorij - SLAMENŇOVÁ, D. Effects of dietary intake of a fungal β -D-glucan derivative on the level of DNA damage induced in primary rat hepatocytes by various

carcinogens. In *Nutrition and Cancer*, 2006, vol. 56, p. 113-122. (2005: 2.426 - IF, Q1 - JCR, 0.894 - SJR, Q1 - SJR). ISSN 0163-5581.

Ohlasy:

1. [1.1] JANTOVA, Sona - BAKOS, Dusan - BIROSOVA, Lucia - MATEJOV, Patrik. Biological properties of a novel coladerm-beta glucan membrane. In vitro assessment using human fibroblasts. In *BIOMEDICAL PAPERS-OLOMOUC*. ISSN 1213-8118, 2015, vol. 159, no. 1, pp. 67-76., Registrované v: WOS

ADCA800 LEE, H. - TO, R.J.B. - LATTA, R.K. - BIELY, Peter - SCHNEIDER, H. Some properties of extracellular acetylxy lan esterase produced by the yeast *Rhodotula mucilaginosa*. In *Applied and Environmental Microbiology*, 1987, vol. 53, p. 2831-2834. ISSN 0099-2240.

Ohlasy:

1. [1.1] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: role in cell wall degradation-An Overview. In *TRENDS IN CARBOHYDRATE RESEARCH*. ISSN 0975-0304, 2018, vol. 10, no. 4, pp. 51-66., Registrované v: WOS
2. [1.1] ILYAS, Sidra - REHMAN, Abdul - COELHO, Ana Varela - SHEEHAN, David. Proteomic analysis of an environmental isolate of *Rhodotorula mucilaginosa* after arsenic and cadmium challenge: Identification of a protein expression signature for heavy metal exposure. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2016, vol. 141, no., pp. 47-56., Registrované v: WOS
3. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
4. [1.1] SHARIQ, Maria - SOHAIL, Muhammad. Application of *Candida tropicalis* MK-160 for the production of xylanase and ethanol. In *JOURNAL OF KING SAUD UNIVERSITY SCIENCE*. ISSN 1018-3647, 2019, vol. 31, no. 4, pp. 1189-1194., Registrované v: WOS
5. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaelle - COLQUHOUN, Ian J. - COLLINS, Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA801 LEE, H. - BIELY, Peter - LATTA, R.K. - BARBOSA, M.F.S. - SCHNEIDER, H. Utilization of xylan by yeasts and its conversion to ethanol by *Pichia stipitis* strains. In *Applied and Environmental Microbiology*, 1986, vol. 52, p. 320-324. ISSN 0099-2240.

Ohlasy:

1. [1.1] CANDIDO, Joao Paulo - CLARO, Elis Marina Turini - DE PAULA, Carolina Bilia Chimello - SHIMIZU, Felipe Lange - LEITE, Dilza Aparecida Nalin de Oliveria - BRIENZO, Michel - DE ANGELIS, Dejanira de Franceschi. Detoxification of sugarcane bagasse hydrolysate with different adsorbents to improve the fermentative process. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02820-7>, Registrované

v: WOS

2. [1.1] GALANOPOULOU, Anastasia P. - HATZINIKOLAOU, Dimitris G. Fungi in Consolidated Bioprocessing of Lignocellulosic Materials. In FUNGAL APPLICATIONS IN SUSTAINABLE ENVIRONMENTAL BIOTECHNOLOGY. ISSN 2198-7777, 2016, vol., no., pp. 275-305., Registrované v: WOS
3. [1.1] KUNIGO, Maya - BUERTH, Christoph - ERNST, Joachim F. Secreted xylanase XynA mediates utilization of xylan as sole carbon source in *Candida utilis*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 19, pp. 8055-8064., Registrované v: WOS
4. [1.1] NAKANISHI, Simone C. - SOARES, Lauren B. - BIAZI, Luiz Eduardo - NASCIMENTO, Viviane M. - COSTA, Aline C. - ROCHA, George Jackson M. - IENCZAK, Jaciane L. Fermentation strategy for second generation ethanol production from sugarcane bagasse hydrolyzate by *Spathaspora passalidarum* and *Scheffersomyces stipitis*. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 10, pp. 2211-2221., Registrované v: WOS
5. [1.1] NOURI, Hoda - AZIN, Mehrdad - MOUSAVI, Mir Latif. Xylan-hydrolyzing thermotolerant *Candida tropicalis* HNMA-1 for bioethanol production from sugarcane bagasse hydrolysate. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2017, vol. 67, no. 9, pp. 633-641., Registrované v: WOS
6. [1.1] PUSEENAM, Aekkachai - TANAPONGPIPAT, Sutipa - ROONGSAWANG, Niran. Co-expression of Endoxylanase and Endoglucanase in *Scheffersomyces stipitis* and Its Application in Ethanol Production. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 8, pp. 1690-1700., Registrované v: WOS
7. [1.1] SELIM, Khaled A. - EL-GHWAS, Dina E. - EASA, Saadia M. - HASSAN, Mohamed I. Abdelwahab. Bioethanol a Microbial Biofuel Metabolite; New Insights of Yeasts Metabolic Engineering. In FERMENTATION-BASEL, 2018, vol. 4, no. 1, pp., Registrované v: WOS
8. [1.1] TANIMURA, Ayumi - KIKUKAWA, Minako - YAMAGUCHI, Shino - KISHINO, Shigenobu - OGAWA, Jun - SHIMA, Jun. Direct ethanol production from starch using a natural isolate, *Scheffersomyces shehatae*: Toward consolidated bioprocessing. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
9. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E-coli* B121. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS
10. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from *Scheffersomyces stipitis*. In Industrial Biotechnology. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS
11. [1.2] FAN, Hechao - ZHANG, Liang - LI, Ying - LI, Youran - GU, Zhenghua - DING, Zhongyang - SHI, Guiyang. Physiological and metabolic characteristics of five xylose utilizing yeasts. In Wei sheng wu xue bao = Acta

ADCA802 LEE, Jisun - LEE, Seul - SYNYTSYA, Andriy - CAPEK, Peter - LEE, Chang Won - CHOI, Ji Won - CHO, Sarang - KIM, Woo Jung - PARK, Yong Il**. Low molecular weight mannogalactofucans derived from *Undaria pinnatifida* induce apoptotic death of human prostate cancer cells In vitro and In vivo. In *Marine Biotechnology : An International Journal Focusing on Marine Genomics, Molecular Biology and Biotechnology*, 2018, vol. 20, p. 813-828. (2017: 2.328 - IF, Q1 - JCR, 0.894 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1436-2228. Dostupné na: <https://doi.org/10.1007/s10126-018-9851-3>

Ohlasy:

1. [1.1] BLASZCZAK, Wiktoria - LACH, Michal Stefan - BARCZAK, Wojciech - SUCHORSKA, Wiktoria Maria. Fucoidan Exerts Anticancer Effects Against Head and Neck Squamous Cell Carcinoma In Vitro. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS
2. [1.1] FITTON, J. Helen - STRINGER, Damien N. - PARK, Ah Young - KARPINIEC, Samuel S. Therapies from Fucoidan: New Developments. In *MARINE DRUGS*, 2019, vol. 17, no. 10, pp., Registrované v: WOS
3. [1.1] LU, Jun - SHI, Keyu Kally - CHEN, Shuping - WANG, Junqiao - HASSOUNA, Amira - WHITE, Loretta Nicole - MERIEN, Fabrice - XIE, Mingyong - KONG, Qingjun - LI, Jinyao - YING, Tianlei - WHITE, William Lindsey - NIE, Shaoping. Fucoidan Extracted from the New Zealand *Undaria pinnatifida* Physicochemical Comparison against Five Other Fucoidans: Unique Low Molecular Weight Fraction Bioactivity in Breast Cancer Cell Lines. In *MARINE DRUGS*. ISSN 1660-3397, 2018, vol. 16, no. 12, pp., Registrované v: WOS
4. [1.1] TERASAKI, Masaru - KURAMITSU, Yasuhiro - KOJOMA, Mareshige - KIM, Sang-Yong - TANAKA, Takuji - MAEDA, Hayato - MIYASHITA, Kazuo - KAWAGOE, Chikara - KOHNO, Shouji - MUTOH, Michihiro. High fucoxanthin wakame (*Undaria pinnatifida*) prevents tumor microenvironment formation in an AOM/DSS mouse carcinogenic model. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2020, vol. 64, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2019.103709>, Registrované v: WOS
5. [1.1] TORRES, M. D. - FLOREZ-FERNANDEZ, N. - SIMON-VAZQUEZ, R. - GIMENEZ-ABIAN, J. F. - DIAZ, J. F. - GONZALEZ-FERNANDEZ, A. - DOMINGUEZ, H. Fucoidans: The importance of processing on their anti-tumoral properties. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*. ISSN 2211-9264, 2020, vol. 45, no., pp. Dostupné na: <https://doi.org/10.1016/j.algal.2019.101748>, Registrované v: WOS
6. [1.2] YANG, Xu - WANG, Sheng - TRANGLE, Sari Schokoroy - LI, Yan - WHITE, William Lindsey - LI, Jinyao - YING, Tianlei - KONG, Qingjun - ZHAO, Yu - LU, Jun. Investigation of different molecular weight Fucoidan fractions derived from New Zealand *Undaria pinnatifida* in combination with GroA therapy in prostate cancer cell lines. In *Marine Drugs*, 2018-11-18, 16, 11, pp., Registrované v: SCOPUS

ADCA803 LENART, U. - HAPLOVÁ, Jana - MAGDOLEN, Peter - FARKAŠ, Vladimír - PALAMARCZYK, G. Evidence for the involvement of a 66 kDa membrane protein

in the synthesis of sterolglucoside in *Saccharomyces cerevisiae*. In *Acta Biochimica Polonica*, 1995, vol. 42, p. 269-274. ISSN 0001-527X.

Ohlasy:

1. [1.1] RELLA, Antonella - FARNOUD, Amir M. - DEL POETA, Maurizio. Plasma membrane lipids and their role in fungal virulence. In *PROGRESS IN LIPID RESEARCH*. ISSN 0163-7827, 2016, vol. 61, no., pp. 63-72., Registrované v: WOS

ADCA804 LEVISSON, Mark - HAN, Gye Won - DELLER, Marc C. - XU, Qingping - BIELY, Peter - HENDRIKS, Sjon - EYCK, Lynn F. Ten - FLENSBURG, Claus - ROVERSI, Pietro - MILLER, Mitchell D. - MCMULLAN, Daniel - KREUSCH, Andreas - DEACON, Ashley M. - VAN DER OOST, John - LESLEY, Scott A. - ELSLIGER, Marc-Anfdré - KENGEN, Servé W.M. - WILSON, Ian A. Functional and structural characterization of a thermostable acetyl esterase from *Thermotoga maritima*. In *Proteins : Structure Function and Bioinformatics*, 2012, p. 1545-1559. (2011: 3.392 - IF, Q2 - JCR, 2.012 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0887-3585. Dostupné na: <https://doi.org/10.1002/prot.24041>

Ohlasy:

1. [1.1] ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - VIKRAM, Surendra - SEWELL, Bryan T. - SCHUBERT, Wolf-Dieter - COWAN, Don A. Structural Characterization and Directed Evolution of a Novel Acetyl Xylan Esterase Reveals Thermostability Determinants of the Carbohydrate Esterase 7 Family. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS
2. [1.1] ALI, Sikander - MAHMOOD, Saba. Mutagenesis of a Thermophilic *Alkalibacillus flavidus* for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>, Registrované v: WOS
3. [1.1] BURGER, Marco - CHORY, Joanne. Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS
4. [1.1] DING, Junmei - ZHOU, Yang - ZHU, Hujie - DENG, Ming - LONG, Liangchuan - YANG, Yunjuan - WU, Qian - HUANG, Zunxi. Identification and characterization of an acetyl esterase from *Paenibacillus* sp. XW-6-66 and its novel function in 7-aminocephalosporanic acid deacetylation. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2019, vol. 41, no. 8-9, pp. 1059-1065., Registrované v: WOS
5. [1.1] DING, Junmei - ZHOU, Yang - ZHU, Hujie - DENG, Ming - GAO, Yanxiu - YANG, Yunjuan - HUANG, Zunxi. Characterization of EstZY: A new acetyl esterase with 7-aminocephalosporanic acid deacetylase activity from *Alicyclobacillus tengchongensis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 148, no., pp. 333-341. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.151>, Registrované v: WOS
6. [1.1] DING, Junmei - ZHU, Hujie - YE, Yujia - LI, Jie - HAN, Nanyu

- WU, Qian - HUANG, Zunxi - MENG, Zhaohui. A thermostable and alkaline GDSL-motif esterase from *Bacillus* sp K91: crystallization and X-ray crystallographic analysis. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2018, vol. 74, no., pp. 117-121., Registrované v: WOS
7. [1.1] DING, Jun-Mei - YU, Ting-Ting - HAN, Nan-Yu - YU, Jia-Lin - LI, Jun-Jun - YANG, Yun-Juan - TANG, Xiang-Hua - XU, Bo - ZHOU, Jun-Pei - TANG, Hong-Zhi - HUANG, Zun-Xi. Identification and Characterization of a New 7-Aminocephalosporanic Acid Deacetylase from Thermophilic Bacterium *Alicyclobacillus tengchongensis*. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, 2016, vol. 198, no. 2, pp. 311-320., Registrované v: WOS
8. [1.1] HUANG, Xiaoqiang - XUE, Jing - LIN, Min - ZHU, Yushan. Use of an Improved Matching Algorithm to Select Scaffolds for Enzyme Design Based on a Complex Active Site Model. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 5, pp., Registrované v: WOS
9. [1.1] KARNAOURI, Anthi - ANTONOPOULOU, Io - ZERVA, Anastasia - DIMAROGONA, Maria - TOPAKAS, Evangelos - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 279, no., pp. 362-372., Registrované v: WOS
10. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from *Lactobacillus antri* and *Bacillus halodurans*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>., Registrované v: WOS
11. [1.1] KUMAGAI, patricia S. - GUTIERREZ, Raissa F. - LOPES, Jose L. S. - MARTINS, Julia M. - JAMESON, David - CASTRO, Aline M. - MARTINS, Luiz F. - DEMARCO, Ricardo - BOSSOLAN, Nelma R. S. - WALLACE, B. A. - ARAUJO, Ana P. U. Characterization of esterase activity from an *Acetomicrobium hydrogeniformans* enzyme with high structural stability in extreme conditions. In EXTREMOPHILES. ISSN 1431-0651, 2018, vol. 22, no. 5, pp. 781-793., Registrované v: WOS
12. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
13. [1.1] MCKARY, Magy G. - ABENDROTH, Jan - EDWARDS, Thomas E. - JOHNSON, R. Jeremy. Structural Basis for the Strict Substrate Selectivity of the Mycobacterial Hydrolase LipW. In BIOCHEMISTRY. ISSN 0006-2960, 2016, vol. 55, no. 51, pp. 7099-7111., Registrované v: WOS
14. [1.1] OH, Changsuk - KIM, T. Doohun - KIM, Kyeong Kyu. Carboxylic Ester Hydrolases in Bacteria: Active Site, Structure, Function and Application. In CRYSTALS. ISSN 2073-4352, 2019, vol. 9, no. 11, pp., Registrované v: WOS
15. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM,

- Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
16. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. Crystal structure of *Thermotoga maritima* acetyl esterase complex with a substrate analog: Insights into the distinctive substrate specificity in the CE7 carbohydrate esterase family. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2016, vol. 476, no. 2, pp. 63-68., Registrované v: WOS
17. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. An extended loop in CE7 carbohydrate esterase family is dispensable for oligomerization but required for activity and thermostability. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, 2016, vol. 194, no. 3, pp. 434-445., Registrované v: WOS
18. [1.1] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable α/β hydrolase fold esterase. In PROTEIN ENGINEERING DESIGN & SELECTION. ISSN 1741-0126, 2017, vol. 30, no. 8, pp. 559-570., Registrované v: WOS
19. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. Structural role of a conserved active site cis proline in the *Thermotoga maritima* acetyl esterase from the carbohydrate esterase family 7. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS. ISSN 0887-3585, 2017, vol. 85, no. 4, pp. 694-708., Registrované v: WOS
20. [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In Mycology. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
21. [1.1] ZHANG, Hui - LI, Mengya - LI, Jie - WANG, Guangli - LI, Feng - XU, Dayong - LIU, Yuan - XIONG, Minghua. A key esterase required for the mineralization of quizalofop-p-ethyl by a natural consortium of *Rhodococcus* sp JT-3 and *Brevundimonas* sp JT-9. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2017, vol. 327, no., pp. 1-10., Registrované v: WOS
22. [1.1] ZHOU, Xiyi - ZHANG, Long - WEI, Ling - CAI, Jun - CHEN, Kai - JIANG, Jiandong. Characterization of an enantioselective esterase from the quizalofop-ethyl-transforming strain of *Sphingobium* sp. QE-1. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibiod.2020.105104>., Registrované v: WOS
23. [1.2] MOKOENA, Nobalanda - MATHIBA, Kgama - TSEKOA, Tsepo - STEENKAMP, Paul - RASHAMUSE, Konanani. Application of termite hindgut metagenome derived carboxyl ester hydrolases in the modification of cephalosporin substrates. In Biochemistry and Biophysics Reports, 2015-12-01, 4, pp. 44-51., Registrované v: SCOPUS
24. [1.2] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable α/β hydrolase

fold esterase. In Protein Engineering, Design and Selection. ISSN 17410126, 2016-08-01, 30, 8, pp. 559-570., Registrované v: SCOPUS
 25. [3.2] Group Author(s). Uniprot Consortium. Q9WXT2. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9WXT2>, Registrované v: Data Citation Index
 26. [3.2] Group Author(s), Uniprot Consortium. Q9WXT2. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9WXT2>, Registrované v: Data Citation Index

ADCA805 LI, X.L. - SKORY, C.D. - COTTA, M.A. - PUCHART, Vladimír - BIELY, Peter. Novel family of carbohydrate esterases, based on identification of the *Hypocrea jecorina* acetyl esterase gene. In *Applied and Environmental Microbiology*, 2008, vol.74, p. 7482-7489. (2007: 4.004 - IF, Q1 - JCR, 2.036 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.00807-08>

Ohlasy:

1. [1.1] ANASONTZIS, George E. - NGUYEN THANH THUY - DINH THI MY HANG - HAN THU HUONG - DANG TAT THANH - DINH DUC HIEN - VU NGUYEN THANH - OLSSON, Lisbeth. Rice straw hydrolysis using secretomes from novel fungal isolates from Vietnam. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2017, vol. 99, no., pp. 11-20., Registrované v: WOS
2. [1.1] BAMFORD, Natalie C. - LE MAUFF, Francois - VAN LOON, Jaime C. - OSTAPSKA, Hanna - SNARR, Brendan D. - ZHANG, Yongzhen - KITOVA, Elena N. - KLASSEN, John S. - CODEE, Jeroen D. C. - SHEPPARD, Donald C. - HOWELL, P. Lynne. Structural and biochemical characterization of the exopolysaccharide deacetylase Agd3 required for *Aspergillus fumigatus* biofilm formation. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-16144-5>, Registrované v: WOS
3. [1.1] BECK, G. - HEGNAR, O. A. - FOSSDAL, C. G. - ALFREDSEN, G. Acetylation of *Pinus radiata* delays hydrolytic depolymerisation by the brown-rot fungus *Rhondonia placenta*. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 135, no., pp. 39-52., Registrované v: WOS
4. [1.1] CUERVO-SOTO, Laura I. - VALDES-GARCIA, Gilberto - BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria - BALCAZAR-LOPEZ, Edgar - LIRA-RUAN, Veronica - PASTOR, Nina - LUIS FOLCH-MALLOL, Jorge. Identification of a novel carbohydrate esterase from *Bjerkandera adusta*: Structural and function predictions through bioinformatics analysis and molecular modeling. In *PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS*. ISSN 0887-3585, 2015, vol. 83, no. 3, pp. 533-546., Registrované v: WOS
5. [1.1] FLOUDAS, Dimitrios - HELD, Benjamin W. - RILEY, Robert - NAGY, Laszlo G. - KOEHLER, Gage - RANSDELL, Anthony S. - YOUNUS, Hina - CHOW, Julianna - CHINIQUY, Jennifer - LIPZEN, Anna - TRITT, Andrew - SUN, Hui - HARIDAS, Sajeet - LABUTTI, Kurt - OHM, Robin A. - KUEES, Ursula - BLANCHETTE, Robert A. - GRIGORIEV, Igor V. - MINTO, Robert E. - HIBBETT, David S. Evolution of novel wood decay mechanisms in Agaricales revealed by the genome sequences of *Fistulina hepatica* and

- Cylindrobasidium torrendii. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2015, vol. 76, no., pp. 78-92., Registrované v: WOS
6. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
7. [1.1] LAKSHMAN, Dilip K. - ROBERTS, Daniel P. - GARRETT, Wesley M. - NATARAJAN, Savithiry S. - DARWISH, Omar - ALKHAROUF, Nadim - PAIN, Arnab - KHAN, Farooq - JAMBHULKAR, Prashant P. - MITRA, Amitava. Proteomic Investigation of Rhizoctonia solani AG 4 Identifies Secretome and Mycelial Proteins with Roles in Plant Cell Wall Degradation and Virulence. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 15, pp. 3101-3110., Registrované v: WOS
8. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSSINK, Vincent G. H. - VARNAL, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS
9. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In FUNGAL METABOLITES. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
10. [1.1] WATANABE, Masahiro - FUKADA, Harumi - INOUE, Hiroyuki - ISHIKAWA, Kazuhiko. Crystal structure of an acetyltransferase from Talaromyces cellulolyticus and the importance of a disulfide bond near the active site. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 11, pp. 1200-1206., Registrované v: WOS
11. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of Escherichia coli Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
12. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of Escherichia coli Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
13. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
14. [1.2] JAMRICHOVÁ, Daniela - GODÁNY, Andrej - URBÁNIKOVÁ, Lubica. Optimization of Expression Conditions of the Acetyltransferase CE16 from Hypocrea Jecorina Encoded by A Synthetic Gene and Expressed in Escherichia coli Cells. In Nova Biotechnologica et Chimica. ISSN 13386905, 2015-12-01, 14, 2, pp. 201-211., Registrované v: SCOPUS
15. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In

Hemicelluloses and Lignin in Biorefineries (CRC Press, pp. 1-308). I,
Registrované v: SCOPUS

16. [3.2] Group Author(s). Uniprot Consortium. A7J2C6. IN UniProt
Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/A7J2C6>, Registrované v: Data Citation Index

17. [3.2] Group Author(s). Uniprot Consortium. A7J2C6. IN UniProt
Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/A7J2C6>, Registrované v: Data Citation Index

ADCA806 LI, X.-L. - ŠPÁNIKOVÁ, Silvia - DE VRIES, R.P. - BIELY, Peter.

Identification of genes encoding microbial glucuronoyl esterases. In *FEBS Letters*,
2007, vol. 581, p. 4029-4035. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR).
ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2007.07.041>

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola -
KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl
esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester
bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp.
2611-2618., Registrované v: WOS

2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott -
KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON,
Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural
features of diverse bacterial glucuronoyl esterases facilitating recalcitrant
biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11,
no., pp., Registrované v: WOS

3. [1.1] BADHAN, Ajay - HUANG, Jiangli - WANG, Yuxi - ABBOTT,
D. Wade - DI FALCO, Marcos - TSANG, Adrian - MCALLISTER, Tim.
Saccharification efficiencies of multi-enzyme complexes produced by aerobic
fungi. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 46, no., pp.
1-6., Registrované v: WOS

4. [1.1] BENGTSSON, Oskar - ARNTZEN, Magnus O. -
MATHIESEN, Geir - SKAUGEN, Morten - EIJSSINK, Vincent G. H. A novel
proteomics sample preparation method for secretome analysis of *Hypocrea*
jecorina growing on insoluble substrates. In *JOURNAL OF PROTEOMICS*.
ISSN 1874-3919, 2016, vol. 131, no., pp. 104-112., Registrované v: WOS

5. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder -
WILLIAMSON, Adele. Biochemical Characterization of a Family 15
Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS*
ONE. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS

6. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND,
Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the
marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322,
2017, vol. 7, no., pp., Registrované v: WOS

7. [1.1] DERBA-MACELUCH, Marta - AWANO, Tatsuya -
TAKAHASHI, Junko - LUCENIUS, Jessica - RATKE, Christine - KONTO,
Inkeri - BUSSE-WICHER, Marta - KOSIK, Ondrej - TANAKA, Ryo -
WINZELL, Anders - KALLAS, Asa - LESNIEWSKA, Joanna - BERTHOLD,
Fredrik - IMMERZEEL, Peter - TEERI, Tuula T. - EZCURRA, Ines - DUPREE,
Paul - SERIMAA, Ritva - MELLEROWICZ, Ewa J. Suppression of xylan
endotransglycosylase PtxtXyn10A affects cellulose microfibril angle in

- secondary wall in aspen wood. In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 205, no. 2, pp. 666-681., Registrované v: WOS
8. [1.1] DUAN, Cheng-Jie - BASLE, Arnaud - LIBERATO, Marcelo Visona - GRAY, Joseph - NEPOGODIEV, Sergey A. - FIELD, Robert A. - JUGE, Nathalie - NDEH, Didier. Ascertaining the biochemical function of an essential pectin methylesterase in the gut microbe *Bacteroides thetaiotaomicron*. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 52, pp. 18625-18637. Dostupné na: <https://doi.org/10.1074/jbc.RA120.014974>., Registrované v: WOS
9. [1.1] D'ERRICO, Clotilde - JORGENSEN, Jonas O. - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Enzymatic Degradation of Lignin-Carbohydrate Complexes (LCCs): Model Studies Using a Fungal Glucuronoyl Esterase from *Cerrena Unicolor*. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol. 112, no. 5, pp. 914-922., Registrované v: WOS
10. [1.1] D'ERRICO, Clotilde - BORJESSON, Johan - DING, Hanshu - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Improved biomass degradation using fungal glucuronoyl-esterases-hydrolysis of natural corn fiber substrate. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 219, no., pp. 117-123., Registrované v: WOS
11. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
12. [1.1] FLOUDAS, Dimitrios - HELD, Benjamin W. - RILEY, Robert - NAGY, Laszlo G. - KOEHLER, Gage - RANSDELL, Anthony S. - YOUNUS, Hina - CHOW, Julianna - CHINIQUY, Jennifer - LIPZEN, Anna - TRITT, Andrew - SUN, Hui - HARIDAS, Sajeet - LABUTTI, Kurt - OHM, Robin A. - KUEES, Ursula - BLANCHETTE, Robert A. - GRIGORIEV, Igor V. - MINTO, Robert E. - HIBBETT, David S. Evolution of novel wood decay mechanisms in Agaricales revealed by the genome sequences of *Fistulina hepatica* and *Cylindrobasidium torrendii*. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2015, vol. 76, no., pp. 78-92., Registrované v: WOS
13. [1.1] GANDLA, Madhavi Latha - DERBA-MACELUCH, Marta - LIU, Xiaokun - GERBER, Lorenz - MASTER, Emma R. - MELLEROWICZ, Ewa J. - JONSSON, Leif J. Expression of a fungal glucuronoyl esterase in *Populus*: Effects on wood properties and saccharification efficiency. In PHYTOCHEMISTRY. ISSN 0031-9422, 2015, vol. 112, no., pp. 210-220., Registrované v: WOS
14. [1.1] GOEDEGEBUUR, Frits - DANKMEYER, Lydia - GUALFETTI, Peter - KARKEHABADI, Saeid - HANSSON, Henrik - JANA, Suvamay - HUYNH, Vicky - KELEMEN, Bradley R. - KRUTHOF, Paulien - LARENAS, Edmund A. - TEUNISSEN, Pauline J. M. - STAHLBERG, Jerry - PAYNE, Christina M. - MITCHINSON, Colin - SANDGREN, Mats. Improving the thermal stability of cellobiohydrolase Cel7A from *Hypocrea jecorina* by directed evolution. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2017, vol. 292, no. 42, pp. 17418-17430., Registrované v: WOS

15. [1.1] GRUJIC, Marica - DOJNOV, Biljana - POTOČNIK, Ivana - ATANASOVA, Lea - DUDUK, Bojan - SREBOTNIK, Ewald - DRUZHININA, Irina S. - KUBICEK, Christian P. - VUJCIC, Zoran. Superior cellulolytic activity of *Trichoderma guizhouense* on raw wheat straw. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
16. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In *JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY*. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS
17. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
18. [1.1] CHEN, Yumeng - WU, Chuan - SHEN, Yaling - MA, Yushu - WEI, Dongzhi - WANG, Wei. N,N-dimethylformamide induces cellulase production in the filamentous fungus *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
19. [1.1] LEHMANN, Linda - RONNEST, Nanna P. - JORGENSEN, Christian I. - OLSSON, Lisbeth - STOCKS, Stuart M. - JORGENSEN, Henrik S. - HOBLEY, Timothy. Linking hydrolysis performance to *Trichoderma reesei* cellulolytic enzyme profile. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, 2016, vol. 113, no. 5, pp. 1001-1010., Registrované v: WOS
20. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
21. [1.1] MARYNOWSKA, Martyna - GOUX, Xavier - SILLAM-DUSSES, David - ROULAND-LEFEVRE, Corinne - ROISIN, Yves - DELFOSSE, Philippe - CALUSINSKA, Magdalena. Optimization of a metatranscriptomic approach to study the lignocellulolytic potential of the higher termite gut microbiome. In *BMC GENOMICS*. ISSN 1471-2164, 2017, vol. 18, no., pp., Registrované v: WOS
22. [1.1] MA, Liang - CHEN, Ling - ZHANG, Lei - ZOU, Gen - LIU, Rui - JIANG, Yanping - ZHOU, Zhihua. RNA Sequencing Reveals Xyr1 as a Transcription Factor Regulating Gene Expression beyond Carbohydrate Metabolism. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2016, vol., no., pp., Registrované v: WOS
23. [1.1] MENG, Qing-Shan - LIU, Chen-Guang - ZHAO, Xin-Qing - BAI, Feng-Wu. Engineering *Trichoderma reesei* Rut-C30 with the overexpression of *egl1* at the *ace1* locus to relieve repression on cellulase production and to adjust the ratio of cellulolytic enzymes for more efficient hydrolysis of lignocellulosic biomass. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 285, no., pp. 56-63., Registrované v: WOS

24. [1.1] NYLANDER, Filip - SUNNER, Hampus - OLSSON, Lisbeth - CHRISTAKOPOULOS, Paul - WESTMAN, Gunnar. Synthesis and enzymatic hydrolysis of a diaryl benzyl ester model of a lignin-carbohydrate complex (LCC). In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 5, pp. 385-391., Registrované v: WOS
25. [1.1] RAGHAVENDRA, M. P. - NAYAKA, S. Chandra - GUPTA, Vijai Kumar. Microbial Enzymes for Conversion of Biomass to Bioenergy. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 1-26., Registrované v: WOS
26. [1.1] STAPPLER, Eva - DATTENBOECK, Christoph - TISCH, Doris - SCHMOLL, Monika. Analysis of Light- and Carbon-Specific Transcriptomes Implicates a Class of G-Protein-Coupled Receptors in Cellulose Sensing. In MSPHERE. ISSN 2379-5042, 2017, vol. 2, no. 3, pp., Registrované v: WOS
27. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS
28. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
29. [1.1] WANG, Mingyu - HOU, Jin. Biorefinery of Lignocellulosics for Biofuels and Biochemicals. In QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 143-191., Registrované v: WOS
30. [1.1] ZHANG, Fei - ZHAO, Xinqing - BAI, Fengwu. Improvement of cellulase production in *Trichoderma reesei* Rut-C30 by overexpression of a novel regulatory gene *Trvib-1*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 247, no., pp. 676-683., Registrované v: WOS
31. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
32. [1.2] CONACHER, C. G. - GARCÍA-APARICIO, M. P. - COETZEE, G. - VAN ZYL, W. H. - GOSRGENS, J. F. Scalable methanol-free production of recombinant glucuronoyl esterase in *Pichia pastoris*. In BMC Research Notes, 2019-09-18, 12, 1, pp., Registrované v: SCOPUS
33. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In New and Future Developments in Microbial Biotechnology and Bioengineering: *Aspergillus* System Properties and Applications, 2016-08-05, pp. 171-190., Registrované v: SCOPUS
34. [1.2] SCHMOLL, Monika. Regulation of plant cell wall degradation by light in *trichoderma*. In Fungal Biology and Biotechnology, 2018-01-01, 5, 1, pp. 1-20., Registrované v: SCOPUS
35. [3.2] Group Author(s). Uniprot Consortium. D8QLP9. IN UniProt Knowledgebase, 2016. Dostupné na internete:

<http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: Data Citation Index 36. [3.2] Group Author(s). Uniprot Consortium. G0RV93. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/G0RV93>, Registrované v: Data Citation Index

ADCA807 LIBJAKOVÁ, L. - BYSTRICKÝ, Slavomír - LIŽIČÁROVÁ, Izebeľ - PAULOVÍČOVÁ, Ema. Evaluation of different mannan polysaccharide usage in enzyme-linked immunosorbent assay for specific antibodies determination. In *Journal of Pharmaceutical and Biomedical Analysis*, 2007, vol. 45, p. 521-525. (2006: 2.032 - IF, Q2 - JCR, 1.010 - SJR, Q1 - SJR). ISSN 0731-7085. Dostupné na: <https://doi.org/10.1016/j.jpba.2007.06.007>

Ohlasy:

1. [1.1] GONCHAROVA, N. V. - KHRAPOVA, M. V. - PUPYSHEV, A. B. - KOROLENKO, E. Ts. - NESEAKOVA, Z. - KOROLENKO, T. A. Hypolipidemic Effect of Mannan in Mice with Acute Lipemia Induced by Poloxamer 407. In BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 0007-4888, 2016, vol. 162, no. 1, pp. 18-22., Registrované v: WOS
2. [1.1] KOROLENKO, Tatiana A. - BGATOVA, Nataliya P. - VETVICKA, Vaclav. Glucan and Mannan-Two Peas in a Pod. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 13, pp., Registrované v: WOS
3. [1.1] PUJATO, Nazarena - DIAZ, German - SOL BARBAGELATA, Maria - HERNAN VICCO, Miguel - FERNANDO CALVINHO, Luis - SERGIO MARCIPAR, Ivan. Preparation and Characterization of a Staphylococcus aureus Capsular Polysaccharide-Protein Conjugate Prepared by a Low Cost Technique: a Proof-of-Concept Study. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 175, no. 1, pp. 141-154., Registrované v: WOS
4. [1.1] SALVADOR, Catia - BORDALO, Rui - SILVA, Mara - ROSADO, Tania - CANDEIAS, Antonio - CALDEIRA, Ana Teresa. On the conservation of easel paintings: evaluation of microbial contamination and artists materials. In APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. ISSN 0947-8396, 2017, vol. 123, no. 1, pp., Registrované v: WOS

ADCA808 LINEK, K. - ALFOLDI, Juraj - DEFAYE, J. Glycosylamines. 1. Structure and rearrangement reactions of some diglycosylamines. In *Carbohydrate Research*, 1987, vol. 164, p. 195-205. ISSN 0008-6215.

Ohlasy:

1. [1.1] BIAZITOV, Ramil Y. - SYDORENKO, Nadiya - REN, Hongyu - MOON, Young-Choon. Unexpected Observation of the Dimroth Rearrangement in the Ribosylation of 4-Aminopyrimidines. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 11, pp. 5881-5889., Registrované v: WOS
2. [1.1] LINDNER, Leonie - KLUEFERS, Peter. Cobalt(III) Complexes of D-Galactosylamine. In ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE. ISSN 0044-2313, 2015, vol. 641, no. 11, pp. 1869-1873., Registrované v: WOS

ADCA809 LINEK, K. - ALFOLDI, Juraj - DEFAYE, J. Structure of glycosylamines and diglycosylamines in the arabinose, mannose, and rhamnose series. In *Carbohydrate Research*, 1993, vol. 164, p. 329-335. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(93\)84267-A](https://doi.org/10.1016/0008-6215(93)84267-A)

Ohlasy:

1. [1.1] BIAZITOV, Ramil Y. - SYDORENKO, Nadiya - REN, Hongyu - MOON, Young-Choon. Unexpected Observation of the Dimroth Rearrangement in the Ribosylation of 4-Aminopyrimidines. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 11, pp. 5881-5889., Registrované v: WOS
2. [1.1] NASHALIAN, Ossanna - YAYLAYAN, Varoujan A. Sugar-Conjugated Bis(glycinato)copper(II) Complexes and Their Modulating Influence on the Maillard Reaction. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 17, pp. 4353-4360., Registrované v: WOS
3. [1.1] YUAN, Qi - LIU, Bing-Bing - SONG, Xian-Liang. The influences of monosaccharide structure on power generation performance. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 857, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113753>., Registrované v: WOS

ADCA810 LÍŠKA, Denis - MARTINKA, Michal - KOHANOVÁ, Jana - LUX, Alexander. Asymmetrical development of root endodermis and exodermis in reaction to abiotic stresses. In *Annals of Botany*, 2016, vol. 118, no. 4, p. 667-674. (2015: 3.982 - IF, Q1 - JCR, 1.904 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcw047>

Ohlasy:

1. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. Tolerance and potential for bioaccumulation of *Alternanthera tenella* Colla to cadmium under in vitro conditions. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
2. [1.1] ARIAS, Claudia - SERRAT, Xavier - MOYSSET, Lluís - PERISSE, Patricia - NOGUES, Salvador. Morpho-Physiological Responses of Alamo Switchgrass During Germination and Early Seedling Stage Under Salinity or Water Stress Conditions. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2018, vol. 11, no. 3, pp. 677-688., Registrované v: WOS
3. [1.1] BARBERON, Marie. The endodermis as a checkpoint for nutrients. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1604-1610., Registrované v: WOS
4. [1.1] DE ZIO, Elena - TRUPIANO, Dalila - MONTAGNOLI, Antonio - TERZAGHI, Mattia - CHIATANTE, Donato - GROSSO, Alessandro - MARRA, Mauro - SCALONI, Andrea - SCIPPA, Gabriella S. Poplar woody taproot under bending stress: the asymmetric response of the convex and concave sides. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2016, vol. 118, no. 4, pp. 865-883., Registrované v: WOS
5. [1.1] DINNENY, Jose R. Developmental Responses to Water and

- Salinity in Root Systems. In ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY, VOL 35. ISSN 1081-0706, 2019, vol. 35, no., pp. 239-257., Registrované v: WOS
6. [1.1] DOBLAS, Veronica G. - GELDNER, Niko - BARBERON, Marie. The endodermis, a tightly controlled barrier for nutrients. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2017, vol. 39, no., pp. 136-143., Registrované v: WOS
 7. [1.1] DOS SANTOS RIBEIRO, Dayane Gomes - SERRAO DA SILVA, Breno Ricardo - DA SILVA LOBATO, Allan Klynger. Brassinosteroids induce tolerance to water deficit in soybean seedlings: contributions linked to root anatomy and antioxidant enzymes. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2019, vol. 41, no. 6, pp., Registrované v: WOS
 8. [1.1] GITTO, Aurora - FRICKE, Wieland. Zinc treatment of hydroponically grown barley plants causes a reduction in root and cell hydraulic conductivity and isoform-dependent decrease in aquaporin gene expression. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2018, vol. 164, no. 2, pp. 176-190., Registrované v: WOS
 9. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
 10. [1.1] MUTHUKUMAR, Thangavelu - AYYASAMY, Kowsalya. Comparative anatomy of aerial and substrate roots of *Acampe praemorsa* (Rox.) Blatt. & McCann. In FLORA. ISSN 0367-2530, 2017, vol. 226, no., pp. 17-28., Registrované v: WOS
 11. [1.1] NAMYSLOV, J. - BAURIEDLOVA, Z. - JANOUSKOVA, J. - SOUKUP, A. - TYLOVA, E. Exodermis and Endodermis Respond to Nutrient Deficiency in Nutrient-Specific and Localized Manner. In PLANTS-BASEL. FEB 2020, vol. 9, no. 2., Registrované v: WOS
 12. [1.1] POTOCKA, Izabela - SZYMANOWSKA-PULKA, Joanna. Morphological responses of plant roots to mechanical stress. In ANNALS OF BOTANY. ISSN 0305-7364, 2018, vol. 122, no. 5, pp. 711-723., Registrované v: WOS
 13. [1.1] RAMAKRISHNA, Priya - BARBERON, Marie. Polarized transport across root epithelia. In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2019, vol. 52, no., pp. 23-29., Registrované v: WOS
 14. [1.1] ROBBINS, Neil E. - DINNENY, Jose R. Growth is required for perception of water availability to pattern root branches in plants. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 4, pp. E822-E831., Registrované v: WOS
 15. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - SCHWAB, Arthur P. - MA, Xingmao. Uptake, Accumulation, and in Planta Distribution of Coexisting Cerium Oxide Nanoparticles and Cadmium in *Glycine max* (L.) Merr. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2017, vol. 51, no. 21, pp. 12815-12824., Registrované v: WOS
 16. [1.1] RYAN, Peter R. - DELHAIZE, Emmanuel - WATT, Michelle - RICHARDSON, Alan E. Plant roots: understanding structure and function in an

ocean of complexity. In ANNALS OF BOTANY. ISSN 0305-7364, 2016, vol. 118, no. 4, pp. 555-559., Registrované v: WOS

17. [1.1] WANG, X.Y. - ZHANG, Y.M. - WANG, L.Y. - PAN, Z.E. - HE, S.P. - GAO, Q. - CHEN, B.J. - GONG, W.F. - DU, X.M. Casparian strip membrane domain proteins in *Gossypium arboreum*: genome-wide identification and negative regulation of lateral root growth. In BMC GENOMICS. ISSN 1471-2164, MAY 4 2020, vol. 21, no. 1., Registrované v: WOS

18. [1.1] YUE, Le - CHEN, Feiran - YU, Kaiqiang - XIAO, Zhenggao - YU, Xiaoyu - WANG, Zhenyu - XING, Baoshan. Early development of apoplastic barriers and molecular mechanisms in juvenile maize roots in response to La2O3 nanoparticles. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2019, vol. 653, no., pp. 675-683., Registrované v: WOS

19. [3.2] Wang Ping; Zhou Qingping; Wang Pei. Research Progress on Differentiation and Barrier Function of Endodermis of Plant. In: ACTA BOTANICA BOREALI-OCCIDENTALIA SINICA. ISSN 1000-4025, 2019, Volume: 39 Issue: 4 Pages: 752-762

ADCA811 LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin - RICHTEROVÁ, Danica, Richterová - VATEHOVÁ, Zuzana - ZELKO, Ivan - LUX, Alexander - VAN STADEN, Johannes. Alternatives to improve long-term cultures of *Harpagophytum procumbens* in vitro. In *South African Journal of Botany*, 2016, vol. 104, p. 55-60. (2015: 1.244 - IF, Q3 - JCR, 0.498 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0254-6299. Dostupné na: <https://doi.org/10.1016/j.sajb.2015.10.008>

Ohlasy:

1. [1.1] SHOOTO, Ntaote David. Removal of lead(II) and chromium(VI) ions from synthetic wastewater by the roots of *harpagophytum procumbens* plant. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2020, vol. 8, no. 6, pp. Dostupné na: <https://doi.org/10.1016/j.jece.2020.104541>., Registrované v: WOS

2. [1.1] TEIXEIRA DA SILVA, Jaime A. - NEZAMI-ALANAGH, Esmaeil - BARREAL, Maria E. - KHER, Mafatlal M. - WICAKSONO, Adhityo - GULYAS, Andrea - HIDVEGI, Norbert - MAGYAR-TABORI, Katalin - MENDLER-DRIENYOVSKY, Nora - MARTON, Laszlo - LANDIN, Mariana - GALLEGU, Pedro Pablo - DRIVER, John A. - DOBRANSZKI, Judit. Shoot tip necrosis of in vitro plant cultures: a reappraisal of possible causes and solutions. In PLANTA. ISSN 0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03449-4>., Registrované v: WOS

3. [1.2] KADLECOVÁ, Eliška - BARÁNEK, Miroslav - MAGNÚS, Samuel - GAZDÍK, Filip. The effects of potassium silicate as a component of nutrient medium for selected in vitro cultures of *Prunus* and *Corylus* genera. In Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis. ISSN 12118516, 2020-01-01, 68, 5, pp. 851-857. Dostupné na: <https://doi.org/10.11118/actaun202068050851>., Registrované v: SCOPUS

ADCA812 LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - KUBAČKOVÁ, M. - SADLONOVÁ, K. - CAPEK, Peter - BILISICS, Ladislav - VOJTASSAK, J. - SLOVÁKOVÁ, Ľ. Biologically active oligosaccharides. In *Advances in Regulation of Plant Growth and Development*, 1999, p. 119-130.

Ohlasy:

1. [3.1] Kalia, RK (Kalia, Rajwant K.); Singh, R (Singh, Rohtas); Kalia, S (Kalia, Sanjay); Sharma, SK (Sharma, SK), Kumar, S (Kumar, Suresh). (2016). Recent advances in understanding the role of growth regulators in plant growth and development in vitro - II. Non-conventional growth regulators. *The Indian Forester*, 142(6), 524-535

ADCA813 LIU, Min - CLEMONS, Karl V. - BIGOS, Marty - MEDOVARSKÁ, Izabela - BRUMMER, Elmer - STEVENS, David A. Immune responses induced by heat killed *Saccharomyces cerevisiae*: A vaccine against fungal infection. In *Vaccine*, 2011, vol. 29, p. 1745-1753. (2010: 3.572 - IF, Q1 - JCR, 1.663 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0264-410X. Dostupné na: <https://doi.org/10.1016/j.vaccine.2010.12.119>

Ohlasy:

1. [1.1] JACOB, Daria - RUFFIE, Claude - COMBREDT, Chantal - FORMAGLIO, Pauline - AMINO, Rogerio - MENARD, Robert - TANGY, Frederic - SALA, Monica. Yeast lysates carrying the nucleoprotein from measles virus vaccine as a novel subunit vaccine platform to deliver Plasmodium circumsporozoite antigen. In *MALARIA JOURNAL*. ISSN 1475-2875, 2017, vol. 16, no., pp., Registrované v: WOS
2. [1.1] KUMAR, Ravinder - KUMAR, Piyush. Yeast-based vaccines: New perspective in vaccine development and application. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2019, vol. 19, no. 2, pp., Registrované v: WOS
3. [1.1] NAMI, Sanam - MOHAMMADI, Rasoul - VAKILI, Mahshid - KHEZRIPOUR, Kimia - MIRZAEI, Hamed - MOROVATI, Hamid. Fungal vaccines, mechanism of actions and immunology: A comprehensive review. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2019, vol. 109, no., pp. 333-344., Registrované v: WOS
4. [1.1] NICOLA, Andre Moraes - ALBUQUERQUE, Patricia - PAES, Hugo Costa - FERNANDES, Larissa - COSTA, Fabricio F. - KIOSHIMA, Erika Seki - RODRIGUES ABADIO, Ana Karina - BOCCA, Anamelia Lorenzetti - FELIPE, Maria Sueli. Antifungal drugs: New insights in research & development. In *PHARMACOLOGY & THERAPEUTICS*. ISSN 0163-7258, 2019, vol. 195, no., pp. 21-38., Registrované v: WOS

ADCA814 LIU, Min - MACHOVÁ, Eva - NEŠČÁKOVÁ, Zuzana - MEDOVARSKÁ, Izabela - CLEMONS, Karol V. - MARTINEZ, Marife - CHEN, Vicky - BYSTRICKÝ, Slavomír - STEVENS, David. Vaccination with mannan protects mice against systemic aspergillosis. In *Medical Mycology*, 2012, vol.50, p. 818-828. (2011: 2.457 - IF, Q1 - JCR, 0.938 - SJR, Q1 - SJR). ISSN 1369-3786. Dostupné na: <https://doi.org/10.3109/13693786.2012.683539>

Ohlasy:

1. [1.1] BUNTHITSAKDA, Warunda - LEELAYUWAPAN, Haris - PAHA, Jiraporn - KANGWANRANGSAN, Niwat - CHAWENGKIRTTIKUL, Runglawan - PONPUAK, Marisa - RUCHIRAWAT, Somsak - BOONYARATTANAKALIN, Siwarutt. Controlled rapid synthesis and in vivo immunomodulatory effects of LM alpha(1,6)mannan with an amine linker. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 420-431., Registrované v: WOS
2. [1.1] GARCIA-CARNERO, Laura C. - PEREZ-GARCIA, Luis A. -

- MARTINEZ-ALVAREZ, Jose A. - REYES-MARTINEZ, Juana E. - MORA-MONTES, Hector M. Current trends to control fungal pathogens: exploiting our knowledge in the host-pathogen interaction. In *INFECTION AND DRUG RESISTANCE*. ISSN 1178-6973, 2018, vol. 11, no., pp. 903-913., Registrované v: WOS
3. [1.1] LAURUSCHKAT, Chris D. - EINSELE, Hermann - LOEFFLER, Juergen. Immunomodulation as a Therapy for Aspergillus Infection: Current Status and Future Perspectives. In *JOURNAL OF FUNGI*, 2018, vol. 4, no. 4, pp., Registrované v: WOS
4. [1.1] LEVITZ, Stuart M. Aspergillus vaccines: Hardly worth studying or worthy of hard study? In *MEDICAL MYCOLOGY*. ISSN 1369-3786, 2017, vol. 55, no. 1, pp. 103-108., Registrované v: WOS
5. [1.1] LI, Pingli - WANG, Fengshan. Polysaccharides: Candidates of promising vaccine adjuvants. In *DRUG DISCOVERIES AND THERAPEUTICS*. ISSN 1881-7831, 2015, vol. 9, no. 2, pp. 88-93., Registrované v: WOS
6. [1.1] PORTUONDO, Deivys Leandro F. - FERREIRA, Lucas S. - URBACZEK, Ana C. - BATISTA-DUHARTE, Alexander - CARLOS, Iracilda Z. Adjuvants and delivery systems for antifungal vaccines: Current state and future developments. In *MEDICAL MYCOLOGY*. ISSN 1369-3786, 2015, vol. 53, no. 1, pp. 69-89., Registrované v: WOS
7. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesa S. Preclinical Assessment of Glycoconjugate Vaccines. In *CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC*. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS
8. [1.1] WATTANASIRI, Chakree - PAHA, Jiraporn - PONPUAK, Marisa - RUCHIRAWAT, Somsak - BOONYARATTANAKALIN, Siwarutt. Synthesis of synthetic mannan backbone polysaccharides found on the surface of Mycobacterium tuberculosis as a vaccine adjuvant and their immunological properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 746-755., Registrované v: WOS

ADCA815 LIŽIČÁROVÁ, Izebela - MATULOVÁ, Mária - MACHOVÁ, Eva - CAPEK, Peter. Cell wall mannan of human pathogen *Candida dubliniensis*. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 68, p. 191 - 195. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2007.03.007>

Ohlasy:

1. [1.1] FRANCIS, Arul Prakash - GURUDEVAN, Sneha - JAYAKRISHNAN, A. Synthetic polymannose as a drug carrier: synthesis, toxicity and anti-fungal activity of polymannose-amphotericin B conjugates. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2018, vol. 29, no. 13, pp. 1529-1548., Registrované v: WOS
2. [1.1] LI, Hongyan - GAO, Tong - WANG, Jingchen - TIAN, Shasha - YUAN, Xin - ZHU, Huajie. Structural identification and antitumor activity of the extracellular polysaccharide from *Aspergillus terreus*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2016, vol. 51, no. 10, pp. 1714-1720., Registrované v: WOS

3. [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In JOURNAL OF ORAL SCIENCE. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
4. [1.1] RONG, Yu - YANG, Ruili - YANG, Yuzhe - WEN, Yazhou - LIU, Sixin - LI, Congfa - HU, Zhuoyan - CHENG, Xiangrong - LI, Wu. Structural characterization of an active polysaccharide of longan and evaluation of immunological activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 213, no., pp. 247-256., Registrované v: WOS
5. [1.1] WANG, Haisong - CHENG, Xiangrong - SHI, Yonghui - LE, Guowei. Preparation and structural characterization of poly-mannose synthesized by phosphoric acid catalyzation under microwave irradiation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 121, no., pp. 355-361., Registrované v: WOS

ADCA816 LIŽIČÁROVÁ, Izebeľa - MATULOVÁ, Mária - CAPEK, Peter - MACHOVÁ, Eva. Human pathogen *Candida dubliniensis*: A cell wall mannan with a high content of beta-1,2-linked mannose residues. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 70, p. 89-100. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2007.03.007>

Ohlasy:

1. [1.1] BYSTRICKY, Peter - DOBROTA, Dusan - RACAY, Peter - BYSTRICKY, Slavomir. NMR characteristics of alpha-D-Man-(1>2)-D-Man and alpha-D-Man-(1>3)-D-Man mannobioses related to *Candida albicans* yeast mannan structures. In CHEMICAL PAPERS. ISSN 0366-6352, 2017, vol. 71, no. 12, pp. 2485-2493., Registrované v: WOS
2. [1.1] FRANCIS, Arul Prakash - GURUDEVAN, Sneha - JAYAKRISHNAN, A. Synthetic polymannose as a drug carrier: synthesis, toxicity and anti-fungal activity of polymannose-amphotericin B conjugates. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2018, vol. 29, no. 13, pp. 1529-1548., Registrované v: WOS
3. [1.1] LIU, Hong-Zhi - LIU, Li - HUI, Hu - WANG, Qiang. Structural Characterization and Antineoplastic Activity of *Saccharomyces cerevisiae* Mannoprotein. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2015, vol. 18, no. 2, pp. 359-371., Registrované v: WOS
4. [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In JOURNAL OF ORAL SCIENCE. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
5. [1.2] TANG, Lianfeng - ZHOU, Lihua - SUN, Lihua - SONG, Shaoyun. Effect of Casp2+/supon the extracellular polysaccharide of *Shewanella oneidensis* MR-1. In *Zhongshan Daxue Xuebao/Acta Scientiarum Natralium Universitatis Sunyatseni*. ISSN 05296579, 2016-11-01, 55, 6, pp. 125-131., Registrované v: SCOPUS

ADCA817 LORENCOVÁ, Lenka - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - ŠEDIVÁ, Alena - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica -

SASINKOVÁ, Vlasta - FILIP, Jaroslav - KASÁK, Peter - JERIGOVÁ, Monika - VELIČ, Dušan - MAHMOUD, Khaled A. - TKÁČ, Ján. Electrochemical performance of Ti₃C₂TX MXene in aqueous media: towards ultrasensitive H₂O₂ sensing. In *Electrochimica Acta*, 2017, vol. 235, p. 471-479. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2017.03.073>

Ohlasy:

1. [1.1] AAKYIIR, Mathias - YU, Huimin - ARABY, Sherif - WANG RUOYU - MICHELMORE, Andrew - MENG, Qingshi - LOSIC, Dusan - CHOUDHURY, Namita Roy - MA, Jun. Electrically and thermally conductive elastomer by using MXene nanosheets with interface modification. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2020, vol. 397, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2020.125439>., Registrované v: WOS
2. [1.1] AL-ANTAKI, Ahmed Hussein Mohammed - ALHARBI, Thaar M. D. - KELLICI, Suela - POWER, Nicholas P. - LAWRENCE, Warren - RASTON, Colin L. Vortex fluidic mediated synthesis of TiO₂ nanoparticle/MXene composites. In *CHEMNANOMAT*. ISSN 2199-692X, 2020, vol. 6, no. 4, pp. 657-662. Dostupné na: <https://doi.org/10.1002/cnma.201900779>., Registrované v: WOS
3. [1.1] AL-TEMIMY, Ameer - PRENGER, Kaitlyn - GOLNAK, Ronny - LOUNASVUORI, Mailis - NAGUIB, Michael - PETIT, Tristan. Impact of Cation Intercalation on the Electronic Structure of Ti₃C₂T_x MXenes in Sulfuric Acid. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2020, vol. 12, no. 13, pp. 15087-15094. Dostupné na: <https://doi.org/10.1021/acsami.9b22122>., Registrované v: WOS
4. [1.1] ANICHINI, Cosimo - CZEPA, Włodzimierz - PAKULSKI, Dawid - ALIPRANDI, Alessandro - CIESIELSKI, Artur - SAMORI, Paolo. Chemical sensing with 2D materials. In *CHEMICAL SOCIETY REVIEWS*. ISSN 0306-0012, 2018, vol. 47, no. 13, pp. 4860-4908., Registrované v: WOS
5. [1.1] BENCHAKAR, Mohamed - BILYK, Thomas - GARNERO, Cyril - LOUPIAS, Lola - MORAIS, Claudia - PACAUD, Jerome - CANAFF, Christine - CHARTIER, Patrick - MORISSET, Sophie - GUIGNARD, Nadia - MAUCHAMP, Vincent - CELERIER, Stephane - HABRIOUX, Aurelien. MXene Supported Cobalt Layered Double Hydroxide Nanocrystals: Facile Synthesis Route for a Synergistic Oxygen Evolution Reaction Electrocatalyst. In *ADVANCED MATERIALS INTERFACES*. ISSN 2196-7350, 2019, vol. 6, no. 23, pp., Registrované v: WOS
6. [1.1] DANG, Yuan - GUAN, Xin - ZHOU, Yuanzhen - HAO, Chentao - ZHANG, Yu - CHEN, Shuangli - MA, Yao - BAI, Yunjie - GONG, Yongkuan - GAO, Yaru. Biocompatible PB/Ti₃C₂ hybrid nanocomposites for the nonenzymatic electrochemical detection of H₂O₂ released from living cells. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 319, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128259>., Registrované v: WOS
7. [1.1] DESHMUKH, Kalim - KOVARIK, Tomas - PASHA, S. K. Khadheer. State of the art recent progress in two dimensional MXenes based gas sensors and biosensors: A comprehensive review. In *COORDINATION CHEMISTRY REVIEWS*. ISSN 0010-8545, 2020, vol. 424, no., pp. Dostupné na: <https://doi.org/10.1016/j.ccr.2020.213514>., Registrované v: WOS
8. [1.1] DU, Cheng-Feng - SUN, Xiaoli - YU, Hong - LIANG, Qinghua

- KHANG NGOC DINH - ZHENG, Yun - LUO, Yubo - WANG, Zhiguo - YAN, Qingyu. Synergy of Nb Doping and Surface Alloy Enhanced on Water-Alkali Electrocatalytic Hydrogen Generation Performance in Ti-Based MXene. In *ADVANCED SCIENCE*. ISSN 2198-3844, 2019, vol. 6, no. 11, pp., Registrované v: WOS
9. [1.1] FAN MAO - WANG LIN - PEI CHENG-XIN - SHI WEI-QUN. Alkalization Intercalation of MXene for Electrochemical Detection of Uranyl Ion. In *JOURNAL OF INORGANIC MATERIALS*. ISSN 1000-324X, 2019, vol. 34, no. 1, pp. 85-90., Registrované v: WOS
10. [1.1] FIRESTEIN, Konstantin L. - VON TREIFELDT, Joel E. - KVASHNIN, Dmitry G. - FERNANDO, Joseph F. S. - ZHANG, Chao - KVASHNIN, Alexander G. - PODRYABINKIN, Evgeny - SHAPEEV, Alexander - SIRIWARDENA, Dumindu P. - SOROKIN, Pavel B. - GOLBERG, Dmitri. Young's Modulus and Tensile Strength of Ti₃C₂ MXene Nanosheets As Revealed by In Situ TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. In *NANO LETTERS*. ISSN 1530-6984, 2020, vol. 20, no. 8, pp. 5900-5908. Dostupné na: <https://doi.org/10.1021/acs.nanolett.0c01861>., Registrované v: WOS
11. [1.1] GAO, Yijing - CAO, Yongyong - GU, Yongbing - ZHUO, Han - ZHUANG, Guilin - DENG, Shengwei - ZHONG, Xing - WEI, Zhongzhe - CHEN, Jianhua - PAN, Xiang - WANG, Jian-Guo. Functionalization Ti₃C₂ MXene by the adsorption or substitution of single metal atom. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2019, vol. 465, no., pp. 911-918., Registrované v: WOS
12. [1.1] GAO, Yijing - CAO, Yongyong - ZHUO, Han - SUN, Xiang - GU, Yongbing - ZHUANG, Guilin - DENG, Shengwei - ZHONG, Xing - WEI, Zhongzhe - LI, Xiaonian - WANG, Jian-guo. Mo₂TiC₂ MXene: A Promising Catalyst for Electrocatalytic Ammonia Synthesis. In *CATALYSIS TODAY*. ISSN 0920-5861, 2020, vol. 339, no., pp. 120-126. Dostupné na: <https://doi.org/10.1016/j.cattod.2018.12.029>., Registrované v: WOS
13. [1.1] HE, Ying - ZHOU, Xitong - ZHOU, Liya - ZHANG, Xiaoning - MA, Li - JIANG, Yanjun - GAO, Jing. Self-Reducing Prussian Blue on Ti₃C₂Tx MXene Nanosheets as a Dual-Functional Nanohybrid for Hydrogen Peroxide and Pesticide Sensing. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 35, pp. 15556-15564. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c02154>., Registrované v: WOS
14. [1.1] CHIA, Hui Ling - MAYORGA-MARTINEZ, Carmen C. - ANTONATOS, Nikolas - SOFER, Zdenek - GONZALEZ-JULIAN, Jesus J. - WEBSTER, Richard D. - PUMERA, Martin. MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 3, pp. 2452-2459. Dostupné na: <https://doi.org/10.1021/acs.analchem.9b03634>., Registrované v: WOS
15. [1.1] CHIA, Xinyi - PUMERA, Martin. Characteristics and performance of two-dimensional materials for electrocatalysis. In *NATURE CATALYSIS*. ISSN 2520-1158, 2018, vol. 1, no. 12, pp. 909-921., Registrované v: WOS
16. [1.1] JIANG, Xiantao - KUKLIN, Artem - BAEV, Alexander - GE, Yanqi - AGREN, Hans - ZHANG, Han - PRASAD, Paras N. Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and

- applications. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, 2020, vol. 848, no., pp. Dostupné na: <https://doi.org/10.1016/j.physrep.2019.12.006>., Registrované v: WOS
17. [1.1] JIANG, Yanjun - ZHANG, Xiaoning - PEI, Lijuan - YUE, Shu - MA, Li - ZHOU, Liya - HUANG, Zhihong - HE, Ying - GAO, Jing. Silver nanoparticles modified two-dimensional transition metal carbides as nanocarriers to fabricate acetylcholinesterase-based electrochemical biosensor. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 339, no., pp. 547-556., Registrované v: WOS
18. [1.1] KALAMBATE, Pramod K. - GADHARI, Nayan S. - LI, Xiang - RAO, Zhixiang - NAVALE, Sachin T. - SHEN, Yue - PATIL, Vishwanath R. - HUANG, Yunhui. Recent advances in MXene-based electrochemical sensors and biosensors. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2019, vol. 120, no., pp., Registrované v: WOS
19. [1.1] KHAN, Karim - TAREEN, Ayesha Khan - ASLAM, Muhammad - ZHANG, Yupeng - WANG, Renheng - OUYANG, Zhengbiao - GOU, Zhongyi - ZHANG, Han. Recent advances in two-dimensional materials and their nanocomposites in sustainable energy conversion applications. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 45, pp. 21622-21678., Registrované v: WOS
20. [1.1] KOKULNATHAN, Thangavelu - KUMAR, Elumalai Ashok - WANG, Tzyy-Jiann. Design and In Situ Synthesis of Titanium Carbide/Boron Nitride Nanocomposite: Investigation of Electrocatalytic Activity for the Sulfadiazine Sensor. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 33, pp. 12471-12481. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c03281>., Registrované v: WOS
21. [1.1] KUMAR, Elumalai Ashok - KOKULNATHAN, Thangavelu - WANG, Tzyy-Jiann - ANTHUVAN, Allen Joseph - CHANG, Yu-Hsu. Two-dimensional titanium carbide (MXene) nanosheets as an efficient electrocatalyst for 4-nitroquinoline N-oxide detection. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2020, vol. 312, no., pp. Dostupné na: <https://doi.org/10.1016/j.molliq.2020.113354>., Registrované v: WOS
22. [1.1] KUMAR, Rajeev - PAL, Sarika - VERMA, Alka - PRAJAPATI, Y. K. - SAINI, J. P. Effect of silicon on sensitivity of SPR biosensor using hybrid nanostructure of black phosphorus and MXene. In SUPERLATTICES AND MICROSTRUCTURES. ISSN 0749-6036, 2020, vol. 145, no., pp. Dostupné na: <https://doi.org/10.1016/j.spmi.2020.106591>., Registrované v: WOS
23. [1.1] KUMAR, Saurabh - LEI, Yongjiu - ALSHAREEF, Niman H. - QUEVEDO-LOPEZ, M. A. - SALAMA, Khaled N. Biofunctionalized two-dimensional Ti₃C₂ MXenes for ultrasensitive detection of cancer biomarker. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 121, no., pp. 243-249., Registrované v: WOS
24. [1.1] LAWAL, Abdulazeez T. Progress in utilisation of graphene for electrochemical biosensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 106, no., pp. 149-178., Registrované v: WOS
25. [1.1] LEVITT, Ariana - ZHANG, Jizhen - DION, Genevieve - GOGOTSI, Yury - RAZAL, Joselito M. MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. In ADVANCED FUNCTIONAL

- MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 47, pp. Dostupné na: <https://doi.org/10.1002/adfm.202000739>., Registrované v: WOS
26. [1.1] LIU, Chengbin - HAO, Sibe - CHEN, Xiaoyan - ZONG, Boyang - MAO, Shun. High Anti-Interference Ti₃C₂Tx MXene Field-Effect-Transistor-Based Alkali Indicator. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 29, pp. 32970-32978. Dostupné na: <https://doi.org/10.1021/acsami.0c09921>., Registrované v: WOS
27. [1.1] LIU, Jianbo - YANG, Chen - SHANG, Yonghui - ZHANG, Ping - LIU, Jing - ZHENG, Jianbin. Preparation of a nanocomposite material consisting of cuprous oxide, polyaniline and reduced graphene oxide, and its application to the electrochemical determination of hydrogen peroxide. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 3, pp., Registrované v: WOS
28. [1.1] LIU, Lei - WEI, Yumin - JIAO, Songlong - ZHU, Songyang - LIU, Xiaolin. A novel label-free strategy for the ultrasensitive miRNA-182 detection based on MoS₂/Ti₃C₂ nanohybrids. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 137, no., pp. 45-51., Registrované v: WOS
29. [1.1] LI, Shuangxiao - WANG, Lin - PENG, Jing - ZHAI, Maolin - SHI, Weiqun. Efficient thorium(IV) removal by two-dimensional Ti₂CTx MXene from aqueous solution. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2019, vol. 366, no., pp. 192-199., Registrované v: WOS
30. [1.1] LI, Tongkuai - CHEN, Longlong - YANG, Xiang - CHEN, Xin - ZHANG, Zhihan - ZHAO, Tingting - LI, Xifeng - ZHANG, Jianhua. A flexible pressure sensor based on an MXene-textile network structure. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, 2019, vol. 7, no. 4, pp. 1022-1027., Registrované v: WOS
31. [1.1] LI, Xian - XU, Jianlong - JIANG, Yadong - HE, Zaizhou - LIU, Bohao - XIE, Haikuan - LI, Hu - LI, Zhemin - WANG, Yang - TAI, Huiling. Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti₃C₂Tx hybrid sensitive films based gas sensor. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 316, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128144>., Registrované v: WOS
32. [1.1] MA BAO-KAI - LI MIAN - CHEONG LING-ZHI - WENG XIN-CHU - SHEN CAI - HUANG QING. Enzyme-MXene Nanosheets: Fabrication and Application in Electrochemical Detection of H₂O₂. In JOURNAL OF INORGANIC MATERIALS. ISSN 1000-324X, 2020, vol. 35, no. 1, pp. 131-+. Dostupné na: <https://doi.org/10.15541/jim20190139>., Registrované v: WOS
33. [1.1] MEDETALIBEYOGLU, Hilal - BEYTUR, Murat - AKYILDIRIM, Onur - ATAR, Necip - YOLA, Mehmet Lutfi. Validated electrochemical immunosensor for ultrasensitive prolactin detection: Carbon electrode modified with gold nanoparticles functionalized sulfur doped MXene as sensor platform and carboxylated graphitic carbon nitride as signal amplification. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 319, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128195>., Registrované v: WOS
34. [1.1] MENG, Zheng - STOLZ, Robert M. - MENDECKI, Lukasz - MIRICA, Katherine A. Electrically-Transduced Chemical Sensors Based on Two Dimensional Nanomaterials. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 1, pp. 478-598., Registrované v: WOS

35. [1.1] MOHAMMADNIAEI, Mohsen - HUYNH VU NGUYEN - MY VAN TIEU - LEE, Min-Ho. 2D Materials in Development of Electrochemical Point-of-Care Cancer Screening Devices. In MICROMACHINES, 2019, vol. 10, no. 10, pp., Registrované v: WOS
36. [1.1] MOHAMMADNIAEI, Mohsen - KOYAPPAYIL, Aneesh - SUN, Yi - MIN, Junhong - LEE, Min-Ho. Gold nanoparticle/MXene for multiple and sensitive detection of oncomiRs based on synergetic signal amplification. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112208>., Registrované v: WOS
37. [1.1] MUCKLEY, Eric S. - NAGUIB, Michael - IVANOV, Ilia N. Multi-modal, ultrasensitive, wide-range humidity sensing with Ti3C2 film. In NANOSCALE. ISSN 2040-3364, 2018, vol. 10, no. 46, pp. 21689-21695., Registrované v: WOS
38. [1.1] NEAMPET, Supawat - RUECHA, Nipapan - QIN, Jiaqian - WONGSAWAT, Wanida - CHAILAPAKUL, Orawon - RODTHONGKUM, Nadnudda. A nanocomposite prepared from platinum particles, polyaniline and a Ti3C2 MXene for amperometric sensing of hydrogen peroxide and lactate. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 12, pp., Registrované v: WOS
39. [1.1] PANG, Jinbo - MENDES, Rafael G. - BACHMATIUK, Alicja - ZHAO, Liang - TA, Huy Q. - GEMMING, Thomas - LIU, Hong - LIU, Zhongfan - RUMMELI, Mark H. Applications of 2D MXenes in energy conversion and storage systems. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2019, vol. 48, no. 1, pp. 72-133., Registrované v: WOS
40. [1.1] PENG, Ming - ZHAO, Yang - CHEN, Dechao - TAN, Yongwen. Free-standing 3D Electrodes for Electrochemical Detection of Hydrogen Peroxide. In CHEMCATCHEM. ISSN 1867-3880, 2019, vol. 11, no. 17, pp. 4222-4237., Registrované v: WOS
41. [1.1] RAAGULAN, Kanthasamy - BRAVEENTH, Ramanaskanda - JANG, Hee Jung - LEE, Yun Seon - YANG, Cheol-Min - KIM, Bo Mi - MOON, Jai Jung - CHAI, Kyu Yun. Fabrication of Nonwetting Flexible Free-Standing MXene-Carbon Fabric for Electromagnetic Shielding in S-Band Region. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY. ISSN 1229-5949, 2018, vol. 39, no. 12, pp. 1412-1419., Registrované v: WOS
42. [1.1] RAAGULAN, Kanthasamy - BRAVEENTH, Ramanaskanda - JANG, Hee Jung - LEE, Yun Seon - YANG, Cheol-Min - KIM, Bo Mi - MOON, Jai Jung - CHAI, Kyu Yun. Electromagnetic Shielding by MXene-Graphene-PVDF Composite with Hydrophobic, Lightweight and Flexible Graphene Coated Fabric. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 10, pp., Registrované v: WOS
43. [1.1] RAAGULAN, Kanthasamy - BRAVEENTH, Ramanaskanda - LEE, Lee Ro - LEE, Joonsik - KIM, Bo Mi - MOON, Jai Jung - LEE, Sang Bok - CHAI, Kyu Yun. Fabrication of Flexible, Lightweight, Magnetic Mushroom Gills and Coral-Like MXene-Carbon Nanotube Nanocomposites for EMI Shielding Application. In NANOMATERIALS. ISSN 2079-4991, 2019, vol. 9, no. 4, pp., Registrované v: WOS
44. [1.1] RAMANAVICIUS, Simonas - RAMANAVICIUS, Arunas. Progress and Insights in the Application of MXenes as New 2D Nano-Materials Suitable for Biosensors and Biofuel Cell Design. In INTERNATIONAL

- JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21239224>., Registrované v: WOS
45. [1.1] SHAHZAD, Faisal - IQBAL, Aamir - ZAIDI, Shabi Abbas - HWANG, Suk-Won - KOO, Chong Min. Nafion-stabilized two-dimensional transition metal carbide (Ti₃C₂TX MXene) as a high-performance electrochemical sensor for neurotransmitter. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2019, vol. 79, no., pp. 338-344., Registrované v: WOS
46. [1.1] SHUVO, Shoumya Nandy - GOMEZ, Ana Maria Ulloa - MISHRA, Avanish - CHEN, Winston Yenyu - DONGARE, Avinash M. - STANCIU, Lia A. Sulfur-Doped Titanium Carbide MXenes for Room-Temperature Gas Sensing. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 9, pp. 2915-2924. Dostupné na: <https://doi.org/10.1021/acssensors.0c01287>., Registrované v: WOS
47. [1.1] SINHA, Ankita - DHANJAI - ZHAO, Huimin - HUANG, Yujin - LU, Xianbo - CHEN, Jiping - JAIN, Rajeev. MXene: An emerging material for sensing and biosensing. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2018, vol. 105, no., pp. 424-435., Registrované v: WOS
48. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation detection platforms. In HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS, 2020, vol., no., pp. 361-372. Dostupné na: <https://doi.org/10.1016/B978-0-12-816699-4.00014-1>., Registrované v: WOS
49. [1.1] SOLEYMANIHA, Mohammadreza - SHAHBAZI, Mohammad-Ali - RAFIEERAD, Ali Reza - MALEKI, Aziz - AMIRI, Ahmad. Promoting Role of MXene Nanosheets in Biomedical Sciences: Therapeutic and Biosensing Innovations. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2019, vol. 8, no. 1, pp., Registrované v: WOS
50. [1.1] SOOMRO, Razium Ali - JAWAID, Sana - ZHU, Qizhen - ABBAS, Zaheer - XU, Bin. A mini-review on MXenes as versatile substrate for advanced sensors. In CHINESE CHEMICAL LETTERS. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 922-930. Dostupné na: <https://doi.org/10.1016/j.ccllet.2019.12.005>., Registrované v: WOS
51. [1.1] SREENILAYAM, Sithara P. - UL AHAD, Inam - NICOLASI, Valeria - BRABAZON, Dermot. MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. In MATERIALS TODAY. ISSN 1369-7021, 2020, vol. 43, no., pp. 99-131. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.10.025>., Registrované v: WOS
52. [1.1] SUN, Shuijing - LIAO, Chan - HAFEZ, Ahmed M. - ZHU, Hongli - WU, Songping. Two-dimensional MXenes for energy storage. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 338, no., pp. 27-45., Registrované v: WOS
53. [1.1] SUN, Xiang - GAO, Yijing - ZHAO, Chenxia - DENG, Shengwei - ZHONG, Xing - ZHUANG, Guilin - WEI, Zhongzhe - WANG, Jian-guo. Palladium Dimer Supported on Mo₂CO₂(MXene) for Direct Methane to Methanol Conversion. In ADVANCED THEORY AND SIMULATIONS, 2019, vol. 2, no. 2, pp., Registrované v: WOS
54. [1.1] SZUPLEWSKA, Aleksandra - KULPINSKA, Dominika - DYBKO, Artur - CHUDY, Michal - JASTRZEBSKA, Agnieszka Maria -

OLSZYNA, Andrzej - BRZOZKA, Zbigniew. Future Applications of MXenes in Biotechnology, Nanomedicine, and Sensors. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2020, vol. 38, no. 3, pp. 264-279. Dostupné na: <https://doi.org/10.1016/j.tibtech.2019.09.001>., Registrované v: WOS

55. [1.1] TANVIR, Aisha - SOBOLCIAK, Patrik - POPELKA, Anton - MRLIK, Miroslav - SPITALSKY, Zdenko - MICUSIK, Matej - PROKES, Jan - KRUPA, Igor. Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D Ti₃C₂Tx (MXene). In POLYMERS, 2019, vol. 11, no. 8, pp., Registrované v: WOS

56. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432., Registrované v: WOS

57. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432. Dostupné na: <https://doi.org/10.1007/s12161-019-01652-y>., Registrované v: WOS

58. [1.1] WANG, Hou - WU, Yan - YUAN, Xingzhong - ZENG, Guangming - ZHOU, Jin - WANG, Xin - CHEW, Jia Wei. Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. In ADVANCED MATERIALS. ISSN 0935-9648, 2018, vol. 30, no. 12, pp., Registrované v: WOS

59. [1.1] WANG, Yifan - XU, Yanheng - HU, Menglei - LING, Han - ZHU, Xi. MXenes: focus on optical and electronic properties and corresponding applications. In NANOPHOTONICS. ISSN 2192-8606, 2020, vol. 9, no. 7, pp. 1601-1620. Dostupné na: <https://doi.org/10.1515/nanoph-2019-0556>., Registrované v: WOS

60. [1.1] WU, Dihua - WU, Mengyao - YANG, Jiehui - ZHANG, Huaiwei - XIE, Kefeng - LIN, Cheng-Te - YU, Aimin - YU, Jinhong - FU, Li. Delaminated Ti₃C₂Tx (MXene) for electrochemical carbendazim sensing. In MATERIALS LETTERS. ISSN 0167-577X, 2019, vol. 236, no., pp. 412-415., Registrované v: WOS

61. [1.1] WU, Lingxia - LU, Xianbo - DHANJAI - WU, Zhong-Shuai - DONG, Yanfeng - WANG, Xiaohui - ZHENG, Shuanghao - CHEN, Jiping. 2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 107, no., pp. 69-75., Registrované v: WOS

62. [1.1] XIA, Fanjie - LAO, Junchao - YU, Ruohan - SANG, Xiahan - LUO, Jiayan - LI, Yu - WU, Jinsong. Ambient oxidation of Ti₃C₂ MXene initialized by atomic defects. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 48, pp. 23330-23337., Registrované v: WOS

63. [1.1] XU, Bingzhe - ZHI, Chunyi - SHI, Peng. Latest advances in MXene biosensors. In JOURNAL OF PHYSICS-MATERIALS, 2020, vol. 3, no. 3, pp. Dostupné na: <https://doi.org/10.1088/2515-7639/ab8f78>., Registrované v: WOS

64. [1.1] XU, Yi - ANG, Yee Sin - WU, Lin - ANG, Lay Kee. High Sensitivity Surface Plasmon Resonance Sensor Based on Two-Dimensional MXene and Transition Metal Dichalcogenide: A Theoretical Study. In NANOMATERIALS, 2019, vol. 9, no. 2, pp., Registrované v: WOS
65. [1.1] YAN, Changzeng - JI, Chao - ZENG, Xiaoliang - SUN, Rong - WONG, Ching-Ping. Interconnecting the Promising MXenes via Ag Nanowire in Epoxy Nanocomposites for High-Performance Thermal Management Applications. In 2018 19TH INTERNATIONAL CONFERENCE ON ELECTRONIC PACKAGING TECHNOLOGY (ICEPT), 2018, vol., no., pp. 510-512., Registrované v: WOS
66. [1.1] YU, Hong - WANG, Yonghui - JING, Yao - MA, Jianmin - DU, Cheng-Feng - YAN, Qingyu. Surface Modified MXene-Based Nanocomposites for Electrochemical Energy Conversion and Storage. In SMALL. ISSN 1613-6810, 2019, vol. 15, no. 25, pp., Registrované v: WOS
67. [1.1] YU, Tian - BRESLIN, Carmel B. Review-Two-Dimensional Titanium Carbide MXenes and Their Emerging Applications as Electrochemical Sensors. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS
68. [1.1] ZHANG, Huixin - WANG, Zonghua - ZHANG, Qiuxia - WANG, Feng - LIU, Yang. Ti₃C₂ MXenes nanosheets catalyzed highly efficient electrogenerated chemiluminescence biosensor for the detection of exosomes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 124, no., pp. 184-190., Registrované v: WOS
69. [1.1] ZHANG, Jizhen - KERR, Emily - USMAN, Ken Aldren S. - DOEVEN, Egan H. - FRANCIS, Paul S. - HENDERSON, Luke C. - RAZAL, Joselito M. Cathodic electrogenerated chemiluminescence of tris(2,2'-bipyridine)ruthenium(ii) and peroxydisulfate at pure Ti(3)C(2)T(x)MXene electrodes. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 69, pp. 10022-10025. Dostupné na: <https://doi.org/10.1039/d0cc02993a>., Registrované v: WOS
70. [1.1] ZHANG, Yiyi - ZHANG, Xilin - CHENG, Cheng - YANG, Zongxian. Recent progress of MXenes as the support of catalysts for the CO oxidation and oxygen reduction reaction. In CHINESE CHEMICAL LETTERS. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 931-936. Dostupné na: <https://doi.org/10.1016/j.cclet.2019.12.010>., Registrované v: WOS
71. [1.1] ZHAO, Fengnian - YAO, Yao - JIANG, Chengmei - SHAO, Yuzhou - BARCELO, Damia - YING, Yibin - PING, Jianfeng. Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 384, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2019.121358>., Registrované v: WOS
72. [1.1] ZHENG, Jiushang - WANG, Bin - DING, Ailing - WENG, Bo - CHEN, Jiucun. Synthesis of MXene/DNA/Pd/Pt nanocomposite for sensitive detection of dopamine. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 816, no., pp. 189-194., Registrované v: WOS
73. [1.1] ZHENG, Jiushang - WANG, Bin - JIN, Yanzi - WENG, Bo - CHEN, Jiucun. Nanostructured MXene-based biomimetic enzymes for amperometric detection of superoxide anions from HepG2 cells. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 2, pp.,

Registrované v: WOS

74. [1.1] ZHU, Jing - HA, Enna - ZHAO, Guoliang - ZHOU, Yang - HUANG, Deshun - YUE, Guozong - HU, Liangsheng - SUN, Ning - WANG, Yong - LEE, Lawrence Yoon Suk - XU, Chen - WONG, Kwok-Yin - ASTRUC, Didier - ZHAO, Pengxiang. Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2017, vol. 352, no., pp. 306-327., Registrované v: WOS

75. [1.1] ZHU, Xiaolei - LIU, Bingchuan - HOU, Huijie - HUANG, Zhenying - ZEINU, Kemal Mohammed - HUANG, Long - YUAN, Xiqing - GUO, Dabin - HU, Jingping - YANG, Jiakuan. Alkaline intercalation of Ti₃C₂ MXene for simultaneous electrochemical detection of Cd(II), Pb(II), Cu(II) and Hg(II). In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 248, no., pp. 46-57., Registrované v: WOS

76. [1.2] FAN, Mao - WANG, Lin - ZHANG, Yajuan - PEI, Chengxin - CHAI, Zhifang - SHI, Weiqun. Research progress of MXene materials in radioactive element and heavy metal ion sequestration. In Scientia Sinica Chimica. ISSN 16747224, 2019-01-01, 49, 1, pp. 27-38., Registrované v: SCOPUS

77. [1.2] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: Next-generation detection platforms. In Handbook of Nanomaterials in Analytical Chemistry: Modern Trends in Analysis, 2019-01-01, pp. 361-372., Registrované v: SCOPUS

ADCA818 LORENCOVÁ, Lenka - BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - VIKARTOVSKÁ, Alica - KASÁK, Peter** - TKÁČ, Ján**. Exosomes as a source of cancer biomarkers: Advances in electrochemical biosensing of exosomes. In *ChemElectroChem*, 2020, vol. 7, p. 1956-1973. (2019: 4.154 - IF, Q2 - JCR, 1.149 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celec.202000075>

Ohlasy:

1. [1.1] RIKKERT, L. G. - BEEKMAN, P. - CARO, J. - COUMANS, F. A. W. - ENCISO-MARTINEZ, A. - JENSTER, G. - LE GAC, S. - LEE, W. - VAN LEEUWEN, T. G. - LOOZEN, G. B. - NANOU, A. - NIEUWLAND, R. - OFFERHAUS, H. L. - OTTO, C. - PEGTEL, D. M. - PIONTEK, M. C. - VAN DER POL, E. - DE ROND, L. - ROOS, W. H. - SCHASFOORT, R. B. M. - WAUBEN, M. H. M. - ZUILHOF, H. - TERSTAPPEN, L. W. M. M. Cancer-ID: Toward Identification of Cancer by Tumor-Derived Extracellular Vesicles in Blood. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fonc.2020.00608>., Registrované v: WOS

ADCA819 LORENCOVÁ, Lenka - BERTÓK, Tomáš** - FILIP, Jaroslav - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - MAHMOUD, Khaled A. - TKÁČ, Ján**. Highly stable Ti₃C₂T_x (MXene)/Pt nanoparticles-modified glassy carbon electrode for H₂O₂ and small molecules sensing applications. In *Sensors and Actuators B*, 2018, vol. 263, p. 360-368. (2017: 5.667 - IF, Q1 - JCR, 1.406 - SJR,

Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0925-4005.
Dostupné na: <https://doi.org/10.1016/j.snb.2018.02.124>

Ohlasy:

1. [1.1] AL-ANTAKI, Ahmed Hussein Mohammed - ALHARBI, Thaar M. D. - KELLICI, Suela - POWER, Nicholas P. - LAWRENCE, Warren - RASTON, Colin L. Vortex fluidic mediated synthesis of TiO₂ nanoparticle/MXene composites. In CHEMNANOMAT. ISSN 2199-692X, 2020, vol. 6, no. 4, pp. 657-662. Dostupné na: <https://doi.org/10.1002/cnma.201900779>., Registrované v: WOS
2. [1.1] BENCHAKAR, Mohamed - BILYK, Thomas - GARNERO, Cyril - LOUPIAS, Lola - MORAIS, Claudia - PACAUD, Jerome - CANAFF, Christine - CHARTIER, Patrick - MORISSET, Sophie - GUIGNARD, Nadia - MAUCHAMP, Vincent - CELERIER, Stephane - HABRIOUX, Aurelien. MXene Supported Cobalt Layered Double Hydroxide Nanocrystals: Facile Synthesis Route for a Synergistic Oxygen Evolution Reaction Electrocatalyst. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, 2019, vol. 6, no. 23, pp., Registrované v: WOS
3. [1.1] BOLOTSKY, Adam - BUTLER, Derrick - DONG, Chengye - GERACE, Katy - GLAYIN, Nicholas R. - MURATORE, Christopher - ROBINSON, Joshua A. - EBRAHIMI, Aida. Two-Dimensional Materials in Biosensing and Healthcare: From In Vitro Diagnostics to Optogenetics and Beyond. In ACS NANO. ISSN 1936-0851, 2019, vol. 13, no. 9, pp. 9781-9810., Registrované v: WOS
4. [1.1] DESHMUKH, Kalim - KOVARIK, Tomas - PASHA, S. K. Khadheer. State of the art recent progress in two dimensional MXenes based gas sensors and biosensors: A comprehensive review. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2020, vol. 424, no., pp. Dostupné na: <https://doi.org/10.1016/j.ccr.2020.213514>., Registrované v: WOS
5. [1.1] DUAN, Fenghe - GUO, Chuanpan - HU, Mengyao - SONG, Yingpan - WANG, Minghua - HE, Linghao - ZHANG, Zhihong - PETTINARI, Riccardo - ZHOU, Liming. Construction of the 0D/2D heterojunction of Ti₃C₂T_x MXene nanosheets and iron phthalocyanine quantum dots for the impedimetric aptasensing of microRNA-155. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.127844>., Registrované v: WOS
6. [1.1] GAO, Lingfeng - LI, Chao - HUANG, Weichun - MEI, Shan - LIN, Han - OU, Qi - ZHANG, Ye - GUO, Jia - ZHANG, Feng - XU, Shixiang - ZHANG, Han. MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2020, vol. 32, no. 5, pp. 1703-1747. Dostupné na: <https://doi.org/10.1021/acs.chemmater.9b04408>., Registrované v: WOS
7. [1.1] GAO, Yijing - ZHUO, Han - CAO, Yongyong - SUN, Xiang - ZHUANG, Guilin - DENG, Shengwei - ZHONG, Xing - WEI, Zhongzhe - WANG, Jianguo. A theoretical study of electrocatalytic ammonia synthesis on single metal atom/MXene. In CHINESE JOURNAL OF CATALYSIS. ISSN 0253-9837, 2019, vol. 40, no. 2, pp. 152-159., Registrované v: WOS
8. [1.1] HE, Ying - ZHOU, Xitong - ZHOU, Liya - ZHANG, Xiaoning - MA, Li - JIANG, Yanjun - GAO, Jing. Self-Reducing Prussian Blue on Ti₃C₂T_x MXene Nanosheets as a Dual-Functional Nanohybrid for Hydrogen Peroxide and Pesticide Sensing. In INDUSTRIAL & ENGINEERING CHEMISTRY

- RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 35, pp. 15556-15564.
Dostupné na: <https://doi.org/10.1021/acs.iecr.0c02154>., Registrované v: WOS
9. [1.1] HUANG, Runmin - CHEN, Sisi - YU, Jingang - JIANG, Xinyu. Self-assembled Ti₃C₂/MWCNTs nanocomposites modified glassy carbon electrode for electrochemical simultaneous detection of hydroquinone and catechol. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2019, vol. 184, no., pp., Registrované v: WOS
 10. [1.1] CHENG, Yuwen - DAI, Jianhong - SONG, Yan - ZHANG, Yumin. Single molybdenum atom anchored on 2D Ti₂NO₂ MXene as a promising electrocatalyst for N₂ fixation. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 39, pp. 18132-18141., Registrované v: WOS
 11. [1.1] JIANG, Xiantao - KUKLIN, Artem - BAEV, Alexander - GE, Yanqi - AGREN, Hans - ZHANG, Han - PRASAD, Paras N. Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, 2020, vol. 848, no., pp. Dostupné na: <https://doi.org/10.1016/j.physrep.2019.12.006>., Registrované v: WOS
 12. [1.1] KALAMBATE, Pramod K. - GADHARI, Nayan S. - LI, Xiang - RAO, Zhixiang - NAVALE, Sachin T. - SHEN, Yue - PATIL, Vishwanath R. - HUANG, Yunhui. Recent advances in MXene-based electrochemical sensors and biosensors. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2019, vol. 120, no., pp., Registrované v: WOS
 13. [1.1] KALAMBATE, Pramod K. - ZOTE, Santosh W. - SHEN, Yue - NAVALE, Dinesh N. - KULAL, Dnyaneshwar K. - WU, Jingyi - RANADE, Prasanna B. - POTHU, Ramyakrishna - BODDULA, Rajender - HUANG, Yunhui. MXene and its Sensing Applications. In MXENES: FUNDAMENTALS AN APPLICATIONS. ISSN 2471-8890, 2019, vol. 51, no., pp. 204-215., Registrované v: WOS
 14. [1.1] KALAMBATE, Pramod K. - DHANJAI - SINHA, Ankita - LI, Yankai - SHEN, Yue - HUANG, Yunhui. An electrochemical sensor for ifosfamide, acetaminophen, domperidone, and sumatriptan based on self-assembled MXene/MWCNT/chitosan nanocomposite thin film. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 7, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04366-9>., Registrované v: WOS
 15. [1.1] LAKHE, Pritishma - PREHN, Evan M. - HABIB, Touseef - LUTKENHAUS, Jodie L. - RADOVIC, Miladin - MANNAN, M. Sam - GREEN, Micah J. Process Safety Analysis for Ti₃C₂Tx MXene Synthesis and Processing. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2019, vol. 58, no. 4, pp. 1570-1579., Registrované v: WOS
 16. [1.1] LIU, Yanyan - LI, Hongmei - GONG, Shipeng - CHEN, Yongning - XIE, Ruirui - WU, Qianqing - TAO, Jia - MENG, Fanliang - ZHAO, Peng. A novel non-enzymatic electrochemical biosensor based on the nanohybrid of bimetallic PdCu nanoparticles/carbon black for highly sensitive detection of H₂O₂ released from living cells. In SENSORS AND ACTUATORS B-CHEMICAL, 2019, vol. 290, no., pp. 249-257., Registrované v: WOS
 17. [1.1] LI, Xian - XU, Jianlong - JIANG, Yadong - HE, Zaizhou - LIU, Bohao - XIE, Haikuan - LI, Hu - LI, Zhemin - WANG, Yang - TAI, Huiling. Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti₃C₂Tx hybrid sensitive films based gas sensor. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 316, no., pp. Dostupné na:

<https://doi.org/10.1016/j.snb.2020.128144.>, Registrované v: WOS

18. [1.1] MA BAO-KAI - LI MIAN - CHEONG LING-ZHI - WENG XIN-CHU - SHEN CAI - HUANG QING. Enzyme-MXene Nanosheets: Fabrication and Application in Electrochemical Detection of H₂O₂. In JOURNAL OF INORGANIC MATERIALS. ISSN 1000-324X, 2020, vol. 35, no. 1, pp. 131-+. Dostupné na: <https://doi.org/10.15541/jim20190139.>, Registrované v: WOS

19. [1.1] RAMACHANDRAN, Rajendran - ZHAO, Changhui - RAJKUMAR, Muniyandi - RAJAVEL, Krishnamoorthy - ZHU, Pengli - XUAN, Wenlu - XU, Zong-Xiang - WANG, Fei. Porous nickel oxide microsphere and Ti₃C₂Tx hybrid derived from metal-organic framework for battery-type supercapacitor electrode and non-enzymatic H₂O₂ sensor. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2019, vol. 322, no., pp., Registrované v: WOS

20. [1.1] RAMANAVICIUS, Simonas - RAMANAVICIUS, Arunas. Progress and Insights in the Application of MXenes as New 2D Nano-Materials Suitable for Biosensors and Biofuel Cell Design. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21239224.>, Registrované v: WOS

21. [1.1] RIAZ, Muhammad Adil - ZHAI, Shengli - WEI, Li - ZHOU, Zheng - YUAN, Ziwen - WANG, Yanqing - HUANG, Qianwei - LIAO, Xiaozhou - CHEN, Yuan. Ultralow-platinum-loading nanocarbon hybrids for highly sensitive hydrogen peroxide detection. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2019, vol. 283, no., pp. 304-311., Registrované v: WOS

22. [1.1] SHI, Yu-e - HAN, Fei - XIE, Luoyuan - ZHANG, Chuanchuan - LI, Tianzi - WANG, Henggang - LAI, Wing-Fu - LUO, Shaojuan - WEI, Wei - WANG, Zhenguang - HUANG, Yang. A MXene of type Ti₃C₂Tx functionalized with copper nanoclusters for the fluorometric determination of glutathione. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4000-x.>, Registrované v: WOS

23. [1.1] SINHA, Ankita - DHANJAI - ZHAO, Huimin - HUANG, Yujin - LU, Xianbo - CHEN, Jiping - JAIN, Rajeev. MXene: An emerging material for sensing and biosensing. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2018, vol. 105, no., pp. 424-435., Registrované v: WOS

24. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation detection platforms. In HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS, 2020, vol., no., pp. 361-372., Registrované v: WOS

25. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation detection platforms. In HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS, 2020, vol., no., pp. 361-372. Dostupné na: <https://doi.org/10.1016/B978-0-12-816699-4.00014-1.>, Registrované v: WOS

26. [1.1] SOOMRO, Razium Ali - JAWAID, Sana - ZHU, Qizhen - ABBAS, Zaheer - XU, Bin. A mini-review on MXenes as versatile substrate for advanced sensors. In CHINESE CHEMICAL LETTERS. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 922-930. Dostupné na:

- <https://doi.org/10.1016/j.cclet.2019.12.005>., Registrované v: WOS
27. [1.1] SREENILAYAM, Sithara P. - UL AHAD, Inam - NICOLASI, Valeria - BRABAZON, Dermot. MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. In MATERIALS TODAY. ISSN 1369-7021, 2020, vol. 43, no., pp. 99-131. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.10.025>., Registrované v: WOS
28. [1.1] SUN, Xiang - GAO, Yijing - ZHAO, Chenxia - DENG, Shengwei - ZHONG, Xing - ZHUANG, Guilin - WEI, Zhongzhe - WANG, Jian-guo. Palladium Dimer Supported on Mo₂CO₂(MXene) for Direct Methane to Methanol Conversion. In ADVANCED THEORY AND SIMULATIONS, 2019, vol. 2, no. 2, pp., Registrované v: WOS
29. [1.1] SUN, Yan - ZHANG, Yimeng - ZHANG, HuiXin - LIU, Meiling - LIU, Yang. Integrating Highly Efficient Recognition and Signal Transition of g-C₃N₄ Embellished Ti₃C₂ MXene Hybrid Nanosheets for Electrogenated Chemiluminescence Analysis of Protein Kinase Activity. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 15, pp. 10668-10676. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c01776>., Registrované v: WOS
30. [1.1] TAN, Teng - JIANG, Xiantao - WANG, Cong - YAO, Baicheng - ZHANG, Han. 2D Material Optoelectronics for Information Functional Device Applications: Status and Challenges. In ADVANCED SCIENCE, 2020, vol. 7, no. 11, pp. Dostupné na: <https://doi.org/10.1002/advs.202000058>., Registrované v: WOS
31. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432. Dostupné na: <https://doi.org/10.1007/s12161-019-01652-y>., Registrované v: WOS
32. [1.1] WANG, Jianxing - LIU, Ying - YANG, Guowei. Cobalt decorated ultra-thin Ti₃C₂ MXene electrocatalyst for high-efficiency hydrogen evolution reaction. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2019, vol. 6, no. 2, pp., Registrované v: WOS
33. [1.1] WU, Qiong - LI, Ningbo - WANG, Ying - LIU, Ying - XU, Yanchao - WEI, Shuting - WU, Jiandong - JIA, Guangri - FANG, Xuedong - CHEN, Fangfang - CUI, Xiaoqiang. A 2D transition metal carbide MXene-based SPR biosensor for ultrasensitive carcinoembryonic antigen detection. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 144, no., pp., Registrované v: WOS
34. [1.1] YANEZ-SEDENO, Paloma - GONZALEZ-CORTES, Araceli - CAMPUZANO, Susana - PINGARRON, Jose Manuel. Multimodal/Multifunctional Nanomaterials in (Bio)electrochemistry: Now and in the Coming Decade. In NANOMATERIALS, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/nano10122556>., Registrované v: WOS
35. [1.1] YANG, Jian - BAO, Weizhai - JAUMAUX, Pauline - ZHANG, Songtao - WANG, Chengyin - WANG, Guoxiu. MXene-Based Composites: Synthesis and Applications in Rechargeable Batteries and Supercapacitors. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, 2019, vol. 6, no. 8, pp., Registrované v: WOS
36. [1.1] YIN, Guang - WANG, Yu - WANG, Wei - YU, Dan. Multilayer

structured PANI/MXene/CF fabric for electromagnetic interference shielding constructed by layer-by-layer strategy. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2020, vol. 601, no., pp. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2020.125047>., Registrované v: WOS

37. [1.1] YUAN, Xiaofang - ZHANG, Meng - WU, Yu. MXene-based Sensors for Detecting Human Physiological Information. In SENSORS AND MATERIALS. ISSN 0914-4935, 2020, vol. 32, no. 12, pp. 4047-4065. Dostupné na: <https://doi.org/10.18494/SAM.2020.2990>., Registrované v: WOS

38. [1.1] YU, Tian - BRESLIN, Carmel B. Review-Two-Dimensional Titanium Carbide MXenes and Their Emerging Applications as Electrochemical Sensors. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS

39. [1.1] ZHANG, Huixin - WANG, Zonghua - ZHANG, Qiuxia - WANG, Feng - LIU, Yang. Ti3C2 MXenes nanosheets catalyzed highly efficient electrogenerated chemiluminescence biosensor for the detection of exosomes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 124, no., pp. 184-190., Registrované v: WOS

40. [1.1] ZHANG, Chuang - MA, Ben - ZHOU, Yingke - WANG, Cheng. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 865, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114142>., Registrované v: WOS

41. [1.1] ZHAO, Fengnian - YAO, Yao - JIANG, Chengmei - SHAO, Yuzhou - BARCELO, Damia - YING, Yibin - PING, Jianfeng. Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 384, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2019.121358>., Registrované v: WOS

42. [1.2] VITALE, Flavia - DRISCOLL, Nicolette - MURPHY, Brendan. Biomedical applications of MXenes. In 2D Metal Carbides and Nitrides (MXenes): Structure, Properties and Applications, 2019-10-30, pp. 503-524., Registrované v: SCOPUS

ADCA820 LORENCOVÁ, Lenka - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - ŠEFČOVIČOVÁ, Jana - VIKARTOVSKÁ, Alica - PAPRÁKOVÁ, Lucia - GEMEINER, Pavol - KASÁK, Peter - TKÁČ, Ján**. 2D MXenes as perspective immobilization platforms for design of electrochemical nanobiosensors. In *Electroanalysis*, 2019, vol. 31, p. 1833-1844. (2018: 2.691 - IF, Q2 - JCR, 0.621 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1040-0397. Dostupné na: <https://doi.org/10.1002/elan.201900288>

Ohlasy:

1. [1.1] HUANG, Weichun - HU, Lanping - TANG, Yanfeng - XIE, Zhongjian - ZHANG, Han. Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 49, pp. Dostupné na: <https://doi.org/10.1002/adfm.202005223>., Registrované v: WOS
2. [1.1] TANVIR, Aisha - SOBOLECIK, Patrik - POPELKA, Anton - MRLIK, Miroslav - SPITALSKY, Zdenko - MICUSIK, Matej - PROKES, Jan - KRUPA, Igor. Electrically Conductive, Transparent Polymeric Nanocomposites

Modified by 2D Ti3C2Tx (MXene). In POLYMERS, 2019, vol. 11, no. 8, pp., Registrované v: WOS

3. [1.1] YUAN, Xiaofang - ZHANG, Meng - WU, Yu. MXene-based Sensors for Detecting Human Physiological Information. In SENSORS AND MATERIALS. ISSN 0914-4935, 2020, vol. 32, no. 12, pp. 4047-4065. Dostupné na: <https://doi.org/10.18494/SAM.2020.2990>., Registrované v: WOS

ADCA821 LORITO, M. - FARKAŠ, Vladimír - REBUFFAT, S. - BODO, B. - KUBICEK, C.P. Cell wall synthesis is a major target of mycoparasitic antagonism by *Trichoderma harzianum*. In *Journal of Bacteriology*, 1996, vol. 178, p. 6382-6385. ISSN 0021-9193. Dostupné na: <https://doi.org/10.1128/jb.178.21.6382-6385.1996>

Ohlasy:

1. [1.1] AL-NAEMI, Fatima A. - AHMED, Talaat A. - NISHAD, Resna - RADWAN, Osman. Antagonistic Effects of *Trichoderma harzianum* Isolates against *Ceratocystis radicola*: pioneering a Biocontrol Strategy against Black Scorch Disease in Date Palm Trees. In JOURNAL OF PHYTOPATHOLOGY. ISSN 0931-1785, 2016, vol. 164, no. 7-8, pp. 464-475., Registrované v: WOS

2. [1.1] ATANASOVA, Lea - GRUBER, Sabine - LICHIOUS, Alexander - RADEBNER, Theresa - ABENDSTEIN, Leoni - MUENSTERKOETTER, Martin - STRALIS-PAVESE, Nancy - LABAJ, Pawel P. - KREIL, David P. - ZEILINGER, Susanne. The Gpr1-regulated Sur7 family protein Sfp2 is required for hyphal growth and cell wall stability in the mycoparasite *Trichoderma atroviride*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

3. [1.1] BHAGAT, Someshwar - SHARMA, O. P. - BIRAH, Ajanta - AMARESAN, Natarajan - AHMAD, Israr - AHMAD, Nasim - CHATTOPADHYAY, C. Role of antimicrobial compounds from *Trichoderma* spp. in plant disease management. In ANTIMICROBIALS: SYNTHETIC AND NATURAL COMPOUNDS, 2016, vol., no., pp. 359-369., Registrované v: WOS

4. [1.1] BRAUN, H. - WOITSCH, L. - HETZER, B. - GEISEN, R. - ZANGE, B. - SCHMIDT-HEYDT, M. *Trichoderma harzianum*: Inhibition of mycotoxin producing fungi and toxin biosynthesis. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2018, vol. 280, no., pp. 10-16., Registrované v: WOS

5. [1.1] CABALLERO, Alejandro - AMALIA RAMOS-PORTILLA, Andrea - SUAREZ-GONZALEZ, Diana - SERNA, Francisco - NANCY GIL, Zulma - BENAVIDES, Pablo. Scale insects (Hemiptera: Coccothraupidae) on coffee roots (*Coffea arabica* L.) in Colombia, with records of associated ants (Hymenoptera: Formicidae). In REVISTA CORPOICA-CIENCIA Y TECNOLOGIA AGROPECUARIA. ISSN 0122-8706, 2019, vol. 20, no. 1, pp. 93-116., Registrované v: WOS

6. [1.1] CONTINA, J. B. - DANDURAND, L. M. - KNUDSEN, G. R. Use of GFP-tagged *Trichoderma harzianum* as a tool to study the biological control of the potato cyst nematode *Globodera pallida*. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, 2017, vol. 115, no., pp. 31-37., Registrované v: WOS

7. [1.1] DAGUERRE, Yohann - EDEL-HERMANN, Veronique - STEINBERG, Christian. Fungal Genes and Metabolites Associated with the Biocontrol of Soil-borne Plant Pathogenic Fungi. In FUNGAL METABOLITES.

ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS

8. [1.1] DE CARVALHO, Juliana Oliveira - BROLL, Valquiria - SOUZA MARTINELLI, Anne Helene - LOPES, Fernanda Cortez. Endophytic fungi: positive association with plants. In MOLECULAR ASPECTS OF PLANT BENEFICIAL MICROBES IN AGRICULTURE, 2020, vol., no., pp. 321-332.

Dostupné na: <https://doi.org/10.1016/B978-0-12-818469-1.00026-2>,

Registrované v: WOS

9. [1.1] DEGENKOLB, Thomas - NIELSEN, Kristian Fog - DIECKMANN, Ralf - BRANCO-ROCHA, Fabiano - CHAVERRI, Priscila - SAMUELS, Gary J. - THRANE, Ulf - VON DOEHREN, Hans - VILCINSKAS, Andreas - BRUECKNER, Hans. Peptaibol, Secondary-Metabolite, and Hydrophobin Pattern of Commercial Biocontrol Agents Formulated with Species of the *Trichoderma harzianum* Complex. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2015, vol. 12, no. 4, pp. 662-684., Registrované v: WOS

10. [1.1] DEGENKOLB, Thomas - GOETZE, Lutz - VON DOEHREN, Hans - VILCINSKAS, Andreas - BRUECKNER, Hans. Sequences of stilboflavin C: towards the peptaibiome of the filamentous fungus *Stilbella* (= *Trichoderma*) *flavipes*. In JOURNAL OF PEPTIDE SCIENCE. ISSN 1075-2617, 2016, vol. 22, no. 8, pp. 517-524., Registrované v: WOS

11. [1.1] Fungal Biomolecules: Sources, Applications and Recent Developments. In FUNGAL BIOMOLECULES: SOURCES, APPLICATIONS AND RECENT DEVELOPMENTS, 2015, vol., no., pp. 1-386., Registrované v: WOS

12. [1.1] GOMES, Eriston Vieira - COSTA, Mariana do Nascimento - DE PAULA, Renato Graciano - DE AZEVEDO, Rafael Ricci - DA SILVA, Francilene Lopes - NORONHA, Eliane F. - ULHOA, Cirano Jose - MONTEIRO, Valdirene Neves - CARDOZA, Rosa Elena - GUTIERREZ, Santiago - SILVA, Roberto Nascimento. The Cerato-Platanin protein Epl-1 from *Trichoderma harzianum* is involved in mycoparasitism, plant resistance induction and self cell wall protection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS

13. [1.1] CHENG, Peng - SONG, Wei - GONG, Xiao - LIU, Yisong - XIE, Weiguo - HUANG, Lihua - HONG, Yahui. Proteomic Approaches of *Trichoderma hamatum* to Control *Ralstonia solanacearum* Causing Pepper Bacterial Wilt. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2015, vol. 17, no. 6, pp. 1101-1109., Registrované v: WOS

14. [1.1] JABER, Lara R. - OWNLEY, Bonnie H. Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens? In BIOLOGICAL CONTROL. ISSN 1049-9644, 2018, vol. 116, no., pp. 36-45., Registrované v: WOS

15. [1.1] KANDULA, D. R. W. - JONES, E. E. - STEWART, A. - MCLEAN, K. L. - HAMPTON, J. G. *Trichoderma* species for biocontrol of soil-borne plant pathogens of pasture species. In BIOCONTROL SCIENCE AND TECHNOLOGY. ISSN 0958-3157, 2015, vol. 25, no. 9, pp. 1052-1069., Registrované v: WOS

16. [1.1] KARLSSON, Magnus - ATANASOVA, Lea - JENSEN, Dan Funck - ZEILINGER, Susanne. Necrotrophic Mycoparasites and Their Genomes. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, 2017, vol. 5, no. 2, pp., Registrované v: WOS

17. [1.1] KUMAR, Pankaj - DUBEY, Ramesh Chandra - MAHESHWARI, Dinesh Kumar - PARK, Yong-Ha - BAJPAI, Vivek K. ISOLATION OF PLANT GROWTH-PROMOTING PSEUDOMONAS SP PPR8 FROM THE RHIZOSPHERE OF PHASEOLUS VULGARIS L. In ARCHIVES OF BIOLOGICAL SCIENCES. ISSN 0354-4664, 2016, vol. 68, no. 2, pp. 363-374., Registrované v: WOS
18. [1.1] LEON-TTACCA, Betsabe - AREVALO-GARDINI, Enrique - BOUCHON, Anne-Sophie. Sudden death of Theobroma cacao L. caused by Verticillium dahliae Kleb. in Peru and its in vitro biocontrol. In REVISTA CORPOICA-CIENCIA Y TECNOLOGIA AGROPECUARIA. ISSN 0122-8706, 2019, vol. 20, no. 1, pp. 133-148., Registrované v: WOS
19. [1.1] LINDO, Laura - CARDOZA, Rosa E. - LORENZANA, Alicia - CASQUERO, Pedro A. - GUTIERREZ, Santiago. Identification of plant genes putatively involved in the perception of fungal ergosterol-squalene. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2020, vol. 62, no. 7, pp. 927-947. Dostupné na: <https://doi.org/10.1111/jipb.12862>., Registrované v: WOS
20. [1.1] LI, Yaqian - SUN, Ruiyan - YU, Jia - SARAVANAKUMAR, Kandasamy - CHEN, Jie. Antagonistic and Biocontrol Potential of Trichoderma asperellum ZJSX5003 Against the Maize Stalk Rot Pathogen Fusarium graminearum. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, 2016, vol. 56, no. 3, pp. 318-327., Registrované v: WOS
21. [1.1] MARIK, Tamas - TYAGI, Chetna - RACIC, Gordana - RAKK, David - SZEKERES, Andras - VAGVOLGYI, Csaba - KREDICS, Laszlo. New 19-Residue Peptaibols from Trichoderma Clade Viride. In MICROORGANISMS. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS
22. [1.1] MARIK, Tamas - URBAN, Peter - TYAGI, Chetna - SZEKERES, Andras - LEITGEB, Balazs - VAGVOLGYI, Mate - MANCZINGER, Laszlo - DRUZHININA, Irina S. - VAGVOLGYI, Csaba - KREDICS, Laszlo. Diversity Profile and Dynamics of Peptaibols Produced by Green Mould Trichoderma Species in Interactions with Their Hosts Agaricus bisporus and Pleurotus ostreatus. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2017, vol. 14, no. 6, pp., Registrované v: WOS
23. [1.1] MENDOZA-MENDOZA, Artemio - NOGUEIRA-LOPEZ, Guillermo - ARIZMENDI, Fabiola Padilla - CRIPPS-GUAZZONE, Natalia - NIETO-JACOBO, Maria Fernanda - LAWRY, Robert - KANDULA, Diwakar - BERENICE SALAZAR-BADILLO, Fatima - SALAS-MUNOZ, Silvia - ARMANDO MAURICIO-CASTILLO, Jorge - HILL, Robert - STEWART, Alison - STEYAERT, Johanna. Mechanisms of Growth Promotion by Members of the Rhizosphere Fungal Genus Trichoderma. In ADVANCES IN PGPR RESEARCH, 2017, vol., no., pp. 1-15., Registrované v: WOS
24. [1.1] MYTHILI, J. B. - CHETHANA, B. S. - RAJEEV, P. R. - GANESHAN, Girija. Chitinase gene construct from Trichoderma harzianum proved effective against onion purple blotch caused by Alternaria porri. In INDIAN JOURNAL OF BIOTECHNOLOGY. ISSN 0972-5849, 2018, vol. 17, no. 1, pp. 50-56., Registrované v: WOS
25. [1.1] PYLAK, Michal - OSZUST, Karolina - FRAC, Magdalena. Review report on the role of bioproducts, biopreparations, biostimulants and microbial inoculants in organic production of fruit. In REVIEWS IN

- ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2019, vol. 18, no. 3, pp. 597-616., Registrované v: WOS
26. [1.1] SHAH, L. - ALI, A. - YAHYA, M. - ZHU, Y. - WANG, S. - SI, H. - RAHMAN, H. - MA, C. Integrated control of fusarium head blight and deoxynivalenol mycotoxin in wheat. In PLANT PATHOLOGY. ISSN 0032-0862, 2018, vol. 67, no. 3, pp. 532-548., Registrované v: WOS
27. [1.1] SHARMA, Sushma - KOUR, Divjot - RANA, Kusam Lata - DHIMAN, Anu - THAKUR, Shiwani - THAKUR, Priyanka - THAKUR, Sapna - THAKUR, Neelam - SUDHEER, Surya - YADAV, Neelam - YADAV, Ajar Nath - RASTEGARI, Ali A. - SINGH, Karan. Trichoderma: Biodiversity, Ecological Significances, and Industrial Applications. In RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 1: DIVERSITY AND ENZYMES PERSPECTIVES. ISSN 2198-7777, 2019, vol., no., pp. 85-120., Registrované v: WOS
28. [1.1] SINGH, Jyoti - RAJPUT, Rahul Singh - BISEN, Kartikay - SINGH, Surendra - SINGH, H. B. Role of Trichoderma Secondary Metabolites in Plant Growth Promotion and Biological Control. In ADVANCES IN PGPR RESEARCH, 2017, vol., no., pp. 411-426., Registrované v: WOS
29. [1.1] SPECKBACHER, Verena - RUZSANYI, Veronika - MARTINEZ-MEDINA, Ainhoa - HINTERDOBLER, Wolfgang - DOPPLER, Maria - SCHREINER, Ulrike - BOEHMDORFER, Stefan - BECCACCIOLI, Marzia - SCHUHMACHER, Rainer - REVERBERI, Massimo - SCHMOLL, Monika - ZEILINGER, Susanne. The Lipoxygenase Lox1 Is Involved in Light- and Injury-Response, Conidiation, and Volatile Organic Compound Biosynthesis in the Mycoparasitic Fungus Trichoderma atroviride. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.02004.>, Registrované v: WOS
30. [1.1] TAMANDEGANI, Parisa Rahimi - MARIK, Tamas - ZAFARI, Doustmorad - BALAZS, Dora - VAGVOLGYI, Csaba - SZEKERES, Andras - KREDICS, Laszlo. Changes in Peptaibol Production of Trichoderma Species during In Vitro Antagonistic Interactions with Fungal Plant Pathogens. In BIOMOLECULES, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/biom10050730.>, Registrované v: WOS
31. [1.1] VICENTE, Isabel - BARONCELLI, Riccardo - MORAN-DIEZ, Maria Eugenia - BERNARDI, Rodolfo - PUNTONI, Grazia - HERMOSA, Rosa - MONTE, Enrique - VANNACCI, Giovanni - SARROCCO, Sabrina. Combined Comparative Genomics and Gene Expression Analyses Provide Insights into the Terpene Synthases Inventory in Trichoderma. In MICROORGANISMS, 2020, vol. 8, no. 10, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8101603.>, Registrované v: WOS
32. [1.1] YAZMIN GOMEZ-RODRIGUEZ, Elida - ELENA URESTI-RIVERA, Edith - ARACELI PATRON-SOBERANO, Olga - AUXILIADORA ISLAS-OSUNA, Maria - FLORES-MARTINEZ, Alberto - RIEGO-RUIZ, Lina - TERESA ROSALES-SAAVEDRA, Maria - CASAS-FLORES, Sergio. Histone acetyltransferase TGF-1 regulates Trichoderma atroviride secondary metabolism and mycoparasitism. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS
33. [1.1] ZEILINGER, Susanne - GRUBER, Sabine - BANSAL, Rauindra - MUKHERJEE, Prasun K. Secondary metabolism in Trichoderma Chemistry meets genomics. In FUNGAL BIOLOGY REVIEWS. ISSN

1749-4613, 2016, vol. 30, no. 2, pp. 74-90., Registrované v: WOS

34. [1.1] ZIN, Nur A. - BADALUDDIN, Noor A. Biological functions of *Trichoderma* spp. for agriculture applications. In ANNALS OF AGRICULTURAL SCIENCE. ISSN 0570-1783, 2020, vol. 65, no. 2, pp. 168-178. Dostupné na: <https://doi.org/10.1016/j.aoas.2020.09.003>., Registrované v: WOS

35. [1.2] JABER, Lara R. - OWNLEY, Bonnie H. Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens? In Biological Control. ISSN 10499644, 2017-04-01, 107, pp. 50-59., Registrované v: SCOPUS

36. [1.2] PATIL, Anita Surendra - PATIL, Surendra Rajaram - PAIKRAO, Hariprasad Madhukarrao. *Trichoderma* secondary metabolites: Their biochemistry and possible role in disease management. In Microbial-Mediated Induced Systemic Resistance in Plants, 2016-01-01, pp. 103-124., Registrované v: SCOPUS

37. [1.2] SIDDIQUEE, Shafiquzzaman. Fungal volatile organic Compounds: Emphasis on their plant growth-promoting. In Volatiles and Food Security: Role of Volatiles in Agro-Ecosystems, 2017-12-06, pp. 313-333., Registrované v: SCOPUS

ADCA822 LUBY, P. - KUNIAK, Ľudovít - FANTER, C. Crosslinking statistics. III. Relation between relative reactivity and accessibility of cellulose hydroxyl groups. In *Makromolekulare Chemie*, 1979, vol. 180, p. 2379-2386.

Ohlasy:

1. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS

2. [1.1] AKIL, Youssef - LEHNEN, Ralph - SAAKE, Bodo. Novel synthesis of hydroxyvinylethyl xylan using 4-vinyl-1, 3-dioxolan-2-one. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2016, vol. 57, no. 37, pp. 4200-4202., Registrované v: WOS

3. [1.1] AKIL, Youssef - LORENZ, Dominic - LEHNEN, Ralph - SAAKE, Bodo. Safe and non-toxic hydroxyalkylation of xylan using propylene carbonate. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2016, vol. 77, no., pp. 88-97., Registrované v: WOS

4. [1.1] CIOLACU, Diana - RUDAZ, Cyrielle - VASILESCU, Mihai - BUDTOVA, Tatiana. Physically and chemically cross-linked cellulose cryogels: Structure, properties and application for controlled release. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 151, no., pp. 392-400., Registrované v: WOS

5. [1.1] HUBER, Tim - FEAST, Sean - DIMARTINO, Simone - CEN, Wanwen - FEE, Conan. Analysis of the Effect of Processing Conditions on Physical Properties of Thermally Set Cellulose Hydrogels. In MATERIALS, 2019, vol. 12, no. 7, pp., Registrované v: WOS

6. [1.1] LIN, Meiyan - XIA, Kunfeng - LU, Pengbo - OU, Yanghao - SU, Lingfeng - LIU, Detao. Smart Hydrophobic-Hydrophilic Self-Switching Cellulosic Materials Synthesized by Regioselective Functionalization. In

- ADCA823 LUŠPAI, Karol - BARBIERIKOVÁ, Zuzana - MALČEK, Michal - BUČINSKÝ, Lukáš - STAŠKO, Andrej - BELLA, Maroš - MILATA, Viktor - RAPTA, Peter - BREZOVÁ, Vlasta. Cathodic and photocatalytic reduction of nitroquinolones investigated by in situ EPR/UV-Vis spectroelectrochemistry and EPR spectroscopy. In *Current Organic Chemistry*, 2013, vol. 17, p. 2427-2439. (2012: 3.039 - IF, Q2 - JCR, 1.406 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1385-2728.

Ohlasy:

1. [1.1] BELEN'KII, Leonid I. - EVDOKIMENKOVA, Yu B. The Literature of Heterocyclic Chemistry, Part XIII, 2012-2013. In *ADVANCES IN HETEROCYCLIC CHEMISTRY*, VOL 116. ISSN 0065-2725, 2015, vol. 116, no., pp. 193-363., Registrované v: WOS

- ADCA824 LUŠPAI, Karol - STAŠKO, Andrej - LUKEŠ, Vladimír - DVORANOVÁ, Dana - BARBIERIKOVÁ, Zuzana - BELLA, Maroš - MILATA, Viktor - RAPTA, Peter - BREZOVÁ, Vlasta. Radical anions of quinoxalines (an in situ electron paramagnetic resonance spectroelectrochemical and theoretical study). In *Journal of Solid State Electrochemistry*, 2015, vol. 19, p. 113-122. (2014: 2.446 - IF, Q2 - JCR, 0.831 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1432-8488. Dostupné na: <https://doi.org/10.1007/s10008-014-2625-6>

Ohlasy:

1. [1.1] WANG, Pan - YANG, Zhenlin - WANG, Ziwei - XU, Chenyang - HUANG, Lei - WANG, Shengchun - ZHANG, Heng - LEI, Aiwen. Electrochemical Arylation of Electron-Deficient Arenes through Reductive Activation. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2019, vol. 58, no. 44, pp. 15747-15751., Registrované v: WOS

- ADCA825 LUX, Alexander - VACULÍK, M. - MARTINKA, M. - LIŠKOVÁ, Desana - KULKARNI, M.G. - STIRK, W.A. - VAN STADEN, J. Cadmium induces hypodermal periderm formation in the roots of the monocotyledonous plant *Merwillia plumbea* (Lindl.) Speta. In *Annals of Botany*. - London : Oxford University Press, 2011, vol. 107, p. 285-292. (2010: 3.388 - IF, Q1 - JCR, 1.663 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcq240>

Ohlasy:

1. [1.1] ABASSI, Mejda - LAMHAMEDI, Mohammed S. - HACHANI, Chadlia - BEJAOU, Zoubeir. Morpho-physiological evaluation of three *Salix* clones from semi-arid zones subjected to excess zinc under hydroponic conditions. In *CANADIAN JOURNAL OF FOREST RESEARCH*. ISSN 0045-5067, 2018, vol. 48, no. 5, pp. 599-609., Registrované v: WOS
2. [1.1] BAZIHIZINA, Nadia - TAITI, Cosimo - SERRE, Nelson - NOCCI, Chiara - SPINELLI, Francesco - NISSIM, Werther Guidi - AZZARELLO, Elisa - MARTI, Lucia - REDWAN, Mirvat - GONNELLI, Cristina - MANCUSO, Stefano. Awaiting better times: A quiescence response and adventitious root primordia formation prolong survival under cadmium stress in *Tetradenia riparia* (Hochst.) Codd. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2016, vol. 130, no., pp. 1-10.,

Registrované v: WOS

3. [1.1] ELLOUMI, Nada - BELHAJ, Dalel - JERBI, Boutheina - ZOUARI, Mohamed - KALLEL, Monem. Effects of sewage sludge on bio-accumulation of heavy metals in tomato seedlings. In SPANISH JOURNAL OF AGRICULTURAL RESEARCH. ISSN 1695-971X, 2016, vol. 14, no. 4, pp., Registrované v: WOS

4. [1.1] GARG, Neera - SINGH, Sandeep. Mycorrhizal inoculations and silicon fortifications improve rhizobial symbiosis, antioxidant defense, trehalose turnover in pigeon pea genotypes under cadmium and zinc stress. In PLANT GROWTH REGULATION. ISSN 0167-6903, 2018, vol. 86, no. 1, pp. 105-119., Registrované v: WOS

5. [1.1] GLOWACKA, Katarzyna - ZROBEK-SOKOLNIK, Anna - OKORSKI, Adam - NAJDZION, Janusz. The Effect of Cadmium on the Activity of Stress-Related Enzymes and the Ultrastructure of Pea Roots. In PLANTS-BASEL, 2019, vol. 8, no. 10, pp., Registrované v: WOS

6. [1.1] HUANG, Xin - DUAN, Songpo - WU, Qi - YU, Min - SHABALA, Sergey. Reducing Cadmium Accumulation in Plants: Structure-Function Relations and Tissue-Specific Operation of Transporters in the Spotlight. In PLANTS-BASEL, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/plants9020223>., Registrované v: WOS

7. [1.1] JEELANI, Nasreen - YANG, Wen - XU, Lingqian - QIAO, Yajun - AN, Shuqing - LENG, Xin. Phytoremediation potential of Acorus calamus in soils co-contaminated with cadmium and polycyclic aromatic hydrocarbons. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

8. [1.1] LIU, Meihua - KORPELAINEN, Helena - DONG, Lianchun - YI, Lita. Physiological responses of Elaeocarpus glabripetalus seedlings exposed to simulated acid rain and cadmium. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2019, vol. 175, no., pp. 118-127., Registrované v: WOS

9. [1.1] LI, Tao - RAJAGOPLAN, Uma Maheswari - KADONO, Hirofumi. Fractal based complexity analysis of wheat root system under different heavy metals. In PLANT BIOTECHNOLOGY. ISSN 1342-4580, 2019, vol. 36, no. 2, pp. 77-84., Registrované v: WOS

10. [1.1] MATUSOVA, Radoslava - CARACH, Martin - LABUN, Pavol - SALAJ, Terezia. Physiological and structural responses of hybrid firs embryogenic tissue under cadmium stress. In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2020, vol. 131, no., pp. 240-249. Dostupné na: <https://doi.org/10.1016/j.sajb.2020.02.030>., Registrované v: WOS

11. [1.1] MONIUSZKO, Grzegorz - ZIENTARA-RYTTER, Katarzyna. Yellow deposits formation in roots is a part of tobacco plant phenotype under sulfur deficiency. In PERIODICUM BIOLOGORUM. ISSN 0031-5362, 2015, vol. 117, no. 3, pp. 365-370., Registrované v: WOS

12. [1.1] NOUAIRI, Issam - JALALI, Karima - ESSID, Sabrine - ZRIBI, Kais - MHADHBI, Haythem. Alleviation of cadmium-induced genotoxicity and cytotoxicity by calcium chloride in faba bean (*Vicia faba* L. var. minor) roots. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2019, vol. 25, no. 4, pp. 921-931., Registrované v: WOS

13. [1.1] PARROTTA, Luigi - GUERRIERO, Gea - SERGEANT, Kjell - CAL, Giampiero - HAUSMAN, Jean-Francois. Target or barrier? The cell wall

of early- and later-diverging plants vs cadmium toxicity: differences in the response mechanisms. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS

14. [1.1] POMPEU, Georgia B. - VILHENA, Milca B. - GRATAO, Priscila L. - CARVALHO, Rogerio F. - ROSSI, Monica L. - MARTINELLI, Adriana P. - AZEVEDO, Ricardo A. Abscissic acid-deficient sit tomato mutant responses to cadmium-induced stress. In *PROTOPLASMA*. ISSN 0033-183X, 2017, vol. 254, no. 2, pp. 771-783., Registrované v: WOS

15. [1.1] RAZA, Ali - HABIB, Madiha - KAKAVAND, Shiva Najafi - ZAHID, Zainab - ZAHRA, Noreen - SHARIF, Rahat - HASANUZZAMAN, Mirza. Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. In *BIOLOGY-BASEL*, 2020, vol. 9, no. 7, pp. Dostupné na: <https://doi.org/10.3390/biology9070177>., Registrované v: WOS

16. [1.1] RODRIGUEZ-CELMA, Jorge - LATTANZIO, Giuseppe - VILLARROYA, Dido - GUTIERREZ-CARBONELL, Elain - CEBALLOS-LAITA, Laura - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - GRUSAK, Michael A. - ABADIA, Anunciacion - ABADIA, Javier - LOPEZ-MILLAN, Ana-Flor. Effects of Fe deficiency on the protein profiles and lignin composition of stem tissues from *Medicago truncatula* in absence or presence of calcium carbonate. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2016, vol. 140, no., pp. 1-12., Registrované v: WOS

17. [1.1] VITORIA, Angela Pierre - DA SILVA SANTOS, Jorge Luis - MOREIRA BARROS SALOMAO, Marcos Sarment - VIEIRA, Tatiane de Oliveira - DA CUNHA, Maura - PIREDA, Saulo Fernandes - RABELO, Guilherme Rodrigues. Influence of ecologic type, seasonality, and origin of macrophyte in metal accumulation, anatomy and ecophysiology of *Eichhornia crassipes* and *Eichhornia azurea*. In *AQUATIC BOTANY*. ISSN 0304-3770, 2015, vol. 125, no., pp. 9-16., Registrované v: WOS

18. [1.1] ZHANG, Xia - YANG, Chaodong - SEAGO, James L. Anatomical and histochemical traits of roots and stems of *Artemisia lavandulaefolia* and *A. selengensis* (Asteraceae) in the Jiangnan Floodplain, China. In *FLORA*. ISSN 0367-2530, 2018, vol. 239, no., pp. 87-97., Registrované v: WOS

19. [1.1] ZHAO, Li - LI, Tingxuan - YU, Haiying - CHEN, Guangdeng - ZHANG, Xizhou - ZHENG, Zicheng - LI, Jinxing. Changes in chemical forms, subcellular distribution, and thiol compounds involved in Pb accumulation and detoxification in *Athyrium wardii* (Hook.). In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2015, vol. 22, no. 16, pp. 12676-12688., Registrované v: WOS

20. [1.2] ALLE, V. - KONDRATOVICS, U. - OSVALDE, A. - VIKMANE, M. Differences in cadmium accumulation and induced changes in root anatomical structures in plants used for food. In *Agronomy Research*. ISSN 1406894X, 2016-01-01, 14, specialIssue 2, pp. 1249-1260., Registrované v: SCOPUS

21. [1.2] SHAH, Kavita - NAHAKPAM, Sareeta - CHATURVEDI, Vyomendra - SINGH, Prerna. Cadmium-Induced Anatomical Abnormalities in Plants. In *Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation*, 2018-12-05, pp. 111-139., Registrované v: SCOPUS

ADCA826 LUX, Alexander - LACKOVIČ, Andrej - STADEN, Johannes Van - LIŠKOVÁ, Desana - KOHANOVÁ, Jana - MARTINKA, Michal. Cadmium translocation by contractile roots differs from that in regular, non-contractile roots. In *Annals of Botany*, 2015, vol. 115, p. 1149-1154. (2014: 3.654 - IF, Q1 - JCR, 1.686 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcv051>

Ohlasy:

1. [1.1] GLOWACKA, Katarzyna - ZROBEK-SOKOLNIK, Anna - OKORSKI, Adam - NAJDZION, Janusz. The Effect of Cadmium on the Activity of Stress-Related Enzymes and the Ultrastructure of Pea Roots. In *PLANTS-BASEL*, 2019, vol. 8, no. 10, pp., Registrované v: WOS
2. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM, Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad - ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (*Zea mays* L.) for phytomanagement of Cd-contaminated soils: a critical review. In *ENVIRONMENTAL GEOCHEMISTRY AND HEALTH*. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS

ADCA827 LUX, Alexander - LUKAČOVÁ, Zuzana - VACULÍK, Marek - ŠVUBOVÁ, Renáta - KOHANOVÁ, Jana - SOUKUP, Milan - MARTINKA, Michal - BOKOR, Boris*. Silicification of root tissues. In *Plants*, 2020, vol. 9, no. 1, art. no. 111 [20] p. (2019: 2.762 - IF, Q1 - JCR, 0.877 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 2223-7747. Dostupné na: <https://doi.org/10.3390/plants9010111>

Ohlasy:

1. [1.1] HUGHES, H.J. - HUNG, D.T. - SAUER, D. Silicon recycling through rice residue management does not prevent silicon depletion in paddy rice cultivation. In *NUTRIENT CYCLING IN AGROECOSYSTEMS*. ISSN 1385-1314, SEP 2020, vol. 118, no. 1, p. 75-89., Registrované v: WOS
2. [1.1] PIPERNO, D.R. - MCMICHAEL, C. Phytoliths in modern plants from amazonia and the neotropics at large: Implications for vegetation history reconstruction. In *QUATERNARY INTERNATIONAL*. ISSN 1040-6182, NOV 10 2020, vol. 565, p. 54-74., Registrované v: WOS

ADCA828 MACEKOVÁ, D. - FARKAŠ, Vladimír - KISHIDA, E. - TAKEO, K. Ecto-glycanases and metabolic stability of the capsule in *Cryptococcus neoformans*. In *Journal of Basic Microbiology*, 2006, vol.46, p. 470-479. (2005: 1.000 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0233-111X.

Ohlasy:

1. [1.1] GEDDES, Jennifer M. H. - CROLL, Daniel - CAZA, Melissa - STOYNOV, Nikolay - FOSTER, Leonard J. - KRONSTAD, James W. Secretome profiling of *Cryptococcus neoformans* reveals regulation of a subset of virulence-associated proteins and potential biomarkers by protein kinase A. In *BMC MICROBIOLOGY*. ISSN 1471-2180, 2015, vol. 15, no., pp., Registrované v: WOS
2. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata.

Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS

ADCA829 MAČIČKOVÁ, Tatiana - KETTNER, Milan - LINEK, K.. In vivo effect of 2,4-dinitro-phenyl-substituted sugar hydrazones and phenylosazone against *trichomonas vaginalis* and *trichomonas foetus*. In *Pharmazie : an international journal of pharmaceutical sciences*, 1990, vol. 45, no. 3, p. 204-206. ISSN 0031-7144. Dostupné na: https://doi.org/10.1007/978-981-10-4017-7_12

Ohlasy:

1. [1.2] KUSHWAHA, B. - GUPTA, G. Sexually transmitted infections and male infertility: Old enigma, new insights. (Book Chapter). In *MALE INFERTILITY: UNDERSTANDING, CAUSES AND TREATMENT*. 2017, p. 183-212., Registrované v: SCOPUS

ADCA830 MACHOVÁ, Eva - BYSTRICKÝ, Slavomír. Antioxidant capacities of mannans and glucans are related to their susceptibility of free radical degradation. In *International Journal of Biological Macromolecules*, 2013, vol. 61, p. 308-311. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2013.07.016>

Ohlasy:

1. [1.1] CARBALLO, Carlos - CHRONOPOULOU, Evangelia G. - LETSIOU, Sofia - MAYA, Claudia - LABROU, Nikolaos E. - INFANTE, Carlos - POWER, Deborah M. - MANCHADO, Manuel. Antioxidant capacity and immunomodulatory effects of a chrysolaminarin-enriched extract in Senegalese sole. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2018, vol. 82, no., pp. 1-8., Registrované v: WOS

2. [1.1] ENDO, Yasushi - AOTA, Takashi - TSUKUI, Takayuki. Antioxidant Activity of Alginic Acid in Minced Pork Meat. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2015, vol. 21, no. 6, pp. 875-878., Registrované v: WOS

3. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In *NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL*. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS

4. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In *HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS*, 2015, vol., no., pp. 61-103., Registrované v: WOS

5. [1.1] GALINARI, Eder - ALMEIDA-LIMA, Jailma - MACEDO, Gorete Ribeiro - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Antioxidant, antiproliferative, and immunostimulatory effects of cell wall alpha-D-mannan fractions from *Kluyveromyces marxianus*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*.

- ISSN 0141-8130, 2018, vol. 109, no., pp. 837-846., Registrované v: WOS
6. [1.1] GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast *Kluyveromyces marxianus*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS
7. [1.1] MORENO-MENDIETA, Silvia - GUILLEN, Daniel - HERNANDEZ-PANDO, Rogelio - SANCHEZ, Sergio - RODRIGUEZ-SANOJA, Romina. Potential of glucans as vaccine adjuvants: A review of the alpha-glucans case. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 103-114., Registrované v: WOS
8. [1.1] MORONEY, Natasha C. - O'GRADY, Michael N. - LORDAN, Sinead - STANTON, Catherine - KERRY, Joseph P. Seaweed Polysaccharides (Laminarin and Fucoidan) as Functional Ingredients in Pork Meat: An Evaluation of Anti-Oxidative Potential, Thermal Stability and Bioaccessibility. In MARINE DRUGS. ISSN 1660-3397, 2015, vol. 13, no. 4, pp. 2447-2464., Registrované v: WOS
9. [1.1] QIAN, Jian-Ya - BAI, Ye-Yu - TANG, Jing - CHEN, Wei. Antioxidation and alpha-glucosidase inhibitory activities of barley polysaccharides modified with sulfation. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2015, vol. 64, no. 1, pp. 104-111., Registrované v: WOS
10. [1.1] SELLIMI, Sabrine - MAALEJ, Hana - REKIK, Dorsaf Moalla - BENSLIMA, Abdelkarim - KSOUDA, Ghada - HAMDI, Mama - SAHNOUN, Zouheir - LI, Suming - NASRI, Moncef - HAJJI, Mohamed. Antioxidant, antibacterial and in vivo wound healing properties of laminaran purified from *Cystoseira barbata* seaweed. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 633-644., Registrované v: WOS
11. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
12. [1.1] WANG, Junqiao - HU, Shuzhen - NIE, Shaoping - YU, Qiang - XIE, Mingyong. Reviews on Mechanisms of In Vitro Antioxidant Activity of Polysaccharides. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2016, vol., no., pp., Registrované v: WOS
13. [1.1] WANG, Yu-Jie - MAINA, Ndegwa Henry - EKHOLM, Paivi - LAMPI, Anna-Maija - SONTAG-STROHM, Tuula. Retardation of oxidation by residual phytate in purified cereal beta-glucans. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 66, no., pp. 161-167., Registrované v: WOS
14. [1.1] WESA, Kathleen M. - CUNNINGHAM-RUNDLES, Susanna - KLIMEK, Virginia M. - VERTOSICK, Emily - COLETON, Marci I. - YEUNG, K. Simon - LIN, Hong - NIMER, Stephen - CASSILETH, Barrie R. Maitake mushroom extract in myelodysplastic syndromes (MDS): a phase II study. In CANCER IMMUNOLOGY IMMUNOTHERAPY. ISSN 0340-7004, 2015, vol. 64, no. 2, pp. 237-247., Registrované v: WOS
15. [1.1] WU, Ning-hua - KE, Zhi-qiang - WU, Shan - YANG, Xiao-song

- CHEN, Qing-jie - HUANG, Sheng-tang - LIU, Chao. Evaluation of the antioxidant and endothelial protective effects of *Lysimachia christinae* Hance (Jin Qian Cao) extract fractions. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2018, vol. 18, no., pp., Registrované v: WOS

16. [1.1] XIE, Fang - YUAN, Shuzhi - PAN, Hanxu - WANG, Rui - CAO, Jiankang - JIANG, Weibo. Effect of yeast mannan treatments on ripening progress and modification of cell wall polysaccharides in tomato fruit. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 218, no., pp. 509-517., Registrované v: WOS

17. [1.1] ZENG, Huang-Yu - HUANG, Yi-Cheng. Basic fibroblast growth factor released from fucoidan-modified chitosan/alginate scaffolds for promoting fibroblasts migration. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2018, vol. 25, no. 3, pp., Registrované v: WOS

18. [1.1] ZHU, Yuan - MAHANEY, James - JELLISON, Jody - CAO, Jinzhen - GRESSLER, Julia - HOFFMEISTER, Dirk - GOODELL, Barry. Fungal variegatic acid and extracellular polysaccharides promote the site-specific generation of reactive oxygen species. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2017, vol. 44, no. 3, pp. 329-338., Registrované v: WOS

19. [1.2] VUNDUK, Jovana - KLAUS, Anita - KOZARSKI, Maja - PETROVIĆ, Predrag - ŽIŽAK, Željko - NIKŠIĆ, Miomir - VAN GRIENSVEN, Leo J.L.D. Did the iceman know better? Screening of the medicinal properties of the birch polypore medicinal mushroom, *piptoporus betulinus* (higher basidiomycetes). In International Journal of Medicinal Mushrooms. ISSN 15219437, 2015-01-01, 17, 12, pp. 1113-1125., Registrované v: SCOPUS

20. [1.2] WANG, Jing - CHENG, Chan - SHENG, Wenjun - LI, Min - ZHU, Xia - HAN, Shunyu. Study on antioxidant activity in vitro of β -Glucan and its carboxymethylated derivatives from wine yeast. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 6, pp. 595-602., Registrované v: SCOPUS

21. [1.2] WHITE, James Francis - KINGSLEY, Kathryn L. - BUTTERWORTH, Susan - BRINDISI, Lara - GATEI, Judy W. - ELMORE, Matthew T. - VERMA, Satish Kumar - YAO, Xiang - KOWALSKI, Kurt P. Seed-vectored microbes: Their roles in improving seedling fitness and competitor plant suppression. In Seed Endophytes: Biology and Biotechnology, 2019-04-05, pp. 3-20., Registrované v: SCOPUS

ADCA831 MACHOVÁ, Eva - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter. Effect of carboxymethylation on antioxidant properties and radical degradation of mannans and glucans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 112, p. 603-607. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.06.050>

Ohlasy:

1. [1.1] BODDAPATI, Sirisha - RAI, Randhir - GUMMADI, Sathyanaryana N. Structural analysis and antioxidative properties of mutan (water-insoluble glucan) and carboxymethyl mutan from *Streptococcus mutans*. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 97, no., pp.

130-139. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.07.006>.,

Registrované v: WOS

2. [1.1] DUAN, Suyang - ZHAO, Meimei - WU, Baoyu - WANG, Shijie - YANG, Yu - XU, Yaqin - WANG, Libo. Preparation, characteristics, and antioxidant activities of carboxymethylated polysaccharides from blackcurrant fruits. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1114-1122. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.078>., Registrované v: WOS

3. [1.1] GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast Kluyveromyces marxianus. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS

4. [1.1] HUANG, Gangliang - HUANG, Hualiang. The derivatization and antitumor mechanisms of polysaccharides. In FUTURE MEDICINAL CHEMISTRY. ISSN 1756-8919, 2017, vol. 9, no. 16, pp. 1931-1938., Registrované v: WOS

5. [1.1] CHAKKA, Vara Prasad - ZHOU, Tao. Carboxymethylation of polysaccharides: Synthesis and bioactivities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2425-2431. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.178>., Registrované v: WOS

6. [1.1] LEHTONEN, M. - MERINEN, M. - KILPELAINEN, P. O. - XU, C. - WILLFOR, S. M. - MIKKONEN, K. S. Phenolic residues in spruce galactoglucomannans improve stabilization of oil-in-water emulsions. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2018, vol. 512, no., pp. 536-547., Registrované v: WOS

7. [1.1] LIU, Yuntao - YOU, Yuxian - LI, Yiwen - ZHANG, Lan - TANG, Tingting - DUAN, Xiaoyu - LI, Cheng - LIU, Aiping - HU, Bin - CHEN, Daiwen. Characterization of carboxymethylated polysaccharides from Catathelasma ventricosum and their antioxidant and antibacterial activities. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 38, no., pp. 355-362., Registrované v: WOS

8. [1.1] SHAO, Le-Le - XU, Jie - SHI, Mei-Jia - WANG, Xiao-Ling - LI, Yin-Ting - KONG, Li-Min - HIDER, Robert C. - ZHOU, Tao. Preparation, antioxidant and antimicrobial evaluation of hydroxamated degraded polysaccharides from Enteromorpha prolifera. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 237, no., pp. 481-487., Registrované v: WOS

9. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257., Registrované v: WOS

10. [1.1] THEIS, Thais Vanessa - QUEIROZ SANTOS, Vidiany Aparecida - APPELT, Patricia - BARBOSA-DEKKER, Aneli M. - VETVICKA, Vaclav - DEKKER, Robert F. H. - CUNHA, Mario A. A. Fungal Exocellular (1-6)-D-glucan: Carboxymethylation, Characterization, and Antioxidant Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol.

20, no. 9, pp., Registrované v: WOS

11. [1.1] WANG, Zhi-Jun - XIE, Jian-Hua - SHEN, Ming-Yue - TANG, Wei - WANG, Hui - NIE, Shao-Ping - XIE, Ming-Yong. Carboxymethylation of polysaccharide from *Cyclocarya paliurus* and their characterization and antioxidant properties evaluation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 988-994., Registrované v: WOS

12. [1.2] WANG, Jing - CHENG, Chan - SHENG, Wenjun - LI, Min - ZHU, Xia - HAN, Shunyu. Study on antioxidant activity in vitro of β -Glucan and its carboxymethylated derivatives from wine yeast. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 6, pp. 595-602., Registrované v: SCOPUS

13. [3.1] Cunha, MAA (Cunha, Mário Antônio Alves); Santos, VAQ (Santos, Vidiany Aparecida Queiroz); Calegari, GC (Calegari, Gabrielle Cristina); Sánchez Luna, WN (Sánchez Luna, William Norbey); Marin, SLA (Marin, Sandra L. A.); Dekker, RFH (Dekker, Robert F. H.); Barbosa-Dekker, AM (Barbosa-Dekker, Aneli M.). Structure and Biological Properties of Lasiodiplodan: An Uncommon Fungal Exopolysaccharide of the (1 \rightarrow 6)-beta-D-Glucan Type. In: EXTRACELLULAR SUGAR-BASED BIOPOLYMERS MATRICES Book Series Title: Biologically-Inspired Systems. ISBN:978-3-030-12919-4, Volume: 12 Pages: 409-432

ADCA832 MACHOVÁ, Eva - KOGAN, Grigorij - ALFOLDI, Juraj - ŠOLTÉS, Ladislav - ŠANDULA, Jozef. Enzymatic and ultrasonic depolymerization of carboxymethylated beta-1,3-D-glucans derived from *Saccharomyces cerevisiae*. In *Journal of Applied Polymer Science*, 1995, vol. 55, no. 5, p. 699-704. (1995 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1995.070550506>

Ohlasy:

1. [1.1] MADRIGAL-BUJAIAR, E. - MORALES-GONZALEZ, J.A. - SANCHEZ-GUTIERREZ, M. - IZQUIERDO-VEGA, J.A. - REYES-ARELLANO, A. - ALVAREZ-GONZALEZ, I. - PEREZ-PASTEN, R. - MADRIGAL-SANTILLAN, E. Prevention of Aflatoxin B-1-Induced DNA Breaks by beta-D-Glucan. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 6, p. 2145-2158., Registrované v: WOS

2. [1.1] VARELAS, V. - LIOUNI, M. - CALOKERINOS, A.C. - NERANTZIS, E.T. An evaluation study of different methods for the production of -D-glucan from yeast biomass. In DRUG TESTING AND ANALYSIS. ISSN 1942-7603, 2016, vol. 8, no. 1, p. 46-56., Registrované v: WOS

ADCA833 MACHOVÁ, Eva - FIAČANOVÁ, Lucia - ČÍŽOVÁ, Alžbeta - KORCOVÁ, Jana, Vráblová. Mannoproteins from yeast and hyphal form of *C. albicans* considerably differ in mannan and protein content. In *Carbohydrate Research*, 2015, vol. 408, p. 12-17. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2015.03.001>

Ohlasy:

1. [1.1] ABIDIN, Munira Zainal - JUNQUEIRA-GONCALVES, Maria Paula - KHUTORYANSKIY, Vitaliy V. - NIRANJAN, Keshavan. Intensifying chitin hydrolysis by adjunct treatments an overview. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575,

- 2017, vol. 92, no. 11, pp. 2787-2798., Registrované v: WOS
2. [1.1] GRANGER, Bruce L. Accessibility and contribution to glucan masking of natural and genetically tagged versions of yeast wall protein 1 of *Candida albicans*. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
 3. [1.1] ISHCHUK, Olena P. - STERNER, Olov - ELLERVIK, Ulf - MANNER, Sophie. Simple Carbohydrate Derivatives Diminish the Formation of Biofilm of the Pathogenic Yeast *Candida albicans*. In ANTIBIOTICS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9010010>., Registrované v: WOS
 4. [1.1] KOROLENKO, Tatiana A. - BGATOVA, Nataliya P. - VETVICKA, Vaclav. Glucan and Mannan-Two Peas in a Pod. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 13, pp., Registrované v: WOS
 5. [1.1] LIU, Xin - XIE, Jianhua - JIA, Shuo - HUANG, Lixin - WANG, Zhijun - LI, Chang - XIE, Mingyong. Immunomodulatory effects of an acetylated *Cyclocarya paliurus* polysaccharide on murine macrophages RAW264.7. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 576-581., Registrované v: WOS
 6. [1.1] MA, Liang - CISSE, Ousmane H. - KOVACS, Joseph A. A Molecular Window into the Biology and Epidemiology of *Pneumocystis* spp. In CLINICAL MICROBIOLOGY REVIEWS. ISSN 0893-8512, 2018, vol. 31, no. 3, pp., Registrované v: WOS
 7. [1.1] MLYNARIKOVA, Katarina - SAMEK, Ota - BERNATOVA, Silvie - RUZICKA, Filip - JEZEK, Jan - HARONIKOVA, Andrea - SILER, Martin - ZEMANEK, Pavel - HOLA, Veronika. Influence of Culture Media on Microbial Fingerprints Using Raman Spectroscopy. In SENSORS. ISSN 1424-8220, 2015, vol. 15, no. 11, pp. 29635-29647., Registrované v: WOS
 8. [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In JOURNAL OF ORAL SCIENCE. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
 9. [1.1] WINKLER, Alexander J. - ALFONSO DOMINGUEZ-NUNEZ, Jose - ARANAZ, Inmaculada - POZA-CARRION, Cesar - RAMONELL, Katrina - SOMERVILLE, Shauna - BERROCAL-LOBO, Marta. Short-Chain Chitin Oligomers: Promoters of Plant Growth. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 2, pp., Registrované v: WOS
 10. [1.1] YOO, Yeon-Jee - KIM, A. Reum - PERINPANAYAGAM, Hiran - HAN, Seung Hyun - KUM, Kee-Yeon. *Candida albicans* Virulence Factors and Pathogenicity for Endodontic Infections. In MICROORGANISMS, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8091300>., Registrované v: WOS

ADCA834 MACHOVÁ, Eva - BYSTRICKÝ, Peter - MALOVÍKOVÁ, Anna - BYSTRICKÝ, Slavomír. Preparation and characterization of carboxymethyl derivatives of yeast mannans in aqueous solutions. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 110, p. 219-223. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, Q1 - SJR, Current

Contents - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2014.03.079>

Ohlasy:

1. [1.1] GONZALES, Karen N. - TRONCOSO, Omar P. - TORRES, Fernando G. - LOPEZ, Daniel. Molecular alpha-relaxation process of exopolysaccharides extracted from *Nostoc commune* cyanobacteria. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 1516-1525. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.268>., Registrované v: WOS
2. [1.1] CHAI, Yangyang - ZHAO, Min. Purification, characterization and anti-proliferation activities of polysaccharides extracted from *Viscum coloratum* (Kom.) Nakai. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 149, no., pp. 121-130., Registrované v: WOS
3. [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS
4. [1.1] LI, Jing - SHANG, Wenting - SI, Xu - BU, Dandan - STRAPPE, Pdraig - ZHOU, Zhongkai - BLANCHARD, Chris. Carboxymethylation of corn bran polysaccharide and its bioactive property. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2017, vol. 52, no. 5, pp. 1176-1184., Registrované v: WOS
5. [1.1] NIU, Jin-lei - LI, Dong - WANG, Li-jun - ADHIKARI, Benu - CHEN, Xiao Dong. Synthesis of Carboxymethyl Flaxseed Gum and Study of Nonlinear Rheological Properties of Its Solutions. In INTERNATIONAL JOURNAL OF FOOD ENGINEERING. ISSN 2194-5764, 2018, vol. 14, no. 1, pp., Registrované v: WOS
6. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
7. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257., Registrované v: WOS
8. [1.1] THEIS, Thais Vanessa - QUEIROZ SANTOS, Vidiany Aparecida - APPELT, Patricia - BARBOSA-DEKKER, Aneli M. - VETVICKA, Vaclav - DEKKER, Robert F. H. - CUNHA, Mario A. A. Fungal Exocellular (1-6)-d-glucan: Carboxymethylation, Characterization, and Antioxidant Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 9, pp., Registrované v: WOS
9. [1.1] WANG, Zhi-Jun - XIE, Jian-Hua - SHEN, Ming-Yue - TANG, Wei - WANG, Hui - NIE, Shao-Ping - XIE, Ming-Yong. Carboxymethylation of polysaccharide from *Cyclocarya paliurus* and their characterization and antioxidant properties evaluation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 988-994., Registrované v: WOS
10. [1.1] ZHANG, Hao - WANG, Jian-Kun - LIU, Wen-Jing - LI, Feng-Yan. Microwave-assisted Synthesis, Characterization, and Textile Sizing Property of Carboxymethyl Corn Starch. In FIBERS AND POLYMERS. ISSN 1229-9197, 2015, vol. 16, no. 11, pp. 2308-2317., Registrované v: WOS

- ADCA835 MACHOVÁ, Eva - KOGAN, Grigorij - ŠANDULA, Jozef - CHORVATOVIČOVÁ, Darina. Ultrasonic depolymerization of the chitin-glucan complex from *Aspergillus niger* and antimutagenic activity of its product. In *Ultrasonics Sonochemistry*, 1999, vol. 6, p. 111-114. (1998: 1.000 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(98\)00024-8](https://doi.org/10.1016/S1350-4177(98)00024-8)
- Ohlasy:
1. [1.1] ASMAN, Gulsen - KAYA, Murvet - BAYRAMGIL, Nursel Pekel. Effect of sonic treatment on the permeation performance of cellulose acetate membranes modified by n-SiO₂. In *TURKISH JOURNAL OF CHEMISTRY*. ISSN 1300-0527, 2015, vol. 39, no. 2, pp. 297-305., Registrované v: WOS
 2. [1.1] BARANGE, Nilesh - KIM, Young Dong - NAM, Minwoo - PARK, Byoungnam - KIM, Byunghoon - HAN, Il Ki - KO, Doo-Hyun. Sonication Effect on All-Polymer Solar Cell Performance. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*. ISSN 1533-4880, 2016, vol. 16, no. 10, pp. 10308-10312., Registrované v: WOS
 3. [1.1] CIZOVA, Alzbeta - BYSTRICKY, Peter - BYSTRICKY, Slavomir. Ultrasonic and free-radical degradation of mannan from *Candida albicans*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 75, no., pp. 32-36., Registrované v: WOS
 4. [1.1] DU, Bin - ZENG, Huansong - YANG, Yuedong - BIAN, Zhaoxiang - XU, Baojun. Anti-inflammatory activity of polysaccharide from *Schizophyllum commune* as affected by ultrasonication. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 91, no., pp. 100-105., Registrované v: WOS
 5. [1.1] HONG, Yawen - YING, Tiejin. Characterization of a chitin-glucan complex from the fruiting body of *Chock* for *Termitomyces albuminosus* (Berk.) Heim. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 134, no., pp. 131-138., Registrované v: WOS
 6. [1.1] LEE, Sang Hoon - JANG, Gwi Yeong - KIM, Min Young - HWANG, In Guk - KIM, Hyun Young - WOO, Koan Sik - LEE, Mi Ja - KIM, Tae Jip - LEE, Junsoo - JEONG, Heon Sang. Physicochemical and in vitro binding properties of barley beta-glucan treated with hydrogen peroxide. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 192, no., pp. 729-735., Registrované v: WOS
 7. [1.2] LEE, S. H. - JANG, G. Y. - HWANG, I. G. - KIM, H. Y. - WOO, K. S. - KIM, K. J. - LEE, M. J. - KIM, T. J. - LEE, J. - JEONG, H. S. Physicochemical properties of β -glucan from acid hydrolyzed barley. In *PREVENTIVE NUTRITION AND FOOD SCIENCE*. ISSN 22871098, 2015, vol 20, no. 2, p. 110-118., Registrované v: SCOPUS

ADCA836 MAJEROVÁ, Petra - BARÁTH, Peter - POLČÍK MICHALICOVÁ, Alena - KATINA, Stanislav - NOVÁK, Michal - KOVÁČ, Andrej. Changes of cerebrospinal fluid peptides due to tauopathy. In *Journal of Alzheimer's Disease*, 2017, vol. 58, no. 2, p. 507-512. (2016: 3.731 - IF, Q2 - JCR, 1.584 - SJR, Q1 - SJR,

Current Contents - CCC). (2017 - Current Contents). ISSN 1387-2877. Dostupné na: <https://doi.org/10.3233/JAD-170110>

Ohlasy:

1. [1.1] FLEITES, L.A. - JOHNSON, R. - KRUSE, A.R. - NACHMAN, R.J. - HALL, D.G. - MACCOSS, M. - HECK, M.L. Peptidomics Approaches for the Identification of Bioactive Molecules from *Diaphorina citri*. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, APR 3 2020, vol. 19, no. 4, p. 1392-1408., Registrované v: WOS
2. [1.1] CHAPLOT, K. - JARVELA, T.S. - LINDBERG, I. Secreted Chaperones in Neurodegeneration. In FRONTIERS IN AGING NEUROSCIENCE. ISSN 1663-4365, AUG 27 2020, vol. 12., Registrované v: WOS
3. [1.1] WANG YONG - WU LI - XU JIN-LING - LI SHUI-MING - LIU NING - JIANG LIANG. Effect of Reproducibility of Nano-liquid Chromatography-Mass Spectrometry on Analysis of Urinary Peptidomics. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2017, vol. 45, no. 10, pp. 1475-1481., Registrované v: WOS

ADCA837 MAJKA, Jaroslaw - ROSÉN, Ake - JANÁK, Marian - FROITZHEIM, Nikolaus - KLONOWSKA, Iwona - MANECKI, Maciej - SASINKOVÁ, Vlasta - YOSHIDA, Kenta. Microdiamond discovered in the Seve Nappe (Scandinavian Caledonides) and its exhumation by the "vacuum-cleaner" mechanism. In *Geology*, 2014, vol. 42, p. 1107-1110. (2013: 4.638 - IF, Q1 - JCR, 3.080 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0091-7613. Dostupné na: <https://doi.org/10.1130/G36108.1>

Ohlasy:

1. [1.1] BENDER, Hagen - GLODNY, Johannes - RING, Uwe. Absolute timing of Caledonian orogenic wedge assembly, Central Sweden, constrained by Rb-Sr multi-mineral isochron data. In LITHOS. ISSN 0024-4937, 2019, vol. 344, no., pp. 339-359., Registrované v: WOS
2. [1.1] BENDER, H. - RING, U. - ALMQVIST, B. S. G. - GRASEMANN, B. - STEPHENS, M. B. Metamorphic Zonation by Out-of-Sequence Thrusting at Back-Stepping Subduction Zones: Sequential Accretion of the Caledonian Internides, Central Sweden. In TECTONICS. ISSN 0278-7407, 2018, vol. 37, no. 10, pp. 3545-3576., Registrované v: WOS
3. [1.1] BRUECKNER, Hannes K. - MEDARIS, L. Gordon - GRIFFIN, William L. - JOHNSTON, Scott M. - HARTZ, Ebbe H. - PEARSON, Norman - CAI, Yue - ANDRESEN, Arild. Mechanical Mixing of Garnet Peridotite and Pyroxenite in the Orogenic Peridotite Lenses of the Tvaerdal Complex, Liverpool Land, Greenland Caledonides. In JOURNAL OF PETROLOGY. ISSN 0022-3530, 2018, vol. 59, no. 11, pp. 2191-2219., Registrované v: WOS
4. [1.1] FABER, Carly - STUNITZ, Holger - GASSER, Deta - JERABEK, Petr - KRAUS, Katrin - CORFU, Fernando - RAVNA, Erling K. - KONOPASEK, Jiri. Anticlockwise metamorphic pressure-temperature paths and nappe stacking in the Reisa Nappe Complex in the Scandinavian Caledonides, northern Norway: evidence for weakening of lower continental crust before and during continental collision. In SOLID EARTH. ISSN 1869-9510, 2019, vol. 10, no. 1, pp. 117-148., Registrované v: WOS
5. [1.1] FERRERO, Silvio - ANGEL, Ross J. Micropetrology: Are Inclusions Grains of Truth? In JOURNAL OF PETROLOGY. ISSN 0022-3530,

- 2018, vol. 59, no. 9, pp. 1671-1700., Registrované v: WOS
6. [1.1] GEE, David G. Swedish Caledonides: key components of an early-middle Paleozoic Himalaya-type collisional orogen. In SWEDEN: LITHOTECTONIC FRAMEWORK, TECTONIC EVOLUTION AND MINERAL RESOURCES. ISSN 0435-4052, 2020, vol. 50, no., pp. 577-599. Dostupné na: <https://doi.org/10.1144/M50-2019-20>., Registrované v: WOS
7. [1.1] GEE, David G. - STEPHENS, Michael B. Regional context and tectonostratigraphic framework of the early-middle Paleozoic Caledonide orogen, northwestern Sweden. In SWEDEN: LITHOTECTONIC FRAMEWORK, TECTONIC EVOLUTION AND MINERAL RESOURCES. ISSN 0435-4052, 2020, vol. 50, no., pp. 481-494. Dostupné na: <https://doi.org/10.1144/M50-2017-21>., Registrované v: WOS
8. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. Replacement reactions and deformation by dissolution and precipitation processes in amphibolites. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 9, pp. 1263-1286., Registrované v: WOS
9. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. - DARLING, James - ANDERSON, Mark W. Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides. In TECTONICS. ISSN 0278-7407, 2020, vol. 39, no. 9, pp. Dostupné na: <https://doi.org/10.1029/2020TC006267>., Registrované v: WOS
10. [1.1] GORDON, Stacia M. - WHITNEY, Donna L. - TEYSSIER, Christian - FOSSEN, Haakon - KYLANDER-CLARK, Andrew. Geochronology and geochemistry of zircon from the northern Western Gneiss Region: Insights into the Caledonian tectonic history of western Norway. In LITHOS. ISSN 0024-4937, 2016, vol. 246, no., pp. 134-148., Registrované v: WOS
11. [1.1] GRIMMER, Jens C. - GLODNY, Johannes - DRUEPPEL, Kirsten - GREILING, Reinhard O. - KONITNY, Agnes. Early- to mid-Silurian extrusion wedge tectonics in the central Scandinavian Caledonides. In GEOLOGY. ISSN 0091-7613, 2015, vol. 43, no. 4, pp. 347-350., Registrované v: WOS
12. [1.1] HEDIN, Peter - ALMQVIST, Bjarne - BERTHET, Theo - JUHLIN, Christopher - BUSKE, Stefan - SIMON, Helge - GIESE, Ruediger - KRAUSS, Felix - ROSBERG, Jan-Erik - ALM, Per-Gunnar. 3D reflection seismic imaging at the 2.51 km deep COSC-1 scientific borehole, central Scandinavian Caledonides. In TECTONOPHYSICS. ISSN 0040-1951, 2016, vol. 689, no., pp. 40-55., Registrované v: WOS
13. [1.1] JAKOB, Johannes - ANDERSEN, Torgeir B. - KJOLL, Hans Jorgen. A review and reinterpretation of the architecture of the South and South-Central Scandinavian Caledonides-A magma-poor to magma-rich transition and the significance of the reactivation of rift inherited structures. In EARTH-SCIENCE REVIEWS. ISSN 0012-8252, 2019, vol. 192, no., pp. 513-528., Registrované v: WOS
14. [1.1] KAESTNER, Felix - PIERDOMINICI, Simona - ELGER, Judith - ZAPPONE, Alba - KUECK, Jochem - BERNDT, Christian. Correlation of core and downhole seismic velocities in high-pressure metamorphic rocks: a case study for the COSC-1 borehole, Sweden. In SOLID EARTH. ISSN 1869-9510, 2020, vol. 11, no. 2, pp. 607-626. Dostupné na: <https://doi.org/10.5194/se-11-607-2020>., Registrované v: WOS
15. [1.1] KORSÁKOV, Andrey - REZVUKHINA, Olga - JASZCZAK,

- John A. - REZVUKHIN, Dmitriy - MIKHAILENKO, Denis S. Natural Graphite Cuboids. In MINERALS, 2019, vol. 9, no. 2, pp., Registrované v: WOS
16. [1.1] LIU, Penglei - MASSONNE, Hans-Joachim. An anticlockwise P-T-t path at high-pressure, high-temperature conditions for a migmatitic gneiss from the island of Fjortoft, Western Gneiss Region, Norway, indicates two burial events during the Caledonian orogeny. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2019, vol. 37, no. 4, pp. 567-588., Registrované v: WOS
17. [1.1] LI, Botao - MASSONNE, Hans-Joachim - ZHANG, Junfeng. Evolution of a gneiss in the Seve nappe complex of central Sweden Hints at an early Caledonian, medium-pressure metamorphism. In LITHOS. ISSN 0024-4937, 2020, vol. 376, no., pp. Dostupné na: <https://doi.org/10.1016/j.lithos.2020.105746>., Registrované v: WOS
18. [1.1] MALDONADO, Roberto - WEBER, Bodo - ORTEGA-GUTIERREZ, Fernando - SOLARI, Luigi A. High-pressure metamorphic evolution of eclogite and associated metapelite from the Chuacús complex (Guatemala Suture Zone): Constraints from phase equilibria modelling coupled with Lu-Hf and U-Pb geochronology. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 1, pp. 95-124., Registrované v: WOS
19. [1.1] MA, Chong - VANDERVOORT, Dane S. - STELTENPOHL, Mark G. - SCHWARTZ, Joshua J. FORMATION AND OROGEN-PARALLEL TRANSPORT OF THE DADEVILLE COMPLEX, ALABAMA, USA: IMPLICATIONS FOR THE TACONIAN OROGENY IN THE SOUTHERN APPALACHIANS. In AMERICAN JOURNAL OF SCIENCE. ISSN 0002-9599, 2019, vol. 319, no. 7, pp. 582-630., Registrované v: WOS
20. [1.1] MERZ, Lena - ALMQVIST, Bjarne S. G. - GRIMMER, Jens C. - KONTNY, Agnes. Magnetic fabric development in the Lower Seve thrust from the COSC-1 drilling, Swedish Caledonides. In TECTONOPHYSICS. ISSN 0040-1951, 2019, vol. 751, no., pp. 212-228., Registrované v: WOS
21. [1.1] NASDALA, Lutz - STEGER, Simon - REISSNER, Claudia. Raman study of diamond-based abrasives, and possible artefacts in detecting UHP microdiamond. In LITHOS. ISSN 0024-4937, 2016, vol. 265, no., pp. 317-327., Registrované v: WOS
22. [1.1] SKUZOVATOV, Sergei - SHATSKY, Vladislav - WANG, Kuo-Lung. Continental subduction during arc-microcontinent collision in the southern Siberian craton: Constraints on protoliths and metamorphic evolution of the North Muya complex eclogites (Eastern Siberia). In LITHOS. ISSN 0024-4937, 2019, vol. 342, no., pp. 76-96., Registrované v: WOS
23. [1.1] SMIT, Karen V. - D'HAENENS-JOHANSSON, Ulrika F. S. - HOWELL, Daniel - LOUDIN, Lorne C. - WANG, Wuyi. Deformation-related spectroscopic features in natural Type Ib-IaA diamonds from Zimmi (West African craton). In MINERALOGY AND PETROLOGY. ISSN 0930-0708, 2018, vol. 112, no., pp. 243-257., Registrované v: WOS
24. [1.1] SMIT, Karen V. - SHIREY, Steven B. - WANG, Wuyi. Type Ib diamond formation and preservation in the West African lithospheric mantle: Re-Os age constraints from sulphide inclusions in Zimmi diamonds. In PRECAMBRIAN RESEARCH. ISSN 0301-9268, 2016, vol. 286, no., pp. 152-166., Registrované v: WOS
25. [1.1] THIERY, V. - ROLIN, P. - DUBOIS, M. - CAUMON, M.C.

Discovery of metamorphic microdiamonds from the parautochthonous units of the Variscan French Massif Central. In GONDWANA RESEARCH. ISSN 1342-937X, 2015, vol. 28, no. 3, pp. 954-960., Registrované v: WOS

26. [1.1] THIERY, V. - ROLIN, P. - DUBOIS, M. - CAUMON, M.C. - GONCALVES, P. Reply to J. Berger's comment on the article "Discovery of metamorphic microdiamonds from the parautochthonous units of the Variscan French Massif" by Thiery, V. et al., (2015), Gondwana Research 28, 954-960. In GONDWANA RESEARCH. ISSN 1342-937X, 2016, vol. 38, no., pp. 372-374., Registrované v: WOS

27. [1.1] YAN, Ping - JUANATEY, Maria A. Garcia - KALSCHEUER, Thomas - JUHLIN, Christopher - HEDIN, Peter - SAVVAIDIS, Alexandros - LORENZ, Henning - KUECK, Jochem. A magnetotelluric investigation of the Scandinavian Caledonides in western Jamtland, Sweden, using the COSC borehole logs as prior information. In GEOPHYSICAL JOURNAL INTERNATIONAL. ISSN 0956-540X, 2017, vol. 208, no. 3, pp. 1465-1489., Registrované v: WOS

ADCA838 MAJTÁN, Juraj - BOHOVÁ, Jana - HORNIAČKOVÁ, Miroslava - KLAUDINY, Jaroslav - MAJTÁN, Viktor. Anti-biofilm Effects of Honey Against Wound Pathogens *Proteus mirabilis* and *Enterobacter cloacae*. In *Phytotherapy Research*, 2014, vol. 28, no. 1, p. 69-75. (2013: 2.397 - IF, Q2 - JCR, 0.824 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0951-418X. Dostupné na: <https://doi.org/10.1002/ptr.4957>

Ohlasy:

1. [1.1] ALMASAUDI, Saad B. - AL-NAHARI, Alaa A. M. - ABD EL-GHANY, El Sayed M. - BARBOUR, Elie - AL MUHAYAWI, Saad M. - AL-JAOUNI, Soad - AZHAR, Esam - QARI, Mohamad - QARI, Yousef A. - HARAKEH, Steve. Antimicrobial effect of different types of honey on *Staphylococcus aureus*. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, 2017, vol. 24, no. 6, pp. 1255-1261., Registrované v: WOS
2. [1.1] AYUB, Rabia - UMER, Muhammad - MAAN, Abid Aslam - RASOOL, Bilal - KHAN, Muhammad Kashif Iqbal - YOUNIS, Tahira - ABBAS, Shabbir - SAJJAD, Muhammad - KALEEM, Imdad - IMRAN, Muhammad - ULLAH, Azmat - AFZAL, Muhammad Sohail - SHAH, Zaheer Hussain - AHMED, Sheraz - ASLAM, Farhan - CHAUDHARY, Neelam - AFZAL, Muhammad Inam. Antibiotics, Acid and Heat Tolerance of Honey adapted *Escherichia coli*, *Salmonella Typhi* and *Klebsiella pneumoniae*. In FOODS, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/foods9030311>., Registrované v: WOS
3. [1.1] BULMAN, Sophie E. L. - TRONCI, Giuseppe - GOSWAMI, Parikshit - CARR, Chris - RUSSELL, Stephen J. Antibacterial Properties of Nonwoven Wound Dressings Coated with Manuka Honey or Methylglyoxal. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
4. [1.1] CARTER, Dee A. - BLAIR, Shona E. - COKCETIN, Nural N. - BOUZO, Daniel - BROOKS, Peter - SCHOTHAUER, Ralf - HARRY, Elizabeth J. Therapeutic Manuka Honey: No Longer So Alternative. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7., Registrované v: WOS
5. [1.1] COOPER, R. Honey for wound care in the 21st century. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2016, vol. 25, no. 9, pp. 544-552., Registrované v: WOS

6. [1.1] EMINEKE, Somadina - COOPER, Alan J. - FOUCH, Sarah - BIRCH, Brian R. - LWALEED, Bashir A. Diluted honey inhibits biofilm formation: potential application in urinary catheter management? In JOURNAL OF CLINICAL PATHOLOGY. ISSN 0021-9746, 2017, vol. 70, no. 2, pp. 140-144., Registrované v: WOS
7. [1.1] GARCIA-TENESACA, Marilyn - NAVARRETE, Eillen S. - ITURRALDE, Gabriel A. - VILLACRES GRANDA, Irina M. - TEJERA, Eduardo - BELTRAN-AYALA, Pablo - GIAMPIERI, Francesca - BATTINO, Maurizio - ALVAREZ-SUAREZ, Jose M. Influence of Botanical Origin and Chemical Composition on the Protective Effect against Oxidative Damage and the Capacity to Reduce In Vitro Bacterial Biofilms of Monofloral Honeys from the Andean Region of Ecuador. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 1, pp., Registrované v: WOS
8. [1.1] HALL, Thomas J. - VILLAPUN, Victor M. - ADDISON, Owen - WEBBER, Mark A. - LOWTHER, Morgan - LOUTH, Sophie E. T. - MOUNTCASTLE, Sophie E. - BRUNET, Mathieu Y. - COX, Sophie C. A call for action to the biomaterial community to tackle antimicrobial resistance. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 18, pp. 4951-4974. Dostupné na: <https://doi.org/10.1039/d0bm01160f>., Registrované v: WOS
9. [1.1] HALSTEAD, F. D. - WEBBER, M. A. - RAUF, M. - BURT, R. - DRYDEN, M. - OPPENHEIM, A. In vitro activity of an engineered honey, medical-grade honeys, and antimicrobial wound dressings against biofilm-producing clinical bacterial isolates. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2016, vol. 25, no. 2, p. 93-102., Registrované v: WOS
10. [1.1] HALSTEAD, F. D. - WEBBER, M. A. - OPPENHEIM, B. A. Use of an engineered honey to eradicate preformed biofilms of important wound pathogens: an in vitro study. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2017, vol. 26, no. 8, pp. 442-450., Registrované v: WOS
11. [1.1] HANNAN, Abdul - BAJWA, Asma Ejaz - RIAZ, Saira - ARSHAD, Usman - SALEEM, Sidrah - BAJWA, Usama Ijaz. In vitro Salmonella typhi biofilm formation on gallstones and its disruption by Manuka honey. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2018, vol. 31, no. 1, pp. 129-135., Registrované v: WOS
12. [1.1] HAYES, G. - WRIGHT, N. - GARDNER, S. L. - TELZROW, C. L. - WOMMACK, A. J. - VIGUEIRA, P. A. Manuka honey and methylglyoxal increase the sensitivity of Staphylococcus aureus to linezolid. In LETTERS IN APPLIED MICROBIOLOGY. ISSN 0266-8254, 2018, vol. 66, no. 6, pp. 491-495., Registrované v: WOS
13. [1.1] HUSSAIN, Muhammad Barkaat - HANNAN, Abdul - AKHTAR, Naeem - FAYYAZ, Ghulam Qadir - IMRAN, Muhammad - SALEEM, Sidrah - QURESHI, Imtiaz Ahmed. Evaluation of the antibacterial activity of selected Pakistani honeys against multi-drug resistant Salmonella typhi. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2015, vol. 15: 32 DOI: 10.1186/s12906-015-0549-z, Registrované v: WOS
14. [1.1] HUSSAIN, Muhammad Barkaat. Role of Honey in Topical and Systemic Bacterial Infections. In JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE. ISSN 1075-5535, 2018, vol. 24, no. 1, pp.

15-24., Registrované v: WOS

15. [1.1] KAMARUZZAMAN, Nor Fadhilah - TAN, Li Peng - YAZID, Khairun Anisa Mat - SAEED, Shamsaldeen Ibrahim - HAMDAN, Ruhil Hayati - CHOONG, Siew Shean - WONG, Weng Kin - CHIVU, Alexandru - GIBSON, Amanda Jane. Targeting the Bacterial Protective Armour; Challenges and Novel Strategies in the Treatment of Microbial Biofilm. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 9, pp., Registrované v: WOS

16. [1.1] KUS, Piotr M. - JERKOVIC, Igor - MARIJANOVIC, Zvonimir - TUBEROSO, Carlo I. G. Screening of Polish Fir Honeydew Honey Using GC/MS, HPLC-DAD, and Physical-Chemical Parameters: Benzene Derivatives and Terpenes as Chemical Markers. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2017, vol. 14, no. 9, pp., Registrované v: WOS

17. [1.1] KWIECINSKA-PIROG, Joanna - PRZEKWAŚ, Jana - MAJKUT, Michał - SKOWRON, Krzysztof - GOSPODAREK-KOMKOWSKA, Eugenia. Biofilm Formation Reducing Properties of Manuka Honey and Propolis in *Proteus mirabilis* Rods Isolated from Chronic Wounds. In MICROORGANISMS, 2020, vol. 8, no. 11, pp. Dostupné na:

<https://doi.org/10.3390/microorganisms8111823>., Registrované v: WOS

18. [1.1] LARSEN, Peter E. - COLLART, Frank R. - DAI, Yang. Predicting Ecological Roles in the Rhizosphere Using Metabolome and Transportome Modeling. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 9, e0132837. DOI: 10.1371/journal.pone.0132837, Registrované v: WOS

19. [1.1] LIU, Fang - WANG, Fengting - DU, Lihui - ZHAO, Tong - DOYLE, Michael P. - WANG, Daoying - ZHANG, Xinxiao - SUN, Zhilan - XU, Weimin. Antibacterial and antibiofilm activity of phenyllactic acid against *Enterobacter cloacae*. In FOOD CONTROL. ISSN 0956-7135, 2018, vol. 84, no., pp. 442-448., Registrované v: WOS

20. [1.1] LU, Jing - COKCETIN, Nural N. - BURKE, Catherine M. - TURNBULL, Lynne - LIU, Michael - CARTER, Dee A. - WHITCHURCH, Cynthia B. - HARRY, Elizabeth J. Honey can inhibit and eliminate biofilms produced by *Pseudomonas aeruginosa*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

21. [1.1] MAHMOODI-KHALEDI, Elaheh - KASHEF, Nasim - HABIBI-REZAEI, Mehran - MOOSAVI-MOVAHEDI, Ali Akbar. In vitro characterization of antibacterial potential of Iranian honey samples against wound bacteria. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 241, no. 3, pp. 329., Registrované v: WOS

22. [1.1] MCLOONE, Pauline - WARNOCK, Mary - FYFE, Lorna. Honey: A realistic antimicrobial for disorders of the skin. In JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. ISSN 1684-1182, 2016, vol. 49, no. 2, p. 161-167., Registrované v: WOS

23. [1.1] MOKHTAR, Jawahir A. - MCBAIN, Andrew J. - LEDDER, Ruth G. - BINSUWAIDAN, Reem - RIMMER, Victoria - HUMPHREYS, Gavin J. Exposure to a Manuka Honey Wound Gel Is Associated With Changes in Bacterial Virulence and Antimicrobial Susceptibility. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.02036>., Registrované v: WOS

24. [1.1] MORRONI, Gianluca - ALVAREZ-SUAREZ, Jose M. - BRENCIANI, Andrea - SIMONI, Serena - FIORITI, Simona - PUGNALONI, Armanda - GIAMPIERI, Francesca - MAZZONI, Luca - GASPARRINI,

- Massimiliano - MARINI, Emanuela - MINGOIA, Marina - BATTINO, Maurizio - GIOVANETTI, Eleonora. Comparison of the Antimicrobial Activities of Four Honeys From Three Countries (New Zealand, Cuba, and Kenya). In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
25. [1.1] NIAZ, Kamal - MAQBOOL, Faheem - BAHADAR, Haji - ABDOLLAHI, Mohammad. Health Benefits of Manuka Honey as an Essential Constituent for Tissue Regeneration. In CURRENT DRUG METABOLISM. ISSN 1389-2002, 2017, vol. 18, no. 10, pp. 881-892., Registrované v: WOS
26. [1.1] NOLAN, Victoria C. - HARRISON, James - COX, Jonathan A. G. Dissecting the Antimicrobial Composition of Honey. In ANTIBIOTICS-BASEL, 2019, vol. 8, no. 4, pp., Registrované v: WOS
27. [1.1] OLIVEIRA, Ana - RIBEIRO, Henrique G. - SILVA, Ana C. - SILVA, Maria D. - SOUSA, Jessica C. - RODRIGUES, Celia F. - MELO, Luis D. R. - HENRIQUES, Ana F. - SILLANKORVA, Sanna. Synergistic Antimicrobial Interaction between Honey and Phage against Escherichia coli Biofilms. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
28. [1.1] OOI, Mian Li - JOTHIN, Arvind - BENNETT, Catherine - OOI, Eng H. - VREUGDE, Sarah - PSALTIS, Alkis J. - WORMALD, Peter-John. Manuka honey sinus irrigations in recalcitrant chronic rhinosinusitis: phase 1 randomized, single-blinded, placebo-controlled trial. In INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY. ISSN 2042-6976, 2019, vol., no., pp., Registrované v: WOS
29. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In JOURNAL OF TISSUE VIABILITY. ISSN 0965-206X, 2016, vol. 25, no. 2, pp. 98-118., Registrované v: WOS
30. [1.1] ROBERTS, Aled Edward Lloyd - BROWN, Helen Louise - JENKINS, Rowena Eleri. On the antibacterial effects of manuka honey: mechanistic insights. In RESEARCH AND REPORTS IN BIOLOGY, 2015, vol. 6, no., p. 215-224., Registrované v: WOS
31. [1.1] SCAGNELLI, Alyssa M. THERAPEUTIC REVIEW: MANUKA HONEY. In JOURNAL OF EXOTIC PET MEDICINE. ISSN 1557-5063, 2016, vol. 25, no. 2, p. 168-171., Registrované v: WOS
32. [1.1] SHARAH, Javad Yasbolaghi - AZIMI, Taher - SHARIATI, Aref - SAFARI, Hossein - TEHRANI, Melika Khanzadeh - HASHEMI, Ali. Advanced strategies for combating bacterial biofilms. In JOURNAL OF CELLULAR PHYSIOLOGY. ISSN 0021-9541, 2019, vol. 234, no. 9, pp. 14689-14708., Registrované v: WOS
33. [1.1] SCHUH, Christina M. A. P. - AGUAYO, Sebastian - ZAVALA, Gabriela - KHOURY, Maroun. Exosome-like vesicles in Apis mellifera bee pollen, honey and royal jelly contribute to their antibacterial and pro-regenerative activity. In JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0022-0949, 2019, vol. 222, no. 20, pp., Registrované v: WOS
34. [1.1] SINDI, Azhar - CHAWN, Moses Van Bawi - HERNANDEZ, Magda Escorcía - GREEN, Kathryn - ISLAM, Md Khairul - LOCHER, Cornelia - HAMMER, Katherine. Anti-biofilm effects and characterisation of the hydrogen peroxide activity of a range of Western Australian honeys compared to Manuka and multifloral honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322,

2019, vol. 9, no., pp., Registrované v: WOS

35. [1.1] SULTANA, Sujala T. - CALL, Douglas R. - BEYENAL, Haluk. Maltodextrin enhances biofilm elimination by electrochemical scaffold. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6., Registrované v: WOS

36. [1.1] TISCHER SERAGLIO, Siluana Katia - SILVA, Bibiana - BERGAMO, Greici - BRUGNEROTTO, Patricia - GONZAGA, Luciano Valdemiro - FETT, Roseane - OLIVEIRA COSTA, Ana Carolina. An overview of physicochemical characteristics and health-promoting properties of honeydew honey. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 119, no., pp. 44-66., Registrované v: WOS

37. [1.1] TRAMUTA, C. - NEBBIA, P. - ROBINO, P. - GIUSTO, G. - GANDINI, M. - CHIADO-CUTIN, S. - GREGO, E. Antibacterial activities of Manuka and Honeydew honey-based membranes against bacteria that cause wound infections in animals. In SCHWEIZER ARCHIV FÜR TIERHEILKUNDE. ISSN 0036-7281, 2017, vol. 159, no. 2, pp. 117-121., Registrované v: WOS

38. [1.1] VISHWAKARMA, J. - VAVILALA, S. L. Evaluating the antibacterial and antibiofilm potential of sulphated polysaccharides extracted from green algae *Chlamydomonas reinhardtii*. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2019, vol. 127, no. 4, pp. 1004-1017., Registrované v: WOS

39. [1.1] WASFI, Reham - HAMED, Samira M. - AMER, Mai A. - FAHMY, Lamiaa Ismail. *Proteus mirabilis* Biofilm: Development and Therapeutic Strategies. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fcimb.2020.00414>., Registrované v: WOS

40. [1.1] WHITE, R. Manuka honey in wound management: greater than the sum of its parts? In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2016, vol. 25, no. 9, pp. 539-543., Registrované v: WOS

41. [1.1] YANG, Catherina - MAVELLI, Girish Vallerinteavide - NACHARAJU, Parimala - LI, Kevin - CLEARE, Levi G. - NOSANCHUK, Joshua D. - FRIEDMAN, Joel M. - ABUZEID, Waleed M. Novel nitric oxide-generating platform using manuka honey as an anti-biofilm strategy in chronic rhinosinusitis. In INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY. ISSN 2042-6976, 2020, vol. 10, no. 2, pp. 223-232. Dostupné na: <https://doi.org/10.1002/alr.22472>., Registrované v: WOS

42. [1.1] ZIVKOVIC, Jelena - SUNARIC, Slavica - STANKOVIC, Nemanja - MIHAJLOV-KRSTEV, Tatjana - SPASIC, Ana. TOTAL PHENOLIC AND FLAVONOID CONTENTS, ANTIOXIDANT AND ANTIBACTERIAL ACTIVITIES OF SELECTED HONEYS AGAINST HUMAN PATHOGENIC BACTERIA. In ACTA POLONIAE PHARMACEUTICA. ISSN 0001-6837, 2019, vol. 76, no. 4, pp. 671-681., Registrované v: WOS

43. [1.2] BARBOSA, D. B. - AGOSTINHO HUNT, A. M. - BERRETTA, A. - RODRIGUES DE CAMARGO, E. - GORUP, L. F. - MONTEIRO, D. R. - FERNANDES, G. L. - FERNANDES, R. A. - KIRKER, K. R. The importance of preventing and controlling biofilm in wounds: Biofilm models and nanotechnology in antibiofilm approaches. In Wound Healing Biomaterials, 2016-06-01, 2, pp. 79-105., Registrované v: SCOPUS

44. [1.2] JULIANO, Claudia - MAGRINI, Giovanni Antonio.

Methylglyoxal, the major antibacterial factor in manuka honey: An alternative to preserve natural cosmetics? In *Cosmetics*, 2019-03-01, 6, 1, pp., Registrované v: SCOPUS

45. [1.2] LAZARIDES, Alexander L. - HAMID, Kamran S. - KERZNER, Michael S. Novel Use of Active Leptospermum Honey for Ringed Fixator Pin Site Care in Diabetic Charcot Deformity Patients. In *Foot and Ankle Specialist*. ISSN 19386400, 2018-04-01, 11, 2, pp. 117-122., Registrované v: SCOPUS

46. [1.2] RAFTER, Linda - REYNOLDS, Tim - COLLIER, Mark - RAFTER, Mark - WEST, Malcolm. A clinical evaluation of Algivon® Plus manuka honey dressings for chronic wounds. In *Wounds UK*. ISSN 17466814, 2017-01-01, 13, 4, pp. 132-140., Registrované v: SCOPUS

47. [1.2] SHAN, Yaso. Medicinal honey in clinical practice: Viable alternative or useful adjunct in wound care management? In *British Journal of Nursing*. ISSN 09660461, 2019-06-27, 28, 12, pp. S23-S30., Registrované v: SCOPUS

ADCA839 MAJTÁN, Juraj - KUMAR, P. - MAJTÁN, Tomáš - WALLS, A. F. - KLAUDINY, Jaroslav. Effect of honey and its major royal jelly protein 1 on cytokine and MMP-9 mRNA transcripts in human keratinocytes. In *Experimental Dermatology*, 2010, vol. 19, no. 8, p. e73-e79. (2009: 3.239 - IF, 1.327 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0906-6705. Dostupné na: <https://doi.org/10.1111/j.1600-0625.2009.00994.x>

Ohlasy:

1. [1.1] AKSOY, L. - ALPER, Y. The effects of royal jelly on oxidative stress and toxicity in tissues induced by malathion, an organophosphate insecticide. In *JOURNAL OF THE HELLENIC VETERINARY MEDICAL SOCIETY*. ISSN 1792-2720, 2019, vol. 70, no. 2, pp. 1517-1524., Registrované v: WOS

2. [1.1] AL-EISA, R. A. - AL-NAHARI, H. A. The attenuating effect of Royal Jelly on Hormonal Parameters in Aluminum Chloride (AlCl₃) Intoxicated Rats. In *INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH AND ALLIED SCIENCES*. ISSN 2277-3657, 2017, vol. 6, no. 2, pp. 70-85., Registrované v: WOS

3. [1.1] AL-WAILI, Noori - HOZZEIN, Wael N. - BADR, Gamal - AL-GHAMDI, Ahmed - AL-WAILI, Hamza - SALOM, Khelod - AL-WAILI, Thia. PROPOLIS AND BEE VENOM IN DIABETIC WOUNDS; A POTENTIAL APPROACH THAT WARRANTS CLINICAL INVESTIGATION. In *AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES*. ISSN 0189-6016, 2015, vol. 12, no. 6, pp. 1-11., Registrované v: WOS

4. [1.1] BRUDZYNSKI, Katrina - MALDONADO-ALVAREZ, Liset. Polyphenol-Protein Complexes and Their Consequences for the Redox Activity, Structure and Function of Honey. A Current View and New Hypothesis a Review. In *POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES*. ISSN 1230-0322, 2015, vol. 65, no. 2, pp. 71-80., Registrované v: WOS

5. [1.1] BUCEKOVA, Marcela - SOJKA, Martin - VALACHOVA, Ivana - MARTINOTTI, Simona - RANZATO, Elia - SZEP, Zoltan - MAJTAN, Viktor - KLAUDINY, Jaroslav - MAJTAN, Juraj. Bee-derived antibacterial peptide, defensin-1, promotes wound re-epithelialisation in vitro and in vivo. In

SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

6. [1.1] COOPER, R. Honey for wound care in the 21st century. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2016, vol. 25, no. 9, pp. 544-552., Registrované v: WOS

7. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS

8. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Honeybee apisimin and plant arabinogalactans in honey costimulate monocytes. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 168, no., pp. 34-40., Registrované v: WOS

9. [1.1] HAMMOND, Eric Nee-Armah - DUSTER, Megan - MUSUUZA, Jackson Ssentalo - SAFDAR, Nasia. Effect of United States buckwheat honey on antibiotic-resistant hospital acquired pathogens. In PAN AFRICAN MEDICAL JOURNAL. ISSN 1937-8688, 2016, vol. 25, no., pp., Registrované v: WOS

10. [1.1] CHANTAWANNAKUL, Panuwan. From entomophagy to entomotherapy. In FRONTIERS IN BIOSCIENCE-LANDMARK. ISSN 2768-6701, 2020, vol. 25, no., pp. 179-200. Dostupné na: <https://doi.org/10.2741/4802>., Registrované v: WOS

11. [1.1] CHEN, Yi-Fan - WANG, Kai - ZHANG, Yan-Zheng - ZHENG, Yu-Fei - HU, Fu-Liang. In Vitro Anti-Inflammatory Effects of Three Fatty Acids from Royal Jelly. In MEDIATORS OF INFLAMMATION. ISSN 0962-9351, 2016, vol. 2016, no., pp., Registrované v: WOS

12. [1.1] CHERAGHI, Omid - ABDOLLAHPOURASL, Mina - REZABAKHSH, Aysa - RAHBARGHAZI, Reza. Distinct Effects of Royal Jelly on Human Endothelial Cells Under High Glucose Condition. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2018, vol. 17, no. 4, pp. 1361-1370., Registrované v: WOS

13. [1.1] JEON, Sanghun - CHO, Yunhi. Epidermal Hydration Is Improved by Enhanced Ceramide Metabolism in Aged C57BL/6J Mice After Dietary Supplementation of Royal Jelly. In JOURNAL OF MEDICINAL FOOD. ISSN 1096-620X, 2015, vol. 18, no. 9, pp. 999-1006., Registrované v: WOS

14. [1.1] LAZIM, N. M. - BAHARUDIN, A. Honey-A Natural Remedy for Pain Relief. In NUTRITIONAL MODULATORS OF PAIN IN THE AGING POPULATION, 2017, vol., no., pp. 123-134., Registrované v: WOS

15. [1.1] LIN, Yan - SHAO, Qiqi - ZHANG, Meng - LU, Chenyue - FLEMING, Joy - SU, Songkun. Royal jelly-derived proteins enhance proliferation and migration of human epidermal keratinocytes in an in vitro scratch wound model. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2019, vol. 19, no., pp., Registrované v: WOS

16. [1.1] MAGHSOUDLOU, Atefe - MAHOONAK, Alireza Sadeghi - MOHEBODINI, Hossein - TOLDRA, Fidel. ROYAL JELLY: CHEMISTRY, STORAGE AND BIOACTIVITIES. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, 2019, vol. 63, no. 1, pp. 17-40., Registrované v: WOS

17. [1.1] MARTINOTTI, Simona - RANZATO, Elia. Honey, Wound

Repair and Regenerative Medicine. In JOURNAL OF FUNCTIONAL BIOMATERIALS. ISSN 2079-4983, 2018, vol. 9, no. 2, pp., Registrované v: WOS

18. [1.1] MCLOONE, Pauline - OLUWADUN, Afolabi - WARNOCK, Mary - FYFE, Lorna. Honey: A Therapeutic Agent for Disorders of the Skin. In CENTRAL ASIAN JOURNAL OF GLOBAL HEALTH. ISSN 2166-7403, 2016, vol. 5, no. 1, pp., Registrované v: WOS

19. [1.1] MCLOONE, Pauline - TABYS, Dina - FYFE, Lorna. Honey Combination Therapies for Skin and Wound Infections: A Systematic Review of the Literature. In CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY. ISSN 1178-7015, 2020, vol. 13, no., pp. 875-888. Dostupné na: <https://doi.org/10.2147/CCID.S282143>, Registrované v: WOS

20. [1.1] MCLOONE, Pauline - WARNOCK, Mary - FYFE, Lorna. Honey: an immunomodulatory agent for disorders of the skin. In FOOD AND AGRICULTURAL IMMUNOLOGY. ISSN 0954-0105, 2016, vol. 27, no. 3, pp. 338-349., Registrované v: WOS

21. [1.1] MESAIK, M. Ahmed - DASTAGIR, Nida - UDDIN, Nazim - REHMAN, Khalid - AZIM, M. Kamran. Characterization of Immunomodulatory Activities of Honey Glycoproteins and Glycopeptides. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 1, pp. 177-184., Registrované v: WOS

22. [1.1] MIGUEL, M. G. - ANTUNES, M. D. - FALEIRO, M. L. Honey as a Complementary Medicine. In INTEGRATIVE MEDICINE INSIGHTS. ISSN 1177-3936, 2017, vol. 12, no., pp., Registrované v: WOS

23. [1.1] MIYATA, Yasuyoshi - SAKAI, Hideki. Anti-Cancer and Protective Effects of Royal Jelly for Therapy-Induced Toxicities in Malignancies. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2018, vol. 19, no. 10, pp., Registrované v: WOS

24. [1.1] MOLAN, Peter - RHODES, Tanya. Honey: A Biologic Wound Dressing. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2015, vol. 27, no. 6, pp. 141-151., Registrované v: WOS

25. [1.1] MUKAI, Kanae - KOMATSU, Emi - YAMANISHI, Misa - HUTAKUCHI, Misako - KANZAKA, Kayo - UNO, Yuka - YAMAZAKI, Shizuka - KATO, Shizuka - YAMAMOTO, Tomomi - HATTORI, Mayumi - NAKAJIMA, Yukari - URAI, Tamae - ASANO, Kimi - MURAKADO, Naoko - OKUWA, Mayumi - NAKATANI, Toshio. Effectiveness of Changing the Application of Japanese Honey to a Hydrocolloid Dressing in Between the Inflammatory and Proliferative Phases on Cutaneous Wound Healing in Male Mice. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2017, vol. 29, no. 1, pp. 1-9., Registrované v: WOS

26. [1.1] MUNOZ, Mariela - VASQUEZ, Belgica - DEL SOL, Mariano. Molecular Mechanisms in the Process of Re-epithelization in Wound Healing and the Action of Honey in Keratinocytes. In INTERNATIONAL JOURNAL OF MORPHOLOGY. ISSN 0717-9502, 2020, vol. 38, no. 6, pp. 1700-1706., Registrované v: WOS

27. [1.1] NAKASHIMA, Chisa - OTSUKA, Atsushi - SEIDEL, Judith A. - KABASHIMA, Kenji. The effect of oral royal jelly administration on skin barrier function: a double-blind randomized placebo-controlled trial. In

- EUROPEAN JOURNAL OF DERMATOLOGY. ISSN 1167-1122, 2018, vol. 28, no. 4, pp. 563-564., Registrované v: WOS
28. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In JOURNAL OF TISSUE VIABILITY. ISSN 0965-206X, 2016, vol. 25, no. 2, pp. 98-118., Registrované v: WOS
29. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOHAMMADI, Ali Akbar. Application of honey as a protective material in maintaining the viability of adipose stem cells in burn wound healing: A histological, molecular and biochemical study. In TISSUE & CELL. ISSN 0040-8166, 2019, vol. 61, no., pp. 89-97., Registrované v: WOS
30. [1.1] OTA, Misato - NAGACHI, Yasutaka - ISHIUCHI, Kan'ichiro - TABUCHI, Yoshiaki - XU, Feng - SHANG, Ming-Ying - CAI, Shao-Qing - MAKINO, Toshiaki. Comparison of the inducible effects of licorice products with or without heat-processing and pre-treatment with honey on granulocyte colony stimulating factor secretion in cultured enterocytes. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 214, no., pp. 1-7., Registrované v: WOS
31. [1.1] PEREIRA, Ruben F. - BARTOLO, Paulo J. Traditional Therapies for Skin Wound Healing. In ADVANCES IN WOUND CARE. ISSN 2162-1918, 2016, vol. 5, no. 5, pp. 208-229., Registrované v: WOS
32. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
33. [1.1] SCHENCKE, Carolina - VASQUEZ, Belgica - SANDOVAL, Cristian - DEL SOL, Mariano. The role of honey in the morphophysiological processes of wound repair. In INTERNATIONAL JOURNAL OF MORPHOLOGY. ISSN 0717-9502, 2016, vol. 34, no. 1, pp. 385-395., Registrované v: WOS
34. [1.1] SIAVASH, Mansour - SHOKRI, Saeideh - HAGHIGHI, Sepehr - SHAHTALEBI, Mohammad Ali - FARAJZADEHGAN, Ziba. The efficacy of topical royal jelly on healing of diabetic foot ulcers: a double-blind placebo-controlled clinical trial. In INTERNATIONAL WOUND JOURNAL. ISSN 1742-4801, 2015, vol. 12, no. 2, pp. 137-142., Registrované v: WOS
35. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
36. [1.1] WAN, Derrick C. - MORGAN, Stefanie L. - SPENCLEY, Andrew L. - MARIANO, Natasha - CHANG, Erin Y. - SHANKAR, Gautam - LUO, Yunhai - LI, Ted H. - HUH, Dana - HUYNH, Star K. - GARCIA, Jasmine M. - DOVEY, Cole M. - LUMB, Jennifer - LIU, Ling - BROWN, Katharine V. - BERMUDEZ, Abel - LUONG, Richard - ZENG, Hong - MASCETTI, Victoria L. - PITTERI, Sharon J. - WANG, Jordon - TU, Hua - QUARTA, Marco - SEBASTIANO, Vittorio - NUSSE, Roel - RANDO, Thomas A. - CARETTE, Jan E. - BAZAN, J. Fernando - WANG, Kevin C. Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. In NATURE

COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS

37. [1.2] NORDIN, Abid - SAINIK, Nur Qisya Afifah Veronica - ZULFARINA, Mohamed S. - NAINA-MOHAMED, Isa - SAIM, Aminuddin - BT HJ IDRUS, Ruszymah. Honey and epithelial to mesenchymal transition in wound healing: An evidence-based review. In *Wound Medicine*. ISSN 22139095, 2017-09-01, 18, pp. 8-20., Registrované v: SCOPUS

38. [1.2] RASHIDI, Mohammad Kazem - MIRAZI, Naser - HOSSEINI, Abdolkarim. Effect of topical mixture of honey, royal jelly and olive oil-propolis extract on skin wound healing in diabetic rats. In *Wound Medicine*. ISSN 22139095, 2016-03-01, 12, pp. 6-9., Registrované v: SCOPUS

ADCA840 MAJTÁN, Juraj - BOHOVÁ, Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJTÁN, Tomáš - MAJTÁN, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF- α -induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. In *Archives of Dermatological Research*, 2013, vol. 305, no. 7, p. 619-627. (2012: 2.708 - IF, Q1 - JCR, 1.117 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0340-3696. Dostupné na: <https://doi.org/10.1007/s00403-013-1385-y>

Ohlasy:

1. [1.1] ABEL, Sean D. A. - DADHWAL, Sumit - GAMBLE, Allan B. - BAIRD, Sarah K. Honey reduces the metastatic characteristics of prostate cancer cell lines by promoting a loss of adhesion. In *PEERJ*. ISSN 2167-8359, 2018, vol. 6, no., pp., Registrované v: WOS

2. [1.1] AZIZ, Muhammad Shakir Abdul - GIRIBABU, Nelli - RAO, Pasupuleti Visweswara - SALLEH, Naguib. Pancreatoprotective effects of *Geniotrigona thoracica* stingless bee honey in streptozotocin-nicotinamide-induced male diabetic rats. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2017, vol. 89, no., pp. 135-145., Registrované v: WOS

3. [1.1] BROZNIC, Dalibor - RATKAJ, Ivana - STAVER, Mladenka Malenica - PAVELIC, Sandra Kraljevic - ZURGA, Paula - BUBALO, Dragan - GOBIN, Ivana. Evaluation of the Antioxidant Capacity, Antimicrobial and Anti proliferative Potential of Fir (*Abies alba* Mill.) Honeydew Honey Collected from Gorski kotar (Croatia). In *FOOD TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 1330-9862, 2018, vol. 56, no. 4, pp. 533-545., Registrované v: WOS

4. [1.1] COOPER, R. Honey for wound care in the 21st century. In *JOURNAL OF WOUND CARE*. ISSN 0969-0700, 2016, vol. 25, no. 9, pp. 544-552., Registrované v: WOS

5. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS

6. [1.1] DE LACERDA NETO, Luis Jardelino - BARBOSA RAMOS, Andreza Guedes - SALES, Valterlucio Santos - GONCALVES DE SOUZA, Severino Denicio - LUCAS DOS SANTOS, Antonia Thassya - DE OLIVEIRA, Larissa Rolim - KERNTOPF, Marta Regina - DE ALBUQUERQUE, Thais Rodrigues - MELO COUTINHO, Henrique Douglas - QUINTANS-JUNIOR, Lucindo Jose - WANDERLEY, Almir Goncalves - ALENCAR DE MENEZES,

- Irwin Rose. Gastroprotective and ulcer healing effects of hydroethanolic extract of leaves of *Caryocar coriaceum*: Mechanisms involved in the gastroprotective activity. In *CHEMICO-BIOLOGICAL INTERACTIONS*. ISSN 0009-2797, 2017, vol. 261, no., pp. 56-62., Registrované v: WOS
7. [1.1] DEVASVARAN, Kogilavane - YONG, Yoke-Keong. Anti-inflammatory and wound healing properties of Malaysia Tualang honey. In *CURRENT SCIENCE*. ISSN 0011-3891, 2016, vol. 110, no. 1, pp. 47-51., Registrované v: WOS
8. [1.1] HANAFI, Nafise - TALEBPOUR AMIRI, Fereshteh - SHAHANI, Somayeh - ENAYATIFARD, Reza - GHASEMI, Maryam - KARIMPOUR, Abbas Ali. Licorice cream promotes full-thickness wound healing in Guinea pigs. In *JOURNAL OF RESEARCH IN PHARMACY*. ISSN 2630-6344, 2018, vol. 22, no. 3, pp. 411-421., Registrované v: WOS
9. [1.1] HATAHET, T. - MORILLE, M. - HOMMOSS, A. - DEVOISSELLE, J. M. - MUELLER, R. H. - BEGU, S. Quercetin topical application, from conventional dosage forms to nanodosage forms. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2016, vol. 108, no., pp. 41-53., Registrované v: WOS
10. [1.1] HOZZEIN, Wael N. - BADR, Gamal - AL GHAMDI, Ahmad A. - SAYED, Ayat - AL-WAILI, Noori S. - GARRAUD, Olivier. Topical Application of Propolis Enhances Cutaneous Wound Healing by Promoting TGF-Beta/Smad-Mediated Collagen Production in a Streptozotocin-Induced Type I Diabetic Mouse Model. In *CELLULAR PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 1015-8987, 2015, vol. 37, no. 3, pp. 940-954., Registrované v: WOS
11. [1.1] KARAPETSAS, Athanasios - VOULGARIDOU, Georgia-Persephoni - ILIADI, Dimitra - TSOCHANTARIDIS, Ilias - MICHAIL, Panagiota - KYNIGOPOULOS, Spyridon - LAMBROPOULOU, Maria - STAVROPOULOU, Maria-Ioanna - STATHOPOULOU, Konstantina - KARABOURNIOTI, Sofia - ALIGIANNIS, Nektarios - GARDIKIS, Konstantinos - GALANIS, Alex - PANAYIOTIDIS, Mihalios - PAPPA, Aglaia. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In *ANTIOXIDANTS*, 2020, vol. 9, no. 7, pp. Dostupné na: <https://doi.org/10.3390/antiox9070566>., Registrované v: WOS
12. [1.1] KRISHNAN, Natarajan - VELRAMAR, Balasubramanian - RAMATCHANDIRIN, Balamurugan - ABRAHAM, George Chelliah - DURAISAMY, Nivas - PANDIYAN, Rajesh - VELU, Rajesh Kannan. Effect of biogenic silver nanocubes on matrix metalloproteinases 2 and 9 expressions in hyperglycemic skin injury and its impact in early wound healing in streptozotocin-induced diabetic mice. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2018, vol. 91, no., pp. 146-152., Registrované v: WOS
13. [1.1] KUS, Piotr M. - JERKOVIC, Igor - MARIJANOVIC, Zvonimir - TUBEROSO, Carlo I. G. Screening of Polish Fir Honeydew Honey Using GC/MS, HPLC-DAD, and Physical-Chemical Parameters: Benzene Derivatives and Terpenes as Chemical Markers. In *CHEMISTRY & BIODIVERSITY*. ISSN 1612-1872, 2017, vol. 14, no. 9, pp., Registrované v: WOS
14. [1.1] LATIFA, Haderbach - SAADA, Annou - AREZKI,

- Mohammedi. ANTIMICROBIAL POTENTIAL OF ZIZIPHUS AND EUPHORBIA HONEYS HARVESTED IN SEMI-ARID REGION OF ALGERIA AND THEIR POSSIBLE USE IN SOFT MEDICINE. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2020, vol. 9, no. 6, pp. 1114-1118. Dostupné na: <https://doi.org/10.15414/jmbfs.2020.9.6.1114-1118>., Registrované v: WOS
15. [1.1] LAZIM, N. M. - BAHARUDIN, A. Honey-A Natural Remedy for Pain Relief. In NUTRITIONAL MODULATORS OF PAIN IN THE AGING POPULATION, 2017, vol., no., pp. 123-134., Registrované v: WOS
16. [1.1] MALIK, Nurfairuz Abdul - MOHAMED, Mahaneem - MUSTAFA, Mohd Zulkifli - ZAINUDDIN, Azalina. In vitro modulation of extracellular matrix genes by stingless bee honey in cellular aging of human dermal fibroblast cells. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 1, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13098>., Registrované v: WOS
17. [1.1] MCLOONE, Pauline - OLUWADUN, Afolabi - WARNOCK, Mary - FYFE, Lorna. Honey: A Therapeutic Agent for Disorders of the Skin. In CENTRAL ASIAN JOURNAL OF GLOBAL HEALTH. ISSN 2166-7403, 2016, vol. 5, no. 1, pp., Registrované v: WOS
18. [1.1] MCLOONE, Pauline - WARNOCK, Mary - FYFE, Lorna. Honey: an immunomodulatory agent for disorders of the skin. In FOOD AND AGRICULTURAL IMMUNOLOGY. ISSN 0954-0105, 2016, vol. 27, no. 3, pp. 338-349., Registrované v: WOS
19. [1.1] MUKAI, Kanae - KOMATSU, Emi - YAMANISHI, Misa - HUTAKUCHI, Misako - KANZAKA, Kayo - UNO, Yuka - YAMAZAKI, Shizuka - KATO, Shizuka - YAMAMOTO, Tomomi - HATTORI, Mayumi - NAKAJIMA, Yukari - URAI, Tamae - ASANO, Kimi - MURAKADO, Naoko - OKUWA, Mayumi - NAKATANI, Toshio. Effectiveness of Changing the Application of Japanese Honey to a Hydrocolloid Dressing in Between the Inflammatory and Proliferative Phases on Cutaneous Wound Healing in Male Mice. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2017, vol. 29, no. 1, pp. 1-9., Registrované v: WOS
20. [1.1] OTA, Misato - ISHIUCHI, Kan'ichiro - XU, Xin - MINAMI, Masaaki - NAGACHI, Yasutaka - YAGI-UTSTUNI, Maho - TABUCHI, Yoshiaki - CAI, Shao-Qing - MAKINO, Toshiaki. The immunostimulatory effects and chemical characteristics of heated honey. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2019, vol. 228, no., pp. 11-17., Registrované v: WOS
21. [1.1] OTA, Misato - NAGACHI, Yasutaka - ISHIUCHI, Kan'ichiro - TABUCHI, Yoshiaki - XU, Feng - SHANG, Ming-Ying - CAI, Shao-Qing - MAKINO, Toshiaki. Comparison of the inducible effects of licorice products with or without heat-processing and pre-treatment with honey on granulocyte colony stimulating factor secretion in cultured enterocytes. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 214, no., pp. 1-7., Registrované v: WOS
22. [1.1] SAAVEDRA, Nicolas - CUEVAS, Alejandro - CAVALCANTE, Marcela F. - DOERR, Felipe A. - SAAVEDRA, Kathleen - ZAMBRANO, Tomas - ABDALLA, Dulcinea S. P. - SALAZAR, Luis A. Polyphenols from Chilean Propolis and Pinocembrin Reduce MMP-9 Gene

- Expression and Activity in Activated Macrophages. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2016, vol., no., pp., Registrované v: WOS
23. [1.1] SAIKALY, Sami K. - KHACHEMOUNE, Amor. Honey and Wound Healing: An Update. In AMERICAN JOURNAL OF CLINICAL DERMATOLOGY. ISSN 1175-0561, 2017, vol. 18, no. 2, pp. 237-251., Registrované v: WOS
24. [1.1] SAREMI, Kamelia - BAGHERI, Elham - RAD, Sima Kianpour - SALMAN, Abbas Abdulameer - MAJID, Nazia Abdul. In vivo evaluation of wound healing improvement of a new Schiff base derived bromine compound (CNBP) in rats. In GENE REPORTS, 2019, vol. 16, no., pp., Registrované v: WOS
25. [1.1] SAWAZAKI, Takuto - NAKAJIMA, Yukari - URAI, Tamae - MUKAI, Kanae - OHTA, Megumi - KATO, Ikuko - KAWAGUCHI, Azusa - KINOSHITA, Yui - KUMAGAI, Yuri - SAKASHITA, Ayaka - YAMAZAKI, Asuka - NAKATANI, Toshio. Efficacy of Honeydew Honey and Blossom Honey on Full-thickness Wound Healing in Mice. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2018, vol. 30, no. 7, pp. 197-204., Registrované v: WOS
26. [1.1] SHAH, Ahmed - AMINI-NIK, Saeid. The Role of Phytochemicals in the Inflammatory Phase of Wound Healing. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 5, pp., Registrované v: WOS
27. [1.1] TISCHER SERAGLIO, Silvana Katia - SILVA, Bibiana - BERGAMO, Greici - BRUGNEROTTO, Patricia - GONZAGA, Luciano Valdemiro - FETT, Roseane - OLIVEIRA COSTA, Ana Carolina. An overview of physicochemical characteristics and health-promoting properties of honeydew honey. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 119, no., pp. 44-66., Registrované v: WOS
28. [1.1] VASIC, Vesna - GASIC, Uros - STANKOVIC, Dalibor - LUSIC, Drazen - VUKIC-LUSIC, Darija - MILOJKOVIC-OPSENICA, Dusanka - TESIC, Zivoslav - TRIFKOVIC, Jelena. Towards better quality criteria of European honeydew honey: Phenolic profile and antioxidant capacity. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 274, no., pp. 629-641., Registrované v: WOS
29. [1.1] XIA XICHAO - MA YUHONG - WANG FUAN - ZHENG XINHUA - LIU YANG - ZHANG JUNFENG - CUI JUAN - SHI BINGQIN - LI HONGWEN - LIU RONGZHI - ZHANG YAPING - CHENG ZHAOFEI - HAN XIAOLONG. Effects of extracts from Chuanwu (*Aconitum Carmichaelii*) and Banxia (*Rhizoma Pinelliae*) on excisional wound healing in a rat's model. In JOURNAL OF TRADITIONAL CHINESE MEDICINE. ISSN 0255-2922, 2019, vol. 39, no. 1, pp. 65-73., Registrované v: WOS
30. [1.1] YADAV, Anju - VERMA, Saurabh - KESHRI, Gaurav K. - GUPTA, Asheesh. Combination of medicinal honey and 904 nm superpulsed laser-mediated photobiomodulation promotes healing and impedes inflammation, pain in full-thickness burn. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2018, vol. 186, no., pp. 152-159., Registrované v: WOS
31. [1.1] ZEKA, Ketan - RUPARELIA, Ketan C. - SANSONE, Claudia - MACCHIARELLI, Guido - CONTINENZA, Maria Adelaide - ARROO, Randolph R. J. New Hydrogels Enriched with Antioxidants from Saffron Crocus

Can Find Applications in Wound Treatment and/or Beautification. In SKIN PHARMACOLOGY AND PHYSIOLOGY. ISSN 1660-5527, 2018, vol. 31, no. 2, pp. 95-98., Registrované v: WOS

32. [1.2] ANTUNES-RICARDO, Marilena - GUTIÉRREZ-URIBE, Janet - SERNA-SALDÍVAR, Sergio O. Anti-inflammatory glycosylated flavonoids as therapeutic agents for treatment of diabetes-impaired wounds. In Current Topics in Medicinal Chemistry. ISSN 15680266, 2015-08-01, 15, 23, pp. 2456-2463., Registrované v: SCOPUS

33. [1.2] DJERROU, Zouhir - MOKHBI, Imane - HADEF, Khadidja Saci - BOUTOBZA, Noudjoud - BOUZEGUINE, Saida - BRIGHET, Ilhem - KHELFA, Bisma. Burn wound healing effect and hair growth promoting activity of Lawsonia inermis L. and honey in Oryctolagus cuniculus rabbits. In OnLine Journal of Biological Sciences, 2016-01-01, 16, 2, pp. 82-89., Registrované v: SCOPUS

34. [1.2] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Honeybee apisimin and plant arabinogalactans in honey costimulate monocytes. In Food Chemistry. ISSN 03088146, 2015-02-01, 168, pp. 34-40., Registrované v: SCOPUS

35. [1.2] LEITE, N. S. - LIMA, A. P. - ARAÚJO-NETO, V. - ESTEVAM, C. S. - PANTALEÃO, S. M. - CAMARGO, E. A. - FERNANDES, R. P.M. - BCOSTA, S. - MUSCARÁ, M. N. - THOMAZZI, S. M. Evaluation of the cicatrizing, topical anti-inflammatory and antioxidant activities of the ethanol extract of sideroxylon obtusifolium. In Revista Brasileira de Plantas Mediciniais. ISSN 15160572, 2015-01-01, 17, 1, pp. 164-170., Registrované v: SCOPUS

36. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In Bioengineering, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS

37. [1.2] NARAYANASWAMY, Radhakrishnan - KOK WAI, Lam - ISMAIL, Intan Safinar. In silico analysis of selected honey constituents as human neutrophil elastase (HNE) and matrix metalloproteinases (MMP 2 and 9) inhibitors. In International Journal of Food Properties. ISSN 10942912, 2015-01-01, 18, 10, pp. 2155-2164., Registrované v: SCOPUS

38. [1.2] NORDIN, Abid - SAINIK, Nur Qisya Afifah Veronica - ZULFARINA, Mohamed S. - NAINA-MOHAMED, Isa - SAIM, Aminuddin - BT HJ IDRUS, Ruszymah. Honey and epithelial to mesenchymal transition in wound healing: An evidence-based review. In Wound Medicine. ISSN 22139095, 2017-09-01, 18, pp. 8-20., Registrované v: SCOPUS

39. [1.2] SAAVEDRA, Nicolás - CUEVAS, Alejandro - CAVALCANTE, Marcela F. - DÖRR, Felipe A. - SAAVEDRA, Kathleen - ZAMBRANO, Tomás - ABDALLA, Dulcinea S P - SALAZAR, Luis A. Polyphenols from Chilean Propolis and Pinocembrin Reduce MMP-9 Gene Expression and Activity in Activated Macrophages. In BioMed Research International. ISSN 23146133, 2016-01-01, 2016, pp., Registrované v: SCOPUS

40. [1.2] THEORET, Christine - LEPAGE, Olivier - DART, Andrew - BISCHOFBERGER, Andrea - STANLEY, Bryden - KOENIG, Judith. Innovative Adjunctive Approaches to Wound Management. In Equine Wound Management: Third Edition, 2016-11-09, pp. 508-529., Registrované v: SCOPUS

ADCA841 MAJTÁN, Juraj - BÍLIKOVÁ, Katarína - MARKOVIC, O. - GROF, J. - KOGAN, Grigorij - ŠIMÚTH, Jozef. Isolation and characterization of chitin from bumblebee (*Bombus terrestris*). In *International Journal of Biological Macromolecules*, 2007, vol. 40, no. 3, pp. 237-241. (2006: 1.323 - IF, Q4 - JCR, 0.509 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2006.07.010>

Ohlasy:

1. [1.1] ABIDIN, N.A.Z. - KORMIN, F. - ABIDIN, N.A.Z. - ANUAR, N.A.F.M. - ABU BAKAR, M.F. The Potential of Insects as Alternative Sources of Chitin: An Overview on the Chemical Method of Extraction from Various Sources. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. JUL 2020, vol. 21, no. 14., Registrované v: WOS
2. [1.1] BAHASAN, S.H.O. - SATHEESH, S. - BA-AKDAH, M.A. Extraction of Chitin from the Shell Wastes of Two Shrimp Species *Fenneropenaeus semisulcatus* and *Fenneropenaeus indicus* using Microorganisms. In *JOURNAL OF AQUATIC FOOD PRODUCT TECHNOLOGY*. 2017, vol. 26, no. 4, p. 390-405., Registrované v: WOS
3. [1.1] DHANANASEKARAN, S. - PALANIVEL, R. - PAPPU, S. Adsorption of Methylene Blue, Bromophenol Blue, and Coomassie Brilliant Blue by alpha-chitin nanoparticles. In *JOURNAL OF ADVANCED RESEARCH*. JAN 2016, vol. 7, no. 1, p. 113-124., Registrované v: WOS
4. [1.1] ERDOGAN, S. - KAYA, M. High similarity in physicochemical properties of chitin and chitosan from nymphs and adults of a grasshopper. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. AUG 2016, vol. 89, p. 118-126., Registrované v: WOS
5. [1.1] GARRIDO, T. - ETXABIDE, A. - DE LA CABA, K. - GUERRERO, P. Versatile soy protein films and hydrogels by the incorporation of beta-chitin from squid pens (*Loligo* sp.). In *GREEN CHEMISTRY*. DEC 21 2017, vol. 19, no. 24, p. 5923-5931., Registrované v: WOS
6. [1.1] GOMBA, G.K. - SYNITSYA, A. - SCECOVA, P. - COIMBRA, M.A. - COPIKOVA, J. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. SEP 2015, vol. 80, p. 271-281., Registrované v: WOS
7. [1.1] GONZALEZ, A.L. - CEREGHINO, R. - DEZERALD, O. - FARJALLA, V.F. - LEROY, C. - RICHARDSON, B.A. - RICHARDSON, M.J. - ROMERO, G.Q. - SRIVASTAVA, D.S. Ecological mechanisms and phylogeny shape invertebrate stoichiometry: A test using detritus-based communities across Central and South America. In *FUNCTIONAL ECOLOGY*. OCT 2018, vol. 32, no. 10, p. 2448-2463., Registrované v: WOS
8. [1.1] GOPAL, Judy - MUTHU, Manikandan - DHAKSHANAMURTHY, Thirumalai - KIM, Ki Jun - HASAN, Nazim - KWON, Seong Jung - CHUN, Sechul. Sustainable ecofriendly phytoextract mediated one pot green recovery of chitosan. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
9. [1.1] GREVEN, H. - KAYA, M. - BARAN, T. The presence of alpha-chitin in Tardigrada with comments on chitin in the Ecdysozoa. In *ZOOLOGISCHER ANZEIGER*. 2016, vol. 264, p. 11-16., Registrované v: WOS
10. [1.1] GUNES, E. - SERT, D. The Effect of Boric Acid on The External Skeleton of *Drosophila melanogaster* at Different Developmental Stages. In *KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF*

AGRICULTURE AND NATURE. 2018, vol. 21, no. 2, p. 126-130.,

Registrované v: WOS

11. [1.1] HAHN, T. - TAFI, E. - PAUL, A. - SALVIA, R. -
FALABELLA, P. - ZIBEK, S. Current state of chitin purification and chitosan
production from insects. In JOURNAL OF CHEMICAL TECHNOLOGY AND
BIOTECHNOLOGY. ISSN 0268-2575, NOV 2020, vol. 95, no. 11, p.

2775-2795., Registrované v: WOS

12. [1.1] HASSAINIA, A. - SATHA, H. - BOUFI, S. Chitin from
Agaricus bisporus: Extraction and characterization. In INTERNATIONAL
JOURNAL OF BIOLOGICAL MACROMOLECULES. OCT 1 2018, vol. 117,
p. 1334-1342., Registrované v: WOS

13. [1.1] HEMAPRIYA, J. - RAVI, A. - AISVERYA, S. - SUDHA, P.N.
- VIJAYANAND, S. Chitosan and Its Biomedical Applications. In MARINE
POLYSACCHARIDES: ADVANCES AND MULTIFACETED
APPLICATIONS. 2019, p. 111-140., Registrované v: WOS

14. [1.1] HUET, G. - HADAD, C. - HUSSON, E. - LACLEF, S. -
LAMBERTYN, V. - FARIAS, M.A. - JAMALI, A. - COURTY, M. -
ALAYOUBI, R. - GOSSELIN, I. - SARAZIN, C. - VAN NHIEU, A.N.
Straightforward extraction and selective bioconversion of high purity chitin from
Bombyx eri larva: Toward an integrated insect biorefinery. In
CARBOHYDRATE POLYMERS. ISSN 0144-8617, JAN 15 2020, vol. 228.,
Registrované v: WOS

15. [1.1] IBITOYE, E.B. - LOKMAN, I.H. - HEZMEE, M.N.M. - GOH,
Y.M. - ZUKI, A.B.Z. - JIMOH, A.A. Extraction and physicochemical
characterization of chitin and chitosan isolated from house cricket. In
BIOMEDICAL MATERIALS. MAR 2018, vol. 13, no. 2., Registrované v: WOS

16. [1.1] IKL, S. - RAMANAUSKAITE, A. - BILICAN, B.K. -
MULERCIKAS, P. - CAM, D. - ONSSES, M.S. - TORUN, I. -
KAZLAUSKAITE, S. - BAUBLYS, V. - AYDIN, O. - ZANG, L.S. - KAYA, M.
Usage of natural chitosan membrane obtained from insect corneal lenses as a
drug carrier and its potential for point of care tests. In MATERIALS SCIENCE
& ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS.
ISSN 0928-4931, JUL 2020, vol. 112., Registrované v: WOS

17. [1.1] KABALAK, M. - ARACAGOK, D. - TORUN, M. Extraction,
characterization and comparison of chitins from large bodied four Coleoptera and
Orthoptera species. In INTERNATIONAL JOURNAL OF BIOLOGICAL
MACROMOLECULES. ISSN 0141-8130, FEB 15 2020, vol. 145, p. 402-409.,
Registrované v: WOS

18. [1.1] KAYA, M. - AKYUZ, B. - BULUT, E. - SARGIN, I. -
EROGLU, F. - TAN, G. Chitosan nanofiber production from Drosophila by
electrospinning. In INTERNATIONAL JOURNAL OF BIOLOGICAL
MACROMOLECULES. NOV 2016, vol. 92, p. 49-55., Registrované v: WOS

19. [1.1] KAYA, M. - BAGRIACIK, N. - SEYYAR, O. - BARAN, T. In
ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY. AUG 2015,
vol. 89, no. 4, p. 204-217., Registrované v: WOS

20. [1.1] KAYA, M. - BARAN, T. - ASAN-OZUSAGLAM, M. -
CAKMAK, Y.S. - TOZAK, K.O. - MOL, A. - MENTES, A. - SEZEN, G. In
BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. FEB 2015, vol. 20,
no. 1, p. 168-179., Registrované v: WOS

21. [1.1] KAYA, M. - BARAN, T. In INTERNATIONAL JOURNAL OF

BIOLOGICAL MACROMOLECULES. APR 2015, vol. 75, p. 7-12.,

Registrované v: WOS

22. [1.1] KAYA, M. - BAUBLYS, V. - SATKAUSKIENE, I. - AKYUZ, B. - BULUT, E. - TUBELYTE, V. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. AUG 2015, vol. 79, p. 126-132.,

Registrované v: WOS

23. [1.1] KAYA, M. - BAUBLYS, V. - SARGIN, I. - SATKAUSKIENE, I. - PAULAUSKAS, A. - AKYUZ, B. - BULUT, E. - TUBELYTE, V. - BARAN, T. - SEYYAR, O. - KABALAK, M. - YURTMEN, H. How Taxonomic Relations Affect the Physicochemical Properties of Chitin. In FOOD BIOPHYSICS. MAR 2016, vol. 11, no. 1, p. 10-19., Registrované v: WOS

24. [1.1] KAYA, M. - BITIM, B. - MUJTABA, M. - KOYUNCU, T. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. NOV 2015, vol. 81, p. 443-449., Registrované v: WOS

25. [1.1] KAYA, M. - HALICI, M.G. - DUMAN, F. - ERDOGAN, S. - BARAN, T. In NATURAL PRODUCT RESEARCH. JUL 3 2015, vol. 29, no. 13, p. 1280-1284., Registrované v: WOS

26. [1.1] KAYA, M. - LELESIUS, E. - NAGROCKAITE, R. - SARGIN, I. - ARSLAN, G. - MOL, A. - BARAN, T. - CAN, E. - BITIM, B. In PLOS ONE. JAN 30 2015, vol. 10, no. 1., Registrované v: WOS

27. [1.1] KAYA, M. - MUJTABA, M. - BULUT, E. - AKYUZ, B. - ZELENCOVA, L. - SOFI, K. In CARBOHYDRATE POLYMERS. NOV 5 2015, vol. 132, p. 9-16., Registrované v: WOS

28. [1.1] KAYA, M. - MUJTABA, M. - EHRLICH, H. - SALABERRIA, A.M. - BARAN, T. - AMEMIYA, C.T. - GALLI, R. - AKYUZ, L. - SARGIN, I. - LABIDI, J. On chemistry of gamma-chitin. In CARBOHYDRATE POLYMERS. NOV 15 2017, vol. 176, p. 177-186., Registrované v: WOS

29. [1.1] KAYA, M. - MULERCIKAS, P. - SARGIN, I. - KAZLAUSKAITE, S. - BAUBLYS, V. - AKYUZ, B. - BULUT, E. - TUBELYTE, V. Three-dimensional chitin rings from body segments of a pet diplopod species: Characterization and protein interaction studies. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. NOV 1 2016, vol. 68, p. 716-722.,

Registrované v: WOS

30. [1.1] KAYA, M. - SARGIN, I. - AL-JAF, I. - ERDOGAN, S. - ARSLAN, G. Characteristics of corneal lens chitin in dragonfly compound eyes. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. AUG 2016, vol. 89, p. 54-61., Registrované v: WOS

31. [1.1] KAYA, M. - SOFI, K. - SARGIN, I. - MUJTABA, M. Changes in physicochemical properties of chitin at developmental stages (larvae, pupa and adult) of Vespa crabro (wasp). In CARBOHYDRATE POLYMERS. JUL 10 2016, vol. 145, p. 64-70., Registrované v: WOS

32. [1.1] KHEDRI, N. - RAMEZANI, Z. - RAHBAR, N. Fast, green and effective chromium bio-speciation using Sepia pharaonis endoskeleton nano-powder. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. OCT 2016, vol. 13, no. 10, p. 2475-2484.,

Registrované v: WOS

33. [1.1] KOUSHA, M. - TAVAKOLI, S. - DANESHVAR, E. - VAZIRZADEH, A. - BHATNAGAR, A. In JOURNAL OF MOLECULAR LIQUIDS. JUL 2015, vol. 207, p. 266-273., Registrované v: WOS

34. [1.1] KULKARNI, S.A. - DHARINI, V. - SELVAM, S.P. - KUMAR, M.M. - SADIKU, E.R. - JAYARAMUDU, J. - GUPTA, U.N. Fabrication of Bionanocomposites from Chitin. In CHITIN- AND CHITOSAN-BASED BIOCOMPOSITES FOR FOOD PACKAGING APPLICATIONS. 2020, p. 11-21., Registrované v: WOS
35. [1.1] LIN, N. - ZHAO, S.S. - GAN, L. - CHANG, P.R. - XIA, T. - HUANG, J. Preparation of fungus-derived chitin nanocrystals and their dispersion stability evaluation in aqueous media. In CARBOHYDRATE POLYMERS. OCT 1 2017, vol. 173, p. 610-618., Registrované v: WOS
36. [1.1] MAREI, Narguess - ELWAHY, Ahmed H. M. - SALAH, Taher A. - EL SHERIF, Youssef - ABD EL-SAMIE, Emtithal. Enhanced antibacterial activity of Egyptian local insects' chitosan-based nanoparticles loaded with ciprofloxacin-HCl. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, no., pp. 262-272., Registrované v: WOS
37. [1.1] MAREI, N.H. - ABD EL-SAMIE, E. - SALAH, T. - SAAD, G.R. - ELWAHY, A.H.M. Isolation and characterization of chitosan from different local insects in Egypt. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. JAN 2016, vol. 82, p. 871-877., Registrované v: WOS
38. [1.1] MAREI, N.H. - EI-MAZNY, W. - EL-SHAER, A. - ZAKI, K.D. - HUSSEIN, Z.S. - ABD-EL-SAMIE, E.M. Enhanced wound healing activity of desert locust (*Schistocerca gregaria*) vs. shrimp (*Penaeus monodon*) chitosan based scaffolds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. APR 2017, vol. 97, p. 23-33., Registrované v: WOS
39. [1.1] MA, J.H. - XIN, C. - TAN, C.J. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. SEP 2015, vol. 80, p. 547-556., Registrované v: WOS
40. [1.1] MEHRANIAN, M. - POURABAD, R.F. - BASHIR, N.S. - TAIEBAN, S. Physicochemical characterization of chitin from the Mediterranean flour moth, *Ephestia kuehniella* Zeller (Lepidoptera: Pyralidae). In JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY. 2017, vol. 54, no. 10, p. 720-726., Registrované v: WOS
41. [1.1] MONTER-MIRANDA, J.G. - TIRADO-GALLEGOS, J.M. - ZAMUDIO-FLORES, P.B. - RIOS-VELASCO, C. - ORNELAS-PAZ, J.D. - SALGADO-DELGADO, R. - ESPINOSA-SOLIS, V. - HERNANDEZ-CENTENO, E. EXTRACTION AND CHARACTERIZATION OF PHYSICOCHEMICAL, MORPHOLOGICAL, AND STRUCTURAL PROPERTIES OF CHITIN AND CHITOSAN FROM *Brachystola magna* (Girard). In REVISTA MEXICANA DE INGENIERIA QUIMICA. DEC 2016, vol. 15, no. 3, p. 749-761., Registrované v: WOS
42. [1.1] MUELLER, Kerstin - ZOLLFRANK, Cordt - SCHMID, Markus. Natural Polymers from Biomass Resources as Feedstocks for Thermoplastic Materials. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, 2019, vol. 304, no. 5, pp., Registrované v: WOS
43. [1.1] OH, D.X. - CHA, Y.J. - NGUYEN, H.L. - JE, H.H. - JHO, Y.S. - HWANG, D.S. - YOON, D.K. Chiral nematic self-assembly of minimally surface damaged chitin nanofibrils and its load bearing functions. In SCIENTIFIC REPORTS. MAR 18 2016, vol. 6., Registrované v: WOS

44. [1.1] OLATUNJI, O. Chitin. In AQUATIC BIOPOLYMERS: UNDERSTANDING THEIR INDUSTRIAL SIGNIFICANCE AND ENVIRONMENTAL IMPLICATIONS. ISSN 2364-1878, 2020, p. 31-65., Registrované v: WOS
45. [1.1] PINERO, J.C. - SHIVERS, T. - BYERS, P.L. - JOHNSON, H.Y. Insect-based compost and vermicompost production, quality and performance. In RENEWABLE AGRICULTURE AND FOOD SYSTEMS. ISSN 1742-1705, FEB 2020, vol. 35, no. 1, p. 102-108., Registrované v: WOS
46. [1.1] PURKAYASTHA, D. - SARKAR, S. Physicochemical Structure Analysis of Chitin Extracted from Pupa Exuviae and Dead Imago of Wild Black Soldier Fly (*Hermetia illucens*). In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, FEB 2020, vol. 28, no. 2, p. 445-457., Registrované v: WOS
47. [1.1] RAJALEKSHMY, G.P. - DEVI, L.L. - JOSEPH, J. - REKHA, M.R. An overview on the potential biomedical applications of polysaccharides. In FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS. ISSN 2049-9485, 2019, p. 33-94., Registrované v: WOS
48. [1.1] SAENZ-MENDOZA, A. - ZAMUDIO-FLORES, P. B. - PALOMINO-ARTALEJO, G. A. - TIRADO-GALLEGOS, J. M. - GARCIA-CANO, V. G. - ORNELAS-PAZ, J. J. - RIOS-VELASCO, C. - ACOSTA-MUNIZ, C. H. - VARGAS-TORRES, A. - SALGADO-DELGADO, R. - APARICIO-SAGUILAN, A. PHYSICOCHEMICAL, MORPHOLOGICAL AND STRUCTURAL CHARACTERIZATION OF THE CHITIN AND CHITOSAN OF *Tenebrio molitor* AND *Galleria mellonella* INSECTS. In REVISTA MEXICANA DE INGENIERIA QUIMICA. ISSN 1665-2738, 2019, vol. 18, no. 1, pp. 39-56., Registrované v: WOS
49. [1.1] SANANDIYA, N.D. - OTTENHEIM, C. - PHUA, J.W. - CALIGIANI, A. - DRITSAS, S. - FERNANDEZ, J.G. Circular manufacturing of chitinous bio-composites via bioconversion of urban refuse. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 13 2020, vol. 10, no. 1., Registrované v: WOS
50. [1.1] SOON, C.Y. - TEE, Y.B. - TAN, C.H. - ROSNITA, A.T. - KHANNA, A. Extraction and physicochemical characterization of chitin and chitosan from *Zophobas* mono larvae in varying sodium hydroxide concentration. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. MAR 2018, vol. 108, p. 135-142., Registrované v: WOS
51. [1.1] TYLISZCZAK, B. - BIALIK-WAS, K. - DRABCZYK, A. - KUDLACIK, S. - SOBCZAK-KUPIEC, A. Animal-derived chitosans. Characteristics, comparison, application. In PRZEMYSŁ CHEMICZNY. OCT 2016, vol. 95, no. 10, p. 2059-2062., Registrované v: WOS
52. [1.1] VIDHATE, Ravindra P. - BHIDE, Amey J. - GAIKWAD, Sushama M. - GIRI, Ashok P. A potent chitin-hydrolyzing enzyme from *Myrothecium verrucaria* affects growth and development of *Helicoverpa armigera* and plant fungal pathogens. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 141, no., pp. 517-528., Registrované v: WOS
53. [1.1] WASKO, A. - BULAK, P. - POLAK-BERECKA, M. - NOWAK, K. - POLAKOWSKI, C. - BIEGANOWSKI, A. The first report of the physicochemical structure of chitin isolated from *Hermetia illucens*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.

NOV 2016, vol. 92, p. 316-320., Registrované v: WOS

54. [1.1] WOODS, M.J. - GOOSEN, N.J. - HOFFMAN, L.C. - PIETERSE, E. A simple and rapid protocol for measuring the chitin content of *Hermetia illucens* (L.) (Diptera: Stratiomyidae) larvae. In JOURNAL OF INSECTS AS FOOD AND FEED. 2020, vol. 6, no. 3, p. 285-290., Registrované v: WOS

55. [1.1] ZHOU, Y.Z. - GE, L.Q. - FAN, N. - XIA, M.S. Adsorption of Congo red from aqueous solution onto shrimp shell powder. In ADSORPTION SCIENCE & TECHNOLOGY. JUL 2018, vol. 36, no. 5-6, p. 1310-1330., Registrované v: WOS

56. [1.2] OYEKUNLE, Daniel T. - OMOLEYE, James A. Extraction, characterization and kinetics of demineralization of chitin produced from snail shells of different particle sizes using 1.2 M HCl. In International Journal of Mechanical Engineering and Technology. ISSN 09766340, 2019-01-01, 10, 1, pp. 2011-2020., Registrované v: SCOPUS

57. [1.2] Rissouli, L., Benicha, M., Chabbi, M. 2016. Contribution to the elimination of Linuron by the adsorption process using Chitin and Chitosan biopolymers. Journal of Materials and Environmental Science Vol. 7, iss. 2, (2016), pp. 531-540, Registrované v: SCOPUS

58. [1.2] SAHEBZADEH, Najmeh - GHAFARI-MOGHADDAM, Mansour - SABAGH, Syed Kazem. Toxicity of N-alkyl derivatives of chitosan obtained from adult of *Chrotogonus trachypterus* (Orthoptera, Acrididae) against the wheat, cabbage and oleander aphid (Hemiptera: Aphididae) species. In Jordan Journal of Biological Sciences. ISSN 19956673, 2017-01-01, 10, 1, pp. 49-55., Registrované v: SCOPUS

ADCA842 MAJTÁN, Juraj - BOHOVÁ, Jana - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav. Methylglyoxal May Affect Hydrogen Peroxide Accumulation in Manuka Honey Through the Inhibition of Glucose Oxidase. In *Journal of Medicinal Food : Official Journal of the Korean Society of Food Science and Nutrition*, 2014, vol. 17, no. 2, p. 290-293. (2013: 1.699 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1096-620X. Dostupné na: <https://doi.org/10.1089/jmf.2012.0201>

Ohlasy:

1. [1.1] BANIHANI, Saleem Ali. Mechanisms of honey on testosterone levels. In HELIYON. ISSN 2405-8440, 2019, vol. 5, no. 7, pp., Registrované v: WOS

2. [1.1] FRAME, Katie - CHEUNG, Isabella M. Y. - WANG, Michael T. M. - TURNBULL, Philip R. - WAITERS, Grant A. - CRAIG, Jennifer P. Comparing the in vitro effects of MGO (TM) Manuka honey and tea tree oil on ocular *Demodex* viability. In CONTACT LENS & ANTERIOR EYE. ISSN 1367-0484, 2018, vol. 41, no. 6, pp. 527-530., Registrované v: WOS

3. [1.1] GIUSTO, Gessica - BERETTA, Giangiacomo - VERCELLI, Cristina - VALLE, Emanuela - IUSSICH, Selina - BORGHI, Roberta - ODETTI, Patrizio - MONACELLI, Fiammetta - TRAMUTA, Clara - GREGO, Elena - NEBBIA, Patrizia - ROBINO, Patrizia - ODORE, Rosangela - GANDINI, Marco. Pectin-honey hydrogel: Characterization, antimicrobial activity and biocompatibility. In BIO-MEDICAL MATERIALS AND ENGINEERING. ISSN 0959-2989, 2018, vol. 29, no. 3, pp. 347-356., Registrované v: WOS

4. [1.1] HALL, Thomas J. - VILLAPUN, Victor M. - ADDISON, Owen

- WEBBER, Mark A. - LOWTHER, Morgan - LOUTH, Sophie E. T. - MOUNTCASTLE, Sophie E. - BRUNET, Mathieu Y. - COX, Sophie C. A call for action to the biomaterial community to tackle antimicrobial resistance. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 18, pp. 4951-4974. Dostupné na: <https://doi.org/10.1039/d0bm01160f>., Registrované v: WOS
5. [1.1] HENATSCH, Darius - DEN HARTOG, Gertjan J. M. - DUIJVESTIJN, Adriaan M. - WOLFFS, Petra F. - PHIELIX, Esther - STOKROOS, Robert J. - BRIEDE, Jacob J. The contribution of alpha-dicarbonyl compound dependent radical formation to the antiseptic effect of honey. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 45, no., pp. 239-246., Registrované v: WOS
6. [1.1] HERMANN, Renee - MATEESCU, Cristina - THRASYVOULOU, Andreas - TANANAKI, Chrysoula - WAGENER, Frank A. D. T. G. - CREMERS, Niels A. J. Defining the standards for medical grade honey. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 2, pp. 125-135. Dostupné na: <https://doi.org/10.1080/00218839.2019.1693713>., Registrované v: WOS
7. [1.1] HRISTOV, Peter - NEOV, Boyko - SHUMKOVA, Rositsa - PALOVA, Nadezhda. Significance of Apoidea as Main Pollinators. Ecological and Economic Impact and Implications for Human Nutrition. In *DIVERSITY-BASEL*, 2020, vol. 12, no. 7, pp. Dostupné na: <https://doi.org/10.3390/d12070280>., Registrované v: WOS
8. [1.1] KIM, Bum-Soo - CHANG, Ji-Youn - KIM, Yoon-Young - KHO, Hong-Seop. The effects of xylitol and sorbitol on lysozyme- and peroxidase-related enzymatic and candidacidal activities. In *ARCHIVES OF ORAL BIOLOGY*. ISSN 0003-9969, 2015, vol. 60, no. 7, pp. 998-1006., Registrované v: WOS
9. [1.1] KWIECINSKA-PIROG, Joanna - PRZEKWAS, Jana - MAJKUT, Michal - SKOWRON, Krzysztof - GOSPODAREK-KOMKOWSKA, Eugenia. Biofilm Formation Reducing Properties of Manuka Honey and Propolis in *Proteus mirabilis* Rods Isolated from Chronic Wounds. In *MICROORGANISMS*, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8111823>., Registrované v: WOS
10. [1.1] LI, Dan - WANG, Meng - CHENG, Ni - XUE, Xiaofeng - WU, Liming - CAO, Wei. A modified FOX-1 method for Micro-determination of hydrogen peroxide in honey samples. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 237, no., pp. 225-231., Registrované v: WOS
11. [1.1] MAHOMOODALLY, Fawzi - SAMOISY, Anne Kathie - SUROOWAN, Shanoo. Ethnozoological practices in Rodrigues island of the Mascarene archipelago. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2019, vol. 245, no., pp., Registrované v: WOS
12. [1.1] MOHAMMED, Mohammed Elimam Ahamed - ALARGANI, Wed - SULEIMAN, Mohamed A. A. - AL-GRAMAH, Hamed Ali. Hydrogen Peroxide and Dicarbonyl Compounds Concentration in Honey Samples from Different Botanical Origins and Altitudes in the South of Saudi Arabia. In *CURRENT RESEARCH IN NUTRITION AND FOOD SCIENCE*. ISSN 2347-467X, 2019, vol. 7, no. 1, pp. 150-160., Registrované v: WOS
13. [1.1] OLIVEIRA, Ana - SOUSA, Jessica C. - SILVA, Ana C. - MELO, Luis D. R. - SILLANKORVA, Sanna. Chestnut Honey and

Bacteriophage Application to Control *Pseudomonas aeruginosa* and *Escherichia coli* Biofilms: Evaluation in an ex vivo Wound Model. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

14. [1.1] PAPADOPOULOU, Dionyssia - DABROWSKA, Alicja - HARRIES, Philip G. - WEBB, Jeremy S. - ALLAN, Raymond N. - SALIB, Rami J. Evaluation of a Bioengineered Honey and Its Synthetic Equivalent as Novel *Staphylococcus aureus* Biofilm-Targeted Topical Therapies in Chronic Rhinosinusitis. In *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*. ISSN 1945-8924, 2020, vol. 34, no. 1, pp. 80-86. Dostupné na: <https://doi.org/10.1177/1945892419874700>., Registrované v: WOS

15. [1.1] PINTO, Ana M. - CERQUEIRA, Miguel A. - BANOBRE-LOPES, Manuel - PASTRANA, Lorenzo M. - SILLANKORVA, Sanna. Bacteriophages for Chronic Wound Treatment: From Traditional to Novel Delivery Systems. In *VIRUSES-BASEL*, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/v12020235>., Registrované v: WOS

16. [1.1] PLEEGING, Carlos C. F. - COENYE, Tom - MOSSIALOS, Dimitris - DE ROOSTER, Hilde - CHRYSOSTOMOU, Daniela - WAGENER, Frank A. D. T. G. - CREMERS, Niels A. J. Synergistic Antimicrobial Activity of Supplemented Medical-Grade Honey against *Pseudomonas aeruginosa* Biofilm Formation and Eradication. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 12, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9120866>., Registrované v: WOS

17. [1.1] ROSHAN, Niloufar - RIPPERS, Thomas - LOCHER, Cornelia - HAMMER, Katherine A. Antibacterial activity and chemical characteristics of several Western Australian honeys compared to manuka honey and pasture honey. In *ARCHIVES OF MICROBIOLOGY*. ISSN 0302-8933, 2017, vol. 199, no. 2, pp. 347-355., Registrované v: WOS

18. [1.1] SINDI, Azhar - CHAWN, Moses Van Bawi - HERNANDEZ, Magda Escorcía - GREEN, Kathryn - ISLAM, Md Khairul - LOCHER, Cornelia - HAMMER, Katherine. Anti-biofilm effects and characterisation of the hydrogen peroxide activity of a range of Western Australian honeys compared to Manuka and multifloral honeys. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

19. [1.1] TSANG, A. S. - DART, A. J. - SOLE-GUITART, A. - DART, C. M. - PERKINS, N. R. - JEFFCOTT, L. B. Comparison of the effects of topical application of UMF20 and UMF5 manuka honey with a generic multifloral honey on wound healing variables in an uncontaminated surgical equine distal limb wound model. In *AUSTRALIAN VETERINARY JOURNAL*. ISSN 0005-0423, 2017, vol. 95, no. 9, pp. 333-337., Registrované v: WOS

20. [1.1] WAHYUNINGTYAS, Eka Sakti - ISWARA, Arya - SARI, Yunita - KAMAL, Sodik - SANTOSA, Budi - ISHIJIMA, Tatsuo - NAKATANI, Toshio - PUTRI, Indri Kartika - NASRUDDIN, N. Comparative study on Manuka and Indonesian honeys to support the application of plasma jet during proliferative phase on wound healing. In *CLINICAL PLASMA MEDICINE*. ISSN 2452-0896, 2018, vol. 12, no., pp. 1-9., Registrované v: WOS

21. [1.1] WILLIAMS, Simon D. - PAPPALARDO, Linda - BISHOP, Josiah - BROOKS, Peter R. Dihydroxyacetone Production in the Nectar of Australian *Leptospermum* Is Species Dependent. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66,

no. 42, pp. 11133-11140., Registrované v: WOS

22. [1.2] CARTER, Dee A. - BLAIR, Shona E. - COKCETIN, Nural N. - BOUZO, Daniel - BROOKS, Peter - SCHOTHAUER, Ralf - HARRY, Elizabeth J. Therapeutic manuka honey: No longer so alternative. In *Frontiers in Microbiology*, 2016-04-20, 7, aPR, pp., Registrované v: SCOPUS

23. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In *Bioengineering*, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS

24. [1.2] MOHAMED, A. S. - ABDAL, M. A. - RAMASAMY, K. - HASAN, M. H. - AIDA HAMIMI, I. - ZOLKAPLI, Eshak. Physicochemical analysis and sugar profiling of Acacia honey. In *Malaysian Journal of Microscopy*. ISSN 18237010, 2018-01-01, 14, 1, pp. 157-164., Registrované v: SCOPUS

25. [1.2] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In *Journal of Tissue Viability*. ISSN 0965206X, 2016-05-01, 25, 2, pp. 98-118., Registrované v: SCOPUS

26. [1.2] SINGHAL, Richa - SIDDIBHAVI, Mahantesh - SANKESHWARI, Roopali - PATIL, Pratibha - JALIHAI, Sagar - ANKOLA, Anil. Effectiveness of three mouthwashes Manuka honey, Raw honey, and Chlorhexidine on plaque and gingival scores of 12-15-year-old school children: A randomized controlled field trial. In *Journal of Indian Society of Periodontology*. ISSN 0972124X, 2018-01-01, 22, 1, pp. 34-39., Registrované v: SCOPUS

ADCA843 MAJTÁN, Juraj - KOGAN, Grigorij - KOVÁČOVÁ, Elena - BÍLIKOVÁ, Katarína - SIMUTH, Jozef. Stimulation of TNF-alpha release by fungal cell wall polysaccharides. In *Zeitschrift fur Naturforschung C-A Journal of Biosciences*, 2005, vol. 60, p. 921-926.

Ohlasy:

1. [1.1] AUNG, Min - OHTSUKA, Hiromichi - IZUMI, Kenichi. Effect of yeast cell wall supplementation on production performances and blood biochemical indices of dairy cows in different lactation periods. In *VETERINARY WORLD*. ISSN 0972-8988, 2019, vol. 12, no. 6, pp. 796-801., Registrované v: WOS

2. [1.1] AUNG, M. - OHTSUKA, H. - IZUMI, K. Short communication: Effect of yeast cell wall supplementation on peripheral leukocyte populations and mRNA expression of cytokines in lactating dairy cows. In *JOURNAL OF DAIRY SCIENCE*. ISSN 0022-0302, JUN 2020, vol. 103, no. 6, p. 5634-5640., Registrované v: WOS

3. [1.1] AWAIS, Mian Muhammad - JAMAL, Muhammad Asif - AKHTAR, Masood - HAMEED, Muhammad Raza - ANWAR, Muhammad Irfan - ULLAH, Muhammad Irfan. Immunomodulatory and ameliorative effects of Lactobacillus and Saccharomyces based probiotics on pathological effects of eimeriasis in broilers. In *MICROBIAL PATHOGENESIS*. ISSN 0882-4010, 2019, vol. 126, no., pp. 101-108., Registrované v: WOS

4. [1.1] ELGHANDOUR, M.M.Y. - TAN, Z.L. - ABU HAFSA, S.H. - ADEGBEYE, M.J. - GREINER, R. - UGBOGU, E.A. - MONROY, J.C. - SALEM, A.Z.M. Saccharomyces cerevisiae as a probiotic feed additive to non and pseudo-ruminant feeding: a review. In *JOURNAL OF APPLIED*

MICROBIOLOGY. ISSN 1364-5072, MAR 2020, vol. 128, no. 3, p. 658-674.,
Registrované v: WOS

5. [1.1] JAHANIAN, E. - MAHDAVI, A. H. - ASGARY, S. -
JAHANIAN, R. - TAJADINI, M. H. Effect of dietary supplementation of
mannan oligosaccharides on hepatic gene expressions and humoral and cellular
immune responses in aflatoxin-contaminated broiler chicks. In PREVENTIVE
VETERINARY MEDICINE. ISSN 0167-5877, 2019, vol. 168, no., pp. 9-18.,
Registrované v: WOS

6. [1.1] KAGIMURA, Francini Yumi - DA CUNHA, Mario Antonio A.
- BARBOSA, Aneli M. - DEKKER, Robert F. H. - MANECK Malfatti,
Carlos Ricardo. Biological activities of derivatized D-glucans: A review. In
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.
ISSN 0141-8130, 2015, vol. 72, no., pp. 588-598., Registrované v: WOS

7. [1.1] LIEPINS, Janis - KOVACOVA, Elena - SHVIRKSTS, Karlis -
GRUBE, Mara - RAPOPORT, Alexander - KOGAN, Grigorij. Drying enhances
immunoactivity of spent brewer's yeast cell wall beta-D-glucans. In JOURNAL
OF BIOTECHNOLOGY. ISSN 0168-1656, 2015, vol. 206, no., pp. 12-16.,
Registrované v: WOS

8. [1.1] NASIRI, K. - SADEGHI, A.A. - NIKKHAH, A. - CHAMANI,
M. Effects of live and hydrolyzed yeast supplementation during transition period
on blood IgG content and INF-gamma gene expression in dairy cows. In
JOURNAL OF LIVESTOCK SCIENCE. 2018, vol. 9, p. 65-69., Registrované v:
WOS

9. [1.1] PUNETHA, M. - ROY, A.K. - AJITHAKUMAR, H.M. -
PARA, I.A. - GUPTA, D. - SINGH, M. - BHARATI, J. Immunomodulatory
effects of probiotics and prilled fat supplementation on immune genes expression
and lymphocyte proliferation of transition stage Karan Fries cows. In
VETERINARY WORLD. FEB 2018, vol. 11, no. 2, p. 209-214., Registrované v:
WOS

10. [1.1] VILLAFANE, L. - FORRELLAD, M.A. - LOPEZ, M.G. -
GARBACCIO, S. - GARRO, C. - ROCHA, R.V. - EIRIN, M.E. - SINGH, M. -
TABOGA, O.A. - BIGI, F. Production of Mycobacterium bovis Antigens
Included in Recombinant Occlusion Bodies of Baculovirus. In JOURNAL OF
MOLECULAR MICROBIOLOGY AND BIOTECHNOLOGY. ISSN
1464-1801, JUL 2020, vol. 29, no. 1-6, p. 83-90., Registrované v: WOS

11. [1.2] YOUNG, T. R. - RIBEIRO, F. R.B. - SANCHEZ, N. C. Burdick
- CARROLL, J. A. - JENNINGS, M. A. - CRIBBS, J. T. - RATHMANN, R. J. -
CORLEY, J. R. - JOHNSON, B. J. Yeast cell wall supplementation alters the
performance and health of beef heifers during the receiving period. In
Professional Animal Scientist. ISSN 10807446, 2017-04-01, 33, 2, pp. 166-175.,
Registrované v: SCOPUS

ADCA844 MAJZÚNOVÁ, Miroslava - PAKANOVÁ, Zuzana - KVASNIČKA, Peter -
BALIŠ, Peter - ČAČÁNYIOVÁ, Soňa - DOVINOVÁ, Ima. Age-dependent redox
status in the brain stem of NO-deficient hypertensive rats. In *Journal of Biomedical
Science*, 2017, vol. 24, art. no. 72, 14 p. (2016: 2.799 - IF, Q2 - JCR, 1.221 - SJR,
Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1021-7770.
Dostupné na: <https://doi.org/10.1186/s12929-017-0366-4>

Ohlasy:

1. [1.1] ALLY, A. - POWELL, I. - ALLY, M.M. - CHAITOFF, K. -

NAULI, S.M. Role of neuronal nitric oxide synthase on cardiovascular functions in physiological and pathophysiological states. In NITRIC OXIDE-BIOLOGY AND CHEMISTRY. ISSN 1089-8603, SEP 1 2020, vol. 102, p. 52-73.,

Registrované v: WOS

2. [1.1] CERVANTES-ARAGON, I. - RAMIREZ-GARCIA, S.A. - BALTAZAR-RODRIGUEZ, L.M. - GARCIA-CRUZ, D. -

CASTANEDA-CISNEROS, G. Genetic approximation in amyotrophic lateral sclerosis. In GACETA MEDICA DE MEXICO. ISSN 0016-3813, SEP-OCT 2019, vol. 155, no. 5, p. 513-521., Registrované v: WOS

3. [1.1] LIANG, Y. - KAGOTA, S. - MARUYAMA, K. - OONISHI, Y. - MIYAUCHI-WAKUDA, S. - ITO, Y. - YAMADA, S. - SHINOZUKA, K.

Royal jelly increases peripheral circulation by inducing vasorelaxation through nitric oxide production under healthy conditions. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, OCT 2018, vol. 106, p. 1210-1219., Registrované v: WOS

4. [3.1] PECHANOVA, O. - VRANKOVA, S. - CEBOVA, M. Chronic L-Name-Treatment Produces Hypertension by Different Mechanisms in Peripheral Tissues and Brain: Role of Central eNOS. In PATHOPHYSIOLOGY, 2020, vol. 27(1), p. 46-54. <https://doi.org/10.3390/pathophysiology27010007>

5. [3.1] Rizvi S.M.S., Mahdi F., Mahdi A.A., Jafar T., Rizvi S. Personalized medicine: role of asymmetric dimethylarginine as a predictive marker of CAD. In ERA'S JOURNAL OF MEDICAL RESEARCH, 2020, vol. 7(1): 1-6., Registrované v: Research Gate

ADCA845 MALECOVÁ, B. - RAMSER, J. - O'BRIEN, J.K. - JANITZ, M. - JÚDOVÁ, J. - LEHRACH, H. - ŠIMÚTH, Jozef. Honeybee (*Apis mellifera* L.) mrjp gene family: computational analysis of putative promoters and genomic structure of mrjp, the gene coding for the most abundant protein of larval food. In *Gene*, 2003, vol. 303, p. 165-175. ISSN 0378-1119. Dostupné na: [https://doi.org/10.1016/S0378-1119\(02\)01174-5](https://doi.org/10.1016/S0378-1119(02)01174-5)

Ohlasy:

1. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikui - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS

2. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS

3. [1.1] CHEN, Di - LIU, Fang - WAN, Jian-Bo - LAI, Chao-Qiang - SHEN, Li-rong. Effect of Major Royal Jelly Proteins on Spatial Memory in Aged Rats: Metabolomics Analysis in Urine. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 15, pp. 3151-3159., Registrované v: WOS

4. [1.1] CHEN, Di - XIN, Xiao-xuan - QIAN, Hao-cheng - YU, Zhang-yin - SHEN, Li-rong. Evaluation of the major royal jelly proteins as an alternative to fetal bovine serum in culturing human cell lines. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2016, vol. 17, no. 6,

pp. 476-483., Registrované v: WOS

5. [1.1] JIANG, Chen-min - LIU, Xin - LI, Chun-xue - QIAN, Hao-cheng - CHEN, Di - LAI, Chao-qiang - SHEN, Li-rong. Anti-senescence effect and molecular mechanism of the major royal jelly proteins on human embryonic lung fibroblast (HFL-I) cell line. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2018, vol. 19, no. 12, pp.

960-972., Registrované v: WOS

6. [1.1] LIU, Fang - SHI, Tengfei - QI, Lei - SU, Xin - WANG, Deqian - DONG, Jie - HUANG, Zachary Y. lncRNA profile of *Apis mellifera* and its possible role in behavioural transition from nurses to foragers. In BMC GENOMICS. ISSN 1471-2164, 2019, vol. 20, no., pp., Registrované v: WOS

7. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

8. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS

9. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS

10. [1.1] WINKLER, Paul - SIEG, Frank - BUTTSTEDT, Anja. Transcriptional Control of Honey Bee (*Apis mellifera*) Major Royal Jelly Proteins by 20-Hydroxyecdysone. In INSECTS. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS

11. [3.2] Group Author(s). Uniprot Consortium. O18330. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/O18330>, Registrované v: Data Citation Index

ADCA846 MALKINA, Oľga - HRICOVÍNĽ, Miloš - BÍŽIK, F. - MALKIN, Vladimír. Chemical shifts and spin-spin coupling constants in Me alpha-D-xylopyranoside: A DFT approach. In *Journal of Physical Chemistry A*. Molecules, spectroscopy, kinetics, environment, and general theory, 2001, vol. 105, no. 40, p. 9188-9195. ISSN 1089-5639. Dostupné na: <https://doi.org/10.1021/jp004630t>

Ohlasy:

1. [1.1] GERBST, Alexey G. - KRYLOV, Vadim B. - ARGUNOV, Dmitry A. - SOLOVEV, Arsenii S. - DMITRENOK, Andrey S. - SHASHKOV, Alexander S. - NIFANTIEV, Nikolay E. Ring distortion in pyranosides caused by per-O-sulfation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 436, no., pp. 20-24., Registrované v: WOS

ADCA847 MALOVÍKOVÁ, Anna - KOHN, Rudolf. Binding of cadmium cations to pectin. In *Collection of Czechoslovak Chemical Communications*, 1982, vol. 47, p. 702-708. ISSN 0010-0765.

Ohlasy:

1. [1.1] PARROTTA, Luigi - GUERRIERO, Gea - SERGEANT, Kjell - CAL, Giampiero - HAUSMAN, Jean-Francois. Target or barrier? The cell wall of early- and later-diverging plants vs cadmium toxicity: differences in the response mechanisms. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
2. [3.1] ENDRESS, HU (Endress, Hans Ulrich); MATTES, F (Mattes, Frank). Pectin. In *DIETARY FIBER AND HEALTH*. p. 385-408.
3. [3.1] ENDRESS, HU (Endress, H. U.). Pectins: Production, Properties and Applications. In *RENEWABLE RESOURCES FOR FUNCTIONAL POLYMERS AND BIOMATERIALS*. Book Series Title: RSC Polymer Chemistry Series, 2015, iss. 1, p. 210-260.

ADCA848 MALOVÍKOVÁ, Anna - RINAUDO, M. - MILAS, M. Comparative interactions of magnesium and calcium counterions with polygalacturonic acid. In *Biopolymers*, 1994, vol. 34, p. 1059-1064. ISSN 0006-3525. Dostupné na: <https://doi.org/10.1002/bip.360340809>

Ohlasy:

1. [1.1] GUO, Xiaoming - ZHANG, Tao - MENG, Hecheng - YU, Shujuan. Ethanol precipitation of sugar beet pectins as affected by electrostatic interactions between counter ions and pectin chains. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 65, no., pp. 187-197., Registrované v: WOS
2. [1.1] HAAS, Christoph - HOLTHUSEN, Dorte - HORN, Rainer. Biological Alteration of Flow Properties of Soil Samples From Two Bt Horizons of a Haplic Luvisol Determined With Rheometry. In *FRONTIERS IN ENVIRONMENTAL SCIENCE*, 2018, vol. 6, no., pp., Registrované v: WOS
3. [1.1] HUYNH, Uyen T. D. - LERBRET, Adrien - NEIERS, Fabrice - CHAMBIN, Odile - ASSIFAOU, Ali. Binding of Divalent Cations to Polygalacturonate: A Mechanism Driven by the Hydration Water. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2016, vol. 120, no. 5, pp. 1021-1032., Registrované v: WOS
4. [1.1] MYUNG, Dan-bi - HUSSAIN, Saddam - PARK, Soo-Young. Photonic calcium and humidity array sensor prepared with reactive cholesteric liquid crystal mesogens. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2019, vol. 298, no., pp., Registrované v: WOS
5. [1.1] PRESLAR, Adam T. - LILLEY, Laura M. - SATO, Kohei - ZHANG, Shanrong - CHIA, Zer Keen - STUPP, Samuel I. - MEADE, Thomas J. Calcium-Induced Morphological Transitions in Peptide Amphiphiles Detected by F-19-Magnetic Resonance Imaging. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2017, vol. 9, no. 46, pp. 39890-39894., Registrované v: WOS
6. [1.1] ZHAO, Yun - LI, Mingjie - QIU, Jun - KONG, Qingshan - ZHANG, Yue - LI, Chaoxu. Alginate-assisted synthesis of hollow microfibers assembled by SnO₂ nanoparticles. In *MATERIALS & DESIGN*. ISSN 0264-1275, 2016, vol. 101, no., pp. 317-322., Registrované v: WOS

ADCA849 MALOVÍKOVÁ, Anna - RINAUDO, M. - MILAS, M. On the characterization of polygalacturonate salts in dilute solution. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1993, vol. 22,

p. 87-92. ISSN 0144-8617. Dostupné na:
[https://doi.org/10.1016/0144-8617\(93\)90070-K](https://doi.org/10.1016/0144-8617(93)90070-K)

Ohlasy:

1. [1.1] Mansel, BW (Mansel, Bradley W.); Chu, CY (Chu, Che-Yi); Leis, A (Leis, Andrew); Hemar, Y (Hemar, Yacine); Chen, HL (Chen, Hsin-Lung); Lundin, L (Lundin, Leif); Williams, MAK (Williams, Martin A. K.): Zooming in: Structural Investigations of Rheologically Characterized Hydrogen-Bonded Low-Methoxyl Pectin Networks. In: BIOMACROMOLECULES Volume: 16 Issue: 10 Pages: 3209-3216, Registrované v: WOS
2. [1.1] PETKOWICZ, C. L. O. - VRIESMANN, L. C. - WILLIAMS, P. A. Pectins from food waste: Extraction, characterization and properties of watermelon rind pectin. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 65, no., pp. 57-67., Registrované v: WOS
3. [1.2] DA SILVA, J. A. Lopes - RAO, M. A. Pectins: Structure, functionality, and uses. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 353-411., Registrované v: SCOPUS

ADCA850 MALOVÍKOVÁ, Anna - HAYAKAWA, K. - KWAK, J.C.T.

Surfactant-polyelectrolyte interactions. IV. Surfactant chain length dependence of the binding of alkylpyridinium cation to dextran sulfate. In *Journal of physical chemistry*, 1984, vol. 88, p. 1930-1933. ISSN 0022-3654.

Ohlasy:

1. [1.1] ALI, Anwar - UZAIR, Sahar - FAROOQ, Ummer - ALI, Maroof. Effect of tartrazine dye on micellisation of cationic surfactants: conductometric, spectrophotometric, and tensiometric studies. In COLORATION TECHNOLOGY. ISSN 1472-3581, 2016, vol. 132, no. 5, pp. 376-386., Registrované v: WOS
2. [1.1] DE SILVA, Udaka K. - BROWN, Jennifer L. - LAPITSKY, Yakov. Poly(allylamine)/tripolyphosphate coacervates enable high loading and multiple-month release of weakly amphiphilic anionic drugs: an in vitro study with ibuprofen. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 35, pp. 19409-19419., Registrované v: WOS
3. [1.1] TENNOUGA, L. - MEDJAHED, K. - MANSRI, A. Synthesis, characterization and study of copolymer/surfactant mixture in aqueous solution by conductivity and viscosity techniques. In MOROCCAN JOURNAL OF CHEMISTRY. ISSN 2351-812X, 2016, vol. 4, no. 3, pp. 661-668., Registrované v: WOS
4. [1.1] WORTHEN, Andrew J. - IRVING, Kelly S. - LAPITSKY, Yakov. Supramolecular Strategy Effects on Chitosan Bead Stability in Acidic Media: A Comparative Study. In GELS, 2019, vol. 5, no. 1, pp., Registrované v: WOS
5. [1.1] ZAKHAROVA, Julia A. - NOVOSKOLTSEVA, Olga A. - PYSHKINA, Olga A. - KARPUSHKIN, Evgeny A. - SERGEYEV, Vladimir G. Controlled modification of Nafion membrane with cationic surfactant. In COLLOID AND POLYMER SCIENCE. ISSN 0303-402X, 2018, vol. 296, no. 5, pp. 835-846., Registrované v: WOS
6. [1.2] ALI, Anwar - UZAIR, Sahar - FAROOQ, Ummer. Interactions of cationic, anionic and nonionic surfactants with cresol red dye in aqueous solutions: Conductometric, tensiometric, and spectroscopic studies. In Tenside,

Surfactants, Detergents. ISSN 09323414, 2017-07-01, 54, 4, pp. 342-352.,
Registrované v: SCOPUS

7. [1.2] GODDARD, E. D. Applications of polymer-surfactant systems.
In Interactions of Surfactants with Polymers and Proteins, 2018-01-01, pp.
395-414., Registrované v: SCOPUS

8. [1.2] GODDARD, E. D. Polymer-surfactant interaction: Part II:
Polymer and surfactant of opposite charge. In Interactions of Surfactants with
Polymers and Proteins, 2018-01-01, pp. 171-202., Registrované v: SCOPUS

9. [1.2] CHIAPPISI, Leonardo - GRADZIELSKI, Michael.
Co-assembly in chitosan-surfactant mixtures: Thermodynamics, structures,
interfacial properties and applications. In Advances in Colloid and Interface
Science. ISSN 00018686, 2015-06-01, 220, pp. 92-107., Registrované v:
SCOPUS

10. [1.2] JABEEN, Suraya - CHAT, Oyais Ahmad - MASWAL, Masrat -
ASHRAF, Uzma - RATHER, Ghulam Mohammad - DAR, Aijaz Ahmad.
Hydrogels of sodium alginate in cationic surfactants: Surfactant dependent
modulation of encapsulation/release toward Ibuprofen. In Carbohydrate
Polymers. ISSN 01448617, 2015-07-24, 133, pp. 144-153., Registrované v:
SCOPUS

11. [1.2] RABIEE, Ahmad - ERSHAD-LANGROUDI, Amir -
ZEYNALI, Mohammad Ebrahim. A survey on cationic polyelectrolytes and their
applications: Acrylamide derivatives. In Reviews in Chemical Engineering. ISSN
01678299, 2015-01-01, 31, 3, pp. 239-261., Registrované v: SCOPUS

12. [1.2] XU, Lu - FENG, Lei - HAO, Jingcheng - DONG, Shuli.
Compaction and decompaction of DNA dominated by the competition between
counterions and DNA associating with cationic aggregates. In Colloids and
Surfaces B: Biointerfaces. ISSN 09277765, 2015-10-01, 134, pp. 105-112.,
Registrované v: SCOPUS

ADCA851 MARCUS, S.E. - VERHERTBRUGGEN, Y. - HERVÉ, C. - ORDAZ-ORTIZ,
J.J. - FARKAŠ, Vladimír - PEDERSEN, H.L. - WILLATS, W.G.T. - KNOX, J.P.
Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell
walls. In *Plant biology*, 2008, vol. 8, art. No. 60, 12 p. (2007: 2.012 - IF, Q1 - JCR,
1.197 - SJR, Q1 - SJR). ISSN 1435-8603. Dostupné na:
<https://doi.org/10.1186/1471-2229-8-60>

Ohlasy:

1. [1.1] AMANDA, Dhika - DOBLIN, Monika S. - GALLETTI,
Roberta - BACIC, Antony - INGRAM, Gwyneth C. - JOHNSON, Kim L.
DEFECTIVE KERNEL1 (DEK1) Regulates Cell Walls in the Leaf Epidermis. In
PLANT PHYSIOLOGY. ISSN 0032-0889, 2016, vol. 172, no. 4, pp. 2204-2218.,
Registrované v: WOS

2. [1.1] ANDERSON, Charles T. We be jammin': an update on pectin
biosynthesis, trafficking and dynamics. In JOURNAL OF EXPERIMENTAL
BOTANY. ISSN 0022-0957, 2016, vol. 67, no. 2, pp. 495-502., Registrované v:
WOS

3. [1.1] BAI, Yun - WU, Dan - LIU, Fei - LI, Yuyang - CHEN, Peng -
LU, Mengzhu - ZHENG, Bo. Characterization and Functional Analysis of the
Poplar Pectate Lyase-Like Gene PtPL1-18 Reveal Its Role in the Development of
Vascular Tissues. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X,
2017, vol. 8, no., pp., Registrované v: WOS

4. [1.1] BASINSKA-BARCZAK, Aneta - BLASZCZYK, Lidia - SZENTNER, Kinga. Plant Cell Wall Changes in Common Wheat Roots as a Result of Their Interaction with Beneficial Fungi of Trichoderma. In CELLS, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102319>., Registrované v: WOS
5. [1.1] BERRY, Elizabeth A. - TRAN, Mai L. - DIMOS, Christos S. - BUDZISZEK, Michael J. - SCAVUZZO-DUGGAN, Tess R. - ROBERTS, Alison W. Immuno and Affinity Cytochemical Analysis of Cell Wall Composition in the Moss Physcomitrella patens. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
6. [1.1] BIDHENDI, A. J. - CHEBLI, Y. - GEITMANN, A. Fluorescence visualization of cellulose and pectin in the primary plant cell wall. In JOURNAL OF MICROSCOPY. ISSN 0022-2720, 2020, vol. 278, no. 3, pp. 164-181. Dostupné na: <https://doi.org/10.1111/jmi.12895>., Registrované v: WOS
7. [1.1] BONA, Cleusa - DE CHIARA MOCO, Maria Cecilia - MASTROBERTI, Alexandra Antunes. Cytological aspects during the stretching of collapsed cells in the root aerenchyma of Potamogeton polygonus Cham. & Schltdl. (Potamogetonaceae). In FLORA. ISSN 0367-2530, 2018, vol. 239, no., pp. 151-158., Registrované v: WOS
8. [1.1] BRAGANCA, G. P. P. - ALENCAR, C. F. - FREITAS, M. S. C. - ISAIAS, R. M. S. Hemicelluloses and associated compounds determine gall functional traits. In PLANT BIOLOGY. ISSN 1435-8603, 2020, vol. 22, no. 6, pp. 981-991. Dostupné na: <https://doi.org/10.1111/plb.13151>., Registrované v: WOS
9. [1.1] BRENNAN, Maree - FAKHARUZI, Diyana - HARRIS, Philip J. Occurrence of fucosylated and non-fucosylated xyloglucans in the cell walls of monocotyledons: An immunofluorescence study. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2019, vol. 139, no., pp. 428-434., Registrované v: WOS
10. [1.1] CANAVEZE, Yve - MASTROBERTI, Alexandra Antunes - DE ARAUJO MARIATH, Jorge Ernesto - MACHADO, Silvia Rodrigues. Cytological differentiation and cell wall involvement in the growth mechanisms of articulated laticifers in Tabernaemontana catharinensis A.DC. (Apocynaceae). In PROTOPLASMA. ISSN 0033-183X, 2019, vol. 256, no. 1, pp. 131-146., Registrované v: WOS
11. [1.1] CAROLYN, J. Schultz - LIM, Wai L. - KHOR, Shi F. - NEUMANN, Kylie A. - SCHULZ, Jakob M. - ANSARI, Omid - SKEWES, Mark A. - BURTON, Rachel A. Consumer and health-related traits of seed from selected commercial and breeding lines of industrial hemp, Cannabis sativa L. In JOURNAL OF AGRICULTURE AND FOOD RESEARCH. ISSN 2666-1543, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.jafr.2020.100025>., Registrované v: WOS
12. [1.1] CARRERAS, Alexis - BERNARD, Sophie - DURAMBUR, Gaelle - GUGI, Bruno - LOUTELIER, Corinne - PAWLAK, Barbara - BOULOGNE, Isabelle - VICRE, Maite - DRIOUICH, Azeddine - GOFFNER, Deborah - FOLLET-GUEYE, Marie-Laure. In vitro characterization of root extracellular trap and exudates of three Sahelian woody plant species. In PLANTA. ISSN 0032-0935, 2020, vol. 251, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00425-019-03302-3>., Registrované v: WOS
13. [1.1] COLLINS, Patrick P. - O'DONOGHUE, Erin M. - REBSTOCK,

- Ria - TIFFIN, Heather R. - SUTHERLAND, Paul W. - SCHROEDER, Roswitha - MCATEE, Peter A. - PRAKASH, Roneel - IRELAND, Hilary S. - JOHNSTON, Jason W. - ATKINSON, Ross G. - SCHAFFER, Robert J. - HALLETT, Ian C. - BRUMMELL, David A. Cell type-specific gene expression underpins remodelling of cell wall pectin in exocarp and cortex during apple fruit development. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2019, vol. 70, no. 21, pp. 6085-6099., Registrované v: WOS
14. [1.1] CORRAL-MARTINEZ, Patricia - GARCIA-FORTEA, Edgar - BERNARD, Sophie - DRIOUICH, Azeddine - SEGUI-SIMARRO, Jose M. Ultrastructural Immunolocalization of Arabinogalactan Protein, Pectin and Hemicellulose Epitopes Through Anther Development in Brassica napus. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2016, vol. 57, no. 10, pp. 2161-2174., Registrované v: WOS
15. [1.1] CORRAL-MARTINEZ, Patricia - DRIOUICH, Azeddine - SEGUI-SIMARRO, Jose M. Dynamic Changes in Arabinogalactan-Protein, Pectin, Xyloglucan and Xylan Composition of the Cell Wall During Microspore Embryogenesis in Brassica napus. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
16. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS
17. [1.1] DAMMAK, Abir - QUEMENER, Bernard - BONNIN, Estelle - ALVARADO, Camille - BOUCHET, Brigitte - VILLARES, Ana - MOREAU, Celine - CATHALA, Bernard. Exploring Architecture of Xyloglucan Cellulose Nanocrystal Complexes through Enzyme Susceptibility at Different Adsorption Regimes. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 2, pp. 589-596., Registrované v: WOS
18. [1.1] DARDELLE, Flavien - LE MAUFF, Francois - LEHNER, Arnaud - LOUTELIER-BOURHIS, Corinne - BARDOR, Muriel - RIHOUEY, Christophe - CAUSSE, Mathilde - LEROUGE, Patrice - DRIOUICH, Azeddine - MOLLET, Jean-Claude. Pollen tube cell walls of wild and domesticated tomatoes contain arabinosylated and fucosylated xyloglucan. In ANNALS OF BOTANY. ISSN 0305-7364, 2015, vol. 115, no. 1, pp. 55-66., Registrované v: WOS
19. [1.1] DECOU, Raphael - LABROUSSE, Pascal - BERE, Emile - FLEURAT-LESSARD, Pierrette - KRAUSZ, Pierre. Structural features in tension wood and distribution of wall polymers in the G-layer of in vitro grown poplars. In PROTOPLASMA. ISSN 0033-183X, 2020, vol. 257, no. 1, pp. 13-29. Dostupné na: <https://doi.org/10.1007/s00709-019-01416-9>., Registrované v: WOS
20. [1.1] DEHORS, Jeremy - MARECK, Alain - KIEFER-MEYER, Marie-Christine - MENU-BOUAOUICHE, Laurence - LEHNER, Arnaud - MOLLET, Jean-Claude. Evolution of Cell Wall Polymers in Tip-Growing Land Plant Gametophytes: Composition, Distribution, Functional Aspects and Their Remodeling. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS
21. [1.1] DHEILLY, Emmanuelle - LE GALL, Sophie - GUILLOU, Marie-Charlotte - RENOU, Jean-Pierre - BONNIN, Estelle - ORSEL, Mathilde -

LAHAYE, Marc. Cell wall dynamics during apple development and storage involves hemicellulose modifications and related expressed genes. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2016, vol. 16, no., pp., Registrované v: WOS

22. [1.1] FERNANDES, Joao C. - GOULAO, Luis F. - AMANCIO, Sara. Regulation of cell wall remodeling in grapevine (*Vitis vinifera* L.) callus under individual mineral stress deficiency. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 190, no., pp. 95-105., Registrované v: WOS

23. [1.1] FERNANDES, J. C. - GOULAO, L. F. - AMANCIO, S. Immunolocalization of cell wall polymers in grapevine (*Vitis vinifera*) internodes under nitrogen, phosphorus or sulfur deficiency. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2016, vol. 129, no. 6, pp. 1151-1163., Registrované v: WOS

24. [1.1] FERREIRA, Bruno G. - BRAGANCA, Gracielle P. - ISAIAS, Rosy M. S. Cytological attributes of storage tissues in nematode and eriophyid galls: pectin and hemicellulose functional insights. In PROTOPLASMA. ISSN 0033-183X, 2020, vol. 257, no. 1, pp. 229-244. Dostupné na: <https://doi.org/10.1007/s00709-019-01431-w>., Registrované v: WOS

25. [1.1] FLORES-BORGES, Denisele N. A. - MASTROBERTI, Alexandra A. - BONA, Cleusa. Ontogeny and distribution of cell-wall glycans during aerenchyma formation in roots of *Pistia stratiotes* (Araceae). In BOTANICAL JOURNAL OF THE LINNEAN SOCIETY. ISSN 0024-4074, 2016, vol. 180, no. 3, pp. 401-412., Registrované v: WOS

26. [1.1] FROST, Jovyn K. T. - FLANAGAN, Bernadine M. - BRUMMELL, David A. - O'DONOGHUE, Erin M. - MISHRA, Suman - GIDLEY, Michael J. - MONRO, John A. Composition and structure of tuber cell walls affect in vitro digestibility of potato (*Solanum tuberosum* L.). In FOOD & FUNCTION. ISSN 2042-6496, 2016, vol. 7, no. 10, pp. 4202-4212., Registrované v: WOS

27. [1.1] GAVRIN, Aleksandr - REY, Thomas - TORODE, Thomas A. - TOULOTTE, Justine - CHATTERJEE, Abhishek - KAPLAN, Jonathan Louis - EVANGELISTI, Edouard - TAKAGI, Hiroki - CHAROENSAWAN, Varodom - RENGEL, David - JOURNET, Etienne-Pascal - DEBELLE, Frederic - DE CARVALHO-NIEBEL, Fernanda - TERAUCHI, Ryohei - BRAYBROOK, Siobhan - SCHORNACK, Sebastian. Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen. In CURRENT BIOLOGY. ISSN 0960-9822, 2020, vol. 30, no. 21, pp. 4165-+. Dostupné na: <https://doi.org/10.1016/j.cub.2020.08.011>., Registrované v: WOS

28. [1.1] GORSHKOVA, Tatyana - MOKSHINA, Natalia - CHERNOVA, Tatyana - IBRAGIMOVA, Nadezhda - SALNIKOV, Vadim - MIKSHINA, Polina - TRYFONA, Theodora - BANASIAK, Alicja - IMMERZEEL, Peter - DUPREE, Paul - MELLEROWICZ, Ewa J. Aspen Tension Wood Fibers Contain beta-(1>4)-Galactans and Acidic Arabinogalactans Retained by Cellulose Microfibrils in Gelatinous Walls. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 169, no. 3, pp. 2048-2063., Registrované v: WOS

29. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

30. [1.1] GUILLON, Fabienne - MOISE, Adeline - QUEMENER, Bernard - BOUCHET, Brigitte - DEVAUX, Marie-Francoise - ALVARADO, Camille - LAHAYE, Marc. Remodeling of pectin and hemicelluloses in tomato pericarp during fruit growth. In PLANT SCIENCE. ISSN 0168-9452, 2017, vol. 257, no., pp. 48-62., Registrované v: WOS
31. [1.1] HENRY, Jason S. - LOPEZ, Renee A. - RENZAGLIA, Karen S. Differential localization of cell wall polymers across generations in the placenta of *Marchantia polymorpha*. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2020, vol. 133, no. 6, pp. 911-924. Dostupné na: <https://doi.org/10.1007/s10265-020-01232-w>, Registrované v: WOS
32. [1.1] HERBETTE, Stephane - BOUCHET, Brigitte - BRUNEL, Nicole - BONNIN, Estelle - COCHARD, Herve - GUILLON, Fabienne. Immunolabelling of intervessel pits for polysaccharides and lignin helps in understanding their hydraulic properties in *Populus tremula x alba*. In ANNALS OF BOTANY. ISSN 0305-7364, 2015, vol. 115, no. 2, pp. 187-199., Registrované v: WOS
33. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS
34. [1.1] HONTA, Hideyuki - INAMURA, Takuya - KONISHI, Teruko - SATOH, Shinobu - IWAI, Hiroaki. UDP-arabinopyranose mutase gene expressions are required for the biosynthesis of the arabinose side chain of both pectin and arabinoxyloglucan, and normal leaf expansion in *Nicotiana tabacum*. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2018, vol. 131, no. 2, pp. 307-317., Registrované v: WOS
35. [1.1] CHATEIGNER-BOUTIN, Anne-Laure - SULIMAN, Muhtadi - BOUCHET, Brigitte - ALVARADO, Camille - LOLLIER, Virginie - ROGNIAUX, Helene - GUILLON, Fabienne - LARRE, Colette. Endomembrane proteomics reveals putative enzymes involved in cell wall metabolism in wheat grain outer layers. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 9, pp. 2649-2658., Registrované v: WOS
36. [1.1] CHEN, Da - HARRIS, Philip J. - SIMS, Ian M. - ZUJOVIC, Zoran - MELTON, Laurence D. Polysaccharide compositions of collenchyma cell walls from celery (*Apium graveolens* L.) petioles. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2017, vol. 17, no., pp., Registrované v: WOS
37. [1.1] CHEN, Da - MELTON, Laurence D. - ZUJOVIC, Zoran - HARRIS, Philip J. Developmental changes in collenchyma cell-wall polysaccharides in celery (*Apium graveolens* L.) petioles. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no., pp., Registrované v: WOS
38. [1.1] CHERNOVA, Tatyana - AGEEVA, Marina - MIKSHINA, Polina - TROFIMOVA, Oksana - KOZLOVA, Liudmila - LEV-YADUN, Simcha - GORSHKOVA, Tatyana. The Living Fossil *Psilotum nudum* Has Cortical Fibers With Mannan-Based Cell Wall Matrix. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00488>, Registrované v: WOS
39. [1.1] CHERNOVA, T. E. - MIKSHINA, P. V. - SALNIKOV, V. V. - IBRAGIMOVA, N. N. - SAUTKINA, O. V. - GORSHKOVA, T. A. Development of distinct cell wall layers both in primary and secondary phloem

fibers of hemp (*Cannabis sativa* L.). In **INDUSTRIAL CROPS AND PRODUCTS**. ISSN 0926-6690, 2018, vol. 117, no., pp. 97-109., Registrované v: WOS

40. [1.1] IBRAGIMOVA, Nadezda - MOKSHINA, Natalia - AGEEVA, Marina - GURJANOV, Oleg - MIKSHINA, Polina. Rearrangement of the Cellulose-Enriched Cell Wall in Flax Phloem Fibers over the Course of the Gravitropic Reaction. In **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**, 2020, vol. 21, no. 15, pp. Dostupné na: <https://doi.org/10.3390/ijms21155322>., Registrované v: WOS

41. [1.1] IZQUIERDO, Lucia - MARTIN, Ignacio - ALBORNOS, Lucia - HERNANDEZ-NISTAL, Josefina - HUESO, Pablo - DOPICO, Berta - LABRADOR, Emilia. Overexpression of *Cicer arietinum* beta III-Gal but not beta IV-Gal in *arabidopsis* causes a reduction of cell wall beta-(1,4)-galactan compensated by an increase in homogalacturonan. In **JOURNAL OF PLANT PHYSIOLOGY**. ISSN 0176-1617, 2018, vol. 231, no., pp. 135-146., Registrované v: WOS

42. [1.1] JI, Li - JIE, Zhenjing - YING, Xin - YUE, Qi - ZHOU, Yifa - SUN, Lin. Structural characterization of alkali-soluble polysaccharides from *Panax ginseng* C. A. Meyer. In **ROYAL SOCIETY OPEN SCIENCE**. ISSN 2054-5703, 2018, vol. 5, no. 3, pp., Registrované v: WOS

43. [1.1] KAIDA, Rumi - SASAKI, Yuya - OZAKI, Kaho - BABA, Kei'ichi - MOMOI, Takao - OHBAYASHI, Hiroya - TAJI, Teruaki - SAKATA, Yoichi - HAYASHI, Takahisa. Intake of Radionuclides in the Trees of Fukushima Forests 5. Earthquake Could Have Caused an Increase in Xyloglucan in Trees dagger. In **FORESTS**, 2020, vol. 11, no. 9, pp. Dostupné na: <https://doi.org/10.3390/f11090966>., Registrované v: WOS

44. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. VARIATIONS IN CELL WALL ULTRASTRUCTURE AND CHEMISTRY IN CELL TYPES OF EARLYWOOD AND LATEWOOD IN ENGLISH OAK (*QUERCUS ROBUR*). In **IAWA JOURNAL**. ISSN 0928-1541, 2016, vol. 37, no. 3, pp. 383-401., Registrované v: WOS

45. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. DISTRIBUTION OF PHENOLIC COMPOUNDS, PECTINS AND HEMICELLULOSES IN MATURE PIT MEMBRANES AND ITS VARIATION BETWEEN PIT TYPES IN ENGLISH OAK XYLEM (*QUERCUS ROBUR*). In **IAWA JOURNAL**. ISSN 0928-1541, 2016, vol. 37, no. 3, pp. 402-419., Registrované v: WOS

46. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Immunolocalization of pectin and hemicellulose epitopes in the phloem of Norway spruce and Scots pine. In **TREES-STRUCTURE AND FUNCTION**. ISSN 0931-1890, 2017, vol. 31, no. 4, pp. 1335-1353., Registrované v: WOS

47. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Heterogeneous distribution of pectin and hemicellulose epitopes in the phloem of four hardwood species. In **TREES-STRUCTURE AND FUNCTION**. ISSN 0931-1890, 2018, vol. 32, no. 2, pp. 393-414., Registrované v: WOS

48. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Distribution of lignin, pectins and hemicelluloses in tension wood fibers of European ash (*Fraxinus excelsior*). In **IAWA JOURNAL**. ISSN 0928-1541, 2019, vol. 40, no. 4, pp. 741-764., Registrované v: WOS

49. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Localization of Xyloglucan Epitopes in the Gelatinous Layer of Developing and Mature

Gelatinous Fibers of European Aspen (*Populus tremula* L.) Tension Wood. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 4, pp. 7675-7686., Registrované v: WOS

50. [1.1] KIM, Jong Sik - GAO, Jie - DANIEL, Geoffrey. Cytochemical and immunocytochemical characterization of wood decayed by the white rot fungus *Pycnoporus sanguineus* II. Degradation of lignin and non-cellulosic polysaccharides in European ash wood. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2015, vol. 105, no., pp. 41-50., Registrované v: WOS

51. [1.1] KIM, Jong Sik - GAO, Jie - DANIEL, Geoffrey. Ultrastructure and immunocytochemistry of degradation in spruce and ash sapwood by the brown rot fungus *Postia placenta*: Characterization of incipient stages of decay and variation in decay process. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2015, vol. 103, no., pp. 161-178., Registrované v: WOS

52. [1.1] KIM, Jong Sik - GAO, Jie - TERZIEV, Nasko - ALLEGRETTI, Ottaviano - DANIEL, Geoffrey. Chemical and ultrastructural changes of ash wood thermally modified (TMW) using the thermo-vacuum process: II. Immunocytochemical study of the distribution of noncellulosic polysaccharides. In HOLZFORSCHUNG. ISSN 0018-3830, 2015, vol. 69, no. 5, pp. 615-625., Registrované v: WOS

53. [1.1] KIM, Sang-Jin - CHANDRASEKAR, Balakumaran - REA, Anne C. - DANHOF, Linda - ZEMELIS-DURFEE, Starla - THROWER, Nicholas - SHEPARD, Zachary S. - PAULY, Markus - BRANDIZZI, Federica - KEEGSTRA, Kenneth. The synthesis of xyloglucan, an abundant plant cell wall polysaccharide, requires CSLC function. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 33, pp. 20316-20324. Dostupné na: <https://doi.org/10.1073/pnas.2007245117>., Registrované v: WOS

54. [1.1] KIYOTO, Shingo - YOSHINAGA, Arata - FERNANDEZ-TENDERO, Eva - DAY, Arnaud - CHABBERT, Brigitte - TAKABE, Keiji. Distribution of Lignin, Hemicellulose, and Arabinogalactan Protein in Hemp Phloem Fibers. In MICROSCOPY AND MICROANALYSIS. ISSN 1431-9276, 2018, vol. 24, no. 4, pp. 442-452., Registrované v: WOS

55. [1.1] KORONEY, Abdoul Salam - PLASSON, Carole - PAWLAK, Barbara - SIDIKOU, Ramatou - DRIOUICH, Azeddine - MENU-BOUAOUICHE, Laurence - VICRE-GIBOUIN, Maite. Root exudate of *Solanum tuberosum* is enriched in galactose-containing molecules and impacts the growth of *Pectobacterium atrosepticum*. In ANNALS OF BOTANY. ISSN 0305-7364, 2016, vol. 118, no. 4, pp. 797-808., Registrované v: WOS

56. [1.1] KREITSCHITZ, Agnieszka - GORB, Stanislav N. How does the cell wall 'stick' in the mucilage? A detailed microstructural analysis of the seed coat mucilaginous cell wall. In FLORA. ISSN 0367-2530, 2017, vol. 229, no., pp. 9-22., Registrované v: WOS

57. [1.1] LEROUX, Olivier. Vibratome Sectioning of Plant Materials for (Immuno) cytochemical Staining. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 339-350. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_19., Registrované v: WOS

58. [1.1] LIN, Shoukai - WU, Ti - LIN, Hailan - ZHANG, Yanqing - XU, Shichang - WANG, Jinge - WU, Bisha - CHEN, Yu - LIN, Suying - LIN, Dahe -

WANG, Xiumei - ZHAO, Xiaoxu - WU, Jincheng. De Novo Analysis Reveals Transcriptomic Responses in *Eriobotrya japonica* Fruits during Postharvest Cold Storage. In GENES. ISSN 2073-4425, 2018, vol. 9, no. 12, pp., Registrované v: WOS

59. [1.1] LOPEZ, Renee A. - MANSOURI, Katayoun - HENRY, Jason S. - FLOWERS, Nicholas D. - VAUGHN, Kevin C. - RENZAGLIA, Karen Sue. Immunogold Localization of Molecular Constituents Associated with Basal Bodies, Flagella, and Extracellular Matrices in Male Gametes of Land Plants. In BIO-PROTOCOL, 2017, vol. 7, no. 21, pp., Registrované v: WOS

60. [1.1] LOPEZ, Renee A. - RENZAGLIA, Karen S. The Ceratopteris (fern) developing motile gamete walls contain diverse polysaccharides, but not pectin. In PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 2, pp. 393-404., Registrované v: WOS

61. [1.1] MARTINI, V. C. - MOREIRA, A. S. F. P. - KUSTER, C. - OLIVEIRA, D. C. Gallin insects as phenotype manipulators of cell wall composition during the development of galls induced on leaves of *Aspidosperma tomentosum* (Apocynaceae). In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2019, vol. 127, no., pp. 226-233., Registrované v: WOS

62. [1.1] MARZEC-SCHMIDT, Katarzyna - LUDWIKOW, Agnieszka - WOJCIECHOWSKA, Natalia - KASPROWICZ-MALUSKI, Anna - MUCHA, Joanna - BAGNIEWSKA-ZADWORNA, Agnieszka. Xylem Cell Wall Formation in Pioneer Roots and Stems of *Populus trichocarpa* (Torr. & Gray). In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS

63. [1.1] MIART, Fabien - FOURNET, Françoise - DUBRULLE, Nelly - PETIT, Emmanuel - DEMAILLY, Herve - DUPONT, Loic - ZABIJAK, Luciane - MARCELO, Paulo - BOUDAUD, Arezki - PINEAU, Christophe - GUENIN, Stephanie - VAN WUYTSWINKEL, Olivier - MESNARD, Francois - PAGEAU, Karine. Cytological Approaches Combined With Chemical Analysis Reveals the Layered Nature of Flax Mucilage. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS

64. [1.1] MUCHERO, Wellington - SONDRELI, Kelsey L. - CHEN, Jin-Gui - URBANOWICZ, Breeanna R. - ZHANG, Jin - SINGAN, Vasanth - YANG, Yongil - BRUEGGEMAN, Robert S. - FRANCO-CORONADO, Juan - ABRAHAM, Nivi - YAN, Jeong-Yeh - MOREMEN, Kelley W. - WEISBERG, Alexandra J. - CHANG, Jeff H. - LINDQUIST, Erika - BARRY, Kerrie - RANJAN, Priya - JAWDY, Sara - SCHMUTZ, Jeremy - TUSKAN, Gerald A. - LEBOLDUS, Jared M. Association mapping, transcriptomics, and transient expression identify candidate genes mediating plant-pathogen interactions in a tree. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 45, pp. 11573-11578., Registrované v: WOS

65. [1.1] NIBBERING, Pieter - PETERSEN, Bent L. - MOTAWIA, Mohammed Saddik - JORGENSEN, Bodil - ULVSKOV, Peter - NIITYLA, Totte. Golgi-localized exo-beta 1,3-galactosidases involved in cell expansion and root growth in *Arabidopsis*. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 31, pp. 10581-10592. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013878>., Registrované v: WOS

66. [1.1] NIU, Yuqing - HU, Bei - LI, Xiaoquan - CHEN, Houbin - TAKAC, Tomas - SAMAJ, Jozef - XU, Chunxiang. Comparative Digital Gene

- Expression Analysis of Tissue-Cultured Plantlets of Highly Resistant and Susceptible Banana Cultivars in Response to *Fusarium oxysporum*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
67. [1.1] OKAMOTO-NAKAZATO, Akane. Implications of the galactosidase activity of yieldin in the regulatory mechanism of yield threshold that is fundamental to cell wall extension. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2018, vol. 163, no. 2, pp. 259-266., Registrované v: WOS
68. [1.1] PALEVICH, Nikola - KELLY, William J. - LEAHY, Sinead C. - ALTERMANN, Eric - RAKONJAC, Jasna - ATTWOOD, Graeme T. The complete genome sequence of the rumen bacterium *Butyrivibrio hungatei* MB2003. In *STANDARDS IN GENOMIC SCIENCES*. ISSN 1944-3277, 2017, vol. 12, no., pp., Registrované v: WOS
69. [1.1] PALEVICH, Nikola - KELLY, William J. - GANESH, Siva - RAKONJAC, A. Jasna - ATTWOOD, Graeme T. *Butyrivibrio hungatei* MB2003 Competes Effectively for Soluble Sugars Released by *Butyrivibrio proteoclasticus* B316(T) during Growth on Xylan or Pectin. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2019, vol. 85, no. 3, pp., Registrované v: WOS
70. [1.1] PANDEY, Shashank K. - NOOKARAJU, Akula - FUJINO, Takeshi - PATTATHIL, Sivakumar - JOSHI, Chandrashekhar P. Virus-induced gene silencing (VIGS)-mediated functional characterization of two genes involved in lignocellulosic secondary cell wall formation. In *PLANT CELL REPORTS*. ISSN 0721-7714, 2016, vol. 35, no. 11, pp. 2353-2367., Registrované v: WOS
71. [1.1] PARRA, Ruben - GOMEZ-JIMENEZ, Maria C. Spatio-temporal immunolocalization of extensin protein and hemicellulose polysaccharides during olive fruit abscission. In *PLANTA*. ISSN 0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03439-6>., Registrované v: WOS
72. [1.1] PAULY, Markus - KEEGSTRA, Kenneth. Biosynthesis of the Plant Cell Wall Matrix Polysaccharide Xyloglucan. In *ANNUAL REVIEW OF PLANT BIOLOGY*, VOL 67. ISSN 1543-5008, 2016, vol. 67, no., pp. 235-259., Registrované v: WOS
73. [1.1] PEGG, Timothy - EDELMANN, Richard R. - GLADISH, Daniel K. Immunoprofiling of Cell Wall Carbohydrate Modifications During Flooding-Induced Aerenchyma Formation in Fabaceae Roots. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2019.01805>., Registrované v: WOS
74. [1.1] PERASSOLO GUEDES, Fernanda Trilstz - LAURANS, Francoise - QUEMENER, Bernard - ASSOR, Carole - LAINE-PRADE, Veronique - BOIZOT, Nathalie - VIGOUROUX, Jacqueline - LESAGE-DESCAUSES, Marie-Claude - LEPLE, Jean-Charles - DEJARDIN, Annabelle - PILATE, Gilles. Non-cellulosic polysaccharide distribution during G-layer formation in poplar tension wood fibers: abundance of rhamnogalacturonan I and arabinogalactan proteins but no evidence of xyloglucan. In *PLANTA*. ISSN 0032-0935, 2017, vol. 246, no. 5, pp. 857-878., Registrované v: WOS
75. [1.1] PERZON, Alixander - KRACUN, Stjepan Kresimir - JORGENSEN, Bodil - ULVSKOV, Peter. Array-based microfibril surface

assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 15, pp. 8635-8651. Dostupné na: <https://doi.org/10.1007/s10570-020-03398-x>, Registrované v: WOS

76. [1.1] PHILIPPE, Glenn - GENEIX, Nathalie - PETIT, Johann - GUILLON, Fabienne - SANDT, Christophe - ROTHAN, Christophe - LAHAYE, Marc - MARION, Didier - BAKAN, Benedicte. Assembly of tomato fruit cuticles: a cross-talk between the cutin polyester and cell wall polysaccharides. In NEW PHYTOLOGIST. ISSN 0028-646X, 2020, vol. 226, no. 3, pp. 809-822. Dostupné na: <https://doi.org/10.1111/nph.16402>, Registrované v: WOS

77. [1.1] POPIELARSKA-KONIECZNA, Marzena - SALA, Katarzyna - ABDULLAH, Mohib - TULEJA, Monika - KURCZYNSKA, Ewa. Extracellular matrix and wall composition are diverse in the organogenic and non-organogenic calli of *Actinidia arguta*. In PLANT CELL REPORTS. ISSN 0721-7714, 2020, vol. 39, no. 6, pp. 779-798. Dostupné na: <https://doi.org/10.1007/s00299-020-02530-2>, Registrované v: WOS

78. [1.1] RASHMI, R. - SIDDALINGAMURTHY, K. R. Microbial xyloglucanases: a comprehensive review. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2018, vol. 36, no. 4, pp. 280-295., Registrované v: WOS

79. [1.1] REBAQUE, Diego - MARTINEZ-RUBIO, Romina - FORNALE, Silvia - GARCIA-ANGULO, Penelope - ALONSO-SIMON, Ana - ALVAREZ, Jesus M. - CAPARROS-RUIZ, David - ACEBES, Jose L. - ENCINA, Antonio. Characterization of structural cell wall polysaccharides in cattail (*Typha latifolia*): Evaluation as potential biofuel feedstock. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 679-688., Registrované v: WOS

80. [1.1] ROPITAUX, Marc - BERNARD, Sophie - SCHAPMAN, Damien - FOLLET-GUEYE, Marie-Laure - VICRE, Maite - BOULOGNE, Isabelle - DRIOUICH, Azeddine. Root Border Cells and Mucilage Secretions of Soybean, *Glycine Max* (Merr) L.: Characterization and Role in Interactions with the Oomycete *Phytophthora Parasitica*. In CELLS, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102215>, Registrované v: WOS

81. [1.1] ROZANOV, Aleksei S. - SUSHENTSEVA, Natalya N. - MALUP, Tatiana K. - GORYACHKOVSKAYA, Tatiana N. - DEMIDOVA, Elisaveta V. - MESHCHERIAKOVA, Irina A. - DEMIDOV, Evgeniy A. - PELTEK, Sergey E. Analysis of enzymes of the hemicellulose complex from *Geobacillus stearothermophilus* 22 VKPM B-11678 isolated from Garga hot spring, Russia. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 116, no., pp. 159-165., Registrované v: WOS

82. [1.1] RYDAHL, Maja G. - HANSEN, Aleksander R. - KRACUN, Stjepan K. - MRAVEC, Jozef. Report on the Current Inventory of the Toolbox for Plant Cell Wall Analysis: Proteinaceous and Small Molecular Probes. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

83. [1.1] SAFFER, Adam M. Expanding roles for pectins in plant development. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, 2018, vol. 60, no. 10, pp. 910-923., Registrované v: WOS

84. [1.1] SALA, Katarzyna - KARCZ, Jagna - RYPIEN, Aleksandra -

- KURCZYNSKA, Ewa U. Unmethyl-esterified homogalacturonan and extensins seal Arabidopsis graft union. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2019, vol. 19, no., pp., Registrované v: WOS
85. [1.1] SEGADO, Patricia - DOMINGUEZ, Eva - HEREDIA, Antonio. Ultrastructure of the Epidermal Cell Wall and Cuticle of Tomato Fruit (*Solanum lycopersicum* L.) during Development. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2016, vol. 170, no. 2, pp. 935-946., Registrované v: WOS
86. [1.1] SECHET, Julien - FREY, Anne - EFFROY-CUZZI, Delphine - BERGER, Adeline - PERREAU, Francois - CUEFF, Gwendal - CHARIF, Delphine - RAJJOU, Loic - MOUILLE, Gregory - NORTH, Helen M. - MARION-POLL, Annie. Xyloglucan Metabolism Differentially Impacts the Cell Wall Characteristics of the Endosperm and Embryo during Arabidopsis Seed Germination. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2016, vol. 170, no. 3, pp. 1367-1380., Registrované v: WOS
87. [1.1] SHI, Da-chuan - WANG, Juan - HU, Rui-bo - ZHOU, Gong-ke - O'NEILL, Malcolm A. - KONG, Ying-zhen. Boron-bridged RG-II and calcium are required to maintain the pectin network of the Arabidopsis seed mucilage ultrastructure. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, 2017, vol. 94, no. 3, pp. 267-280., Registrované v: WOS
88. [1.1] SHTEIN, Ilana - KOYFMAN, Alex - SCHWARTZ, Amnon - POPPER, Zoe A. - BAR-ON, Benny. Solanales Stem Biomechanical Properties Are Primarily Determined by Morphology Rather Than Internal Structural Anatomy and Cell Wall Composition. In PLANTS-BASEL, 2020, vol. 9, no. 6, pp. Dostupné na: <https://doi.org/10.3390/plants9060678>., Registrované v: WOS
89. [1.1] STEPINSKI, Dariusz - KWIATKOWSKA, Maria - WOJTCZAK, Agnieszka - DOMINGUEZ, Eva - HEREDIA, Antonio - POPLONSKA, Katarzyna. Cutinsomes as building-blocks of Arabidopsis thaliana embryo cuticle. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2017, vol. 161, no. 4, pp. 560-567., Registrované v: WOS
90. [1.1] STEPINSKI, Dariusz - KWIATKOWSKA, Maria - WOJTCZAK, Agnieszka - POLIT, Justyna Teresa - DOMINGUEZ, Eva - HEREDIA, Antonio - POPLONSKA, Katarzyna. The Role of Cutinsomes in Plant Cuticle Formation. In CELLS, 2020, vol. 9, no. 8, pp. Dostupné na: <https://doi.org/10.3390/cells9081778>., Registrované v: WOS
91. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS
92. [1.1] THANGADURAI, Devarajan - SANGEETHA, Jeyabalan - DAVID, Muniswamy. FUNGAL BIOMOLECULES FOR DEGRADATION OF XENOBIOTICS AND ECOSYSTEM MANAGEMENT. In FUNDAMENTALS OF MOLECULAR MYCOLOGY, 2016, vol. 1, no., pp. 127-152., Registrované v: WOS
93. [1.1] TSUCHIYA, Mutsumi - SATOH, Shinobu - IWAI, Hiroaki. Distribution of XTH, expansin, and secondary-wall-related CesA in floral and fruit abscission zones during fruit development in tomato (*Solanum lycopersicum*). In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
94. [1.1] VAN DE MEENE, A. M. L. - DOBLIN, M. S. - BACIC,

- Antony. The plant secretory pathway seen through the lens of the cell wall. In PROTOPLASMA. ISSN 0033-183X, 2017, vol. 254, no. 1, pp. 75-94.,
Registrované v: WOS
95. [1.1] VAZQUEZ-GUTIERREZ, Jose L. - LANGTON, Maud. Current potential and limitations of immunolabelling in cereal grain research. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2015, vol. 41, no. 2, pp. 105-117., Registrované v: WOS
96. [1.1] WANG, Yanting - FAN, Chunfen - HU, Huizhen - LI, Ying - SUN, Dan - WANG, Youmei - PENG, Liangcai. Genetic modification of plant cell walls to enhance biomass yield and biofuel production in bioenergy crops. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 5, pp. 997-1017., Registrované v: WOS
97. [1.1] WILKOP, Thomas - PATTATHIL, Sivakumar - REN, Guangxi - DAVIS, Destiny J. - BAO, Wenlong - DUAN, Dechao - PERALTA, Angelo G. - DOMOZYCH, David S. - HAHN, Michael G. - DRAKAKAKI, Georgia. A Hybrid Approach Enabling Large-Scale Glycomic Analysis of Post-Golgi Vesicles Reveals a Transport Route for Polysaccharides. In PLANT CELL. ISSN 1040-4651, 2019, vol. 31, no. 3, pp. 627-644., Registrované v: WOS
98. [1.1] WILSON, Sarah M. - HO, Yin Ying - LAMPUGNANI, Edwin R. - VAN DE MEENE, Allison M. L. - BAIN, Melissa P. - BACIC, Antony - DOBLIN, Monika S. Determining the Subcellular Location of Synthesis and Assembly of the Cell Wall Polysaccharide (1,3;1,4)-beta-D-Glucan in Grasses. In PLANT CELL. ISSN 1040-4651, 2015, vol. 27, no. 3, pp. 754-771.,
Registrované v: WOS
99. [1.1] WOODENBERG, Wynston Ray - PAMMENTER, N. W. - FARRANT, Jill M. - DRIOUICH, Azeddine - BERJAK, Patricia. Embryo cell wall properties in relation to development and desiccation in the recalcitrant-seeded *Encephalartos natalensis* (Zamiaceae) Dyer and Verdoorn. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 1, pp. 245-258.,
Registrované v: WOS
100. [1.1] YANG, Guojun - TAN, Haidong - LI, Shuguang - ZHANG, Meng - CHE, Jia - LI, Kuikui - CHEN, Wei - YIN, Heng. Application of engineered yeast strain fermentation for oligogalacturonides production from pectin-rich waste biomass. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 300, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122645>., Registrované v: WOS
101. [1.1] YANG, Qiaomei - ZHAO, Wenye - LIU, Jingyuan - HE, Boyang - WANG, Youmei - YANG, Tangbin - ZHANG, Guifen - HE, Mingxiong - LU, Jun - PENG, Liangcai - WANG, Yanting. Quantum dots are conventionally applicable for wide-profiling of wall polymer distribution and destruction in diverse cells of rice. In TALANTA. ISSN 0039-9140, 2020, vol. 208, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2019.120452>.,
Registrované v: WOS
102. [1.1] ZHENG, Yunzhen - WANG, Xuan - CHEN, Yuning - WAGNER, Edward - COSGROVE, Daniel J. Xyloglucan in the primary cell wall: assessment by FESEM, selective enzyme digestions and nanogold affinity tags. In PLANT JOURNAL. ISSN 0960-7412, 2018, vol. 93, no. 2, pp. 211-226.,
Registrované v: WOS
103. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - RICHARDSON, Elizabeth A. - YE, Zheng-Hua. A Group of

O-Acetyltransferases Catalyze Xyloglucan Backbone Acetylation and Can Alter Xyloglucan Xylosylation Pattern and Plant Growth When Expressed in Arabidopsis. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2020, vol. 61, no. 6, pp. 1064-1079. Dostupné na: <https://doi.org/10.1093/pcp/pcaa031>., Registrované v: WOS

104. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174., Registrované v: WOS

105. [1.2] AMANDA, Dhika - DOBLIN, Monika S. - MACMILLAN, Colleen P. - GALLETTI, Roberta - GOLZ, John F. - BACIC, Antony - INGRAM, Gwyneth C. - JOHNSON, Kim L. Arabidopsis DEFECTIVE KERNEL1 regulates cell wall composition and axial growth in the inflorescence stem. In *Plant Direct*, 2017-01-01, 1, 6, pp., Registrované v: SCOPUS

106. [1.2] BALESTRINI, Raffaella - KOTTKE, Ingrid. Structure and development of ectomycorrhizal roots. In *Molecular Mycorrhizal Symbiosis*, 2016-10-28, pp. 47-61., Registrované v: SCOPUS

107. [1.2] BLACKMAN, Leila M. - CULLERNE, Darren P. - TORREÑA, Pernelyn - TAYLOR, Jen - HARDHAM, Adrienne R. RNA-Seq analysis of the expression of genes encoding cell wall degrading enzymes during infection of lupin (*Lupinus angustifolius*) by *Phytophthora parasitica*. In *PLoS ONE*, 2015-09-02, 10, 9, pp., Registrované v: SCOPUS

108. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS

109. [1.2] STRANNE, Maria - SAKURAGI, Yumiko. Arabinan: Biosynthesis and a Role in Host-Pathogen Interactions. In *Plant Pathogen Resistance Biotechnology*, 2016-04-08, pp. 91-107., Registrované v: SCOPUS

110. [1.2] WANG, Meng - DUAN, De Chao - XU, Chen - YU, Ming Ge - SHI, Ji Yan. Adsorption ability of cell wall (CW) components in roots of Tea Plant (*Camellia sinensis* L.) to Pb and FTIR spectra of their functional groups. In *Shengtai Xuebao/ Acta Ecologica Sinica*. ISSN 10000933, 2015-01-01, 35, 6, pp. 1743-1751., Registrované v: SCOPUS

111. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS

112. [1.2] WU, Qi - ZHU, Xiao Fang - SHEN, Ren Fang. Mechanism of boron facilitate root cell wall iron reutilization in iron deficient. In *Journal of Plant Nutrition and Fertilizers*. ISSN 1008505X, 2019-01-01, 25, 2, pp. 264-273., Registrované v: SCOPUS

ADCA852 MAREŠKA, Václav - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Molecular simulations of hevein/(GlcNAc)₃ complex with weakened OH/O and CH/π hydrogen bonds: implications for their role in complex stabilization. In *Carbohydrate Research*, 2015, vol. 408, p. 1-7. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current

Contents). ISSN 0008-6215. Dostupné na:
<https://doi.org/10.1016/j.carres.2015.02.012>

Ohlasy:

1. [1.1] BERTHELOT, Karine - PERUCH, Frederic - LECOMTE, Sophie. Highlights on Hevea brasiliensis (pro)hevein proteins. In BIOCHIMIE. ISSN 0300-9084, 2016, vol. 127, no., pp. 258-270., Registrované v: WOS
2. [1.1] BERTHELOT, Karine - LECOMTE, Sophie - COULARY-SALIN, Benedicte - BENTALEB, Ahmed - PERUCH, Frederic. Hevea brasiliensis prohevein possesses a conserved C-terminal domain with amyloid-like properties in vitro. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2016, vol. 1864, no. 4, pp. 388-399., Registrované v: WOS
3. [1.1] CUETARA-GUADARRAMA, Fabian - RAMIREZ-GUALITO, Karla - CUEVAS, Gabriel. Study of CH/pi Interactions in the Molecular Recognition between Acetyl Galactopyranoside and 6-substituted 2-Methoxypyridines and 2(1H)-Pyridones. In JOURNAL OF THE MEXICAN CHEMICAL SOCIETY. ISSN 1870-249X, 2017, vol. 61, no. 3, pp. 205-216., Registrované v: WOS
4. [1.1] CUETARA-GUADARRAMA, Fabian - HERNANDEZ-HUERTA, Eduardo - ROJO-PORTILLO, Tania - REYES-LOPEZ, Elizabeth - JIMENEZ-BARBERO, Jesus - CUEVAS, Gabriel. Experimental and theoretical study of the role of CH/pi interactions in the aminolysis reaction of acetyl galactoside. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 486, no., pp., Registrované v: WOS
5. [1.1] HUDSON, Kieran L. Carbohydrate-Based Interactions at the Molecular and the Cellular Level Introduction. In CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL. ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS
6. [1.1] SLAVOKHOTOVA, A. A. - SHELENKOV, A. A. - ANDREEV, Ya. A. - ODINTSOVA, T. I. Hevein-Like Antimicrobial Peptides of Plants. In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2017, vol. 82, no. 13, pp. 1659-1674., Registrované v: WOS

ADCA853 MARKOVIČ, Oskar - JORNVALL, H. Disulfide bridges in tomato pectinesterase: Variations from pectinesterases of other species: conservation of possible active segments. In *Protein Science*, 1992, vol. 1, p. 1288-1292. ISSN 0961-8368. Dostupné na: <https://doi.org/10.1002/pro.5560011007>

Ohlasy:

1. [1.1] RUIZ-MAY, Eliel - SEGURA-CABRERA, Aldo - ELIZALDE-CONTRERAS, Jose M. - SHANNON, Laura M. - LOYOLA-VARGAS, Victor M. A recent advance in the intracellular and extracellular redox post-translational modification of proteins in plants. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2019, vol. 32, no. 1, pp., Registrované v: WOS
2. [3.2] Group Author(s). Uniprot Consortium. P14280. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/P14280>, Registrované v: Data Citation Index

ADCA854 MARKOVIČ, Oskar - CEDERLUND, E. - GRIFFITHS, W.J. - LIPKA, Tibor - JORNWALL, H. Characterization of carrot pectin methylesterase. In *Cellular and*

Molecular Life Sciences, 2002, vol. 59, p. 513-518. Dostupné na:
<https://doi.org/10.1007/s00018-002-8442-6>

Ohlasy:

1. [1.1] DOROKHOV, Yuri L. - SHINDYAPINA, Anastasia V. - SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. METABOLIC METHANOL: MOLECULAR PATHWAYS AND PHYSIOLOGICAL ROLES. In *PHYSIOLOGICAL REVIEWS*. ISSN 0031-9333, 2015, vol. 95, no. 2, pp. 603-644., Registrované v: WOS
2. [1.1] DOROKHOV, Yuri L. - SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. Methanol in Plant Life. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] CHRISTIAENS, Stefanie - VAN BUGGENHOUT, Sandy - HOUBEN, Ken - KERMANI, Zahra Jamsazzadeh - MOELANTS, Katlijn R. N. - NGOUEMAZONG, Eugenie D. - VAN LOEY, Ann - HENDRICKX, Marc E. G. Process-Structure-Function Relations of Pectin in Food. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2016, vol. 56, no. 6, pp. 1021-1042., Registrované v: WOS
4. [1.1] KATSAROS, G. J. - ALEXANDRAKIS, Z. S. - TAOUKIS, P. S. Kinetic Assessment of High Pressure Inactivation of Different Plant Origin Pectinmethylesterase Enzymes. In *FOOD ENGINEERING REVIEWS*. ISSN 1866-7910, 2017, vol. 9, no. 3, pp. 170-189., Registrované v: WOS
5. [1.1] KENT, Lisa M. - LOO, Trevor S. - MELTON, Laurence D. - MERCADANTE, Davide - WILLIAMS, Martin A. K. - JAMESON, Geoffrey B. Structure and Properties of a Non-processive, Salt-requiring, and Acidophilic Pectin Methylesterase from *Aspergillus niger* Provide Insights into the Key Determinants of Processivity Control. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 3, pp. 1289-1306., Registrované v: WOS
6. [1.1] MEI, Xiaohong - SHPIGELMAN, Avi - VERRIJSEN, Tina A. J. - KYOMUGASHO, Clare - LUO, Yunbo - VAN LOEY, Ann M. - MICHIELS, Chris - HUANG, Kunlun - HENDRICKX, Marc E. Recombinant kiwi pectin methylesterase inhibitor: Purification and characterization of the interaction with plant pectin methylesterase during thermal and high-pressure processing. In *INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES*. ISSN 1466-8564, 2015, vol. 29, no., pp. 295-301., Registrované v: WOS
7. [1.1] SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. - POZDYSHEV, Denis V. - ERSHOVA, Natalia M. - SHINDYAPINA, Anastasia V. - TASHLITSKY, Vadim N. - SHEVAL, Eugene V. - DOROKHOV, Yuri L. The Intergenic Interplay between Aldose 1-Epimerase-Like Protein and Pectin Methylesterase in Abiotic and Biotic Stress Control. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
8. [1.1] WALLACE, Simon - WILLIAMS, Joseph H. Evolutionary origins of pectin methylesterase genes associated with novel aspects of angiosperm pollen tube walls. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2017, vol. 487, no. 3, pp. 509-516., Registrované v: WOS
9. [1.2] MERCADANTE, Davide. Advancements in the understanding of pectin methylesterase enzymes and their inhibitors for use in food science applications. In *Encyclopedia of Food Chemistry*, 2018-01-01, pp. 202-208.,

Registrované v: SCOPUS

10. [3.2] Group Author(s). Uniprot Consortium. P83218. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/P83218>, Registrované v: Data Citation Index

11. [3.2] Group Author(s). Uniprot Consortium. P83218. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/P83218>, Registrované v: Data Citation Index

ADCA855 MARKOVIČ, Oskar - KOHN, Rudolf. Mode of pectin deesterification by *Trichoderma reesei* pectinesterase. In *Experientia : interdisciplinary journal of life sciences*, 1984, vol. 40, p. 842-843. ISSN 0014-4754. Dostupné na: <https://doi.org/10.1007/BF01951984>

Ohlasy:

1. [1.1] FERNANDES, Joao C. - GOULAO, Luis F. - AMANCIO, Sara. Regulation of cell wall remodeling in grapevine (*Vitis vinifera* L.) callus under individual mineral stress deficiency. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2016, vol. 190, no., pp. 95-105., Registrované v: WOS

2. [1.1] GOUGIS, Maxime - MA, Dongling - MOHAMED, Mohamed. Tungsten oxide-Au nanosized film composites for glucose oxidation and sensing in neutral medium. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2015, vol. 10, no., pp. 2939-2950., Registrované v: WOS

3. [1.1] GWANPUA, Sunny George - VERLINDEN, Bert E. - HERTOOG, Maarten L. A. T. M. - NICOLAI, Bart M. - HENDRICKX, Marc - GEERAERD, Annemie. Slow softening of Kanzi apples (*Malus x domestica* L.) is associated with preservation of pectin integrity in middle lamella. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 211, no., pp. 883-891., Registrované v: WOS

4. [1.1] GWANPUA, Sunny George - MELLIDOU, Ifigeneia - BOECKX, Jelena - KYOMUGASHO, Clare - BESSEMANS, Niels - VERLINDEN, Bert E. - HERTOOG, Maarten L. A. T. M. - HENDRICKX, Marc - NICOLAI, Bart M. - GEERAERD, Annemie H. Expression analysis of candidate cell wall-related genes associated with changes in pectin biochemistry during postharvest apple softening. In *POSTHARVEST BIOLOGY AND TECHNOLOGY*. ISSN 0925-5214, 2016, vol. 112, no., pp. 176-185., Registrované v: WOS

5. [1.1] KENT, Lisa M. - LOO, Trevor S. - MELTON, Laurence D. - MERCADANTE, Davide - WILLIAMS, Martin A. K. - JAMESON, Geoffrey B. Structure and Properties of a Non-processive, Salt-requiring, and Acidophilic Pectin Methylesterase from *Aspergillus niger* Provide Insights into the Key Determinants of Processivity Control. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 3, pp. 1289-1306., Registrované v: WOS

6. [1.1] KRIZEK, Beth A. - BEQUETTE, Carlton J. - XU, Kaimei - BLAKLEY, Ivory C. - FU, Zheng Qing - STRATMANN, Johannes W. - LORAIN, Ann E. RNA-Seq Links the Transcription Factors AINTEGUMENTA and AINTEGUMENTA-LIKE6 to Cell Wall Remodeling and Plant Defense Pathways. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2016, vol. 171, no. 3, pp. 2069-2084., Registrované v: WOS

7. [1.1] LEVESQUE-TREMBLAY, Gabriel - PELLOUX, Jerome - BRAYBROOK, Siobhan A. - MUELLER, Kerstin. Tuning of pectin

methylesterification: consequences for cell wall biomechanics and development. In PLANTA. ISSN 0032-0935, 2015, vol. 242, no. 4, pp. 791-811., Registrované v: WOS

8. [1.1] LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. A Pectin Methylesterase Inhibitor Enhances Resistance to Verticillium Wilt. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS

9. [1.1] L'ENFANT, Melanie - DOMON, Jean-Marc - RAYON, Catherine - DESNOS, Thierry - RALET, Marie-Christine - BONNIN, Estelle - PELLOUX, Jerome - PAU-ROBLOT, Corinne. Substrate specificity of plant and fungi pectin methylesterases: Identification of novel inhibitors of PMEs. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 81, no., pp. 681-691., Registrované v: WOS

10. [1.1] SALAS-TOVAR, Jesus A. - FLORES-GALLEGOS, Adriana C. - CONTRERAS-ESQUIVEL, Juan C. - ESCOBEDO-GARCIA, S. - MORLETT-CHAVEZ, Jesus A. - RODRIGUEZ-HERRERA, Raul. Analytical Methods for Pectin Methylesterase Activity Determination: a Review. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2017, vol. 10, no. 11, pp. 3634-3646., Registrované v: WOS

ADCA856 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin degrading glycoside hydrolases of family 28: sequence-structural features, specificities and evolution. In *Protein Engineering Design & Selection*, 2001, vol. 14, p. 615-631. ISSN 1741-0126.

Ohlasy:

1. [1.1] EVANGELISTA, D.E. - DE ARAUJO, E.A. - NETO, M.O. - KADOWAKI, M.A.S. - POLIKARPOV, I. In NEW BIOTECHNOLOGY. JAN 25 2017, vol. 40, B, p. 268-274., Registrované v: WOS

2. [1.1] FLOUDAS, D. - HELD, B.W. - RILEY, R. - NAGY, L.G. - KOEHLER, G. - RANDELL, A.S. - YOUNUS, H. - CHOW, J. - CHINIQUY, J. - LIPZEN, A. - TRITT, A. - SUN, H. - HARIDAS, S. - LABUTTI, K. - OHM, R.A. - KUES, U. - BLANCHETTE, R.A. - GRIGORIEV, I.V. - MINTO, R.E. - HIBBETT, D.S. In FUNGAL GENETICS AND BIOLOGY. MAR 2015, vol. 76, p. 78-92., Registrované v: WOS

3. [1.1] GACURA, M.D. - SPROCKETT, D.D. - HEIDENREICH, B. - BLACKWOOD, C.B. In JOURNAL OF MICROBIOLOGICAL METHODS. APR 2016, vol. 123, p. 108-113., Registrované v: WOS

4. [1.1] GERMANE, K.L. - SERVINSKY, M.D. - GERLACH, E.S. - SUND, C.J. - HURLEY, M.M. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS. AUG 2015, vol. 71, 8, p. 1100-1108., Registrované v: WOS

5. [1.1] GIACOMETTI, R. - ILINA, N. - EDUARDO, P.A. - ZAVALA, J.A. Stink bug nezara viridula sustains late MAPKs phosphorylation status and induces expression of genes related with cell wall rearrangement in developing soybean seeds. In ARTHROPOD-PLANT INTERACTIONS. AUG 2018, vol. 12, no. 4, p. 531-541., Registrované v: WOS

6. [1.1] HABRYLO, O. - EVANGELISTA, D.E. - CASTILHO, P.V. - PELLOUX, J. - HENRIQUE-SILVA, F. The pectinases from *Sphenophorus levis*: Potential for biotechnological applications. In INTERNATIONAL

- JOURNAL OF BIOLOGICAL MACROMOLECULES. JUN 2018, vol. 112, p. 499-508., Registrované v: WOS
7. [1.1] HASSAN, N. - RAFIQ, M. - REHMAN, M. - SAJJAD, W. - HASAN, F. - ABDULLAH, S. Fungi in acidic fire: A potential source of industrially important enzymes. In FUNGAL BIOLOGY REVIEWS. JAN 2019, vol. 33, no. 1, p. 58-71., Registrované v: WOS
 8. [1.1] HE, Y.J. - KARRE, S. - JOHAL, G.S. - CHRISTENSEN, S.A. - BALINT-KURTI, P. A maize polygalacturonase functions as a suppressor of programmed cell death in plants. In BMC PLANT BIOLOGY. JUL 15 2019, vol. 19., Registrované v: WOS
 9. [1.1] HUANG, W.J. - CHEN, M.Y. - ZHAO, T.T. - HAN, F. - ZHANG, Q. - LIU, X.L. - JIANG, C.Y. - ZHONG, C.H. Genome-Wide Identification and Expression Analysis of Polygalacturonase Gene Family in Kiwifruit (*Actinidia chinensis*) during Fruit Softening. In PLANTS-BASEL. MAR 2020, vol. 9, no. 3, 327., Registrované v: WOS
 10. [1.1] HU, Y. - KIM, S. - JEON, J. - ELFSTRAND, M. - STENLID, J. - LEE, Y.H. - OLSON, A. Characterization of a Heterobasidion irregulare endo-rhamnogalacturonase that mediate growth on pectin. In JOURNAL OF PHYTOPATHOLOGY. JAN 2018, vol. 166, no. 1, p. 34-43., Registrované v: WOS
 11. [1.1] CHEN, X.J. - LI, L.L. - ZHANG, Y. - ZHANG, J.H. - OUYANG, S.Q. - ZHANG, Q.X. - TONG, Y.H. - XU, J.Y. - ZUO, S.M. In EUROPEAN JOURNAL OF PLANT PATHOLOGY. OCT 2017, vol. 149, no. 2, p. 491-502., Registrované v: WOS
 12. [1.1] KE, X.B. - WANG, H.S. - LI, Y. - ZHU, B. - ZANG, Y.X. - HE, Y. - CAO, J.S. - ZHU, Z.J. - YU, Y.J. Genome-Wide Identification and Analysis of Polygalacturonase Genes in *Solanum lycopersicum*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. AUG 2018, vol. 19, no. 8., Registrované v: WOS
 13. [1.1] KIRSCH, R. - HECKEL, D.G. - PAUCHET, Y. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. APR 2016, vol. 71, p. 72-82., Registrované v: WOS
 14. [1.1] LIANG, Y. - YU, Y.J. - SHEN, X.P. - DONG, H. - LYU, M.L. - XU, L.A. - MA, Z.M. - LIU, T.T. - CAO, J.S. In PLANT MOLECULAR BIOLOGY. DEC 2015, vol. 89, no. 6, p. 629-646., Registrované v: WOS
 15. [1.1] LIANG, Y. - YU, Y.J. - CUI, J.L. - LYU, M.L. - XU, L.A. - CAO, J.S. In FUNCTIONAL & INTEGRATIVE GENOMICS. NOV 2016, vol. 16, no. 6, p. 641-656., Registrované v: WOS
 16. [1.1] LIAO, J.G. - CHEN, Z.Y. - WEI, X.M. - TAO, K.L. - ZHANG, J.W. - QIN, X.J. - PAN, Z.H. - MA, W.G. - PAN, L. - YANG, S. - WANG, M.Q. - OU, X.K. - CHEN, S.Y. Identification of pollen and pistil polygalacturonases in *Nicotiana tabacum* and their function in interspecific stigma compatibility. In PLANT REPRODUCTION. ISSN 2194-7953, DEC 2020, vol. 33, no. 3-4, p. 173-190., Registrované v: WOS
 17. [1.1] LIU, C. - LIU, Z.Y. - LI, C.Y. - ZHANG, Y. - FENG, H. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. APR 2016, vol. 52, no. 2, p. 130-139., Registrované v: WOS
 18. [1.1] LIU, N.N. - MA, X.W. - SUN, Y. - HOU, Y.X. - ZHANG, X.Y. - LI, F.G. In PLANT DISEASE. JUL 2017, vol. 101, no. 7, p. 1128-1138., Registrované v: WOS

19. [1.1] LI, J.J. - SU, L.T. - LV, A.M. - LI, Y.B. - ZHOU, P. - AN, Y. MsPG1 alleviated aluminum-induced inhibition of root growth by decreasing aluminum accumulation and increasing porosity and extensibility of cell walls in alfalfa (*Medicago sativa*). In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, JUL 2020, vol. 175., Registrované v: WOS
20. [1.1] LV, J.H. - LIU, Z.B. - YANG, B.Z. - DENG, M.H. - WANG, J. - LIU, Y.H. - ZHANG, Z.Q. - MA, Y.Q. - CHEN, W.C. - OU, L.J. - ZOU, X.X. Systematic identification and characterization of long non-coding RNAs involved in cytoplasmic male sterility in pepper (*Capsicum annuum* L.). In PLANT GROWTH REGULATION. ISSN 0167-6903, JUN 2020, vol. 91, no. 2, p. 277-288., Registrované v: WOS
21. [1.1] LYU, M.L. - LIANG, Y. - YU, Y.J. - MA, Z.M. - SONG, L.M. - YUE, X.Y. - CAO, J.S. In PLANT REPRODUCTION. JUN 2015, vol. 28, no. 2, p. 121-132., Registrované v: WOS
22. [1.1] LYU, M.L. - YU, Y.J. - JIANG, J.J. - SONG, L.M. - LIANG, Y. - MA, Z.M. - XIONG, X.P. - CAO, J.S. In PLOS ONE. JUL 8 2015, vol. 10, no. 7., Registrované v: WOS
23. [1.1] MCDONNELL, B. - MAHONY, J. - NEVE, H. - HANEMAAIJER, L. - NOBEN, J.P. - KOUWEN, T. - VAN SINDEREN, D. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. SEP 2016, vol. 82, no. 17, p. 5153-5165., Registrované v: WOS
24. [1.1] MERTENS, J.A. - BOWMAN, M.J. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. JAN 2016, vol. 5, p. 11-16., Registrované v: WOS
25. [1.1] NESHICH, I.A.P. - NISHIMURA, L. - DE MORAES, F.R. - SALIM, J.A. - VILLALTA-ROMERO, F. - BORRO, L. - YANO, I.H. - MAZONI, I. - TASIC, L. - JARDINE, J.G. - NESHICH, G. In CURRENT PROTEIN & PEPTIDE SCIENCE. 2015, vol. 16, no. 8, p. 701-717., Registrované v: WOS
26. [1.1] PANIAGUA, C. - RIC-VARAS, P. - GARCIA-GAGO, J.A. - LOPEZ-CASADO, G. - BLANCO-PORTALES, R. - MUNOZ-BLANCO, J. - SCHUCKEL, J. - KNOX, J.P. - MATAS, A.J. - QUESADA, M.A. - POSE, S. - MERCADO, J.A. Elucidating the role of polygalacturonase genes in strawberry fruit softening. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 31 2020, vol. 71, no. 22, p. 7103-7117., Registrované v: WOS
27. [1.1] RUIZ, G.B. - DI PIETRO, A. - RONCERO, M.I.G. In MOLECULAR PLANT PATHOLOGY. APR 2016, vol. 17, no. 3, p. 339-353., Registrované v: WOS
28. [1.1] SHOWMAKER, K.C. - BEDNAROVA, A. - GRESHAM, C. - HSU, C.Y. - PETERSON, D.G. - KRISHNAN, N. In PLOS ONE. JAN 20 2016, vol. 11, no. 1., Registrované v: WOS
29. [1.1] SULTAN, E.A.A. - ABDEL-HADI, A.H.A. - ABDALLAH, N.A. - TAWFIK, M.S. Identification and molecular characterization of false septa-expressed polygalacturonase gene homologue from sesame (*sesamum indicum* L.). In BIOSCIENCE RESEARCH. OCT-DEC 2018, vol. 15, no. 4, p. 3175-3187., Registrované v: WOS
30. [1.1] TAKESHIMA, R. - NISHIO, T. - KOMATSU, S. - KURAUCHI, N. - MATSUI, K. Identification of a gene encoding polygalacturonase expressed specifically in short styles in distylous common buckwheat (*Fagopyrum esculentum*). In HEREDITY. OCT 2019, vol. 123, no. 4,

p. 492-502., Registrované v: WOS

31. [1.1] TU, T. - LI, Y.Q. - SU, X.Y. - MENG, K. - MA, R. - WANG, Y. - YAO, B. - LIN, Z.M. - LUO, H.Y. In SCIENTIFIC REPORTS. DEC 8 2016, vol. 6., Registrované v: WOS

32. [1.1] VERMELHO, A.B. - CARDOSO, V. - NASCIMENTO, R.P. - PINHEIRO, A.S. - RODRIGUES, I.A. In ADVANCES IN FOOD BIOTECHNOLOGY. 2016, p. 105-131., Registrované v: WOS

33. [1.1] WANG, F.F. - SUN, X. - SHI, X.Y. - ZHAI, H. - TIAN, C.G. - KONG, F.J. - LIU, B.H. - YUAN, X.H. In PLOS ONE. SEP 22 2016, vol. 11, no. 9., Registrované v: WOS

34. [1.1] WARREN, J.G. - LINCOLN, J.E. - KIRKPATRICK, B.C. In PLOS ONE. NOV 16 2015, vol. 10, no. 11., Registrované v: WOS

35. [1.1] XU, P.J. - LU, B. - LIU, J.Y. - CHAO, J.T. - DONKERSLEY, P. - HOLDBROOK, R. - LU, Y.H. Duplication and expression of horizontally transferred polygalacturonase genes is associated with host range expansion of mirid bugs. In BMC EVOLUTIONARY BIOLOGY. JAN 9 2019, vol. 19., Registrované v: WOS

36. [1.1] YANG, Y. - YU, Y.J. - LIANG, Y. - ANDERSON, C.T. - CAO, J.S. A Profusion of Molecular Scissors for Pectins: Classification, Expression, and Functions of Plant Polygalacturonases. In FRONTIERS IN PLANT SCIENCE. AUG 14 2018, vol. 9., Registrované v: WOS

37. [1.2] GE, Ting - HUANG, Xue - XIE, Rang Jin. Recent advances in polygalacturonase gene in fruit tree species. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2019-08-20, 55, 8, pp. 1075-1088., Registrované v: SCOPUS

38. [1.2] GE, Ting - HUANG, Xue - XIE, Rang Jin. Cloning, subcellular localization and expression analysis of CiTPG34 in citrus. In Scientia Agricultura Sinica. ISSN 05781752, 2019-10-10, 52, 19, pp. 3404-3416., Registrované v: SCOPUS

39. [1.2] Chen, H.-F., Shao, H.-X., Fan, S., Ma, J.-J., Zhang, D., Han, M.-Y. Acta Horticulturae Sinica 43 (2016), pp. 1863-1877, Registrované v: SCOPUS

ADCA857 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin methylesterases: sequence-structural features and phylogenetic relationships. In *Carbohydrate Research*, 2004, vol. 339, p. 2281-2295. (2003: 1.533 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2004.06.023>

Ohlasy:

1. [1.1] ASLER, Ivana Lescic - STEFANIC, Petra Peharec - BALEN, Biljana - ALLMAIER, Guenter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIC, Biserka. Horseradish esterases: detection, purification and identification. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2017, vol. 130, no. 1, pp. 13-24., Registrované v: WOS

2. [1.1] DOROKHOV, Yuri L. - SHINDYAPINA, Anastasia V. - SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. METABOLIC METHANOL: MOLECULAR PATHWAYS AND PHYSIOLOGICAL ROLES. In PHYSIOLOGICAL REVIEWS. ISSN 0031-9333, 2015, vol. 95, no. 2, pp. 603-644., Registrované v: WOS

3. [1.1] FERNANDES, Joao C. - GOULAO, Luis F. - AMANCIO, Sara.

- Regulation of cell wall remodeling in grapevine (*Vitis vinifera* L.) callus under individual mineral stress deficiency. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 190, no., pp. 95-105., Registrované v: WOS
4. [1.1] GENG, Xiaoyu - HORST, Walter J. - GOLZ, John F. - LEE, Joanne E. - DING, Zhaojun - YANG, Zhong-Bao. LEUNIG_HOMOLOG transcriptional co-repressor mediates aluminium sensitivity through PECTIN METHYLESTERASE46-modulated root cell wall pectin methylesterification in Arabidopsis. In PLANT JOURNAL. ISSN 0960-7412, 2017, vol. 90, no. 3, pp. 491-504., Registrované v: WOS
 5. [1.1] GHOLIZADEH, A. Pectin methylesterase activity of plant DUF538 protein superfamily. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, APR 2020, vol. 26, no. 4, p. 829-839., Registrované v: WOS
 6. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
 7. [1.1] CHEONG, Mi Sun - LEE, Deuk Yeong - SEO, Kyung Hye - CHOI, Geun-Hyoung. - SONG, Yeong Hun - PARK, Ki Hun - KIM, Jin-Hyo. Phenylephrine, a small molecule, inhibits pectin methylesterases. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2019, vol. 508, no. 1, pp. 320-325., Registrované v: WOS
 8. [1.1] CHEONG, Mi Sun - LEE, Deuk Yeong - SEO, Kyung Hye - CHOI, Geun-Hyoung. - SONG, Yeong Hun - PARK, Ki Hun - KIM, Jin-Hyo. Phenylephrine, a small molecule, inhibits pectin methylesterases. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2019, vol. 508, no. 1, pp. 320-325., Registrované v: WOS
 9. [1.1] KIM, Seong-Cheol - UHM, Yoon Kyung - KO, Seunghye - OH, Chang Jae - KWACK, Yong-Bum - KIM, Hong Lim - LEE, Yi - AN, Chung Sun - PARK, Phun Bum - KIM, Ho Bang. KiwiPME1 encoding pectin methylesterase is specifically expressed in the pollen of a dioecious plant species, kiwifruit (*Actinidia chinensis*). In HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY. ISSN 2211-3452, 2015, vol. 56, no. 3, pp. 402-410., Registrované v: WOS
 10. [1.1] KIRSCH, Roy - HECKEL, David G. - PAUCHET, Yannick. How the rice weevil breaks down the pectin network: Enzymatic synergism and sub-functionalization. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 71, no., pp. 72-82., Registrované v: WOS
 11. [1.1] LI, Weijie - SHANG, Haihong - GE, Qun - ZOU, Changsong - CAI, Juan - WANG, Daojie - FAN, Senmiao - ZHANG, Zhen - DENG, Xiaoying - TAN, Yunna - SONG, Weiwu - LI, Pengtao - KOFFI, Palanga Kibalou - JAMSHED, Muhammad - LU, Quanwei - GONG, Wankui - LI, Junwen - SHI, Yuzhen - CHEN, Tingting - GONG, Juwu - LIU, Aiyang - YUAN, Youlu. Genome-wide identification, phylogeny, and expression analysis of pectin methylesterases reveal their major role in cotton fiber development. In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
 12. [1.1] LU, Yongxian - HOKIN, Samuel A. - KERMICLÉ, Jerry L. - HARTWIG, Thomas - EVANS, Mathew M. S. A pistil-expressed pectin methylesterase confers cross-incompatibility between strains of *Zea mays*. In

NATURE COMMUNICATIONS. ISSN 2041-1723, 2019, vol. 10, no., pp. 2304,
Registrované v: WOS

13. [1.1] MC NAMARA, Louise - GRIFFIN, Christine T. - FITZPATRICK, David - KAVANAGH, Kevin - CAROLAN, James C. The effect of entomopathogenic fungal culture filtrate on the immune response and haemolymph proteome of the large pine weevil, *Hylobius abietis*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2018, vol. 101, no., pp. 1-13., Registrované v: WOS

14. [1.1] OWEN, J. L. - KENT, L. M. - RALET, M.C. - CAMERON, R. G. - WILLIAMS, M. A. K. A tale of two pectins: Diverse fine structures can result from identical processive PME treatments on similar high DM substrates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 168, no., pp. 365-373., Registrované v: WOS

15. [1.1] REEM, N.T. - CHAMBERS, L. - ZHANG, N. - ABDULLAH, S.F. - CHEN, Y.T. - FENG, G.H. - GAO, S. - SOTO-BURGOS, J. - POGORELKO, G. - BASSHAM, D.C. - ANDERSON, C.T. - WALLEY, J.W. - ZABOTINA, O.A. Post-Synthetic Reduction of Pectin Methylesterification Causes Morphological Abnormalities and Alterations to Stress Response in *Arabidopsis thaliana*. In PLANTS-BASEL. NOV 2020, vol. 9, no. 11., Registrované v: WOS

16. [1.1] REMOROZA, Connie - WAGENKNECHT, Martin - BUCHHOLT, Hans Christian - MOERSCHBACHER, Bruno M. - GRUPPEN, Harry - SCHOLS, Henk A. Mode of action of *Bacillus licheniformis* pectin methylesterase on highly methylesterified and acetylated pectins. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 540-550., Registrované v: WOS

17. [1.1] SCHELER, Claudia - WEITBRECHT, Karin - PEARCE, Simon P. - HAMPSTEAD, Anthony - BUETTNER-MAINIK, Annette - LEE, Kieran J. D. - VOEGELE, Antje - ORACZ, Krystyna - DEKKERS, Bas J. W. - WANG, Xiaofeng - WOOD, Andrew T. A. - BENTSINK, Leonie - KING, John R. - KNOX, J. Paul - HOLDSWORTH, Michael J. - MUELLER, Kerstin - LEUBNER-METZGER, Gerhard. Promotion of Testa Rupture during Garden Cress Germination Involves Seed Compartment-Specific Expression and Activity of Pectin Methylesterases. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2015, vol. 167, no. 1, pp. 200-+, Registrované v: WOS

18. [1.1] WEN, B. - ZHANG, F. - WU, X.Z. - LI, H. Characterization of the Tomato (*Solanum lycopersicum*) Pectin Methylesterases: Evolution, Activity of Isoforms and Expression During Fruit Ripening. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, MAR 3 2020, vol. 11., Registrované v: WOS

19. [1.1] WERADUWAGE, Sarathi M. - CAMPOS, Marcelo L. - YOSHIDA, Yuki - MAJOR, Ian T. - KIM, Yong-Sig - KIM, Sang-Jin - RENNA, Luciana - ANOZIE, Fransisca C. - BRANDIZZI, Federica - THOMASHOW, Michael F. - HOWE, Gregg A. - SHARKEY, Thomas D. Molecular Mechanisms Affecting Cell Wall Properties and Leaf Architecture. In LEAF: A PLATFORM FOR PERFORMING PHOTOSYNTHESIS. ISSN 1572-0233, 2018, vol. 44, no., pp. 209-253., Registrované v: WOS

20. [1.1] YUE, Xiaoyan - LIN, Sue - YU, Youjian - HUANG, Li - CAO, Jiashu. The putative pectin methylesterase gene, BcMF23a, is required for microspore development and pollen tube growth in *Brassica campestris*. In PLANT CELL REPORTS. ISSN 0721-7714, 2018, vol. 37, no. 7, pp.

1003-1009., Registrované v: WOS

21. [1.1] YUE, X. Y. - CAO, J. S. - MA, Z. M. - LIU, T. T. - XIONG, X. P. - LIN, S. E. - LYU, M. L. - HUANG, L. Characterization and Expression Pattern of a Putative Pectin Methylesterase Gene, BcMF27, in *Brassica campestris ssp chinensis*. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2018, vol. 65, no. 3, pp. 364-371., Registrované v: WOS

22. [1.1] ZEGA, Alessandra - D'OVIDIO, Renato. Genome-wide characterization of pectin methyl esterase genes reveals members differentially expressed in tolerant and susceptible wheats in response to *Fusarium graminearum*. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2016, vol. 108, no., pp. 1-11., Registrované v: WOS

23. [1.1] ZHANG, Panpan - WANG, Hao - QIN, Xiner - CHEN, Kuan - ZHAO, Jiuran - ZHAO, Yanxin - YUE, Bing. Genome-wide identification, phylogeny and expression analysis of the PME and PME1 gene families in maize. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp. 19918, Registrované v: WOS

24. [1.2] LEŠČIĆ AŠLER, Ivana - PEHAREC ŠTEFANIĆ, Petra - BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIĆ, Biserka. Horseradish esterases: detection, purification and identification. In Plant Cell, Tissue and Organ Culture. ISSN 01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS

25. [2.1] TARIQ, Anam - GUL, Alina - MUHAMMAD, Majida A. - RASHID, Naeem - SIDDIQUI, Masood A. Recombinant Tk0522, a carbohydrate esterase homologue from *Thermococcus kodakarensis*, does not require a signal sequence for translocation to periplasmic space in *Escherichia coli*. In BIOLOGIA. ISSN 0006-3088, 2019, vol. 74, no. 7, pp. 899-904., Registrované v: WOS

26. [3.2] Group Author(s) Uniprot Consortium. Q9SMY7. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9SMY7>, Registrované v: Data Citation Index

27. [3.2] Group Author(s). Uniprot Consortium. Q9M9W7. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9M9W7>, Registrované v: Data Citation Index

28. [3.2] Group Author(s). Uniprot Consortium. Q9SMY7. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9SMY7>, Registrované v: Data Citation Index

29. [3.2] Group Author(s). Uniprot Consortium. O22149. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/O22149>, Registrované v: Data Citation Index

30. [3.2] Group Author(s). Uniprot Consortium. O49006. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/O49006>, Registrované v: Data Citation Index

31. [3.2] Group Author(s). Uniprot Consortium. Q9FF78. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9FF78>, Registrované v: Data Citation index

32. [3.2] Group Author(s). Uniprot Consortium. Q9LY19. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9LY19>, Registrované v: Data Citation Index

33. [3.2] Group Author(s). Uniprot Consortium. Q1JPL7. IN UniProt Knowledgebase, 2017. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q1JPL7>, Registrované v: Data Citation Index
34. [3.2] Group Author(s). Uniprot Consortium. Q9STY3. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9STY3>, Registrované v: Data Citation index
35. [3.2] Group Author(s). Uniprot Consortium. O48711. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/O48711>, Registrované v: Data Citation Index
36. [3.2] Group Author(s). Uniprot Consortium. Q84R10. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q84R10>, Registrované v: Data Citation Index
37. [3.2] Group Author(s). Uniprot Consortium. Q9SKX2. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SKX2>, Registrované v: Data Citation Index
38. [3.2] Group Author(s). Uniprot Consortium. Q9FF77. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FF77>, Registrované v: Data Citation Index
39. [3.2] Group Author(s). Uniprot Consortium. Q7Y201. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q7Y201>, Registrované v: Data Citation Index
40. [3.2] Group Author(s). Uniprot Consortium. Q9M3B0. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9M3B0>, Registrované v: Data Citation Index
41. [3.2] Group Author(s). Uniprot Consortium. Q43867. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q43867>, Registrované v: Data Citation Index
42. [3.2] Group Author(s). Uniprot Consortium. Q9ZQA4. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9ZQA4>, Registrované v: Data Citation Index
43. [3.2] Group Author(s). Uniprot Consortium. Q8GX86. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8GX86>, Registrované v: Data Citation Index
44. [3.2] Group Author(s). Uniprot Consortium. Q1PEC0. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q1PEC0>, Registrované v: Data citation Index
45. [3.2] Group Author(s). Uniprot Consortium. Q9LUL8. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LUL8>, Registrované v: Data Citation index
46. [3.2] Group Author(s). Uniprot Consortium. O64479. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/O64479>, Registrované v: Data Citation Index
47. [3.2] Group Author(s). Uniprot Consortium. Q84JX1. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q84JX1>, Registrované v: Data Citation Index
48. [3.2] Group Author(s). Uniprot Consortium. Q9ZQA3. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9ZQA3>, Registrované v: Data Citation Index
49. [3.2] Group Author(s). Uniprot Consortium. Q9SIJ9. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SIJ9>, Registrované v: Data Citation Index
50. [3.2] Group Author(s). Uniprot Consortium. O22256. IN UniProt

Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/O22256>, Registrované v: Data Citation Index
 51. [3.2] Group Author(s). Uniprot Consortium. O23447. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/O23447>, Registrované v: Data Citation Index
 52. [3.2] Group Author(s). Uniprot Consortium. Q9SMY6. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SMY6>, Registrované v: Data Citation Index
 53. [3.2] Group Author(s). Uniprot Consortium. Q9SG77. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SG77>, Registrované v: Data Citation Index
 54. [3.2] Group Author(s). Uniprot Consortium. Q9FJ21. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FJ21>, Registrované v: Data Citation Index
 55. [3.2] Group Author(s). Uniprot Consortium. Q9LY18. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LY18>, Registrované v: Data citation Index
 56. [3.2] Group Author(s). Uniprot Consortium. O80722. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/O80722>, Registrované v: Data Citation Index
 57. [3.2] Group Author(s). Uniprot Consortium. Q8GXA1. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8GXA1>, Registrované v: Data Citation Index
 58. [3.2] Group Author(s). Uniprot Consortium. Q94CB1. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q94CB1>, Registrované v: Data Citation Index
 59. [3.2] Group Author(s). Uniprot Consortium. Q84WM7. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q84WM7>, Registrované v: Data Citation Index
 60. [3.2] Group Author(s). Uniprot Consortium. Q5MFV8. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q5MFV8>, Registrované v: Data Citation Index
 61. [3.2] Group Author(s). Uniprot Consortium. Q8VYZ3. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8VYZ3>, Registrované v: Data Citation Index
 62. [3.2] Group Author(s). Uniprot Consortium. Q4PT34. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q4PT34>, Registrované v: Data Citation Index
 63. [3.2] Group Author(s). Uniprot Consortium. Q3E989. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E989>, Registrované v: Data Citation Index
 64. [3.2] Group Author(s). Uniprot Consortium. Q9LY17. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LY17>, Registrované v: Data Citation Index
 65. [3.2] Group Author(s). Uniprot Consortium. O04953. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/O04953>, Registrované v: Data Citation Index
 66. [3.2] Group Author(s). Uniprot Consortium. Q9FHN5. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FHN5>, Registrované v: Data Citation Index

67. [3.2] Group Author(s). Uniprot Consortium. Q3E9D3. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: Data Citation Index

68. [3.2] Group Author(s). Uniprot Consortium. Q3E9D3. IN UniProt Knowledgebase, 2016. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: Data Citation Index

69. [3.2] Group Author(s). Uniprot Consortium. Q8L7Q7. IN UniProt Knowledgebase 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8L7Q7>, Registrované v: Data Citation Index

70. [3.2] Group Author(s). Uniprot Consortium. Q9FJ21. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FJ21>, Registrované v: Data Citation Index

71. [3.2] Group Author(s). Uniprot Consortium. O49298. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O49298>, Registrované v: Data Citation Index

72. [3.2] Group Author(s). Uniprot Consortium. Q9LY18. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LY18>, Registrované v: Data Citation Index

73. [3.2] Group Author(s). Uniprot Consortium. O80722. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O80722>, Registrované v: Data Citation Index

74. [3.2] Group Author(s). Uniprot Consortium. Q9LVQ0. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LVQ0>, Registrované v: Data Citation Index

75. [3.2] Group Author(s). Uniprot Consortium. Q9FK05. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FK05>, Registrované v: Data Citation Index

76. [3.2] Group Author(s). Uniprot Consortium. O49006. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O49006>, Registrované v: Data Citation Index

77. [3.2] Group Author(s). Uniprot Consortium. Q9FF78. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FF78>, Registrované v: Data Citation Index

78. [3.2] Group Author(s). Uniprot Consortium. Q9FM79. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FM79>, Registrované v: Data Citation Index

79. [3.2] Group Author(s). Uniprot Consortium. Q9LY19. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LY19>, Registrované v: Data Citation Index

80. [3.2] Group Author(s). Uniprot Consortium. Q84WM7. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q84WM7>, Registrované v: Data Citation Index

81. [3.2] Group Author(s). Uniprot Consortium. Q9STY3. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9STY3>, Registrované v: Data Citation Index

82. [3.2] Group Author(s). Uniprot Consortium. O48711. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O48711>, Registrované v: Data Citation Index

83. [3.2] Group Author(s). Uniprot Consortium. Q8LPF3. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q9LSP1>, Registrované v: Data Citation Index
84. [3.2] Group Author(s). Uniprot Consortium. Q84R10. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q84R10>, Registrované v: Data Citation Index
85. [3.2] Group Author(s). Uniprot Consortium. Q5MFV8. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q5MFV8>, Registrované v: Data Citation Index
86. [3.2] Group Author(s). Uniprot Consortium. Q9FF77. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FF77>, Registrované v: Data Citation Index
87. [3.2] Group Author(s). Uniprot Consortium. Q9FKF3. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FKF3>, Registrované v: Data Citation Index
88. [3.2] Group Author(s). Uniprot Consortium. Q9M3B0. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9M3B0>, Registrované v: Data Citation Index
89. [3.2] Group Author(s). Uniprot Consortium. Q9FHN4. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FHN4>, Registrované v: Data Citation Index
90. [3.2] Group Author(s). Uniprot Consortium. O81415. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O81415>, Registrované v: Data Citation Index
91. [3.2] Group Author(s). Uniprot Consortium. Q8VYZ3. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8VYZ3>, Registrované v: Data Citation Index
92. [3.2] Group Author(s). Uniprot Consortium. Q3EAY9. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3EAY9>, Registrované v: Data Citation Index
93. [3.2] Group Author(s). Uniprot Consortium. Q4PT34. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q4PT34>, Registrované v: Data Citation Index
94. [3.2] Group Author(s). Uniprot Consortium. O81320. IN UniProt Knowledgebase 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O81320>, Registrované v: Data Citation Index
95. [3.2] Group Author(s). Uniprot Consortium. Q9LYT5. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LYT5>, Registrované v: Data Citation Index
96. [3.2] Group Author(s). Uniprot Consortium. Q1PEC0. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q1PEC0>, Registrované v: Data Citation Index
97. [3.2] Group Author(s). Uniprot Consortium. Q3E8Z8. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E8Z8>, Registrované v: Data Citation Index
98. [3.2] Group Author(s). Uniprot Consortium. Q3E989. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E989>, Registrované v: Data Citation Index
99. [3.2] Group Author(s). Uniprot Consortium. O64479. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O64479>, Registrované v: Data Citation Index
100. [3.2] Group Author(s). Uniprot Consortium. Q42534. IN UniProt

Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q42534>, Registrované v: Data Citation Index
 101. [3.2] Group Author(s). Uniprot Consortium. Q9LY17. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LY17>, Registrované v: Data Citation Index
 102. [3.2] Group Author(s). Uniprot Consortium. Q4PSQ5. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q4PSQ5>, Registrované v: Data Citation Index
 103. [3.2] Group Author(s). Uniprot Consortium. Q4PSN0. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q4PSN0>, Registrované v: Data Citation Index
 104. [3.2] Group Author(s). Uniprot Consortium. O04953. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O04953>, Registrované v: Data Citation Index
 105. [3.2] Group Author(s). Uniprot Consortium. Q9FHN5. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9FHN5>, Registrované v: Data Citation Index
 106. [3.2] Group Author(s). Uniprot Consortium. Q9LXK7. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LXK7>, Registrované v: Data Citation Index
 107. [3.2] Group Author(s). Uniprot Consortium. Q3E9D3. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: Data Citation Index
 108. [3.2] Group Author(s). Uniprot Consortium. Q9SIJ9. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SIJ9>, Registrované v: Data Citation Index
 109. [3.2] Group Author(s). Uniprot Consortium. Q8RXK7. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q8RXK7>, Registrované v: Data Citation Index
 110. [3.2] Group Author(s). Uniprot Consortium. O81301. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O81301>, Registrované v: Data Citation Index
 111. [3.2] Group Author(s). Uniprot Consortium. O23447. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O23447>, Registrované v: Data Citation Index
 112. [3.2] Group Author(s). Uniprot Consortium. Q9SMY6. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9SMY6>, Registrované v: Data Citation Index
 113. [3.2] Group Author(s). Uniprot Consortium. Q9MAL0. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9MAL0>, Registrované v: Data Citation Index
 114. [3.2] Group Author(s). Uniprot Consortium. Q9LXD9. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/Q9LXD9>, Registrované v: Data Citation Index
 115. [3.2] Group Author(s). Uniprot Consortium. O23038. IN UniProt Knowledgebase, 2018. Dostupné na internete:
<http://www.uniprot.org/uniprot/O23038>, Registrované v: Data Citation Index

455-462. ISSN 0014-2956. Dostupné na:
<https://doi.org/10.1111/j.1432-1033.1986.tb09775.x>

Ohlasy:

1. [3.2] Group Author(s). Uniprot Consortium. P14280. IN UniProt Knowledgebase, 2016. Dostupné na internete:

<http://www.uniprot.org/uniprot/P14280>, Registrované v: Data Citation Group

ADCA859 MARKOVIČ, Oskar - THEORELL, H. - RAO, S. Rat liver alcohol dehydrogenase. Purification and properties. In *Acta Chemica Scandinavica*, 1971, vol. 25, p. 195-205.

Ohlasy:

1. [1.1] PLAPP, Bryce V. - LEIDAL, Kevin G. - MURCH, Bruce P. - GREEN, David W. Contribution of liver alcohol dehydrogenase to metabolism of alcohols in rats. In *CHEMICO-BIOLOGICAL INTERACTIONS*. ISSN 0009-2797, 2015, vol. 234, no., pp. 85-95., Registrované v: WOS

ADCA860 MARKOVIČ, Oskar - JORNVALL, H. Tomato and *Aspergillus niger* pectinesterases. Correlation of differences in existing reports. Large species variations. In *ProteinSequence Data Analysis.*, 1990, vol. 3, p. 513-515.

Ohlasy:

1. [1.1] Group Author(s): Uniprot Consortium. P14280. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P14280>, Registrované v: WOS

ADCA861 MAROVÁ, Ivana - ČARNECKÁ, Martina - HALIENOVÁ, Andrea - BREIEROVÁ, Emília - KOČÍ, Radka. Production of carotenoid-/ergosterol-supplemented biomass by red yeast *Rhodotorula glutinis* grown under external stress. In *Food Technology and Biotechnology : Journal of the Faculty of Food Technology and Biotechnology*, 2010, vol.48, p. 56-61. (2009: 0.976 - IF, Q2 - JCR, 0.664 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1330-9862.

Ohlasy:

1. [1.1] BOGUSLAWSKA-WAS, Elzbieta - DLUBALA, Alicja - LASKOWSKA, Maria. The role of *Rhodotorula mucilaginosa* in selected biological process of wild fish. In *FISH PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0920-1742, 2019, vol. 45, no. 2, pp. 511-521., Registrované v: WOS

2. [1.1] ELFEKY, Nora - ELMAHMOUDY, Mostafa - ZHANG, Yue - GUO, JianLi - BAO, Yongming. Lipid and Carotenoid Production by *Rhodotorula glutinis* with a Combined Cultivation Mode of Nitrogen, Sulfur, and Aluminium Stress. In *APPLIED SCIENCES-BASEL*, 2019, vol. 9, no. 12, pp., Registrované v: WOS

3. [1.1] EL-ZINEY, Mohamed G. - ZAID, Eslam A.Abu - EL-NAGGAR, Moustafa Y. Characterization of carotenogenic *rhodotorula* strains isolated from delta region, Egypt and their potential for carotenoids production. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2018-06-01, 12, 2, pp. 587-599., Registrované v: WOS

4. [1.1] GHILARDI, Carolina - SANMARTIN NEGRETE, Paola - CARELLI, Amalia Antonia - BORRONI, Virginia. Evaluation of olive mill waste as substrate for carotenoid production by *Rhodotorula mucilaginosa*. In

- BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-00341-7>., Registrované v: WOS
5. [1.1] GUO, Yuqi - XIE, Shangxian - YUAN, Joshua S. - KAO, Katy C. Effects of Seawater on Carotenoid Production and Lipid Content of Engineered *Saccharomyces cerevisiae*. In FERMENTATION-BASEL, 2019, vol. 5, no. 1, pp., Registrované v: WOS
 6. [1.1] KIM, Mibang - SEO, Dong-Ho - PARK, Young-Seo - CHA, In-Tae - SEO, Myung-Ji. Isolation of *Lactobacillus plantarum* subsp. *plantarum* Producing C-30 Carotenoid 4,4'-Diaponeurosporene and the Assessment of Its Antioxidant Activity. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2019, vol. 29, no. 12, pp. 1925-1930., Registrované v: WOS
 7. [1.1] KOT, Anna M. - BLAZEJAK, Stanislaw - KURCZ, Agnieszka - GIENTKA, Iwona - KIELISZEK, Marek. *Rhodotorula glutinis*-potential source of lipids, carotenoids, and enzymes for use in industries. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 14, pp. 6103-6117., Registrované v: WOS
 8. [1.1] LANDOLFO, Sara - CHESSA, Rossella - ZARA, Giacomo - ZARA, Severino - BUDRONI, Marilena - MANNAZZU, Ilaria. *Rhodotorula mucilaginosa* C2.5t1 Modulates Carotenoid Content and CAR Genes Transcript Levels to Counteract the Pro-Oxidant Effect of Hydrogen Peroxide. In MICROORGANISMS, 2019, vol. 7, no. 9, pp., Registrované v: WOS
 9. [1.1] LEBEAU, Juliana - PETIT, Thomas - DUFOSSÉ, Laurent - CARO, Yanis. Putative metabolic pathway for the bioproduction of bikaverin and intermediates thereof in the wild *Fusarium oxysporum* LCP531 strain. In AMB EXPRESS. ISSN 2191-0855, 2019, vol. 9, no. 1, pp., Registrované v: WOS
 10. [1.1] SINGH, Gunjan - JAWED, Arshad - PAUL, Debarati - BANDYOPADHYAY, Kalyan K. - KUMARI, Abha - HAQUE, Shafiul. Concomitant Production of Lipids and Carotenoids in *Rhodospiridium toruloides* under Osmotic Stress Using Response Surface Methodology. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
 11. [1.2] KACZOR, Agnieszka - PACIA, Marta Z. Impact of Stress Factors on Carotenoid Composition, Structures, and Bioavailability in Microbial Sources. In Carotenoids in Nutrition: Therapy, Spectroscopy and Technology, 2016-01-21, pp. 241-260., Registrované v: SCOPUS

ADCA862 MÁROVÁ, I. - BREIEROVÁ, Emília - KOČÍ, R. - FRIEDL, Z. - SLOVÁK, B. - POKORNÁ, J. Influence of exogenous stress factors on production of carotenoids by some strains of carotenogenic yeasts. In *Annals of Microbiology*, 2004, vol. 54, p. 73-75. ISSN 1590-4261.

Ohlasy:

1. [1.1] BYDLINSKI, Nina - HARREITHER, Eva - BAUMANN, Martina. The 6th International Conference on Analysis of Microbial Cells at the Single Cell Level, Retz, Austria, 19-22 July 2015. In New Biotechnology. ISSN 1871-6784, 2017, vol. 34, no., pp. 68-72., Registrované v: WOS
2. [1.1] GHILARDI, Carolina - SANMARTIN NEGRETE, Paola - CARELLI, Amalia Antonia - BORRONI, Virginia. Evaluation of olive mill waste as substrate for carotenoid production by *Rhodotorula mucilaginosa*. In BIORRESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné

na: <https://doi.org/10.1186/s40643-020-00341-7>., Registrované v: WOS

3. [1.1] KIRCHHOFF, Lisa - OLSOWSKI, Maike - RATH, Peter-Michael - STEINMANN, Joerg. Exophiala dermatitidis: Key issues of an opportunistic fungal pathogen. In VIRULENCE. ISSN 2150-5594, 2019, vol. 10, no. 1, pp. 984-998., Registrované v: WOS

4. [1.1] MANNAZZU, Ilaria - LANDOLFO, Sara - DA SILVA, Teresa Lopes - BUZZINI, Pietro. Red yeasts and carotenoid production: outlining a future for non-conventional yeasts of biotechnological interest. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2015, vol. 31, no. 11, pp. 1665-1673., Registrované v: WOS

5. [1.1] PI, Hong-Wei - ANANDHARAJ, Marimuthu - KAO, Yi-Ying - LIN, Yu-Ju - CHANG, Jui-Jen - LI, Wen-Hsiung. Engineering the oleaginous red yeast Rhodotorula glutinis for simultaneous beta-carotene and cellulase production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

6. [1.1] TKACOVA, Jana - KLEMPOVA, Tatiana - CERTIK, Milan. Kinetic study of growth, lipid and carotenoid formation in beta-carotene producing Rhodotorula glutinis. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 5, pp. 1193-1203., Registrované v: WOS

7. [1.1] VILLARREAL, Pablo - CARRASCO, Mario - BARAHONA, Salvador - ALCAINO, Jennifer - CIFUENTES, Victor - BAEZA, Marcelo. Tolerance to Ultraviolet Radiation of Psychrotolerant Yeasts and Analysis of Their Carotenoid, Mycosporine, and Ergosterol Content. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2016, vol. 72, no. 1, pp. 94-101., Registrované v: WOS

8. [1.2] KACZOR, Agnieszka - PACIA, Marta Z. Impact of Stress Factors on Carotenoid Composition, Structures, and Bioavailability in Microbial Sources. In Carotenoids in Nutrition: Therapy, Spectroscopy and Technology, 2016-01-21, pp. 241-260., Registrované v: SCOPUS

ADCA863 MARTINKA, Michal - DOLAN, Liam - PERNAS, Monica - ABE, Jun - LUX, Alexander. Endodermal cell-cell contact is required for the spatial control of Casparian band development in Arabidopsis thaliana. In *Annals of Botany*, 2012, vol. 110, no. 2, p. 361-371. (2011: 4.030 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcs110>

Ohlasy:

1. [1.1] BARBERON, Marie. The endodermis as a checkpoint for nutrients. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1604-1610., Registrované v: WOS

2. [1.1] DELUDE, Camille - FOUILLEN, Laetitia - BHAR, Palash - CARDINAL, Marie-Josée - PASCAL, Stephanie - SANTOS, Patricia - KOSMA, Dylan K. - JOUBES, Jerome - ROWLAND, Owen - DOMERGUE, Frederic. Primary Fatty Alcohols Are Major Components of Suberized Root Tissues of Arabidopsis in the Form of Alkyl Hydroxycinnamates. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2016, vol. 171, no. 3, pp. 1934-1950., Registrované v: WOS

3. [1.1] KITIN, P. - NAKABA, S. - HUNT, C.G. - LIM, S. - FUNADA, R. Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. In AOB PLANTS. ISSN 2041-2851, JUN 29 2020, vol. 12, no.

4., Registrované v: WOS

4. [1.1] LI, Baohai - KAMIYA, Takehiro - KALMBACH, Lothar - YAMAGAMI, Mutsumi - YAMAGUCHI, Katsushi - SHIGENOBU, Shuji - SAWA, Shinichiro - DANKU, John M. C. - SALT, David E. - GELDNER, Niko - FUJIWARA, Toru. Role of LOTR1 in Nutrient Transport through Organization of Spatial Distribution of Root Endodermal Barriers. In CURRENT BIOLOGY. ISSN 0960-9822, 2017, vol. 27, no. 5, pp. 758-765., Registrované v: WOS

5. [1.1] LI, L. - ZHUANG, Y. Are cuproproteins part of the multi-protein framework for making the Casparian strip?. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, OCT 2 2020, vol. 15, no. 10., Registrované v: WOS

6. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

7. [1.1] LI, Pengxue - YU, Qiaozhi - GU, Xu - XU, Chunmiao - QI, Shilian - WANG, Hong - ZHONG, Fenglin - BASKIN, Tobias I. - RAHMAN, Abidur - WU, Shuang. Construction of a Functional Casparian Strip in Non-endodermal Lineages Is Orchestrated by Two Parallel Signaling Systems in Arabidopsis thaliana. In CURRENT BIOLOGY. ISSN 0960-9822, 2018, vol. 28, no. 17, pp. 2777-+, Registrované v: WOS

8. [1.1] SHEN, Jie - XU, Guoxin - ZHENG, Hui Qiong. Apoplastic barrier development and water transport in Zea mays seedling roots under salt and osmotic stresses. In PROTOPLASMA. ISSN 0033-183X, 2015, vol. 252, no. 1, pp. 173-180., Registrované v: WOS

9. [1.1] TANAKA, Kiwamu - CHO, Sung-Hwan - LEE, Hyeyoung - PHAM, An Q. - BATEK, Josef M. - CUI, Shiqi - QIU, Jing - KHAN, Saad M. - JOSHI, Trupti - ZHANG, Zhanyuan J. - XU, Dong - STACEY, Gary. Effect of lipo-chitoooligosaccharide on early growth of C-4 grass seedlings. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2015, vol. 66, no. 19, pp. 5727-5738., Registrované v: WOS

10. [1.1] TAO, Qi - JUPA, Radek - LUO, Jipeng - LUX, Alexander - KOVAC, Jan - WEN, Yue - ZHOU, Yimei - JAN, Japenga - LIANG, Yongchao - LI, Tingqiang. The apoplasmic pathway via the root apex and lateral roots contributes to Cd hyperaccumulation in the hyperaccumulator Sedum alfredii. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 3, pp. 739-751., Registrované v: WOS

11. [1.1] WANG, P. - WANG, C.M. - GAO, L. - CUI, Y.N. - YANG, H.L. - DE SILVA, N.D.G. - MA, Q. - BAO, A.K. - FLOWERS, T.J. - ROWLAND, O. - WANG, S.M. Aliphatic suberin confers salt tolerance to Arabidopsis by limiting Na⁺ influx, K⁺ efflux and water backflow. In PLANT AND SOIL. ISSN 0032-079X, MAR 2020, vol. 448, no. 1-2, p. 603-620., Registrované v: WOS

12. [1.1] YU, Rugang - MA, Yuanyuan - LI, Yue - LI, Xin - LIU, Caifeng - DU, Xueling - SHI, Gangrong. Comparative transcriptome analysis revealed key factors for differential cadmium transport and retention in roots of two contrasting peanut cultivars. In BMC GENOMICS. ISSN 1471-2164, 2018, vol. 19, no., pp., Registrované v: WOS

13. [1.1] ZELKO, Ivan - OUVREARD, Stephanie - SIRGUEY, Catherine. Roots alterations in presence of phenanthrene may limit co-remediation implementation with *Nocca caerulea*. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 24, pp. 19653-19661., Registrované v: WOS
14. [1.2] BOLLE, Cordelia. Functional Aspects of GRAS Family Proteins. In Plant Transcription Factors: Evolutionary, Structural and Functional Aspects, 2015-07-27, pp. 295-311., Registrované v: SCOPUS
15. [1.2] WANG, Pei - CUI, Yan Nong - GAO, Li - WANG, Suo Min. Construction of RNAi expression vector of CYP86A gene in halophyte *Puccinellia tenuiflora*. In Acta Prataculturae Sinica. ISSN 10045759, 2017-06-20, 26, 6, pp. 105-110., Registrované v: SCOPUS
16. [3.1] ČIAMPOROVÁ, Milada - STAŇOVÁ, Andrea - ĎURIŠOVÁ, Eva - BANÁSOVÁ, Viera. Tissue organization and cell ultrastructure in the roots of three *Arabidopsis* species grown at different zinc concentrations. In Modern Phytomorphology, 2015, vol. 7, p. 67-74. ISSN 2226-3063.

ADCA864 MASÁROVÁ, Jana - MISLOVIČOVÁ, Danica - ŠOLTĚS, Ladislav.

Investigation of the conjugation reaction of mannan with albumin. In *International journal of polymer analysis and characterisation*. - London : Taylor & Francis, 2002, vol. 7, no. 1-2, p. 106-116. ISSN 1023-666X. Dostupné na: <https://doi.org/10.1080/10236660214600>

Ohlasy:

1. [1.1] MANZANO, A.I. - JAVIER CAÑADA, F. - CASES, B. - SIRVENT, S. - SORIA, I. - PALOMARES, O. - FERNÁNDEZ-CALDAS, E. - CASANOVAS, M. - JIMÉNEZ-BARBERO, J. - SUBIZA, J.L. Structural studies of novel glycoconjugates from polymerized allergens (allergoids) and mannans as allergy vaccines. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2016, vol. 33, no. 1, p. 93-101., Registrované v: WOS

ADCA865 MASÁROVÁ, Jana - MISLOVIČOVÁ, Danica - GEMEINER, Peter -

MICHALKOVÁ, E. Stability enhancement of *Escherichia coli* penicillin G acylase by glycosylation with yeast mannan. In *Biotechnology and Applied Biochemistry*, 2001, vol. 34, p. 127-133. (2000: 1.216 - IF). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA20010037>

Ohlasy:

1. [1.1] COBOS-PUC, Luis - RODRIGUEZ-HERRERA, Raul - CANO-CABRERA, Juan C. - AGUAYO-MORALES, Hilda - SILVA-BELMARES, Sonia Y. - GALLEGOS, Adriana C. F. - HERNANDEZ, Jose L. M. Classical and New Pharmaceutical Uses of Bacterial Penicillin G Acylase. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2020, vol. 21, no. 4, pp. 287-297. Dostupné na: <https://doi.org/10.2174/138920102066619111151642>., Registrované v: WOS
2. [1.1] KAJIWARA, Shota - KOMATSU, Kyohei - YAMADA, Ryosuke - MATSUMOTO, Takuya - YASUDA, Masahiro - OGINO, Hiroyasu. Modification of lipase from *Candida cylindracea* with dextran using the borane-pyridine complex to improve organic solvent stability. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 296, no., pp. 1-6., Registrované v: WOS
3. [1.2] ZHAO, Na - ZHANG, Yuan - LI, Qiu Qi - LI, Ru Fang - GUO,

Hui Hong. Sequence and functional analysis of FAD2 gene from *Xanthoceras sorbifolia* seeds. In Beijing Linye Daxue Xuebao/Journal of Beijing Forestry University. ISSN 10001522, 2015-01-01, 37, 2, pp. 87-93., Registrované v: SCOPUS

4. [3.1] MOUSAVI, M (Mousavi Mohaddesseh); DEHBASHI, M (Dehbashi Moein); MOVAHEDI, A (Movahedi Ali.). Impact of glycosylation on therapeutic glycoproteins. In BRITISH JOURNAL OF APPLIED SCIENCE & TECHNOLOGY, 2016, vol. 18(1), p. 1-16.

ADCA866 MASLER, Ladislav - ŠIKL, J. - BAUER, Štefan - ŠANDULA, Jozef. Extracellular polysaccharide-protein complexes produced by selected strains of *Candida albicans* (Robin) Berkhout. In *Folia Microbiologica*, 1966, vol. 11, p. 373-378. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02887694>

Ohlasy:

1. [1.1] WESTER, Michael J. - LIN, Jia - NEUMANN, Aaron K. A computational model for regulation of nanoscale glucan exposure in *Candida albicans*. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS

2. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida* adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA867 MASOUD, H. - PERRY, M.B. - BRISSON, J.R. - UHRÍN, Dušan - RICHARDS, J.C. Structural elucidation of the backbone oligosaccharide from the lipopolysaccharide of *Moraxella catarrhalis* serotype A. In *Canadian journal of chemistry*, 1994, vol. 72, p. 1466-1477. ISSN 0008-4042.

Ohlasy:

1. [1.1] CASILLO, Angela - PARRILLI, Ermenegilda - FILOMENA, Sannino - LINDNER, Buko - LANZETTA, Rosa - PARRILLI, Michelangelo - TUTINO, Maria Luisa - CORSARO, Maria Michela. Structural Investigation of the Oligosaccharide Portion Isolated from the Lipooligosaccharide of the Permafrost Psychrophile *Psychrobacter arcticus* 273-4. In MARINE DRUGS. ISSN 1660-3397, 2015, vol. 13, no. 7, pp. 4539-4555., Registrované v: WOS

2. [1.1] CASILLO, Angela - PARRILLI, Ermenegilda - TUTINO, Maria Luisa - CORSARO, Maria Michela. The outer membrane glycolipids of bacteria from cold environments: isolation, characterization, and biological activity. In FEMS MICROBIOLOGY ECOLOGY. ISSN 0168-6496, 2019, vol. 95, no. 7, pp., Registrované v: WOS

3. [1.1] O'NEILL, Ellis C. - FIELD, Robert A. Enzymatic synthesis using glycoside phosphorylases. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 403, no., pp. 23-37., Registrované v: WOS

4. [1.1] POKORNY, Barbara - KOSMA, Paul. Synthesis of 5-O-oligoglucosyl extended alpha-(2>4)-Kdo disaccharides corresponding to inner core fragments of Moraxellaceae lipopolysaccharides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 422, no., pp. 5-12., Registrované v: WOS

5. [1.1] YANG, Mingjun - D'ORTOLI, Thibault Angles - SAWEN, Elin - JANA, Madhurima - WIDMALM, Goran - MACKERELL, Alexander D. Delineating the conformational flexibility of trisaccharides from NMR spectroscopy experiments and computer simulations. In PHYSICAL

ADCA868 MASTIHUBA, Vladimír - KREMnický, Ľubomír - MASTIHUBOVÁ,

Mária - WILLET, J.J. - CÔTÉ, G.L. A Spectrophotometric assay for feruloyl
esterases. In *Analytical Biochemistry*, 2002, vol. 309, p. 96-101. ISSN 0003-2697.

Dostupné na: [https://doi.org/10.1016/S0003-2697\(02\)00241-5](https://doi.org/10.1016/S0003-2697(02)00241-5)

Ohlasy:

1. [1.1] ANTONOPOULOU, Io - HUNT, Cameron - CERULLO, Gabriella - VARRIALE, Simona - GEROGIANNI, Alexandra - FARACO, Vincenza - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Tailoring the specificity of the type C feruloyl esterase FoFaeC from *Fusarium oxysporum* towards methyl sinapate by rational redesign based on small molecule docking simulations. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 5, pp., Registrované v: WOS
2. [1.1] CAO, Li-chuang - CHEN, Ran - XIE, Wei - LIU, Yu-huan. Enhancing the Thermostability of Feruloyl Esterase EstF27 by Directed Evolution and the Underlying Structural Basis. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 37, pp. 8225-8233., Registrované v: WOS
3. [1.1] DILOKPI MOL, Adiphol - MAKELA, Miia R. - AGUILAR-PONTES, Maria Victoria - BENOIT-GELBER, Isabelle - HILDEN, Kristiina S. - DE VRIES, Ronald P. Diversity of fungal feruloyl esterases: updated phylogenetic classification, properties, and industrial applications. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
4. [1.1] DILOKPI MOL, Adiphol - MAKELA, Miia R. - VARRIALE, Simona - ZHOU, Miaomiao - CERULLO, Gabriella - GIDIJALA, Loknath - HINKKA, Harri - BRAS, Joana L. A. - JUETTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - HILDEN, Kristiina S. - FARACO, Vincenza - DE VRIES, Ronald P. Fungal feruloyl esterases: Functional validation of genome mining based enzyme discovery including uncharacterized subfamilies. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 41, no., pp. 9-14., Registrované v: WOS
5. [1.1] GHERBOVET, Olga - FAURE, Regis - FERREIRA, Fernando - DURAND, Julien - RAGON, Melanie - HOSTYN, Guillaume - RECORD, Eric - BOZONNET, Sophie - O'DONOHUE, Michael J. Design of chromogenic probes for efficient screening and evaluation of feruloyl esterase-like activities. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 126, no., pp. 24-31., Registrované v: WOS
6. [1.1] GOPALAN, Nishant - NAMPOOTHIRI, Kesavan Madhavan - SZAKACS, George - PARAMESWARAN, Binod - PANDEY, Ashok. Solid-state fermentation for the production of biomass valorizing feruloyl esterase. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2016, vol. 7, no., pp. 7-13., Registrované v: WOS
7. [1.1] GROSSMANN, Isabel - DOERING, Clemens - JEKLE, Mario - BECKER, Thomas - KOEHLER, Peter. Compositional Changes and Baking Performance of Rye Dough As Affected by Microbial Transglutaminase and Xylanase. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2016, vol. 64, no. 28, pp. 5751-5758., Registrované v: WOS

8. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
9. [1.1] KALB, Valerian - SEEWALD, Torsten - HOFMANN, Thomas - GRANVOGL, Michael. The Role of Endogenous Enzymes during Malting of Barley and Wheat Varieties in the Mitigation of Styrene in Wheat Beer. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 47, pp. 13888-13896. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c04837>., Registrované v: WOS
10. [1.1] MANASIAN, Panagiotis - BUSTOS, Atma-Sol - PALSSON, Bjorn - HAKANSSON, Andreas - PENARRIETA, J. Mauricio - NILSSON, Lars - LINARES-PASTEN, Javier A. First Evidence of Acyl-Hydrolase/Lipase Activity From Human Probiotic Bacteria: *Lactobacillus rhamnosus* GG and *Bifidobacterium longum* NCC 2705. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01534>., Registrované v: WOS
11. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované v: WOS
12. [1.1] OHLHOFF, Colin W. - KIRBY, Bronwyn M. - VAN ZYL, Leonardo - MUTEPPA, David L. R. - CASANUEVA, Ana - HUDDY, Robert J. - BAUER, Rolene - COWAN, Don A. - TUFFIN, Marla. An unusual feruloyl esterase belonging to family VIII esterases and displaying a broad substrate range. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 118, no., pp. 79-88., Registrované v: WOS
13. [1.1] OUTEIRINO, David - COSTA-TRIGO, Ivan - DE SOUZA OLIVEIRA, Ricardo Pinheiro - PEREZ GUERRA, Nelson - MANUEL DOMINGUEZ, Jose. A novel approach to the biorefinery of brewery spent grain. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 85, no., pp. 135-142., Registrované v: WOS
14. [1.1] PALANISWAMY, Sakthi Kumaran - GOVINDASWAMY, Vijayalakshmi. In-vitro probiotic characteristics assessment of feruloyl esterase and glutamate decarboxylase producing *Lactobacillus* spp. isolated from traditional fermented millet porridge (kambu koozh). In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2016, vol. 68, no., pp. 208-216., Registrované v: WOS
15. [1.1] PALANISWAMY, Sakthi Kumaran - GOVINDASWAMY, Vijayalakshmi. A Zymogram technique for preliminary screening and characterization of feruloyl esterases. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 101, no., pp. 57-59., Registrované v: WOS
16. [1.1] PAZ, Alicia - OUTEIRINO, David - PEREZ GUERRA, Nelson - MANUEL DOMINGUEZ, Jose. Enzymatic hydrolysis of brewer's spent grain to obtain fermentable sugars. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 275, no., pp. 402-409., Registrované v: WOS
17. [1.1] PENG, Yangyang - FU, Shiyu - LIU, Hao - LUCIA, Lucian A.

- Accurately Determining Esterase Activity via the Isosbestic Point of p-Nitrophenol. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 10099-10111., Registrované v: WOS
18. [1.1] PEREZ-RODRIGUEZ, N. - MOREIRA, C. D. - AGRASAR, A. Torrado - DOMINGUEZ, J. M. Feruloyl esterase production by *Aspergillus terreus* CECT 2808 and subsequent application to enzymatic hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2016, vol. 91, no., pp. 52-58., Registrované v: WOS
19. [1.1] PEREZ-RODRIGUEZ, N. - TORRADO AGRASAR, A. - DOMINGUEZ, J. M. High hydrostatic pressure as pretreatment and adjuvant for the enzymatic release of ferulic acid from corn cob. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 204-210., Registrované v: WOS
20. [1.1] RAJARAPU, Swapna Priya - SCHARF, Michael E. Saccharification of agricultural Lignocellulose Feedstocks and Protein-Level Responses by a Termite Gut-Microbe Bioreactor. In FRONTIERS IN ENERGY RESEARCH. ISSN 2296-598X, 2017, vol. 5, no., pp., Registrované v: WOS
21. [1.1] RAMIREZ-VELASCO, Lorena - ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MUELLER-SANTOS, Marcelo - ASAFF-TORRES, Ali - CARLOS MATEOS-DIAZ, Juan. From Classical to High Throughput Screening Methods for Feruloyl Esterases: A Review. In COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING. ISSN 1386-2073, 2016, vol. 19, no. 8, pp. 616-626., Registrované v: WOS
22. [1.1] REN, Li-Quan - CHANG, Tian-Tian - REN, Da-Peng - ZHOU, Ying - YE, Bang-Ce. Rational design to improve activity of the Est3563 esterase from *Acinetobacter* sp. LMB-5. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 131, no., pp., Registrované v: WOS
23. [1.1] SHARMA, Manju - MAHAJAN, Chhavi - BHATTI, Manpreet S. - CHADHA, Bhupinder Singh. Profiling and production of hemicellulases by thermophilic fungus *Malbranchea flava* and the role of xylanases in improved bioconversion of pretreated lignocellulosics to ethanol. In 3 BIOTECH. ISSN 2190-5738, 2016, vol. 6, no., pp., Registrované v: WOS
24. [1.1] VARRIALE, Simona - CERULLO, Gabriella - ANTONOPOULOU, Io - CHRISTAKOPOULOS, Paul - ROVA, Ulrika - TRON, Thierry - FAURE, Regis - JUETTEN, Peter - PIECHOT, Alexander - BRAS, Joana L. A. - FONTES, Carlos M. G. A. - FARACO, Vincenza. Evolution of the feruloyl esterase MtFae1a from *Myceliophthora thermophila* towards improved catalysts for antioxidants synthesis. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5185-5196., Registrované v: WOS
25. [1.1] WU, Dianhui - CAI, Guolin - LI, Xiaomin - LI, Bing - LU, Jian. Cloning and expression of ferulic acid esterase gene and its effect on wort filterability. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2018, vol. 40, no. 4, pp. 711-717., Registrované v: WOS
26. [1.1] YIN, Xin - HU, Die - LI, Jian-Fang - HE, Yao - ZHU, Tian-Di - WU, Min-Chen. Contribution of Disulfide Bridges to the Thermostability of a Type A Feruloyl Esterase from *Aspergillus usamii*. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS

27. [1.1] YIN, Xin - LI, Jian-Fang - WANG, Chun-Juan - HU, Die - WU, Qin - GU, Ying - WU, Min-Chen. Improvement in the thermostability of a type A feruloyl esterase, AuFaeA, from *Aspergillus usamii* by iterative saturation mutagenesis. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 23, pp. 10047-10056., Registrované v: WOS
28. [1.1] ZHOU, Min - HUANG, Zhiqing - ZHOU, Bo - LUO, Yanliu - JIA, Gang - LIU, Guangmang - ZHAO, Hua - CHEN, Xiaoling. Construction and expression of two-copy engineered yeast of feruloyl esterase. In *ELECTRONIC JOURNAL OF BIOTECHNOLOGY*. ISSN 0717-3458, 2015, vol. 18, no. 5, pp. 338-342., Registrované v: WOS
29. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
30. [1.2] SIRILUN, Sasithorn - CHAIYASUT, Chaiyavat - PENGKUMSRI, Noppawat - PELYUNTHA, Wattana - PEERAJAN, Sartjin - SIVAMARUTHI, Bhagavathi Sundaram. Production of ferulic acid from oryzanol degradation during the fermentation of black rice bran by ferulic acid esterase producing *Aspergillus oryzae* HP. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2015-01-01, 9, special Edition 1, pp. 513-520., Registrované v: SCOPUS
31. [1.2] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. Cloning, expression and characterization of a new feruloyl esterases from the *Lactobacillus Johnsonii* strain. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS

ADCA869 MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária - BELÁK, Miroslav - DUDÍKOVÁ, Jana - KARNISOVÁ POTOCKÁ, Elena - PETRUŠ, Ladislav. Preparation of α -galactooligoglycosides by cell walls from *Cryptococcus laurentii* using a novel α -galactosyl donor. In *Tetrahedron : Asymmetry*, 2017, vol. 28, p. 1089-1094. (2016: 2.126 - IF, Q2 - JCR, 0.754 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2017.07.007>

Ohlasy:

1. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS

ADCA870 MASTIHUBA, Vladimír** - KARNISOVÁ POTOCKÁ, Elena - UHLIARIKOVÁ, Iveta - KIS, Peter - KOZMON, Stanislav - MASTIHUBOVÁ, Mária. Reaction mechanism of beta-apiosidase from *Aspergillus aculeatus*. In *Food Chemistry*, 2019, vol. 274, p. 543-546. (2018: 5.399 - IF, Q1 - JCR, 1.768 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2018.09.003>

Ohlasy:

1. [1.1] TANG, Fenfen - VASAS, Morgan - HATZAKIS, Emmanuel - SPYROS, Apostolos. Magnetic resonance applications in food analysis. In ANNUAL REPORTS ON NMR SPECTROSCOPY, VOL 98. ISSN 0066-4103, 2019, vol. 98, no., pp. 239-306., Registrované v: WOS

ADCA871 MASTIHUBOVÁ, Mária - BIELY, Peter. A common access to 2- and 3-substituted methyl beta-D-xylopyranosides. In *Tetrahedron Letters*, 2001, vol. 42, p. 9065-9067. ISSN 0040-4039. Dostupné na: [https://doi.org/10.1016/S0040-4039\(01\)01957-8](https://doi.org/10.1016/S0040-4039(01)01957-8)

Ohlasy:

1. [1.1] GUO, Haibing - LA CLAIR, James J. - MASLER, Edward P. - O'DOHERTY, George A. - XING, Yalan. De novo asymmetric synthesis and biological analysis of the daumone pheromones in *Caenorhabditis elegans* and in the soybean cyst nematode *Heterodera glycines*. In TETRAHEDRON. ISSN 0040-4020, 2016, vol. 72, no. 18, pp. 2280-2286., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
3. [1.1] WILLEN, Daniel - BENGTSSON, Dennis - CLEMENTSON, Sebastian - TYKESSON, Emil - MANNER, Sophie - ELLERVIK, Ulf. Synthesis of Double-Modified Xyloside Analogues for Probing the beta 4GalT7 Active Site. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 3, pp. 1259-1277., Registrované v: WOS

ADCA872 MASTIHUBOVÁ, Mária - POLÁKOVÁ, Monika. A selective and mild glycosylation method of natural phenolic alcohols. In *Beilstein Journal of Organic Chemistry*, 2016, vol. 12, p. 524-530. (2015: 2.697 - IF, Q2 - JCR, 1.045 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.12.51>

Ohlasy:

1. [1.1] BEGUM, Ahil Sajeli - KUMAR, S. Santhosh - GOTTAPU, Suryanarayana - HIRA, Kirti. O-Glucoside of natural cleomiscosin-A: An attenuator of pro-inflammatory cytokine production. In PHYTOCHEMISTRY LETTERS. ISSN 1874-3900, 2018, vol. 26, no., pp. 83-87., Registrované v: WOS
2. [1.1] HUANG, Yongkang - XIE, Wenjing - LUO, Yongqiang - FAN, Qiqi - ZHU, Xingliang - LIU, Shiling - SHI, Xiaoxin. First Total Syntheses of 1-Benzoyl-3,4-dihydroisoquinoline Alkaloids Nelumstemine and Longifolonine Based on the Photo-oxidation. In CHINESE JOURNAL OF ORGANIC CHEMISTRY. ISSN 0253-2786, 2020, vol. 40, no. 5, pp. 1281-1289. Dostupné na: <https://doi.org/10.6023/cjoc201912002>., Registrované v: WOS
3. [1.1] CHEN, Jiazhi - LU, Fang - SI, Xiaoqin - NIE, Xin - CHEN, Junsheng - LU, Rui - XU, Jie. High Yield Production of Natural Phenolic Alcohols from Woody Biomass Using a Nickel-Based Catalyst. In CHEMSUSCHEM. ISSN 1864-5631, 2016, vol. 9, no. 23, pp. 3353-3360., Registrované v: WOS
4. [1.1] KHONG, Duc Thinh - JUDEH, Zaher M. A. Total synthesis of phenylpropanoid glycoside osmanthuside-B-6 facilitated by double isomerisation

of glucose-rhamnose orthoesters. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 12, pp. 2638-2646., Registrované v: WOS

5. [1.1] KULKARNI, Suvarn S. - WANG, Cheng-Chung - SABBABAVARAPU, Narayana Murthy - PODILAPU, Ananda Rao - LIAO, Pin-Hsuan - HUNG, Shang-Cheng. "One-Pot" Protection, Glycosylation, and Protection-Glycosylation Strategies of Carbohydrates. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8025-8104., Registrované v: WOS
6. [1.1] LIU, Da-Ke - XIONG, De-Cai - WU, Xia - LI, Qin - YE, Xin-Shan. Rapid glycosylation of 2'-benzoylphenyl glycosides promoted by TfOH. In ORGANIC CHEMISTRY FRONTIERS. ISSN 2052-4129, 2019, vol. 6, no. 15, pp. 2756-2759., Registrované v: WOS

ADCA873 MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BIELY, Peter. An efficient chemoenzymatic route to methyl 4-O-benzyl-2,3-anhydro- β -D-lyxopyranoside from methyl β -D-xylopyranoside. In *Carbohydrate Research*, 2004, vol. 339, p. 425-428. (2003: 1.533 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0008-6215.

Ohlasy:

1. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHNSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS

ADCA874 MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BILANIČOVÁ, D. - BOREKOVÁ, M. Commercial enzyme preparations catalyse feruloylation of glycoside. In *Journal of Molecular Catalysis B - Enzymatic*, 2006, vol. 38, p. 54-57. (2005: 1.685 - IF, Q2 - JCR, 0.761 - SJR, Q1 - SJR). ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2005.11.003>

Ohlasy:

1. [1.1] BIALECKA-FLORJANCZYK, Ewa - FABISZEWSKA, Agata - ZIENIUK, Bartłomiej. Phenolic Acids Derivatives Biotechnological Methods of Synthesis and Bioactivity. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2018, vol. 19, no. 14, pp. 1098-1113., Registrované v: WOS
2. [1.1] CAO, Li-chuang - CHEN, Ran - XIE, Wei - LIU, Yu-huan. Enhancing the Thermostability of Feruloyl Esterase EstF27 by Directed Evolution and the Underlying Structural Basis. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 37, pp. 8225-8233., Registrované v: WOS
3. [1.1] GOPALAN, Nishant - NAMPOOTHIRI, Kesavan Madhavan - SZAKACS, George - PARAMESWARAN, Binod - PANDEY, Ashok. Solid-state fermentation for the production of biomass valorizing feruloyl esterase. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 7, no., pp. 7-13., Registrované v: WOS
4. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386.,

Registrované v: WOS

5. [1.1] KELLE, Sebastian - NIETER, Annabel - KRINGS, Ulrich - ZELENÁ, Katerina - LINKE, Diana - BERGER, Ralf G. Heterologous production of a feruloyl esterase from *Pleurotus sapidus* synthesizing feruloyl-saccharide esters. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2016, vol. 63, no. 6, pp. 852-862.,

Registrované v: WOS

6. [1.1] ZERVA, Anastasia - ANTONOPOULOU, Io - ENMAN, Josefine - IANCU, Laura - JUTTEN, Peter - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Optimization of Transesterification Reactions with CLEA-Immobilized Feruloyl Esterases from *Thermothelomyces thermophila* and *Talaromyces wortmannii*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 9, pp., Registrované v: WOS

ADCA875 MASTIHUBOVÁ, Mária - BIELY, Peter. Deoxy and deoxyfluoro analogues of acetylated methyl β -D-xylopyranoside - substrates for acetylxylopyranosidases. In *Carbohydrate Research*, 2004, vol. 339, p. 2101-2110. (2003: 1.533 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2004.06.001>

Ohlasy:

1. [1.1] LIU, Tongchao - HOU, Jian - XIE, Wuchen - LI, You - REN, Huanming - LIANG, Jianpeng - XIONG, Bing - CHEN, Guohua - CHENG, Maosheng - ZHAO, Dongmei - SHEN, Jingkang - CHEN, Yue-Lei.

Stereoselective and Regioselective Preparation of C-Pentopyranosides and Formal Synthesis of Omarigliptin. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2016, vol., no. 34, pp. 5624-5628.,

Registrované v: WOS

2. [1.1] LIU, Zilei - JENKINSON, Sarah F. - VERMAAS, Tom - ADACHI, Isao - WORMALD, Mark R. - HATA, Yukako - KURASHIMA, Yukiko - KAJI, Akira - YU, Chu-Yi - KATO, Atsushi - FLEET, George W. J. 3-Fluoroazetidinecarboxylic Acids and trans,trans-3,4-Difluoroproline as Peptide Scaffolds: Inhibition of Pancreatic Cancer Cell Growth by a Fluoroazetidine Iminosugar. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2015, vol. 80, no. 9, pp. 4244-4258., Registrované v: WOS

3. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

4. [1.1] WILLEN, Daniel - BENGTSSON, Dennis - CLEMENTSON, Sebastian - TYKESSON, Emil - MANNER, Sophie - ELLERVIK, Ulf. Synthesis of Double-Modified Xyloside Analogues for Probing the beta 4GalT7 Active Site. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 3, pp. 1259-1277., Registrované v: WOS

5. [1.1] YAN, Nan - LEI, Zhi-Wei - SU, Jia-Kun - LIAO, Wei-Lin - HU, Xiang-Guo. Ring opening of sugar-derived epoxides by TBAF/KHF₂: An attractive alternative for the introduction of fluorine into the carbohydrate scaffold. In *CHINESE CHEMICAL LETTERS*. ISSN 1001-8417, 2017, vol. 28, no. 2, pp. 467-470., Registrované v: WOS

6. [1.2] DANG, Phu Hoang - NGUYEN, Nhan Trung - NGUYEN, Hai Xuan - NGUYEN, Luan Bao - LE, Tho Huu - DO, Truong Nhat Van - CAN,

Mao Van - NGUYEN, Mai Thanh Thi. α -Glucosidase inhibitors from the leaves of *Embelia ribes*. In *Fitoterapia*. ISSN 0367326X, 2015-01-01, 100, pp. 201-207., Registrované v: SCOPUS

ADCA876 MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Donor specificity and regioselectivity in Lipolase mediated acylations of methyl α -d-glucopyranoside by vinyl esters of phenolic acids and their analogues. In *Bioorganic & Medicinal Chemistry Letters*, 2013, vol. 23, p. 5389-5392. (2012: 2.338 - IF, Q2 - JCR, 1.091 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0960-894X. Dostupné na: <https://doi.org/10.1016/j.bmcl.2013.07.051>

Ohlasy:

1. [1.1] ANTONOPOULOU, Io - LEONOV, Laura - JUETTEN, Peter - CERULLO, Gabriella - FARACO, Vincenza - PAPADOPOULOU, Adamantia - KLETSAS, Dimitris - RALLI, Marianna - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Optimized synthesis of novel prenyl ferulate performed by feruloyl esterases from *Myceliophthora thermophila* in microemulsions. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3213-3226., Registrované v: WOS
2. [1.1] BIALECKA-FLORJANCZYK, Ewa - FABISZEWSKA, Agata - ZIENIUK, Bartłomiej. Phenolic Acids Derivatives Biotechnological Methods of Synthesis and Bioactivity. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 14, pp. 1098-1113., Registrované v: WOS
3. [1.1] BLASZCZYK, Stephanie A. - HOMAN, Timothy C. - TANG, Weiping. Recent advances in site-selective functionalization of carbohydrates mediated by organocatalysts. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 471, no., pp. 64-77., Registrované v: WOS
4. [1.1] BRODZKA, Anna - KOSZELEWSKI, Dominik - OSTASZEWSKI, Ryszard. Dual Activity of Grubbs-Type Catalyst in the Transvinylolation of Carboxylic Acids and Ring-Closing Metathesis Reactions. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2020, vol. 85, no. 23, pp. 15305-15313. Dostupné na: <https://doi.org/10.1021/acs.joc.0c02135>., Registrované v: WOS
5. [1.1] HERMANKOVA-VAVRIKOVA, Eva - KRENKOVA, Alena - PETRASKOVA, Lucie - CHAMBERS, Christopher Steven - ZAPAL, Jakub - KUZMA, Marek - VALENTOVA, Katerina - KREN, Vladimir. Synthesis and Antiradical Activity of Isoquercitrin Esters with Aromatic Acids and Their Homologues. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 5, pp., Registrované v: WOS
6. [1.1] HU, Ping - LI, Dahong - WANG, Kaibo - WANG, Hao - WANG, Zihou - LI, Zhanlin - HUA, Huiming. New phenolic compounds from *Vitex negundo* var. *heterophylla* and their antioxidant and NO inhibitory activities. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2015, vol. 19, no., pp. 174-181., Registrované v: WOS
7. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
8. [1.1] LAWANDI, Janice - ROCHELEAU, Sylvain - MOITESSIER, Nicolas. Regioselective acylation, alkylation, silylation and glycosylation of

monosaccharides. In TETRAHEDRON. ISSN 0040-4020, 2016, vol. 72, no. 41, pp. 6283-6319., Registrované v: WOS

9. [1.1] TONG, Juliana - KAVIANINIA, Iman - FERGUSON, Scott A. - COOK, Gregory M. - HARRIS, Paul W. R. - BRIMBLE, Margaret A. Synthesis of paenipeptin C' analogues employing solution-phase CLipPA chemistry. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 23, pp. 4381-4385. Dostupné na: <https://doi.org/10.1039/d0ob00950d>., Registrované v: WOS

10. [1.1] ZHANG, Xu - YE, Jianqing - YU, Lei - SHI, Xinkang - ZHANG, Ming - XU, Qing - LAUTENS, Mark. Organoselenium-Catalyzed Baeyer-Villiger Oxidation of alpha,beta-Unsaturated Ketones by Hydrogen Peroxide to Access Vinyl Esters. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2015, vol. 357, no. 5, pp. 955-960., Registrované v: WOS

11. [1.2] KADIDAE, La Ode - USAMI, Akira - MATSUI, Takuma - HONDA, Mitsunori - KUNIMOTO, Ko Ki. Selective synthesis of caffeoylquinic acids (CQAs) using transesterification of vinyl caffeate. In International Journal of Applied Chemistry. ISSN 09731792, 2016-01-01, 12, 3, pp. 193-207., Registrované v: SCOPUS

12. [1.2] KADIDAE, L. O. - USAMI, A. - HONDA, M. Palladium(II) acetate as catalyst in transvinylolation reactions of hydroxycinnamic acid and its derivatives. In Asian Journal of Chemistry. ISSN 09707077, 2018-01-01, 30, 3, pp. 589-593., Registrované v: SCOPUS

ADCA877 MASTIHUBOVÁ, Mária - BIELY, Peter. Lipase-catalysed preparation of acetates of 4-nitrophenyl beta-D-xylopyranoside and their use in kinetic studies of acetyl migration. In *Carbohydrate Research*, 2004, vol. 339, p. 1353-1360. (2003: 1.533 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2004.02.016>

Ohlasy:

1. [1.1] CARDOZO, Herbert M. - RIBEIRO, Thais F. - SA, Marcus M. - SEBRAO, Damianni - NASCIMENTO, Maria G. - SILVEIRA, Gustavo P. Molecular Sieves Mediated Green Per-O-Acetylation of Carbohydrate Templates and Lipase Catalyzed Regioselective Alcoholysis of 2,3,5-Tri-O-Acetyl-D-Ribonolactone. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2015, vol. 26, no. 4, pp. 755-764., Registrované v: WOS

2. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS

3. [1.1] GE, Jian-Tao - ZHOU, Lang - ZHAO, Fu-Long - DONG, Hai. Straightforward S-S Bond Formation via the Oxidation of S-Acetyl by Iodine in the Presence of N-Iodosuccinimide. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 23, pp. 12613-12623., Registrované v: WOS

4. [1.1] HETTIKANKANAMALAGE, Asiri A. - LASSFOLK, Robert - EKHOLM, Filip S. - LEINO, Reko - CRICH, David. Mechanisms of Stereodirecting Participation and Ester Migration from Near and Far in

- Glycosylation and Related Reactions. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 15, pp. 7104-7151. Dostupné na: <https://doi.org/10.1021/acs.chemrev.0c00243>., Registrované v: WOS
5. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
 6. [1.1] LV, Jian - GE, Jian-Tao - LUO, Tao - DONG, Hai. An inexpensive catalyst, Fe(acac)(3), for regio/site-selective acylation of diols and carbohydrates containing a 1,2-cis-diol. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 9, pp. 1987-1991., Registrované v: WOS
 7. [1.1] LV, Jian - LUO, Tao - ZHANG, Ying - PEI, Zhichao - DONG, Hai. Regio/Site-Selective Benzoylation of Carbohydrates by Catalytic Amounts of FeCl₃. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 17717-17723., Registrované v: WOS
 8. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
 9. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
 10. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>., Registrované v: WOS
 11. [1.1] PAWAR, Prashant Mohan-Anupama - RATKE, Christine - BALASUBRAMANIAN, Vimal K. - CHONG, Sun-Li - GANDLA, Madhavi Latha - ADRIASOLA, Mathilda - SPARRMAN, Tobias - HEDENSTROM, Mattias - SZWAJ, Klaudia - DERBA-MACELUCH, Marta - GAERTNER, Cyril - MOUILLE, Gregory - EZCURRA, Ines - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 214, no. 4, pp. 1491-1505., Registrované v: WOS
 12. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GANDLA, Madhavi Latha - BASHAR, Shamrat Shafiul - SPARRMAN, Tobias - AHVENAINEN, Patrik - HEDENSTROM, Mattias - OZPARPUCU, Merve - RUGGEBERG, Markus - SERIMAA, Ritva - LAWOKO, Martin - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. In muro deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

13. [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
14. [1.1] STEPANOVA, Elena V. - NAGORNAYA, Marina O. - FILIMONOV, Victor D. - VALIEV, Rashid R. - BELYANIN, Maxim L. - DROZDOVA, Anna K. - CHEREPANOV, Victor N. A new look at acid catalyzed deacetylation of carbohydrates: A regioselective synthesis and reactivity of 2-O-acetyl aryl glycopyranosides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 458, no., pp. 60-66., Registrované v: WOS
15. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHNSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS
16. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
17. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling - WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS

ADCA878 MASTIHUBOVÁ, Mária - BIELY, Peter. Preparation of regioselectively feruloylated p-nitrophenyl α -L-arabinofuranosides and β -D-xylopyranosides—convenient substrates for study of feruloyl esterase specificity. In *Carbohydrate Research*, 2010, vol. 345, p. 1094-1098. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2010.03.034>

Ohlasy:

1. [1.1] GHERBOVET, Olga - FAURE, Regis - FERREIRA, Fernando - DURAND, Julien - RAGON, Melanie - HOSTYN, Guillaume - RECORD, Eric - BOZONNET, Sophie - O'DONOHUE, Michael J. Design of chromogenic probes for efficient screening and evaluation of feruloyl esterase-like activities. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 126, no., pp. 24-31., Registrované v: WOS
2. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In *BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION*, 2019, vol., no., pp. 427-445., Registrované v: WOS
3. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase

activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované v: WOS

4. [1.1] RAMIREZ-VELASCO, Lorena - ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MUELLER-SANTOS, Marcelo - ASAFF-TORRES, Ali - CARLOS MATEOS-DIAZ, Juan. From Classical to High Throughput Screening Methods for Feruloyl Esterases: A Review. In COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING. ISSN 1386-2073, 2016, vol. 19, no. 8, pp. 616-626., Registrované v: WOS

5. [1.2] CHADHA, Bhupinder Singh - MONGA, Amandeep - OBEROI, Harinder Singh. α -L-arabinofuranosidase from an efficient hemicellulolytic fungus *Penicillium janthinellum* capable of hydrolyzing wheat and rye arabinoxylan to arabinose. In Journal of Microbiology, Biotechnology and Food Sciences, 2017-01-01, 6, 5, pp. 1132-1139., Registrované v: SCOPUS

ADCA879 MASTIHUBOVÁ, Mária - SZEMESOVÁ, J. - BIELY, Peter. The acetates of p-nitrophenyl alfa-L-arabinofuranoside - Regioselective preparation by action of lipases. In *Bioorganic & Medicinal Chemistry*, 2006, vol. 14, p. 1805-1810. (2005: 2.286 - IF, Q2 - JCR, 0.894 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0968-0896.

Ohlasy:

1. [1.1] CARDOZO, Herbert M. - RIBEIRO, Thais F. - SA, Marcus M. - SEBRAO, Damianni - NASCIMENTO, Maria G. - SILVEIRA, Gustavo P. Molecular Sieves Mediated Green Per-O-Acetylation of Carbohydrate Templates and Lipase Catalyzed Regioselective Alcoholysis of 2,3,5-Tri-O-Acetyl-D-Ribonolactone. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2015, vol. 26, no. 4, pp. 755-764., Registrované v: WOS

2. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS

3. [1.1] ZHANG, Lanjun - GAO, Chengxu - MENTINK-VIGIER, Frederic - TANG, Lu - ZHANG, Dongmei - WANG, Shaogan - CAO, Shaoxue - XU, Zuopeng - LIU, Xiangling - WANG, Tuo - ZHOU, Yihua - ZHANG, Baocai. Arabinosyl Deacetylase Modulates the Arabinoxylan Acetylation Profile and Secondary Wall Formation. In PLANT CELL. ISSN 1040-4651, 2019, vol. 31, no. 5, pp. 1113-1126., Registrované v: WOS

ADCA880 MASTIHUBOVÁ, Mária - SZEMESOVÁ, J. - BIELY, Peter. Two efficient ways to 2-O- and 5-O-feruloylated 4-nitrophenyl α -L-arabinofuranosides as substrates for differentiation of feruloyl esterases. In *Tetrahedron Letters*, 2003, vol. 44, p. 1671-16773. ISSN 0040-4039. Dostupné na: [https://doi.org/10.1016/S0040-4039\(03\)00038-8](https://doi.org/10.1016/S0040-4039(03)00038-8)

Ohlasy:

1. [1.1] GHERBOVET, Olga - FAURE, Regis - FERREIRA, Fernando - DURAND, Julien - RAGON, Melanie - HOSTYN, Guillaume - RECORD, Eric - BOZONNET, Sophie - O'DONOHUE, Michael J. Design of chromogenic probes for efficient screening and evaluation of feruloyl esterase-like activities. In

- JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 126, no., pp. 24-31., Registrované v: WOS
2. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
 3. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované v: WOS
 4. [1.1] RAMIREZ-VELASCO, Lorena - ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MUELLER-SANTOS, Marcelo - ASAFF-TORRES, Ali - CARLOS MATEOS-DIAZ, Juan. From Classical to High Throughput Screening Methods for Feruloyl Esterases: A Review. In COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING. ISSN 1386-2073, 2016, vol. 19, no. 8, pp. 616-626., Registrované v: WOS

ADCA881 MAŠTEROVÁ, I. - GRANČAIOVÁ, Z. - UHRÍNOVÁ, S. - SUCHÝ, V. - UBÍK, K. - NAGY, M. Flavonoids in flowers of *Calendula officinalis* L. In *Chemical Papers - Chemické zvesti*, 1991, vol. 45, p. 105-108. ISSN 0366-6352. Dostupné na: <https://doi.org/10.1590/S1984-82502015000400020>

Ohlasy:

1. [1.1] GOMES HONORIO, Isabela Cristina - GIARDINI BONFIM, Filipe Pereira - MONTOYA, Sebastian Giraldo - DIAS CASALI, Vicente Wagner - VIANA LEITE, Joao Paulo - CECON, Paulo Roberto. Growth, development and content of flavonoids in calendula (*Calendula officinalis* L.). In ACTA SCIENTIARUM-AGRONOMY. ISSN 1807-8621, 2016, vol. 38, no. 1, pp. 69-75., Registrované v: WOS
2. [1.1] HAFEZ-GHORAN, Salar - EBRAHIMI, Pouneh - MIGHANI, Hossein - SAEIDNIA, Soudabeh. Isolation and characterization of homoisoflavonoids from *Scilla persica* HAUSSKN. In BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1984-8250, 2015, vol. 51, no. 4, pp. 949-955., Registrované v: WOS
3. [1.1] MIGUEL, Maria - BARROS, Lillian - PEREIRA, Carla - CALHELHA, Ricardo C. - GARCIA, Pablo A. - ANGELES CASTRO, Ma - SANTOS-BUELGA, Celestino - FERREIRA, Isabel C. F. R. Chemical characterization and bioactive properties of two aromatic plants: *Calendula officinalis* L. (flowers) and *Mentha cervina* L. (leaves). In FOOD & FUNCTION. ISSN 2042-6496, 2016, vol. 7, no. 5, pp. 2223-2232., Registrované v: WOS
4. [1.1] OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. - AKOBIRSHOEVA, Anzurat - ZILFIKAROV, Ifrat N. - VENNOS, Cecile. Isorhamnetin and Quercetin Derivatives as Anti-Acetylcholinesterase Principles of Marigold (*Calendula officinalis*) Flowers and Preparations. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 8, pp., Registrované v: WOS
5. [1.1] RAAL, Ain - ORAV, Anne - NESTEROVITSCH, Julia - MAIDL, Kerttu. Analysis of Carotenoids, Flavonoids and Essential Oil of *Calendula officinalis* Cultivars Growing in Estonia. In NATURAL PRODUCT

- ADCA882 MAŠTEROVÁ, I. - SUCHÝ, V. - UHRÍN, Dušan - UBÍK, K. -
GRANČAIOVÁ, Z. - BOBOVNICKÝ, B. Homoisoflavanones and other
constituents from *Muscari racemosum*. In *Phytochemistry*, 1991, vol. 30, p. 713-714.
ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/0031-9422\(91\)83764-C](https://doi.org/10.1016/0031-9422(91)83764-C)

Ohlasy:

1. [1.1] CASTELLI, M. V. - LOPEZ, S. N. Homoisoflavonoids: Occurrence, Biosynthesis, and Biological Activity. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL 54. ISSN 1572-5995, 2017, vol. 54, no., pp. 315-354., Registrované v: WOS
2. [1.1] GHORAN, Salar Hafez - SAEIDNIA, Soodabeh - BABAEI, Esmaeil - KIUCHI, Fumiyuki - HUSSAIN, Hidayat. Scillapersicene: a new homoisoflavonoid with cytotoxic activity from the bulbs of *Scilla persica* HAUSSKN. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2016, vol. 30, no. 11, pp. 1309-1314., Registrované v: WOS
3. [1.1] HU, Lin - WANG, Fang-Fang - WANG, Xing-Hong - YANG, Qing-Song - XIONG, Yong - LIU, Wen-Xing. Phytoconstituents from the leaves of *Dracaena cochinchinensis* (Lour.) S. C. Chen. In *BIOCHEMICAL SYSTEMATICS AND ECOLOGY*. ISSN 0305-1978, 2015, vol. 63, no., pp. 1-5., Registrované v: WOS
4. [1.1] SCHWIKKARD, Sianne - ALQAHTANI, Alaa - KNIRSCH, Walter - WETSCHNIG, Wolfgang - JAKSEVICIUS, Andrius - OPARA, Elizabeth I. - LANGAT, Moses K. - ANDRIANTIANA, Jackie L. - MULHOLLAND, Dulcie A. Phytochemical Investigations of Three *Rhodocodon* (Hyacinthaceae Ssensu APG II) Species. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 1, pp. 30-37., Registrované v: WOS

- ADCA883 MAŠTEROVÁ, I. - UHRÍN, Dušan - TOMKO, J. Lilaline-a flavonoid alkaloid from *Lilium candidum*. In *Phytochemistry*, 1987, vol. 26, p. 1844-1845. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/S0031-9422\(00\)82304-3](https://doi.org/10.1016/S0031-9422(00)82304-3)

Ohlasy:

1. [1.1] BASTIAAN-NET, S. - VAN DE BERG-SOMHORST, B. P. M. - ARIENS, R. M. C. - PAQUES, M. - MES, J. J. A novel functional screening assay to monitor sweet taste receptor activation in vitro. In *CHEMICAL SENSES*. ISSN 0379-864X, 2017, vol. 42, no. 2, pp. E20-E21., Registrované v: WOS
2. [1.1] BONDARENKO, S. P. - FRASINYUK, M. S. Chromone Alkaloids: Structural Features, Distribution in Nature, and Biological Activity. In *CHEMISTRY OF NATURAL COMPOUNDS*. ISSN 0009-3130, 2019, vol. 55, no. 2, pp. 201-234., Registrované v: WOS
3. [1.1] SALEHI, Mehdi - HATAMZADEH, Abdollah - JAFARIAN, Vahab - ZARRE, Shahin. New molecular record and some biochemical features of the rare plant species of Iranian lily (*Lilium ledebourii* Boiss.). In *HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY*. ISSN 2211-3452, 2019, vol. 60, no. 4, pp. 585-593., Registrované v: WOS
4. [1.2] BLAIR, Lachlan M. - CALVERT, Matthew B. - SPERRY, Jonathan. Flavoalkaloids—Isolation, Biological Activity, and Total Synthesis. In

Alkaloids: Chemistry and Biology. ISSN 10994831, 2017-01-01, 77, pp. 85-115., Registrované v: SCOPUS

5. [1.2] Flavones and flavonols. In *The Flavonoids: Advances in Research since 1986*, 2017-01-01, pp. 259-336., Registrované v: SCOPUS

6. [1.2] ILKEI, Viktor - HAZAI, László - ANTUS, Sándor - BÖLCSKEI, Hedvig. Flavonoid Alkaloids: Isolation, Bioactivity, and Synthesis. In *Studies in Natural Products Chemistry*. ISSN 15725995, 2018-01-01, 56, pp. 247-285., Registrované v: SCOPUS

ADCA884 MAŠTEROVÁ, I. - UHRÍN, Dušan. Phytochemical study of *Salvia officinalis* L. In *Chemical Papers - Chemické zvesti*, 1989, vol. 43, p. 797-803. ISSN 0366-6352.

Ohlasy:

1. [1.1] GASIC, Uros M. - NATIC, Maja M. - MISIC, Danijela M. - LUSIC, Darija V. - MILOJKOVIC-OPSENICA, Dusanka M. - TESIC, Zivoslav Lj. - LUSIC, Drazen. Chemical markers for the authentication of unifloral *Salvia officinalis* L. honey. In *JOURNAL OF FOOD COMPOSITION AND ANALYSIS*. ISSN 0889-1575, 2015, vol. 44, no., pp. 128-138., Registrované v: WOS

2. [1.1] JASH, Shyamal K. - GORAI, Dilip - ROY, Rajiv. SALVIA GENUS AND TRITERPENOID. In *INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH*. ISSN 0975-8232, 2016, vol. 7, no. 12, pp. 4710-4732., Registrované v: WOS

3. [1.1] LEE, Seung-Jae - JANG, Hyun-Jae - KIM, Yesol - OH, Hyun-Mee - LEE, Soyoung - JUNG, Kyungsook - KIM, Young-Ho - LEE, Woo-Song - LEE, Seung-Woong - RHO, Mun Chul. Inhibitory effects of IL-6-induced STAT3 activation of bio-active compounds derived from *Salvia plebeia* R.Br. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2016, vol. 51, no. 12, pp. 2222-2229., Registrované v: WOS

ADCA885 MATULOVÁ, Mária - KOLAROVA, Nadežda - CAPEK, Peter. An extracellular galactoglucoxylomannan protein from the yeast *Cryptococcus laurentii* Var. *laurentii*. In *Journal of carbohydrate chemistry*, 2002, vol. 21, p. 521-537. ISSN 0732-8303. Dostupné na: <https://doi.org/10.1081/CAR-120016851>

Ohlasy:

1. [1.1] MACHOVA, Eva - KORCOVA, Jana - CIZOVA, Alzbeta - BYSTRICKY, Slavomir. Inhibition of Yeast Growth by Broadly Cross-Reactive Antisera Elicited by Heterologous Mannan-Protein Conjugate. In *JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 1017-7825, 2015, vol. 25, no. 7, pp. 1177-1179., Registrované v: WOS

ADCA886 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Marie. Biotransformation of various saccharides and production of exopolymeric substances by cloud-borne *Bacillus* sp. 3B6. In *Environmental Science and Technology*, 2014, vol. 48, p. 14238-14247. (2013: 5.481 - IF, Q1 - JCR, 2.956 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0013-936X. Dostupné na: <https://doi.org/10.1021/es501350s>

Ohlasy:

1. [1.1] DECESARI, Stefano - PAGLIONE, Marco - RINALDI, Matteo - DALL'OSTO, Manuel - SIMO, Rafel - ZANCA, Nicola - VOLPI, Francesca -

FACCHINI, Maria Cristina - HOFFMANN, Thorsten - GOETZ, Sven - KAMPF, Christopher Johannes - O'DOWD, Colin - CEBURNIS, Darius - OVADNEVAITE, Jurgita - TAGLIAVINI, Emilio. Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2020, vol. 20, no. 7, pp. 4193-4207. Dostupné na: <https://doi.org/10.5194/acp-20-4193-2020>., Registrované v: WOS

2. [1.1] MADRONICH, Sasha - BJORN, Lars Olof - MCKENZIE, Richard L. Solar UV radiation and microbial life in the atmosphere. In *PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES*. ISSN 1474-905X, 2018, vol. 17, no. 12, pp. 1918-1931., Registrované v: WOS

3. [1.1] MAKI, Teruya - FURUMOTO, Shogo - ASAH, Yuya - LEE, Kevin C. - WATANABE, Koichi - AOKI, Kazuma - MURAKAMI, Masataka - TAJIRI, Takuya - HASEGAWA, Hiroshi - MASHIO, Asami - IWASAKA, Yasunobu. Long-range-transported bioaerosols captured in snow cover on Mount Tateyama, Japan: impacts of Asian-dust events on airborne bacterial dynamics relating to ice-nucleation activities. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2018, vol. 18, no. 11, pp. 8155-8171., Registrované v: WOS

4. [1.1] MAKI, Teruya - HARA, Kazutaka - IWATA, Ayumu - LEE, Kevin C. - KAWAI, Kei - KAI, Kenji - KOBAYASHI, Fumihisa - POINTING, Stephen B. - ARCHER, Stephen - HASEGAWA, Hiroshi - IWASAKA, Yasunobu. Variations in airborne bacterial communities at high altitudes over the Noto Peninsula (Japan) in response to Asian dust events. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2017, vol. 17, no. 19, pp. 11877-11897., Registrované v: WOS

5. [1.2] MAKI, Teruya. The long range transport of bioaerosols over East Asia. In *Trans-Boundary Pollution in North-East Asia*, 2018-08-09, pp. 75-108., Registrované v: SCOPUS

6. [3.1] DNews (published on Dec 7, 2014). Are Clouds Full Of Bacteria? In YouTube: https://www.youtube.com/watch?v=46_0SQDh9Sk

ADCA887 MATULOVÁ, Mária - DELORT, A.-M. - NOUAILLE, R. - GAUDET, G. - FORANO, E. Concurrent maltodextrin and cellodextrin synthesis by *Fibrobacter succinogenes* S85 as identified by 2D NMR spectroscopy. In *European Journal of Biochemistry*, 2001, vol. 268, p. 3907-3915. ISSN 0014-2956.

Ohlasy:

1. [1.1] HACKMANN, Timothy J. - FIRKINS, Jeffrey L. Maximizing efficiency of rumen microbial protein production. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

2. [1.1] TIAN, Yonglan - ZHANG, Huayong - ZHENG, Lei - LI, Shusen - HAO, He - YIN, Meixiao - CAO, Yudong - HUANG, Hai. Process Analysis of Anaerobic Fermentation Exposure to Metal Mixtures. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*, 2019, vol. 16, no. 14, pp., Registrované v: WOS

ADCA888 MATULOVÁ, Mária - NOUAILLE, R. - CAPEK, Peter - PÉAN, M. - FORANO, E. - DELORT, A.-M. Degradation of wheat straw by *Fibrobacter succinogenes* S85: a liquid- and solid-state nuclear magnetic resonance study. In

Applied and Environmental Microbiology, 2005, vol. 71, p. 1247-1253. (2004: 3.810 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0099-2240.
Dostupné na: <https://doi.org/10.1128/AEM.71.3.1247-1253.2005>

Ohlasy:

1. [1.1] HASSAN, El-Sayed R. E. - MUTELET, Fabrice - MOISE, Jean-Charles - BROSSE, Nicolas. Pretreatment of miscanthus using 1,3-dimethyl-imidazolium methyl phosphonate (DMIMMPH) ionic liquid for glucose recovery and ethanol production. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 75, pp. 61455-61464., Registrované v: WOS
2. [1.1] KANNAIYAN, Ranjani - MAHINPEY, Nader - KOSTENKO, Victoria - MARTINUZZI, Robert J. Enhanced Delignification of Wheat Straw by the Combined Effect of Hydrothermal and Fungal Treatments. In *CHEMICAL ENGINEERING COMMUNICATIONS*. ISSN 0098-6445, 2017, vol. 204, no. 7, pp. 803-812., Registrované v: WOS
3. [1.1] MORI, Tetsuya - TSUBOI, Yuuri - ISHIDA, Nobuhiro - NISHIKUBO, Nobuyuki - DEMURA, Taku - KIKUCHI, Jun. Multidimensional High-Resolution Magic Angle Spinning and Solution-State NMR Characterization of C-13-labeled Plant Metabolites and Lignocellulose. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
4. [1.1] RINGEL-KULKA, Tamar - CHOI, Chang Hwan - TEMAS, Daniel - KIM, Ari - MAIER, Daniele M. - SCOTT, Karen - GALANKO, Joseph A. - RINGEL, Yehuda. Altered Colonic Bacterial Fermentation as a Potential Pathophysiological Factor in Irritable Bowel Syndrome. In *AMERICAN JOURNAL OF GASTROENTEROLOGY*. ISSN 0002-9270, 2015, vol. 110, no. 9, pp. 1339-1346., Registrované v: WOS
5. [1.1] WANG, Sumeng - WANG, Zhaobao - WANG, Yongchao - NIE, Qingjuan - YI, Xiaohua - GE, Wei - YANG, Jianming - XIAN, Mo. Production of isoprene, one of the high-density fuel precursors, from peanut hull using the high-efficient lignin-removal pretreatment method. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
6. [1.1] WI, Seung Gon - CHO, Eun Jin - LEE, Dae-Seok - LEE, Soo Jung - LEE, Young Ju - BAE, Hyeun-Jong. Lignocellulose conversion for biofuel: a new pretreatment greatly improves downstream biocatalytic hydrolysis of various lignocellulosic materials. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS
7. [1.2] GUO, Kai Yuan - SHI, Hai Qiang - CAO, Nan - NIU, Mei Hong - PING, Qing Wei. Effects of Acetic Acid-strengthened Hydrothermal Prehydrolysis on the Dissolution of Hemicelluloses from Acacia Wood and the Component and Structure of the Hemicelluloses. In *Zhongguo Zaozhi Xuebao/Transactions of China Pulp and Paper*. ISSN 10006842, 2018-09-01, 33, 3, pp. 1-8., Registrované v: SCOPUS
8. [1.2] ZHU, Ning - SHI, Haiqiang - CAO, Nan - XIONG, Xuedong - NIU, Meihong - PING, Qingwei. Isolation of hemicelluloses from acacia wood with hydrothermal prehydrolysis and its characterization of structure and component. In *Huagong Xuebao/CIESC Journal*. ISSN 04381157, 2016-06-01, 67, 6, pp. 2605-2611., Registrované v: SCOPUS

ADCA889 MATULOVÁ, Mária - VERCHERE, J.F. - CHAPELLE, S. Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose. In *Carbohydrate Research*, 1996, vol. 287, p. 37-48. (1995: 1.506 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(96\)00059-6](https://doi.org/10.1016/0008-6215(96)00059-6)

Ohlasy:

1. [1.1] BERTONI, Fernando A. - GONZALEZ, Juan C. - GARCIA, Silvia I. - SALA, Luis F. - BELLU, Sebastian E. Application of chitosan in removal of molybdate ions from contaminated water and groundwater. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 180, no., pp. 55-62., Registrované v: WOS
2. [1.1] COWAN, A. Keith. Occurrence, metabolism, transport and function of seven-carbon sugars. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2017, vol. 16, no. 1, pp. 137-157., Registrované v: WOS

ADCA890 MATULOVÁ, Mária - TOFFANIN, R. - NAVARINI, L. - GILLI, R. - PAOLETTI, S. - CESARO, A. NMR analysis of succinoglycans from different microbial sources - partial assignment of their H-1 and C-13 NMR spectra and location of the succinate and the acetate groups. In *Carbohydrate Research*, 1994, vol. 265, p. 167-179. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00227-4](https://doi.org/10.1016/0008-6215(94)00227-4)

Ohlasy:

1. [1.1] HALDER, Urmi - BANERJEE, Aparna - BANDOPADHYAY, Rajib. Structural and Functional Properties, Biosynthesis, and Patenting Trends of Bacterial Succinoglycan: A Review. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, 2017, vol. 57, no. 3, pp. 278-284., Registrované v: WOS
2. [1.1] HU, Yiluo - JEONG, Daham - KIM, Yohan - KIM, Seonmok - JUNG, Seunho. Preparation of Succinoglycan Hydrogel Coordinated With Fe³⁺ Ions for Controlled Drug Delivery. In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040977>., Registrované v: WOS
3. [1.1] TOMULESCU, Caterina - MOSCOVICI, Misu - STOICA, Roxana Madalina - CASARICA, Angela - VLADU, Mariana - NITA, Sultana - DONCIU, Roxana - BEJANARU, Ionica - NEAGU, Georgeta - IONESCU, Robertina - HANGANU, Anamaria - STANCIU, Cristina - BAZDOACA, Cristina - VAMANU, Adrian. Isolation and partial characterization of a polysaccharide produced by *Klebsiella oxytoca* ICCF 419, a newly-isolated strain in Romania. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2020, vol. 25, no. 5, pp. 1861-1876. Dostupné na: <https://doi.org/10.25083/rbl/25.5/1861.1876>., Registrované v: WOS
4. [1.1] URAI, Makoto - AIZAWA, Tomoko - IMAMURA, Katsutoshi - HAMAMOTO, Hiroshi - SEKIMIZU, Kazuhisa. Characterization of the chemical structure and innate immune-stimulating activity of an extracellular polysaccharide from *Rhizobium* sp. strain M2 screened using a silkworm muscle contraction assay. In DRUG DISCOVERIES AND THERAPEUTICS. ISSN 1881-7831, 2017, vol. 11, no. 5, pp. 238-245., Registrované v: WOS

ADCA891 MATULOVÁ, Mária - NAVARINI, L. - OSMAN, S.F. - FETT, W.F. NMR analysis of galactoglucan from *Pseudomonas marginalis*: Assignment of the H-1 and

C-13 NMR spectra and location of succinate groups. In *Carbohydrate Research*, 1996, vol. 283, p. 195-205. (1995: 1.506 - IF). ISSN 0008-6215.

Ohlasy:

1. [1.1] CHI, Yongzhou - YE, Han - LI, Huining - LI, Yuanyuan - GUAN, Huashi - MOU, Haijin - WANG, Peng. Structure and molecular morphology of a novel moisturizing exopolysaccharide produced by *Phyllobacterium* sp. 921F. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 135, no., pp. 998-1005., Registrované v: WOS

ADCA892 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. NMR structural study of fructans produced by *Bacillus* sp. 3B6, bacterium isolated in cloud water. In *Carbohydrate Research*, 2011, vol. 346, p. 501-507. (2010: 1.898 - IF, Q2 - JCR, 0.730 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0008-6215.
Dostupné na: <https://doi.org/10.1016/j.carres.2010.12.012>

Ohlasy:

1. [1.1] CAI, Guolin - LIU, Yifan - LI, Xiaomin - LU, Jian. New Levan-Type Exopolysaccharide from *Bacillus amyloliquefaciens* as an Antiadhesive Agent against Enterotoxigenic *Escherichia coli*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2019, vol. 67, no. 28, pp. 8029-8034., Registrované v: WOS
2. [1.1] CALEFFI, Edilainy Rizzieri - KRAUSOVA, Gabriela - HYRSLOVA, Ivana - RAMOS PAREDES, Larry Ladislao - DOS SANTOS, Marcelo Mueller - SASSAKI, Guilherme Lanzi - CORREIA GONCALVES, Regina Aparecida - BRAZ DE OLIVEIRA, Arildo Jose. Isolation and prebiotic activity of inulin-type fructan extracted from *Pfaffia glomerata* (Spreng) Pedersen roots. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2015, vol. 80, no., pp. 392-399., Registrované v: WOS
3. [1.1] DJURIC, Aleksandra - GOJGIC-CVIJOVIC, Gordana - JAKOVLJEVIC, Dragica - KEKEZ, Branka - KOJIC, Jovana Stefanovic - MATTINEN, Maija-Liisa - HARJU, Inka Elina - VRVIC, Miroslav M. - BESKOSKI, Vladimir P. *Brachybacterium* sp CH-KOV3 isolated from an oil-polluted environment-a new producer of levan. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 311-321., Registrované v: WOS
4. [1.1] GOJGIC-CVIJOVIC, G. D. - JAKOVLJEVIC, D. M. - LONCAREVIC, B. D. - TODOROVIC, N. M. - PERGAL, M. V. - CIRIC, J. - LOOS, K. - BESKOSKI, V. P. - VRVIC, M. M. Production of levan by *Bacillus licheniformis* NS032 in sugar beet molasses-based medium. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 121, no., pp. 142-151., Registrované v: WOS
5. [1.1] KODALI, Srinivas - VINOGRADOV, Evgeny - LIN, Fiona - KHOURY, Nancy - HAO, Li - PAVLIAK, Vilo - JONES, C. Hal - LAVERDE, Diana - HUEBNER, Johannes - JANSEN, Kathrin U. - ANDERSON, Annaliesa S. - DONALD, Robert G. K. A Vaccine Approach for the Prevention of Infections by Multidrug-resistant *Enterococcus faecium*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2015, vol. 290, no. 32, pp. 19512-19526., Registrované v: WOS

6. [1.1] LIU, Chenxi - KOLIDA, Sofia - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. An evaluation of the prebiotic potential of microbial levans from *Erwinia* sp. 10119. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2020, vol. 64, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2019.103668>., Registrované v: WOS
7. [1.1] LI, Jiankuan - ZHANG, Xin - CAO, Lingya - JI, Jiaojiao - GAO, Jianping. Three Inulin-Type Fructans from *Codonopsis pilosula* (Franch.) Nannf. Roots and Their Prebiotic Activity on *Bifidobacterium longum*. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS
8. [1.1] MAGRI, A. - OLIVEIRA, M. R. - BALDO, C. - TISCHER, C. A. - SARTORI, D. - MANTOVANI, M. S. - CELLIGOI, M. A. P. C. Production of fructooligosaccharides by *Bacillus subtilis* natto CCT7712 and their antiproliferative potential. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2020, vol. 128, no. 5, pp. 1414-1426. Dostupné na: <https://doi.org/10.1111/jam.14569>., Registrované v: WOS
9. [1.1] MALANG, Saskia Katharina - MAINA, Ndegwa Henry - SCHWAB, Clarissa - TENKANEN, Maija - LACROIX, Christophe. Characterization of exopolysaccharide and ropy capsular polysaccharide formation by *Weissella*. In FOOD MICROBIOLOGY. ISSN 0740-0020, 2015, vol. 46, no., pp. 418-427., Registrované v: WOS
10. [1.1] MENG, Yan - XU, Yujie - CHANG, Cong - QIU, Zhenpeng - HU, Junjie - WU, Yong - ZHANG, Baohui - ZHENG, Guohua. Extraction, characterization and anti-inflammatory activities of an inulin-type fructan from *Codonopsis pilosula*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1677-1686. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.117>., Registrované v: WOS
11. [1.1] MISRA, Sankalp - DIXIT, Vijay Kant - KHAN, Mohammad Haneef - MISHRA, Shashank Kumar - DVIWEDI, Gyanendra - YADAV, Sumit - LEHRI, Alok - CHAUHAN, Puneet Singh. Exploitation of agro-climatic environment for selection of 1-aminocyclopropane-1-carboxylic acid (ACC) deaminase producing salt tolerant indigenous plant growth promoting rhizobacteria. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2017, vol. 205, no., pp. 25-34., Registrované v: WOS
12. [1.1] SANCHES LOPES, Sheila Mara - FRANCISCO, Mariane Grigio - HIGASHI, Bruna - RIBEIRO DE ALMEIDA, Rafaela Takako - KRAUSOVA, Gabriela - PILAU, Eduardo Jorge - GONCALVES, Jose Eduardo - CORREIA GONCALVES, Regina Aparecida - BRAZ DE OLIVEIRA, Arildo Jose. Chemical characterization and prebiotic activity of fructo-oligosaccharides from *Stevia rebaudiana* (Bertoni) roots and in vitro adventitious root cultures. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 718-725., Registrované v: WOS
13. [1.1] SANCHES LOPES, Sheila Mara - KRAUSOVA, Gabriela - PEDROZA CARNEIRO, Jose Walter - GONCALVES, Jose Eduardo - CORREIA GONCALVES, Regina Aparecida - BRAZ DE OLIVEIRA, Arildo Jose. A new natural source for obtainment of inulin and fructo-oligosaccharides from industrial waste of *Stevia rebaudiana* Bertoni. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 225, no., pp. 154-161., Registrované v: WOS
14. [1.1] SANCHEZ-VIZUETE, Pilar - LE COQ, Dominique -

BRIDIER, Arnaud - HERRY, Jean-Marie - AYMERICH, Stephane - BRIANDET, Romain. Identification of ypqP as a New *Bacillus subtilis* Biofilm Determinant That Mediates the Protection of *Staphylococcus aureus* against Antimicrobial Agents in Mixed-Species Communities. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 1, pp. 109-118., Registrované v: WOS

15. [1.1] SRIKANTH, Rapala - REDDY, Chinta H. S. S. Sundhar - SIDDARTHA, Gudimalla - RAMAIAH, M. Janaki - UPPULURI, Kiran Babu. Review on production, characterization and applications of microbial levan. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 120, no., pp. 102-114., Registrované v: WOS

16. [1.1] WANG, Yao - ZHANG, Nianfeng - KAN, Juan - ZHANG, Xin - WU, Xiaonan - SUN, Rui - TANG, Sixue - LIU, Jun - QIAN, Chunlu - JIN, Changhai. Structural characterization of water-soluble polysaccharide from *Arctium lappa* and its effects on colitis mice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 213, no., pp. 89-99., Registrované v: WOS

17. [1.1] WEI, Min - XU, Caihong - XU, Xianmang - ZHU, Chao - LI, Jiarong - LV, Ganglin. Size distribution of bioaerosols from biomass burning emissions: Characteristics of bacterial and fungal communities in submicron (PM1.0) and fine (PM2.5) particles. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2019, vol. 171, no., pp. 37-46., Registrované v: WOS

18. [1.1] ZHANG, Xue - HU, Pei - ZHANG, Xiaorui - LI, Xiaojun. Chemical structure elucidation of an inulin-type fructan isolated from *Lobelia chinensis* flour with anti-obesity activity on diet-induced mice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116357>., Registrované v: WOS

19. [1.2] RAAFAT, K. - WURGLICS, M. Phytochemical analysis of *Ficus carica* L. active compounds possessing anticonvulsant activity. In *Journal of Traditional and Complementary Medicine*, 2019-10-01, 9, 4, pp. 263-270., Registrované v: SCOPUS

20. [1.2] XU, Jing - CHEN, Dan - LIU, Chang - WU, Xiong Zhi - DONG, Cai Xia - ZHOU, Jing. Structural characterization and anti-tumor effects of an inulin-type fructan from *Atractylodes chinensis*. In *International Journal of Biological Macromolecules*. ISSN 01418130, 2016-01-01, 82, pp. 765-771., Registrované v: SCOPUS

ADCA893 MATULOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. NMR studies of molybdate complexes of D-erythro-L-manno-octose and D-erythro-L-gluco-octose and their alditols. In *Carbohydrate Research*, 2002, vol. 337, p. 1745-1756. (2001: 1.349 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(02\)00177-5](https://doi.org/10.1016/S0008-6215(02)00177-5)

Ohlasy:

1. [1.1] CREA, Francesco - DE STEFANO, Concetta - IRTO, Anna - MILEA, Demetrio - PETTIGNANO, Alberto - SAMMARTANO, Silvio. Modeling the acid-base properties of molybdate(VI) in different ionic media, ionic strengths and temperatures, by EDH, SIT and Pitzer equations. In

- ADCA894 MATULOVÁ, Mária - NOUAILLE, R. - CAPEK, Peter - PÉAN, M. -
DELORT, A.-M. - FORANO, E. NMR study of cellulose and wheat straw
degradation by *Ruminococcus albus* 20. In *FEBS Journal*, 2008, vol.275, p.
3503-3512. (2007: 3.396 - IF, Q2 - JCR, 2.070 - SJR, Q1 - SJR, Current Contents -
CCC). (2008 - Current Contents, WOS). ISSN 1742-464X. Dostupné na:
<https://doi.org/10.1111/j.1742-4658.2008.06497.x>

Ohlasy:

1. [1.1] JAFARI, Meisam - DAVACHI, Seyed Mohammad -
MOHAMMADI-ROVSHANDEH, Jamshid - POURESMAEEL-SELAKJANI,
Peyman. Preparation and Characterization of Bionanocomposites Based on
Benzylated Wheat Straw and Nanoclay. In *JOURNAL OF POLYMERS AND
THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 913-925.,
Registrované v: WOS
2. [1.1] KANNAIYAN, Ranjani - MAHINPEY, Nader - KOSTENKO,
Victoria - MARTINUZZI, Robert J. Enhanced Delignification of Wheat Straw by
the Combined Effect of Hydrothermal and Fungal Treatments. In *CHEMICAL
ENGINEERING COMMUNICATIONS*. ISSN 0098-6445, 2017, vol. 204, no. 7,
pp. 803-812., Registrované v: WOS
3. [1.1] QU, Tianjiao - ZHANG, Ximing - GU, Xingwei - HAN, Lujia -
JI, Guanya - CHEN, Xueli - XIAO, Weihua. Ball Milling for Biomass
Fractionation and Pretreatment with Aqueous Hydroxide Solutions. In *ACS
SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol.
5, no. 9, pp. 7733-7742., Registrované v: WOS
4. [1.1] VANWONTERGHEM, Inka - JENSEN, Paul D. - RABAEY,
Korneel - TYSON, Gene W. Temperature and solids retention time control
microbial population dynamics and volatile fatty acid production in replicated
anaerobic digesters. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2015, vol. 5,
no., pp., Registrované v: WOS

- ADCA895 MATULOVÁ, Mária - CAPEK, Peter - KANEKO, Satoshi - NAVARINI,
Luciano - LIVERANI, Furio Suggi. Structure of arabinogalactan oligosaccharides
derived from arabinogalactan-protein of *Coffea arabica* instant coffee powder. In
Carbohydrate Research, 2011, vol. 346, p. 1029-1036. (2010: 1.898 - IF, Q2 - JCR,
0.730 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN
0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2011.03.016>

Ohlasy:

1. [1.1] AGNOLETTI, B. Z. - OLIVEIRA, E. C. da S. - PINHEIRO, P.
F. - SARAIVA, S. H. Discrimination of Arabica and Conilon Coffee from
Physicochemical Properties Allied to Chemometrics. In *REVISTA VIRTUAL
DE QUIMICA*. ISSN 1984-6835, 2019, vol. 11, no. 3, pp. 785-805.,
Registrované v: WOS
2. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI,
Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR,
Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S.
Polysaccharide composition of an anticoagulant fraction from the aqueous extract
of *Marsypianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL
OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145,

- no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176.>, Registrované v: WOS
3. [1.1] FUJITA, Kiyotaka - SASAKI, Yuki - KITAHARA, Kanefumi. Degradation of plant arabinogalactan proteins by intestinal bacteria: characteristics and functions of the enzymes involved. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 18, pp. 7451-7457., Registrované v: WOS
4. [1.1] GASSCHT, Francois - DICATO, Mario - DIEDERICH, Marc. Coffee provides a natural multitarget pharmacopeia against the hallmarks of cancer. In GENES AND NUTRITION. ISSN 1555-8932, 2015, vol. 10, no. 6, pp., Registrované v: WOS
5. [1.1] LIU, Jun - WEN, Xiao-Yuan - KAN, Juan - JIN, Chang-hai. Structural Characterization of Two Water-Soluble Polysaccharides from Black Soybean (*Glycine max* (L.) Merr.). In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 1, pp. 225-234., Registrované v: WOS
6. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Structural characteristics of oxalate-soluble polysaccharides of Sosnowsky's hogweed (*Heracleum sosnowskyi* Manden). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 153, no., pp. 66-77., Registrované v: WOS
7. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Structural studies of water-extractable pectic polysaccharides and arabinogalactan proteins from *Picea abies* greenery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 207-217., Registrované v: WOS
8. [1.1] MOREIRA, Ana S. P. - SIMOES, Joana - PASSOS, Claudia P. - NUNES, Fernando M. - DOMINGUES, M. Rosario M. - COIMBRA, Manuel A. Melanoidins. In COFFEE: PRODUCTION, QUALITY AND CHEMISTRY, 2019, vol., no., pp. 662-678., Registrované v: WOS
9. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
10. [1.1] SAEIDY, Sima - NASIRPOUR, Ali - KERAMAT, Javad - DESBRIERES, Jacques - LE CERF, Didier - PIERRE, Guillaume - DELATTRE, Cedric - LAROCHE, Celine - DE BAYNAST, Helene - URSU, Alina-Violeta - MARCATI, Alain - DJELVEH, Gholamreza - MICHAUD, Philippe. Structural characterization and thermal behavior of a gum extracted from *Ferula assa foetida* L. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 426-432., Registrované v: WOS
11. [1.1] SHAKHMATOV, Evgeny G. - UDORATINA, Elena V. - ATUKMAEV, Konstantin V. - MAKAROVA, Elena N. Extraction and structural characteristics of pectic polysaccharides from *Abies sibirica* L. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 123, no., pp. 228-236., Registrované v: WOS
12. [1.1] SHAKHMATOV, Evgeny G. - ATUKMAEV, Konstantin V. - MAKAROVA, Elena N. Structural characteristics of pectic polysaccharides and arabinogalactan proteins from *Heracleum sosnowskyi* Manden. In

CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 1358-1369., Registrované v: WOS

13. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (*Picea abies*). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS

14. [1.1] SHAKHMATOV, Evgeny G. - TOUKACH, Philip - MAKAROVA, Elena N. Structural studies of the pectic polysaccharide from fruits of *Punica granatum*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.115978>., Registrované v: WOS

15. [1.1] TANG, Fenfen - VASAS, Morgan - HATZAKIS, Emmanuel - SPYROS, Apostolos. Magnetic resonance applications in food analysis. In ANNUAL REPORTS ON NMR SPECTROSCOPY, VOL 98. ISSN 0066-4103, 2019, vol. 98, no., pp. 239-306., Registrované v: WOS

16. [1.1] WANG, Lili - ZHANG, Xiaofeng - NIU, Yingying - AHMED, Adel Fahmi - WANG, Jinmei - KANG, Wenyi. Anticoagulant activity of two novel polysaccharides from flowers of *Apocynum venetum* L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 124, no., pp. 1230-1237., Registrované v: WOS

17. [1.2] TEIXEIRA, Olívia Reis - PASSOS, Flávia Regina - MENDES, Fabrícia Queiroz. Physico-chemical and microscopic quality of 14 trademark roasted and ground coffee. In Coffee Science. ISSN 18096875, 2016-01-01, 11, 3, pp. 396-403., Registrované v: SCOPUS

ADCA896 MAZÁŇ, Marián - BLANCO, Noelia - KOVÁČOVÁ, Kristína - FIRÁKOVÁ, Zuzana - ŘEHULKA, Pavel - FARKAŠ, Vladimír - ARROYO, Javier. A novel fluorescence assay and catalytic properties of Crh1 and Crh2 yeast cell wall transglycosylases. In *Biochemical Journal*, 2013, vol. 455, p. 307-318. (2012: 4.654 - IF, Q1 - JCR, 3.122 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20130354>

Ohlasy:

1. [1.1] ARAUJO, Danielle Silva - LIMA, Patricia de Sousa - BAEZA, Lilian Cristiane - ALVES PARENTE, Ana Flavia - BAILAO, Alexandre Melo - BORGES, Clayton Luiz - DE ALMEIDA SOARES, Celia Maria. Employing proteomic analysis to compare *Paracoccidioides lutzii* yeast and mycelium cell wall proteins. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2017, vol. 1865, no. 11, pp. 1304-1314., Registrované v: WOS

2. [1.1] DE GROOT, Piet W. J. - DE BOER, Albert D. - BRANDT, Bernd W. - VALENTIN, Eulogio. Ascomycetous Cell Wall: From a Proteomic Perspective. In GROWTH, DIFFERENTIATION AND SEXUALITY, 3RD EDITION. ISSN 1833-4938, 2016, vol. 1, no., pp. 81-101., Registrované v: WOS

3. [1.1] GOMEZ-MOLERO, Emilia - DE BOER, Albert D. - DEKKER, Henk L. - MORENO-MARTINEZ, Ana - KRANEVELD, Eef A. - ICHSAN - CHAUHAN, Neeraj - WEIG, Michael - DE SOET, Johannes J. - DE KOSTER, Chris G. - BADER, Oliver - DE GROOT, Piet W. J. Proteomic analysis of hyperadhesive *Candida glabrata* clinical isolates reveals a core wall proteome and differential incorporation of adhesins. In FEMS YEAST RESEARCH. ISSN

1567-1356, 2015, vol. 15, no. 8, pp., Registrované v: WOS

4. [1.1] KAPPEL, Lisa - MUNSTERKOTTER, Martin - SIPOS, Gyorgy - ESCOBAR RODRIGUEZ, Carolina - GRUBER, Sabine. Chitin and chitosan remodeling defines vegetative development and Trichoderma biocontrol. In PLOS PATHOGENS. ISSN 1553-7366, 2020, vol. 16, no. 2, pp. Dostupné na: <https://doi.org/10.1371/journal.ppat.1008320>., Registrované v: WOS

5. [1.1] ZHAO YOUXI - JIANG HUIHUI - RAO ZHIMING - JI YIZHI - CHENG YANLING - MA YANHE. High level expression of *Saccharomyces cerevisiae* chitinase (ScCTS1) in *Pichia pastoris* for degrading chitin. In INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING. ISSN 1934-6344, 2015, vol. 8, no. 5, pp. 142-150., Registrované v: WOS

ADCA897 MAZÁŇ, Marián - RAGNI, Enrico - POPOLO, Laura - FARKAŠ, Vladimír. Catalytic properties of the gas family beta-(1,3)-glucanotransferases active in fungal cell-wall biogenesis as determined by a novel fluorescent assay. In *Biochemical Journal*, 2011, vol. 438, p. 275-282. (2010: 5.016 - IF, Q1 - JCR, 3.302 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20110405>

Ohlasy:

1. [1.1] ANTONIO PORRAS-AGUERA, Juan - CARLOS MAURICIO, Juan - MORENO-GARCIA, Jaime - MORENO, Juan - GARCIA-MARTINEZ, Teresa. A Differential Proteomic Approach to Characterize the Cell Wall Adaptive Response to CO₂ Overpressure during Sparkling Wine-Making Process. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081188>., Registrované v: WOS

2. [1.1] AO, Jie - FREE, Stephen J. Genetic and biochemical characterization of the GH72 family of cell wall transglycosylases in *Neurospora crassa*. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2017, vol. 101, no., pp. 46-54., Registrované v: WOS

3. [1.1] KALEBINA, T. S. - REKSTINA, V. V. Molecular Organization of Yeast Cell Envelope. In MOLECULAR BIOLOGY. ISSN 0026-8933, 2019, vol. 53, no. 6, pp. 850-861., Registrované v: WOS

4. [1.1] LUCENA, Rodrigo Mendonca - DOLZ-EDO, Laura - BRUL, Stanley - DE MORAIS JR, Marcos Antonio - SMITS, Gertien. Extreme Low Cytosolic pH Is a Signal for Cell Survival in Acid Stressed Yeast. In GENES, 2020, vol. 11, no. 6, pp. Dostupné na: <https://doi.org/10.3390/genes11060656>., Registrované v: WOS

5. [1.1] MATSUSHIKA, Akinori - NEGI, Kanako - SUZUKI, Toshihiro - GOSHIMA, Tetsuya - HOSHINO, Tamotsu. Identification and Characterization of a Novel *Issatchenkia orientalis* GPI-Anchored Protein, IoGas1, Required for Resistance to Low pH and Salt Stress. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 9, pp., Registrované v: WOS

6. [1.1] MOGHADDAM, Mohammad-Reza Bolouri - VILCINSKAS, Andreas - RAHNAMAEIAN, Mohammad. The insect-derived antimicrobial peptide metchnikowin targets *Fusarium graminearum* beta(1,3)-glucanotransferase Gell, which is required for the maintenance of cell wall integrity. In BIOLOGICAL CHEMISTRY. ISSN 1431-6730, 2017, vol. 398, no. 4, pp. 491-498., Registrované v: WOS

7. [1.1] PATE, Pavan K. - FREE, Stephen J. The Genetics and

Biochemistry of Cell Wall Structure and Synthesis in *Neurospora crassa*, a Model Filamentous Fungus. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS

8. [1.1] RAICH, Lluís - BORODKIN, Vladimir - FANG, Wenxia - CASTRO-LOPEZ, Jorge - VAN AALTEN, Daan M. F. - HURTADO-GUERRERO, Ramon - ROVIRA, Carme. A Trapped Covalent Intermediate of a Glycoside Hydrolase on the Pathway to Transglycosylation. Insights from Experiments and Quantum Mechanics/Molecular Mechanics Simulations. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0002-7863, 2016, vol. 138, no. 10, pp. 3325-3332., Registrované v: WOS

ADCA898 MAZÁŇ, Marián - FARKAŠ, Vladimír. Transglutaminase-like activity participates in cell wall biogenesis in *Saccharomyces cerevisiae*. In *Biologia*, 2007, vol. 62, p. 128-131. (2006: 0.213 - IF, Q4 - JCR, 0.154 - SJR, Q3 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-007-0038-z>

Ohlasy:

1. [1.1] DUARTE, Lovaine - MATTE, Carla Roberta - BIZARRO, Cristiano Valim - AYUB, Marco Antonio Zachia. Transglutaminases: part I-origins, sources, and biotechnological characteristics. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s11274-019-2791-x>, Registrované v: WOS

ADCA899 VALÁRIKOVÁ, Jana - ČÍŽOVÁ, Alžbeta** - RAČKOVÁ, Lucia - BYSTRICKÝ, Slavomír. Anti-staphylococcal activity of quaternized mannan from the yeast *Candida Albicans*. In *Carbohydrate Polymers*, 2020, vol. 240, art. no. 116228 [9] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116288>

Ohlasy:

1. [1.2] CAVITT, T.B. - CARLISLE, J.G. - DODDS, A.R. - FAULKNER, R.A. - GARFIELD, T.C. - GHEBRANIOUS, V.N. - HENDLEY, P.R. - HENRY, E.B. - HOLT, Ch.J. - LOWE, J.R. - LOWRY, J.A. - OSKIN, D.S. - PATEL, P.R. - SMITH, D. - WEI, W. Thermodynamic Surface Analyses to Inform Biofilm Resistance. In *iScience*, 2020-11-20, 23, 11, pp., Registrované v: SCOPUS

ADCA900 VALÁRIKOVÁ, Jana** - KORCOVÁ, Jana, Vráblová - ZIBUROVÁ, Jana - ROSINSKÝ, Jozef - ČÍŽOVÁ, Alžbeta - HÁNYŠOVÁ, Sandra - SOJKA, Martin - FARKAŠ, Pavol. Potential pathogenicity and antibiotic resistance of aquatic *Vibrio* isolates from freshwater in Slovakia. In *Folia Microbiologica*, 2020, vol. 65, p. 545-555. (2019: 1.730 - IF, Q4 - JCR, 0.514 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-019-00760-w>

Ohlasy:

1. [1.1] FU, Huiyu - YU, Pan - LIANG, Weili - KAN, Biao - PENG, Xu - CHEN, Lanming. Virulence, Resistance, and Genomic Fingerprint Traits of *Vibrio cholerae* Isolated from 12 Species of Aquatic Products in Shanghai, China. In *MICROBIAL DRUG RESISTANCE*. ISSN 1076-6294, 2020, vol. 26, no. 12,

pp. 1526-1539. Dostupné na: <https://doi.org/10.1089/mdr.2020.0269>,
Registrované v: WOS

2. [1.1] SIPKO, Jozef. From Corona Virus, to Kollar Virus. In JAZYK A POLITIKA: NA POMEDZI LINGVISTIKY A POLITOLOGIE V., 2020, vol., no., pp. 347-356., Registrované v: WOS

ADCA901 MIADOKOVÁ, Eva - RAUKO, Peter - KOGAN, Grigorij - VLČKOVÁ, Eva - SVIDOVÁ, Soňa - DÚHOVÁ, Viola - NAĐOVÁ, S. Diverse biomodulatory effects of glucomannan from *Candida utilis*. In *Toxicology in vitro*, 2006, vol. 20, p. 649-657. (2005: 1.754 - IF, Q2 - JCR, 0.644 - SJR, Q1 - SJR). ISSN 0887-2333. Dostupné na: <https://doi.org/10.1016/j.tiv.2005.12.001>

Ohlasy:

1. [1.1] APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] FDHILA, Kais - HADDAJI, Najla - CHAKROUN, Ibtissem - MACHERKI, Mohammed Ezz Eddine - NEFZI, Faten - BAKHROUF, Amina. Glucomannan's protective effect on the virulence of *Vibrio splendidus* in pacific oyster. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2016, vol. 56, no., pp. 410-416., Registrované v: WOS

3. [1.1] FREITAS, Filomena - ROCA, Christophe - REIS, Maria A. M. Fungi as Sources of Polysaccharides for Pharmaceutical and Biomedical Applications. In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS, 2015, p. 61-103., Registrované v: WOS

4. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS

5. [1.1] LI, Jun-yi - SUN, Fei - ZHOU, Hai-feng - YANG, Jia - HUANG, Cong - FAN, Heng. A Systematic Review Exploring the Anticancer Activity and Mechanisms of Glucomannan. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2019, vol. 10, no., pp., Registrované v: WOS

6. [1.1] MADRIGAL-BUJIDAR, Eduardo - ANTONIO MORALES-GONZALEZ, Jose - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - REYES-ARELLANO, Alicia - ALVAREZ-GONZALEZ, Isela - PEREZ-PASTEN, Ricardo - MADRIGAL-SANTILLAN, Eduardo. Prevention of Aflatoxin B-1-Induced DNA Breaks by beta-D-Glucan. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 6, pp. 2145-2158., Registrované v: WOS

7. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJIDAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLEDO, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In

TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS

8. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS

9. [1.1] REVECO-URZUA, Felipe Eduardo - HOFOSSETER, Mette - KOVI, Mallikarjuna Rao - MYDLAND, Liv Torunn - ANESTAD, Ragnhild - SORBY, Randi - PRESS, Charles McLean - LAGOS, Leidy - OVERLAND, Margareth. *Candida utilis* yeast as a functional protein source for Atlantic salmon (*Salmo solar* L.): Local intestinal tissue and plasma proteome responses. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 12, pp., Registrované v: WOS

10. [1.1] ZIA, Fatima - ZIA, Khalid Mahmood - ZUBER, Mohammad - AHMAD, Hafiz Badaruddin - MUNEER, Majid. Glucomannan based polyurethanes: A critical short review of recent advances and future perspectives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 87, no., pp. 229-236., Registrované v: WOS

ADCA902 MIADOKOVÁ, Eva - RAUKO, Peter - KOGAN, Grigorij - VLČKOVÁ, Eva - DÚHOVÁ, V. - SVIDOVÁ, Soňa - PRAŽMARIOVÁ, E. - TOTHOVÁ, K. - NAĐOVÁ, S. The role of Natural Biopolymers in Genotoxicity of Mutagens/Carcinogens Elimination. In *Biomedical Papers*, 2005, vol. 149, no. 2, p. 493-496. ISSN 1213-8118.

Ohlasy:

1. [1.1] ATASEYER-ARSLAN, Belkis - YILANCIOGLU, Kaan - BEKAROGLU, Maide G. - TASKIN, Emre - ALTINOZ, Eyup - CETINER, Selim. Cytotoxic effect of extract from *Dunaliella salina* against SH-SY5Y neuroblastoma cells. In GENERAL PHYSIOLOGY AND BIOPHYSICS. ISSN 0231-5882, 2015, vol. 34, no. 2, pp. 201-207., Registrované v: WOS
2. [1.1] DA SILVA ARAUJO, Vilma Barbosa - FERREIRA DE MELO, Adma Nadja - DE SOUZA, Neyrijane Targino - BARBOZA DA SILVA, Vania Maria - CASTRO-GOMEZ, Raul H. - SILVA, Alexandre Sergio - DE SOUZA, Evandro Leite - MAGNANI, Marciane. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 8, pp. 14950-14958., Registrované v: WOS
3. [1.1] JANTOVA, Sona - BAKOS, Dusan - BIROSOVA, Lucia - MATEJOV, Patrik. Biological properties of a novel coladerm-beta glucan membrane. In vitro assessment using human fibroblasts. In BIOMEDICAL PAPERS-OLOMOUC. ISSN 1213-8118, 2015, vol. 159, no. 1, pp. 67-76., Registrované v: WOS
4. [1.1] MA, Lu - CHEN, Yuancan - WANG, Xude - XIONG, Mingzhou - SUN, Yuanyuan - ZHANG, Xiaoshu - ZHAO, Yuqing. Design, characterization, and in vitro antiproliferative efficacy of gemcitabine conjugates based on carboxymethyl glucan. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2018, vol. 28, no. 17, pp. 2920-2924., Registrované v: WOS

ADCA903 MIČOVÁ, Júlia** - BURYI, Maksym - ŠIMEK, Daniel - DRAHOKOUPIL, Jan - NEYKOVA, Neda - CHANG, Yu-Ying - REMEŠ, Zdeněk - POP-GEORGIEVSKI, Ognen - SVOBODA, Jan - IM, Chan. Synthesis of zinc oxide nanostructures and comparison of their crystal quality. In *Applied Surface Science*, 2018, vol. 461, p. 190-195. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.05.176>

Ohlasy:

1. [1.1] CASAMASSA, Enrico - FIORAVANTI, Ambra - MAZZOCCHI, Mauro - CAROTTA, Maria Cristina - FAGA, Maria Giulia. Abrasive properties of ZnO: Influence of different nanoforms. In *TRIBOLOGY INTERNATIONAL*. ISSN 0301-679X, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.triboint.2019.105984>., Registrované v: WOS
2. [1.1] SANTANGELO, Saveria - PANTO, Fabiola - TRIOLO, Claudia - STELITANO, Sara - FRONTERA, Patrizia - FERNANDEZ-CARRETERO, Francisco - RINCON, Ines - AZPIROZ, Patxi - GARCIA-LUIS, Alberto - BELAUSTEGUI, Yolanda. Evaluation of the electrochemical performance of electrospun transition metal oxide-based electrode nanomaterials for water CDI applications. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2019, vol. 309, no., pp. 125-139., Registrované v: WOS
3. [1.1] SAVCHENKO, Dariya - VASIN, Andrii - KUZ, Oleksandr - VEROVSKY, Igor - PROKHOROV, Andrey - NAZAROV, Alexey - LANCOK, Jan - KALABUKHOVA, Ekaterina. Role of the paramagnetic donor-like defects in the high n-type conductivity of the hydrogenated ZnO microparticles. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74449-3>., Registrované v: WOS

ADCA904 MICHALČÁKOVÁ, A. - SULO, S. - SLÁVIKOVÁ, Elena. Killer yeasts of *Kluyveromyces* and *Hansenula* genera with potential application in fermentation and therapy. In *Acta Biotechnologica*, 1993, vol. 13,), (1993. Dostupné na: <https://doi.org/10.1002/abio.370130406>

Ohlasy:

1. [1.1] BOYNTON, Primrose J. - GREIG, Duncan. Species richness influences wine ecosystem function through a dominant species. In *FUNGAL ECOLOGY*. ISSN 1754-5048, 2016, vol. 22, no., pp. 61-72., Registrované v: WOS

ADCA905 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena - ALEXEY, P. - KAČÍK, F. - URGELOVÁ, E. Effect of blending lignin biopolymer on the biodegradability of polyolefin plastics. In *World Journal of Microbiology & Biotechnology*, 2001, vol. 17, p. 601-607. (2000: 0.530 - IF, Q3 - JCR, 0.345 - SJR, Q2 - SJR, Current Contents - CCC). (2001 - Current Contents). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1023/A:1012415023385>

Ohlasy:

1. [1.1] CHIELLINI, Emo - COMETA, Stefania - CORTI, Andrea. Oxo-Biodegradable Polymers. In *ENCYCLOPEDIA OF POLYMER APPLICATIONS, VOLS I-III*, 2019, vol., no., pp. 1907-1957., Registrované v: WOS
2. [1.1] JUNG, Jae Yeong - LEE, Yumi - LEE, Eun Yeol. Value-added Utilization of Lignin Residue from Pretreatment Process of Lignocellulosic

- Biomass. In APPLIED CHEMISTRY FOR ENGINEERING. ISSN 1225-0112, 2016, vol. 27, no. 2, pp. 135-144., Registrované v: WOS
3. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS
 4. [1.1] KIM, Sunghoon - OH, Seungtaek - LEE, Jungmin - ROH, Hyun-gyoo - PARK, Jongshin. Changes of Lignin Molecular Structures in a Modification of Kraft Lignin Using Acid Catalyst. In Materials. ISSN 1996-1944, 2016, vol. 9, no. 8, pp., Registrované v: WOS
 5. [1.1] KRUEGER, Martin C. - HARMS, Hauke - SCHLOSSER, Dietmar. Prospects for microbiological solutions to environmental pollution with plastics. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 21, pp. 8857-8874., Registrované v: WOS
 6. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS

ADCA906 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena. Modulation of mutagenicity of various mutagens by lignin derivatives. In *Mutation Research*, 2003, vol. 535, p. 171-180. ISSN 1568-7864. Dostupné na:
[https://doi.org/10.1016/S1383-5718\(02\)00319-4](https://doi.org/10.1016/S1383-5718(02)00319-4)

Ohlasy:

1. [1.1] BARTZOKA, Elisavet D. - CRESTINI, Claudia - LANGE, Heiko. Biomass Derived and Biomass Inspired Polymers in Pharmaceutical Applications. In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL TECHNOLOGIES: VOL 3, BIODEGRADABLE POLYMERS, 2015, vol., no., pp. 127-203., Registrované v: WOS
2. [1.1] DAS, Paramita - VERMA, Chhavi - PRABHAKAR, Arjun - MAJI, Pradip K. Chemistry, Biology, and Surface Engineering of Sustainable Nanostructural Materials. In DYNAMICS OF ADVANCED SUSTAINABLE NANOMATERIALS AND THEIR RELATED NANOCOMPOSITES AT THE BIO-NANO INTERFACE, 2019, vol., no., pp. 25-52., Registrované v: WOS
3. [1.1] GARCIA, Araceli - SPIGNO, Giorgia - LABIDI, Jalel. Antioxidant and biocide behaviour of lignin fractions from apple tree pruning residues. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 104, no., pp. 242-252., Registrované v: WOS
4. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
5. [1.2] Cheng, Y., Zhang, H., Xu, Z., & Wu, L. P. Advanced applications of lignin-based materials. In: Functional Materials from Lignin: Methods and Advances (World Scientific Publishing Co., 2018, pp. 169-205), Registrované v: SCOPUS
6. [1.2] MORGANTI, Pierfrancesco - STOLLER, Marco. Chitin and

lignin: Natural ingredients from waste materials to make innovative and healthy products for humans and plant. In *Chemical Engineering Transactions*, 2017-01-01, 60, pp. 319-324., Registrované v: SCOPUS

ADCA907 MIKUŠOVÁ, Lucia - CIESAROVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - VALACHOVIČOVÁ, Martina - PENESOVÁ, Adela - KAJABA, Igo - HOLUBKOVÁ, Andrea - KRAJČIOVÁ, Ľubica - MISLOVIČOVÁ, Danica - BOBRÍK, Marián - ŠTURDÍK, Ernest. Novel cereal fibre drink as a tool for civilisation disease prevention. In *Quality Assurance and Safety of Crops and Foods*, 2014, vol. 6, p. 357-366. (2013: 0.935 - IF, Q3 - JCR, 0.296 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 1757-8361. Dostupné na: <https://doi.org/10.3920/QAS2013.0372>

Ohlasy:

1. [1.1] AKTAS, K. - TURKER, S. Utilisation of dairy by-products and beta-glucan in eriste production. In *QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS*. ISSN 1757-8361, 2015, vol. 7, no. 5, pp. 809-818., Registrované v: WOS

2. [1.1] POUTANEN, Kaisa S. - DUSSORT, Pierre - ERKNER, Alfrun - FISZMAN, Susana - KARNIK, Kavita - KRISTENSEN, Mette - MARSAUX, Cyril F. M. - MIQUEL-KERGOAT, Sophie - PENTIKAINEN, Saara P. - PUTZ, Peter - SLAVIN, Joanne L. - STEINERT, Robert E. - MELA, David J. A review of the characteristics of dietary fibers relevant to appetite and energy intake outcomes in human intervention trials. In *AMERICAN JOURNAL OF CLINICAL NUTRITION*. ISSN 0002-9165, 2017, vol. 106, no. 3, pp. 747-754., Registrované v: WOS

ADCA908 MILLER, Gavin J. - HANSEN, Steen U. - BARÁTH, Marek - JOHANNESSEN, Christian - BLANCH, Ewan W. - JAYSON, Grodon C. - GARDINER, John M. Synthesis of heparin-related GlcN-IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy. In *Carbohydrate Research*, 2014, vol. 400, p. 44-53. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.06.026>

Ohlasy:

1. [1.1] BARATH, M. - KOOS, M. - TVAROSKA, I. - HIRSCH, J. Synthesis of potential inhibitors of glycosyltransferases representing UDP-GlcNAc. In *CHEMICAL PAPERS*. ISSN 0366-6352, FEB 2015, vol. 69, no. 2, p. 339-347., Registrované v: WOS

2. [1.1] BREZILLON, S. - UNTEREINER, V. - MOHAMED, H. T. - HODIN, J. - CHATRON-COLLIET, A. - MAQUART, F.X. - SOCKALINGUM, G. D. Probing glycosaminoglycan spectral signatures in live cells and their conditioned media by Raman microspectroscopy. In *ANALYST*. ISSN 0003-2654, 2017, vol. 142, no. 8, pp. 1333-1341., Registrované v: WOS

3. [1.1] DUDEK, Monika - ZAJAC, Grzegorz - SZAFRANIEC, Ewelina - WIERCIGROCH, Ewelina - TOTT, Szymon - MALEK, Kamilla - KACZOR, Agnieszka - BARANSKA, Malgorzata. Raman Optical Activity and Raman spectroscopy of carbohydrates in solution. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2019, vol. 206, no., pp. 597-612., Registrované v: WOS

4. [1.1] KARARNANOS, Nikos K. - PIPERIGKOU, Zoi -

THEOCHARIS, Achilleas D. - WATANABE, Hideto - FRANCHI, Marco - BAUD, Stephanie - BREZILLON, Stephane - GOETTE, Martin - PASSI, Alberto - VIGETTI, Davide - RICARD-BLUM, Sylvie - SANDERSON, Ralph D. - NEILL, Thomas - IOZZO, Renato V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, pp. 9152-9232., Registrované v: WOS

5. [1.1] MOHAMED, Hossam Taha - UNTEREINER, Valerie - SOCKALINGUM, Ganesh D. - BREZILLON, Stephane. Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 309-323., Registrované v: WOS

6. [1.1] TOWNSEND, David J. - MIDDLETON, David A. - ASHTON, Lorna. Raman Spectroscopy with 2D Perturbation Correlation Moving Windows for the Characterization of Heparin-Amyloid Interactions. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 13822-13828.

Dostupné na: <https://doi.org/10.1021/acs.analchem.0c02390>., Registrované v: WOS

ADCA909 MIRABELLA, Stefania - D'ADAMIO, Giampiero - MATASSINI, Camilla - GOTI, Andrea - DELGADO, Sandra - GIMENO, Ana - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. - ŠESTÁK, Sergej - JIMÉNEZ-BARBERO, Jesus - CARDONA, Francesca. Mechanistic insight into the binding of multivalent pyrrolidines to alpha-mannosidases. In *Chemistry -A European Journal*, 2017, vol. 23, p. 14585-14596. (2016: 5.317 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201703011>

Ohlasy:

1. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In CHEMICAL RECORD. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na:

<https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS

2. [1.1] GONZALEZ-CUESTA, Manuel - GOYARD, David - NANBA, Eiji - HIGAKI, Katsumi - GARCIA FERNANDEZ, Jose M. - RENAUDET, Olivier - ORTIZ MELLET, Carmen. Multivalent glycoligands with lectin/enzyme dual specificity: self-deliverable glycosidase regulators. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2019, vol. 55, no. 85, pp. 12845-12848., Registrované v: WOS

3. [1.1] GONZALEZ-CUESTA, Manuel - MELLET, Carmen Ortiz - GARCIA FERNANDEZ, Jose M. Carbohydrate supramolecular chemistry: beyond the multivalent effect. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 39, pp. 5207-5222. Dostupné na:

<https://doi.org/10.1039/d0cc01135e>., Registrované v: WOS

4. [1.1] HOWARD, Eduardo - COUSIDO-SIAH, Alexandra - LEPAGE, Mathieu L. - SCHNEIDER, Jeremy P. - BODLENNER, Anne - MITSCHLER, Andre - MELI, Alessandra - IZZO, Irene - ARIEL ALVAREZ, H. - PODJARNY, Alberto - COMPAIN, Philippe. Structural Basis of Outstanding Multivalent Effects in Jack Bean Mannosidase Inhibition. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 27, pp. 8002-8006., Registrované v: WOS

5. [1.1] MASSICOT, Fabien - MESSIRE, Gatien - VALLEE, Alexis - VASSE, Jean-Luc - PY, Sandrine - BEHR, Jean-Bernard. Regiospecific formation of sugar-derived ketonitrone towards unconventional C-branched pyrrolizidines and indolizidines. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2019, vol. 17, no. 29, pp. 7066-7077., Registrované v: WOS
6. [1.1] NIERENGARTEN, Jean-Francois - SCHNEIDER, Jeremy P. - THI MINH NGUYET TRINH - JOOSTEN, Antoine - HOLLER, Michel - LEPAGE, Mathieu L. - BODLENNER, Anne - GARCIA-MORENO, M. Isabel - ORTIZ MELLET, Carmen - COMPAIN, Philippe. Giant Glycosidase Inhibitors: First- and Second-Generation Fullerodendrimers with a Dense Iminosugar Shell. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 10, pp. 2483-2492., Registrované v: WOS
7. [1.1] PICHON, Maeva M. - STAUFFERT, Fabien - BODLENNER, Anne - COMPAIN, Philippe. Tight-binding inhibition of jack bean alpha-mannosidase by glycoimidazole clusters. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2019, vol. 17, no. 23, pp. 5801-5817., Registrované v: WOS
8. [1.1] RISQUEZ-CUADRO, Rocio - MATSUMOTO, Reimi - ORTEGA-CABALLERO, Fernando - NANBA, Eiji - HIGAKI, Katsumi - GARCIA FERNANDEZ, Jose Manuel - ORTIZ MELLET, Carmen. Pharmacological Chaperones for the Treatment of alpha-Mannosidosis. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2019, vol. 62, no. 12, pp. 5832-5843., Registrované v: WOS
9. [1.1] SCHNEIDER, Jeremy P. - TOMMASONE, Stefano - DELLA SALA, Paolo - GAETA, Carmine - TALOTTA, Carmen - TARNUS, Celine - NERI, Placido - BODLENNER, Anne - COMPAIN, Philippe. Synthesis and Glycosidase Inhibition Properties of Calix[8]arene-Based Iminosugar Click Clusters. In PHARMACEUTICALS, 2020, vol. 13, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ph13110366>., Registrované v: WOS

ADCA910 MIRANDE, C. - KADLEČÍKOVÁ, E. - MATULOVÁ, Mária - CAPEK, Peter - BERNALIER-DONADILLE, A. - FORANO, E. - BÉRA-MAILLET, C. Dietary fibre degradation and fermentation by two xylanolytic bacteria *Bacteroides xylanisolvens* XB1A T and *Roseburia intestinalis* XB6B4 from human intestine. In *Journal of Applied Microbiology*, 2010, vol. 109, p. 451-460. (2009: 2.098 - IF, Q2 - JCR, 0.959 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 1364-5072. Dostupné na: <https://doi.org/10.1111/j.1365-2672.2010.04671.x>
Ohlasy:

1. [1.1] BATAKAN, R. B. - FENNING, A. S. - DALBO, V. J. - SCANLAN, A. T. - DUNCAN, M. J. - MOORE, R. J. - STANLEY, D. A gut reaction: the combined influence of exercise and diet on gastrointestinal microbiota in rats. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2017, vol. 122, no. 6, pp. 1627-1638., Registrované v: WOS
2. [1.1] BRODMANN, Theodor - ENDO, Akihito - GUEIMONDE, Miguel - VINDEROLA, Gabriel - KNEIFEL, Wolfgang - DE VOS, Willem M. - SALMINEN, Seppo - GOMEZ-GALLEGO, Carlos. Safety of Novel Microbes for Human Consumption: Practical Examples of Assessment in the European Union. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

3. [1.1] CAMPISCIANO, G. - PALMISANO, S. - CASON, C. - GIURICIN, M. - SILVESTRI, M. - GUERRA, M. - MACOR, D. - DE MANZINI, N. - CROCE, L. S. - COMAR, M. Gut microbiota characterisation in obese patients before and after bariatric surgery. In *BENEFICIAL MICROBES*. ISSN 1876-2883, 2018, vol. 9, no. 3, pp. 367-373., Registrované v: WOS
4. [1.1] CANTU-JUNGLES, Thaisa M. - RASMUSSEN, Heather E. - HAMAKER, Bruce R. Potential of Prebiotic Butyrogenic Fibers in Parkinson's Disease. In *FRONTIERS IN NEUROLOGY*. ISSN 1664-2295, 2019, vol. 10, no., pp., Registrované v: WOS
5. [1.1] COOPER, Danielle N. - KABLE, Mary E. - MARCO, Maria L. - DE LEON, Angela - RUST, Bret - BAKER, Julita E. - HORN, William - BURNETT, Dustin - KEIM, Nancy L. The Effects of Moderate Whole Grain Consumption on Fasting Glucose and Lipids, Gastrointestinal Symptoms, and Microbiota. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
6. [1.1] DAVIES, Naomi K. - O'SULLIVAN, Justin M. - PLANK, Lindsay D. - MURPHY, Rinki. Altered gut microbiome after bariatric surgery and its association with metabolic benefits: A systematic review. In *SURGERY FOR OBESITY AND RELATED DISEASES*. ISSN 1550-7289, 2019, vol. 15, no. 4, pp. 656-665., Registrované v: WOS
7. [1.1] DE PAEPE, Kim - KERCKHOF, Frederiek-Maarten - VERSPREET, Joran - COURTIN, Christophe M. - VAN DE WIELE, Tom. Inter-individual differences determine the outcome of wheat bran colonization by the human gut microbiome. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 8, pp. 3251-3267., Registrované v: WOS
8. [1.1] DESPRES, Jordane - FORANO, Evelyne - LEPERCQ, Pascale - COMTET-MARRE, Sophie - JUBELIN, Gregory - CHAMBON, Christophe - YEOMAN, Carl J. - MILLER, Margaret E. Berg - FIELDS, Christopher J. - MARTENS, Eric - TERRAPON, Nicolas - HENRISSAT, Bernard - WHITE, Bryan A. - MOSONI, Pascale. Xylan degradation by the human gut *Bacteroides xylanisolvens* XB1A(T) involves two distinct gene clusters that are linked at the transcriptional level. In *BMC GENOMICS*. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
9. [1.1] DOBSON, Corrine C. - MOTTAWEA, Walid - RODRIGUE, Alexane - BUZATI PEREIRA, Bruna L. - HAMMAMI, Riadh - POWER, Krista A. - BORDENAVE, Nicolas. Impact of molecular interactions with phenolic compounds on food polysaccharides functionality. In *FUNCTIONAL FOOD INGREDIENTS FROM PLANTS*. ISSN 1043-4526, 2019, vol. 90, no., pp. 135-181., Registrované v: WOS
10. [1.1] FENG, Guangli - FLANAGAN, Bernadine M. - MIKKELSEN, Deirdre - WILLIAMS, Barbara A. - YU, Wenwen - GILBERT, Robert G. - GIDLEY, Michael J. Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
11. [1.1] FERNANDES, Carlos - BENFEITO, Sofia - FONSECA, Andre - OLIVEIRA, Catarina - GARRIDO, Jorge - MANUELA GARRIDO, E. - BORGES, Fernanda. PHOTODAMAGE AND PHOTOPROTECTION: TOWARD SAFETY AND SUSTAINABILITY THROUGH NANOTECHNOLOGY SOLUTIONS. In *FOOD PRESERVATION*, 2017, vol. 6, no., pp. 527-565., Registrované v: WOS

12. [1.1] FUKE, Nobuo - NAGATA, Naoto - SUGANUMA, Hiroyuki - OTA, Tsuguhito. Regulation of Gut Microbiota and Metabolic Endotoxemia with Dietary Factors. In NUTRIENTS, 2019, vol. 11, no. 10, pp., Registrované v: WOS
13. [1.1] HUANG, Juqing - XU, Qingxian - ZHENG, Yi - QIAN, Lei - GUAN, Xuefang - LIN, Bin. In vitro digestibility and fermentability of naturally acetylated xylans from bamboo shavings. In COGENT BIOLOGY. ISSN 2331-2025, 2019, vol. 4, no. 1, pp., Registrované v: WOS
14. [1.1] CHERRY, Paul - YADAV, Supriya - STRAIN, Conall R. - ALLSOPP, Philip J. - MCSORLEY, Emeir M. - ROSS, R. Paul - STANTON, Catherine. Prebiotics from Seaweeds: An Ocean of Opportunity? In MARINE DRUGS. ISSN 1660-3397, 2019, vol. 17, no. 6, pp., Registrované v: WOS
15. [1.1] LEONG, Claudia - HASZARD, Jillian J. - LAWLEY, Blair - OTAL, Anna - TAYLOR, Rachael W. - SZYMLEK-GAY, Ewa A. - FLEMING, Elizabeth A. - DANIELS, Lisa - FANGUPO, Louise J. - TANNOCK, Gerald W. - HEATH, Anne-Louise M. Mediation Analysis as a Means of Identifying Dietary Components That Differentially Affect the Fecal Microbiota of Infants Weaned by Modified Baby-Led and Traditional Approaches. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 18, pp., Registrované v: WOS
16. [1.1] LETH, Maria Louise - EJB, Morten - WORKMAN, Christopher - EWALD, David Adrian - PEDERSEN, Signe Schultz - STERNBERG, Claus - BÄHL, Martin Iain - LICHT, Tine Rask - AACHMANN, Finn Lillelund - WESTERENG, Bjørge - ABOU HACHEM, Maher. Differential bacterial capture and transport preferences facilitate co-growth on dietary xylan in the human gut. In NATURE MICROBIOLOGY. ISSN 2058-5276, 2018, vol. 3, no. 5, pp. 570-580., Registrované v: WOS
17. [1.1] LIU, Jay - WILLIAMS, Brett - FRANK, Daniel - DILLON, Stephanie M. - WILSON, Cara C. - LANDAY, Alan L. Inside Out: HIV, the Gut Microbiome, and the Mucosal Immune System. In JOURNAL OF IMMUNOLOGY. ISSN 0022-1767, 2017, vol. 198, no. 2, pp. 605-614., Registrované v: WOS
18. [1.1] LIU, Ming-qi - HUO, Wen-kang - XU, Xin - WENG, Xiao-yan. Recombinant *Bacillus amyloliquefaciens* xylanase A expressed in *Pichia pastoris* and generation of xylooligosaccharides from xylans and wheat bran. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 105, no., pp. 656-663., Registrované v: WOS
19. [1.1] MADLAND, Eva - KITAOKU, Yoshihito - SAETROM, Gerd Inger - LETH, Maria Louise - EJB, Morten - ABOU HACHEM, Maher - AACHMANN, Finn Lillelund. H-1, C-13 and N-15 backbone and side-chain assignment of a carbohydrate binding module from a xylanase from *Roseburia intestinalis*. In BIOMOLECULAR NMR ASSIGNMENTS. ISSN 1874-2718, 2019, vol. 13, no. 1, pp. 55-58., Registrované v: WOS
20. [1.1] SALMEAN, Armando A. - GUILLOUZO, Alexia - DUFFIEUX, Delphine - JAM, Murielle - MATARD-MANN, Maria - LAROCQUE, Robert - PEDERSEN, Henriette L. - MICHEL, Gurvan - CZJZEK, Mirjam - WILLATS, William G. T. - HERVE, Cecile. Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol.

8, no., pp., Registrované v: WOS

21. [1.1] SELBER-HNATIW, Susannah - SULTANA, Tarin - TSE, W. - ABDOLLAHI, Niki - ABDULLAH, Sheyar - AL RAHBANI, Jalal - ALAZAR, DIALA - ALRUMHEIN, Nekoula Jean - APRIKIAN, Saro - ARSHAD, Rimsha - AZUELOS, Jean-Daniel - BERNADOTTE, Daphney - BESWICK, Natalie - CHAZBEY, Hana - CHURCH, Kelsey - CIUBOTARU, Emaly - D'AMATO, Lora - DEL CORPO, Tavia - DENG, Jasmine - DI GIULIO, Briana Laura - DIVEEVA, Diana - ELAHIE, Elias - GORDON, James - FRANK, Marcel - FURZE, Emma - GARNER, Rebecca - GIBBS, Vanessa - GOLDBERG--HALL, Rachel - GOLDMAN, Chaim Jacob - GOLTSIOS, Fani-Fay - GORJIPOUR, Kevin - GRANT, Taylor - GRECO, Brittany - GULIYEV, Nadir - HABRICH, Andrew - HYLAND, Hillary - IBRAHIM, Nabila - IOZZO, Tania - JAWAHEER-FENAOUI, Anastasia - JAWORSKI, Julia Jane - JHAJJ, Maneet Kaur - JONES, Jermaine - JOYETTE, Rodney - KAUDEER, Samad - KELLEY, Shawn - KIANI, Shayesteh - KOAYES, Marylin - AMY-AMINTA, Abby Johanna - KPATA, Lena - MAINGOT, Shannon - MARTIN, Sara - MATHERS, Kelly - MCCULLOGH, Sean - MCNAMARA, Kelly - MENDONCA, James - MOHAMMAD, Karamat - MOMTAZ, Sharara Arezo - NAVARATNARAJAH, Thiban - NGUYEN-DUONG, Kathy - OMRAN, Mustafa - ORTIZ, Angela - PATEL, Anjali - PAUL-COLE, Kahlila - PLAISIR, Paul-Arthur - MARROQUIN, Jessica Alexandra Porras - PREVOST, Ashlee - QUACH, Angela - RAFAL, Aries John - RAMSARUN, Rewaparsad - RHNIMA, Sami - RILI, Lydia - SAFIR, Naomi - SAMSON, Eugenie - SANDIFORD, Rebecca Rose - SECONDI, Stefano - SHAHID, Stephanie - SHAHROOZI, Mojdeh - SIDIBE, Fily - SMITH, Megan - FLORES, Alina Maria Sreng - YBARRA, Anabel Suarez - SENECHAL, Rebecca - TAIFOUR, Tarek - TANG, Lawrence - TRAPID, Adam - POTVIN, Maxim Tremblay - WAINBERG, Justin - WANG, Dani Ni - WEISSENBERG, Mischa - WHITE, Allison - WILKINSON, Gabrielle - WILLIAMS, Brittany - WILSON, Joshua Roth - ZOPPI, Johanna - ZOUBOULAKIS, Katerina - GAMBERI, Chiara. Metabolic networks of the human gut microbiota. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2020, vol. 166, no. 2, pp. 96-119. Dostupné na: <https://doi.org/10.1099/mic.0.000853>., Registrované v: WOS

22. [1.1] SERGEEV, Igor N. - ALJUTAILY, Thamer - WALTON, Gemma - HUARTE, Eduardo. Effects of Synbiotic Supplement on Human Gut Microbiota, Body Composition and Weight Loss in Obesity. In NUTRIENTS, 2020, vol. 12, no. 1, pp. Dostupné na: <https://doi.org/10.3390/nu12010222>., Registrované v: WOS

23. [1.1] SHEWA, Wudneh Ayele - HUSSAIN, Abid - CHANDRA, Rashmi - LEE, Jangho - SAHA, Swakshar - LEE, Hyung-Sool. Valorization of food waste and economical treatment: Effect of inoculation methods. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 261, no., pp. Dostupné na: <https://doi.org/10.1016/j.jclepro.2020.121170>., Registrované v: WOS

24. [1.1] TIAN, Dandan - XU, Xiaoqing - PENG, Qing - WEN, Zhiguo - ZHANG, Yuwei - WEI, Chenyang - QIAO, Yu - SHI, Bo. In vitro fermentation of arabinoxylan from oat (*Avena sativa* L.) by Pekin duck intestinal microbiota. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 2, pp., Registrované v: WOS

25. [1.1] TIWARI, Utsav P. - FLEMING, Stephen A. - ABDUL RASHEED, Muhammed S. - JHA, R. - DILGER, Ryan N. The role of

oligosaccharides and polysaccharides of xylan and mannan in gut health of monogastric animals. In JOURNAL OF NUTRITIONAL SCIENCE. ISSN 2048-6790, 2020, vol. 9, no., pp. Dostupné na:

<https://doi.org/10.1017/jns.2020.14>., Registrované v: WOS

26. [1.1] TIWARI, Utsav P. - SINGH, Amit K. - JHA, Rajesh. Fermentation characteristics of resistant starch, arabinoxylan, and beta-glucan and their effects on the gut microbial ecology of pigs: A review. In ANIMAL NUTRITION. ISSN 2405-6383, 2019, vol. 5, no. 3, pp. 217-226., Registrované v: WOS

27. [1.1] TURRONI, Francesca - MILANI, Christian - DURANTI, Sabrina - MAHONY, Jennifer - VAN SINDEREN, Douwe - VENTURA, Marco. Glycan Utilization and Cross-Feeding Activities by Bifidobacteria. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, 2018, vol. 26, no. 4, pp. 339-350., Registrované v: WOS

28. [1.1] UNGERFELD, Emilio M. - LEIGH, Mary Beth - FORSTER, Robert J. - BARBOZA, Perry S. Influence of Season and Diet on Fiber Digestion and Bacterial Community Structure in the Rumen of Muskoxen (*Ovibos moschatus*). In MICROORGANISMS. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS

29. [1.1] VAN DE WIELE, Tom - VAN PRAET, Jens T. - MARZORATI, Massimo - DRENNAN, Michael B. - ELEWAUT, Dirk. How the microbiota shapes rheumatic diseases. In NATURE REVIEWS RHEUMATOLOGY. ISSN 1759-4790, 2016, vol. 12, no. 7, pp. 398-411., Registrované v: WOS

30. [1.1] WALUJKAR, Sandeep A. - KUMBHARE, Shreyas V. - MARATHE, Nachiket P. - PATANGIA, Dhrati V. - LAWATE, Parimal S. - BHARADWAJ, Renu S. - SHOUCHE, Yogesh S. Molecular profiling of mucosal tissue associated microbiota in patients manifesting acute exacerbations and remission stage of ulcerative colitis. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 6, pp., Registrované v: WOS

31. [1.1] XIAO, Mengwei - SHEN, Zhaohua - LUO, Weiwei - TAN, Bei - MENG, Xiangrui - WU, Xing - WU, Shuai - NIE, Kai - TONG, Ting - HONG, Junbo - WANG, Xiaolei - WANG, Xiaoyan. A new colitis therapy strategy via the target colonization of magnetic nanoparticle-internalized *Roseburia intestinalis*. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2019, vol. 7, no. 10, pp. 4174-4185., Registrované v: WOS

32. [1.1] XIONG, Ziyi - HUSSAIN, Abid - LEE, Jangho - LEE, Hyung-Sool. Food waste fermentation in a leach bed reactor: Reactor performance, and microbial ecology and dynamics. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 274, no., pp. 153-161., Registrované v: WOS

33. [1.1] ZHANG, Tiehua - YANG, Yang - LIANG, Yuan - JIAO, Xu - ZHAO, Changhui. Beneficial Effect of Intestinal Fermentation of Natural Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2018, vol. 10, no. 8, pp., Registrované v: WOS

34. [1.1] ZHU, Ning - YANG, Jinshui - JI, Lei - LIU, Jiawen - YANG, Yi - YUAN, Hongli. Metagenomic and metaproteomic analyses of a corn stover-adapted microbial consortium EMSD5 reveal its taxonomic and enzymatic basis for degrading lignocellulose. In BIOTECHNOLOGY FOR BIOFUELS.

ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

35. [1.2] FENG, Guangli - FLANAGAN, Bernadine M. - MIKKELSEN, Deirdre - WILLIAMS, Barbara A. - GIDLEY, Michael J. Microbial enzymatic degradation of tamarind galactoxyloglucan and wheat arabinoxylan by a porcine faecal inoculum. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2019-04-01, 18, pp., Registrované v: SCOPUS

36. [1.2] SINGH, Bhagirath - QIN, Nan - REID, Gregor. Microbiome regulation of autoimmune, gut and liver associated diseases. In *Inflammation and Allergy Drug Targets*. ISSN 18715281, 2015-04-01, 14, 2, pp. 84-93., Registrované v: SCOPUS

ADCA911 MISLOVIČOVÁ, Danica - CHUDINOVÁ, M. - GEMEINER, Peter -

DOČOLOMANSKÝ, Peter. Affinity-chromatography of invertase on concanavalin-a bead cellulose Matrix - the case of an extraordinary strong binding glycoenzyme. In *Journal of Chromatography*, 1995, vol. 664, issue 1, p. 145-153. (1994: 1.209 - IF, Current Contents - CCC). (1995 - Current Contents). ISSN 0378-4347. Dostupné na: [https://doi.org/10.1016/0378-4347\(94\)00447-D](https://doi.org/10.1016/0378-4347(94)00447-D)

Ohlasy:

1. [1.1] CIZOVA, Alzbeta - KORCOVA, Jana - FARKAS, Pavol - BYSTRICKY, Slavomir. Efficient separation of mannan-protein mixtures by ionic liquid aqueous two-phase system, comparison with lectin affinity purification. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 314-318., Registrované v: WOS

2. [1.1] FILIP, Jaroslav - ZAVAHIR, Sifani - KLUKOVA, Ludmila - TKAC, Jan - KASAK, Peter. Immobilization of concanavalin A lectin on a reduced graphene oxidethionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2017, vol. 794, no., pp. 156-163., Registrované v: WOS

ADCA912 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica -

GEMEINER, Peter - MICHALKOVÁ, E. Biospecific immobilization of mannan-penicillin G acylase neoglycoenzyme on Concanavalin A-bead cellulose. In *Journal of Biotechnology*, 2004, vol. 110, p. 11-19. ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2004.01.006>

Ohlasy:

1. [1.1] BASAK, Souvik - PUNETHA, Vinay Deep - BISHT, Ganga - BISHT, Satpal Singh - SAHOO, Nanda Gopal - CHO, Jae Whan. Recent Trends of Polymer-Protein Conjugate Application in Biocatalysis: A Review. In *POLYMER REVIEWS*. ISSN 1558-3724, 2015, vol. 55, no. 1, pp. 163-198., Registrované v: WOS

2. [1.1] CAKMAKCI, Emrah - MUHSIR, Pelin - DEMIR, Serap. Physical and Covalent Immobilization of Lipase onto Amine Groups Bearing Thiol-Ene Photocured Coatings. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 181, no. 3, pp. 1030-1047., Registrované v: WOS

3. [1.1] JOSE FABRA, Maria - SEBA-PIERA, Isabel - TALENS-PERALES, David - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Revalorization of cellulosic wastes from Posidonia

- oceanica and Arundo donax as catalytic materials based on affinity immobilization of an engineered beta-galactosidase. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105633>., Registrované v: WOS
4. [1.1] SIRISHA, V. L. - JAIN, Ankita - JAIN, Amita. Enzyme Immobilization: An Overview on Methods, Support Material, and Applications of Immobilized Enzymes. In *ADVANCES IN FOOD AND NUTRITION RESEARCH, VOL 79: MARINE ENZYMES BIOTECHNOLOGY: PRODUCTION AND INDUSTRIAL APPLICATIONS, PT II MARINE ORGANISMS PRODUCING ENZYMES*. ISSN 1043-4526, 2016, vol. 79, no., pp. 179-211., Registrované v: WOS
5. [1.1] WU RONG - DONG QIHUI - SUN YIYI - SU ERZHENG. Efficient Enzyme Immobilization by Combining Adsorption and Cellulose Membrane Coating. In *CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE*. ISSN 0251-0790, 2019, vol. 40, no. 9, pp. 1888-1896., Registrované v: WOS
6. [1.2] KAUR, Jaspreet - CHOUDHARY, Sandeep - CHAUDHARI, Rashmi - JAYANT, Rahul D. - JOSHI, Abhijeet. Enzyme-based biosensors. In *Bioelectronics and Medical Devices: From Materials to Devices Fabrication, Applications and Reliability*, 2019-01-01, pp. 211-240., Registrované v: SCOPUS
7. [1.2] SALEM, Khandaker S. - RASHID, Taslim U. - ASADUZZAMAN - ISLAM, Md Minhajul - KHAN, M. Nuruzzaman - SHARMEEN, Sadia - RAHMAN, Mohammed Mizanur - HAQUE, Papia. Recent Updates on Immobilization of Microbial Cellulase. In *New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Cellulase System Properties and Applications*, 2016-08-02, pp. 107-139., Registrované v: SCOPUS
8. [1.2] WITONO, Yuli - AZKIYAH, Lailatul. Immobilization of crown flower (*Calotropis gigantea*) protease using celite and dextrin. In *International Journal on Advanced Science, Engineering and Information Technology*. ISSN 20885334, 2016-01-01, 6, 2, pp. 201-204., Registrované v: SCOPUS

ADCA913 MISLOVIČOVÁ, Danica - NOVÁK, Ivan - PAŠTEKA, Mikuláš. Coated silica and its behaviour in dye-affinity chromatography. In *Journal of Chromatography*, 1991, vol. 543, p. 9-16. Dostupné na: [https://doi.org/10.1016/S0021-9673\(01\)95751-6](https://doi.org/10.1016/S0021-9673(01)95751-6)

Ohlasy:

1. [1.1] RATHNASEKARA, Renuka - EL RASSI, Ziad. Polar silica-based stationary phases. Part III- Neutral silica stationary phase with surface bound maltose for affinity chromatography at reduced non-specific interactions. In *JOURNAL OF CHROMATOGRAPHY A*. ISSN 0021-9673, 2017, vol. 1508, no., pp. 33-41., Registrované v: WOS

ADCA914 MISLOVIČOVÁ, Danica - KATRLÍK, Jaroslav - PAULOVÍČOVÁ, Ema - GEMEINER, Peter - TKÁČ, Ján. Comparison of three distinct ELLA protocols for determination of apparent affinity constants between Con A and glycoproteins. In *Colloids and Surfaces B*, 2012, vol. 94, p. 163-169. (2011: 3.456 - IF, Q1 - JCR, 1.051 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0927-7765. Dostupné na: <https://doi.org/10.1016/j.colsurfb.2012.01.036>

Ohlasy:

1. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
2. [1.1] LI, Dongyan - GU, Yue - XU, Xinrui - FENG, Yueqi - MA, Yufang - LI, Shanshan - YAO, Cheng. Electrospun polyacrylonitrile fibers with and without magnetic nanoparticles for selective and efficient separation of glycoproteins. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 8, pp., Registrované v: WOS
3. [1.1] LI, Xueming - SONG, Siyu - PEI, Yuxin - DONG, Hai - AASTRUP, Teodor - PEI, Zhichao. Oriented and reversible immobilization of His-tagged proteins on two- and three-dimensional surfaces for study of protein-protein interactions by a QCM biosensor. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 224, no., pp. 814-822., Registrované v: WOS

ADCA915 MISLOVIČOVÁ, Danica - PÄTOPRSTÝ, Vladimír - VIKARTOVSKÁ, Alica. Enzymatic oxidation and separation of various saccharides with immobilized glucose oxidase. In *Applied Biochemistry and Biotechnology*, 2010, vol. 162, p. 1669-1677. (2009: 1.420 - IF, Q3 - JCR, 0.644 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0273-2289. Dostupné na: <https://doi.org/10.1007/s12010-010-8948-6>

Ohlasy:

1. [1.1] SATO, Katsuhiko - TAKAHASHI, Mao - ITO, Megumi - ABE, Eiichi - ANZAI, Jun-Ichi. Glucose-induced decomposition of layer-by-layer films composed of phenylboronic acid-bearing poly(allylamine) and poly(vinyl alcohol) under physiological conditions. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 39, pp. 7796-7802., Registrované v: WOS
2. [1.1] ZUBKOV, Vitalijs - SCHUERGERS, Nils - LAMBERT, Benjamin - AHUNBAY, Esra - BOGHOSSIAN, Ardemis A. Mediatorless, Reversible Optical Nanosensor Enabled through Enzymatic Pocket Doping. In SMALL. ISSN 1613-6810, 2017, vol. 13, no. 42, pp., Registrované v: WOS
3. [1.2] BOEHM, Ryan - DONOVAN, John - SHETH, Disha - DURFOR, Andrew - ROBERTS, Jason - ISAYEVA, Irada. In Vitro Sugar Interference Testing With Amperometric Glucose Oxidase Sensors. In Journal of Diabetes Science and Technology, 2019-01-01, 13, 1, pp. 82-95., Registrované v: SCOPUS

ADCA916 MISLOVIČOVÁ, Danica - GEMEINER, Peter - SANDULA, Jozef - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica - DOČOLOMANSKÝ, Peter. Examination of bioaffinity immobilization by precipitation of mannan and mannan-containing enzymes with legume lectins. In *Biotechnology and Applied Biochemistry*, 2000, vol. 31, p. 153-159. (2000 - Current Contents). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA19990086>

Ohlasy:

1. [1.1] BAYRAKTAROGLU, Melis - ORHAN, Hande - EVLI, Sinem

- AKGOL, Sinan - UYGUN, Deniz Aktas - UYGUN, Murat. Lectin attached affinity cryogels for amyloglucosidase adsorption. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 5, pp. 302-317., Registrované v: WOS
2. [1.1] CHOUDHRY, Ayoub Rashid - MUSHTAQ, Muhammad - ADNAN, Ahmad - SYED, Quratulain. Response surface methodology-based optimization of glucose acylation bio-catalyzed by immobilized lipase. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2017, vol. 35, no. 4, pp. 238-248., Registrované v: WOS
3. [1.1] SANKARRAJ, Nisha - NALLATHAMBI, Gobi. Immobilization and characterization of cellulase on concanavalin A (Con A)-layered calcium alginate beads. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2015, vol. 33, no. 2, pp. 81-88., Registrované v: WOS
4. [1.1] XU, Weina - YONG, You - WANG, Zheyu - JIANG, Guoqiang - WU, Jianzhong - LIU, Zheng. Concanavalin A Coated Activated Carbon for High Performance Enzymatic Catalysis. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 1, pp. 90-96., Registrované v: WOS
5. [1.2] GABAL, M. A. - AL-ZAHRANI, N. H. - AL ANGARI, Y. M. - SAAED, A. Substitution effect on the structural, magnetic, and electrical properties of $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ nanocrystalline ferrites ($x = 0-1$) prepared via gelatin auto-combustion method. In IEEE Transactions on Magnetism. ISSN 00189464, 2018-01-01, 54, 1, pp., Registrované v: SCOPUS

ADCA917 MISLOVIČOVÁ, Danica - MICHÁLKOVÁ, E. - VIKARTOVSKÁ, Alica. Immobilized glucose oxidase on different supports for biotransformation removal of glucose from oligosaccharide mixture. In *Process Biochemistry*, 2007, vol. 42, p. 704-709. Dostupné na: <https://doi.org/10.1016/j.procbio.2006.11.001>

Ohlasy:

1. [1.1] HUANG, Jinsha - ZHUANG, Wei - WEI, Ce - MU, Liwen - ZHU, Jiahua - ZHU, Yudan - WU, Jinglan - CHEN, Yong - YING, Hanjie. Concanavalin A induced orientation immobilization of Nuclease P-1: The effect of lectin agglutination. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 64, no., pp. 160-169., Registrované v: WOS
2. [1.1] JI, Qingzhi - WANG, Bochu - TAN, Jun - ZHU, Liancai - LI, Liuying. Immobilized multienzymatic systems for catalysis of cascade reactions. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 9, pp. 1193-1203., Registrované v: WOS
3. [1.1] PEREIRA GONCALVES, Maria Carolina - KIECKBUSCH, Theo Guenter - PERNA, Rafael Firmani - FUJIMOTO, Jaqueline Tomie - MORALES, Sergio Andres Villalba - ROMANELLI, Joao Paulo. Trends on enzyme immobilization researches based on bibliometric analysis. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 76, no., pp. 95-110., Registrované v: WOS
4. [1.1] VARDAR, Gokay - ALTIKATOGLU, Melda - BASARAN, Yeliz - ISILDAK, Ibrahim. Synthesis of glucose oxidase-PEG aldehyde conjugates and improvement of enzymatic stability. In ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY. ISSN 2169-1401, 2018, vol. 46, no. 4, pp. 788-794., Registrované v: WOS

5. [1.1] WIDI, Restu Kartiko - CHRISNASARI, Ruth - BUDHYANTORO, Arief - CHRISTIE, Stephanie Devina. IMMOBILIZATION OF GLUCOSE OXIDASE ON ACID ACTIVATED-BENTONITE AND ITS PERFORMANCE EXAMINATION. In UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE. ISSN 1454-2331, 2020, vol. 82, no. 3, pp. 113-124., Registrované v: WOS
6. [1.1] WU, Tsung-Ta - KO, Ching-Chung - CHANG, Shu-Wei - LIN, Sung-Chyr - SHAW, Jei-Fu. Selective oxidation of glucose for facilitated trehalose purification. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 6, pp. 928-934., Registrované v: WOS
7. [1.1] ZHANG, Jie - PENG, Chunrong - TAN, Xuemei - HAGEDOORN, Peter-Leon - GU, Changhong - XU, Hui - ZHOU, Xing. Effect of aliphatic diamine spacer length on enzymatic performance of myrosinase immobilized on chitosan microsphere and its application for sulforaphene production. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 299, no., pp. 79-85., Registrované v: WOS
8. [1.1] ZHAO, Bin - ZHOU, Liya - MA, Li - HE, Ying - GAO, Jing - LI, Dan - JIANG, Yanjun. Co-immobilization of glucose oxidase and catalase in silica inverse opals for glucose removal from commercial isomaltooligosaccharide. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2034-2043., Registrované v: WOS
9. [1.2] PEČAR, D. - VASIĆ-RAČKI, D. - VRSALLOVIĆ PRESEČKI, A. Immobilization of glucose oxidase on Eupergit C: Impact of aeration, kinetic and operational stability studies of free and immobilized enzyme. In Chemical and Biochemical Engineering Quarterly. ISSN 03529568, 2018-01-01, 32, 4, pp. 511-522., Registrované v: SCOPUS

ADCA918 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - ŠVITEL, J. - GEMEINER, Peter. Influence of mannan epitopes in glycoproteins - Concanavalin A interaction. Comparison of natural and synthetic glycosylated proteins. In *International Journal of Biological Macromolecules*, 2002, vol. 30, p. 251-258. ISSN 0141-8130.
Dostupné na: [https://doi.org/10.1016/S0141-8130\(02\)00035-1](https://doi.org/10.1016/S0141-8130(02)00035-1)

Ohlasy:

1. [1.1] JIN, Hong-Ying - LI, Da-Wei - ZHANG, Na - GU, Zhen - LONG, Yi-Tao. Analyzing Carbohydrate-Protein Interaction Based on Single Plasmonic Nanoparticle by Conventional Dark Field Microscopy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 22, pp. 12249-12253., Registrované v: WOS

ADCA919 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - GEMEINER, Peter. Modulation of biorecognition of glucoamylases with Concanavalin A by glycosylation via recombinant expression. In *International Journal of Biological Macromolecules*, 2006, vol. 39, p. 286-290. (2005: 1.684 - IF, Q3 - JCR, 0.593 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0141-8130.

Ohlasy:

1. [1.1] BAYRAKTAROGLU, M. - ORHAN, H. - EVLI, S. - AKGOL, S. - UYGUN, D.A. - UYGUN, M. Lectin attached affinity cryogels for

amyloglucosidase adsorption. In JOURNAL OF CARBOHYDRATE CHEMISTRY. 2018, vol. 37, no. 5, p. 302-317., Registrované v: WOS

ADCA920 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - ŠVITEL, J. - ŠOLTÉS, Ladislav - GEMEINER, Peter - DANIELSSON, B. - MENDICHI, Raniero. Neoglycoconjugates of mannan with bovine serum albumin and their interaction with lectin concanavalin A. In *Bioconjugate chemistry*. - Washington : American Chemical Society, 2002, vol. 13, p. 136-142. (2001: 3.044 - IF). ISSN 1043-1802. Dostupné na: <https://doi.org/10.1021/bc015517u>

Ohlasy:

1. [1.1] BUYUKTIRYAKI, S. - YILMAZ, F. - SAY, R. - ERSOZ, A. Proteinous Polymeric Shell Decorated Nanocrystals for the Recognition of Immunoglobulin M. In JOURNAL OF FLUORESCENCE. ISSN 1053-0509, 2019, vol. 29, no. 3, p. 609-617., Registrované v: WOS
2. [1.1] LI, T.S. - ZHANG, H.M. - GUO, Y. - ZHU, T. - YU, P. - MENG, X. Efficient chemoenzymatic synthesis of fluorinated sialyl Thomsen-Friedenreich antigens and investigation of their characteristics. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, DEC 15 2020, vol. 208., Registrované v: WOS
3. [1.1] QIN, J.F. - HAO, H.Y. - YAO, C.Z. - JIN, T.T. - YANG, H.Y. Investigating the Effects of Two Different Carbon Materials on the Sensitivity of an Electrochemical Impedimetric Lectin-Based Biosensor. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 1, p. 639-650., Registrované v: WOS
4. [1.1] SORIA, I. - ALVAREZ, J. - MANZANO, A.I. - LOPEZ-RELANO, J. - CASES, B. - MAS-FONTOA, A. - JAVIER CANADA, F. - FERNANDEZ-CALDAS, E. - CASANOVAS, M. - JIMENEZ-BARBERO, J. - PALOMARES, O. - VINALS-FLOREZ, L.M. - SUBIZA, J.L. Mite allergoids coupled to nonoxidized mannan from *Saccharomyces cerevisiae* efficiently target canine dendritic cells for novel allergy immunotherapy in veterinary medicine. In VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY. ISSN 0165-2427, 2017, vol. 190, p. 65-72., Registrované v: WOS
5. [1.1] WU, Y. - YAN, C. - HE, J. - XIONG, W. - WU, S. - LIU, S. - CAI, Z. Reversible Mannosylation as a Covalent Binding Adjuvant Enhances Immune Responses for Porcine Circovirus Type 2 Vaccine. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, p. 17341-17347., Registrované v: WOS

ADCA921 MISLOVIČOVÁ, Danica - TURJAN, Jozef - VIKARTOVSKÁ, Alica - PATOPRSTÝ, J. Removal of D-glucose from a mixture with D-mannose using immobilized glucose oxidase. Alica Vikartovská, J. Patoprstý. In *Journal of Molecular Catalysis B: Enzymatic*, 2009, vol.60, pp.45-49. Dostupné na: <https://doi.org/10.1016/j.molcatb.2009.03.009>

Ohlasy:

1. [1.1] ALVES, Ana Cecilia - VASCONCELOS, Mayron Alves - SANTIAGO, Mayara Queiroz - PINTO-JUNIOR, Vanir Reis - SILVA OSTERNE, Vinicius Jose - LOSSIO, Claudia Figueiredo - SOUZA FERREIRA BRINGEL, Pedro Henrique - CASTRO, Rondinelle Ribeiro - NAGANO, Celso Shiniti - DELATORRE, Plinio - GOMES SOUZA, Luiz Augusto - NASCIMENTO, Kyria Santiago - SAMPAIO ASSREUY, Ana Maria -

CAVADA, Benildo Sousa. A novel vasorelaxant lectin purified from seeds of *Clathrotropis nitida*: partial characterization and immobilization in chitosan beads. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2015, vol. 588, no., pp. 33-40., Registrované v: WOS

2. [1.1] WU, Hongli - HUANG, Ting - CAO, Fei - ZOU, Qiaogen - WEI, Ping - OUYANG, Pingkai. Co-production of HMF and gluconic acid from sucrose by chemo-enzymatic method. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2017, vol. 327, no., pp. 228-234., Registrované v: WOS

3. [1.1] WU, Tsung-Ta - KO, Ching-Chung - CHANG, Shu-Wei - LIN, Sung-Chyr - SHAW, Jei-Fu. Selective oxidation of glucose for facilitated trehalose purification. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 6, pp. 928-934., Registrované v: WOS

4. [1.2] BOEHM, Ryan - DONOVAN, John - SHETH, Disha - DURFOR, Andrew - ROBERTS, Jason - ISAYEVA, Irada. In Vitro Sugar Interference Testing With Amperometric Glucose Oxidase Sensors. In Journal of Diabetes Science and Technology, 2019-01-01, 13, 1, pp. 82-95., Registrované v: SCOPUS

ADCA922 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BENDZALOVA, K. - ŠOLTÉS, Ladislav - MACHOVÁ, Eva. Sonication of chitin-glucan, preparation of water-soluble fractions and characterization by HPLC. In *Ultrasonics Sonochemistry*, 2000, vol. 7, no. 2, p. 63-68. (1999: 1.732 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(99\)00030-9](https://doi.org/10.1016/S1350-4177(99)00030-9)

Ohlasy:

1. [1.1] ABDEL-MOHSEN, A. M. - JANCAR, J. - MASSOUD, D. - FOHLEROVA, Z. - ELHADIDY, H. - SPOTZ, Z. - HEBEISH, A. Novel chitin/chitosan-glucan wound dressing: Isolation, characterization, antibacterial activity and wound healing properties. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2016, vol. 510, no. 1, pp. 86-99., Registrované v: WOS

2. [1.1] AMIRKHANI, H. - YUNUS, R. - RASHID, U. - SALLEH, S.F. - RADHIAH, A.B.D. - SYAM, S. Low-Temperature Dilute Acid Hydrolysis of Oil Palm Frond. In CHEMICAL ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2015, vol. 202, no. 9, pp. 1235-1244., Registrované v: WOS

3. [1.1] ARAUJO, D. - FERREIRA, I.C. - TORRES, C.A.V. - NEVES, L. - FREITAS, F. Chitinous polymers: extraction from fungal sources, characterization and processing towards value-added applications. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2020, vol. 95, no. 5, p. 1277-1289., Registrované v: WOS

4. [1.1] CAI, C.Y. - WANG, Y.N. - YU, W. - WANG, C.Y. - LI, F.F. - TAN, Z.J. Temperature-responsive deep eutectic solvents as green and recyclable media for the efficient extraction of polysaccharides from *Ganoderma lucidum*. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, NOV 20 2020, vol. 274., Registrované v: WOS

5. [1.1] ESKANDARI, M. - SAMAVATI, V. Sono-assisted extraction of alcohol-insoluble extract from *Althaea rosea*: Purification and chemical analysis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 72, p. 347-355.,

Registrované v: WOS

6. [1.1] HOU, F. - WU, Y. - KAN, L. - LI, Q. - XIE, S. - OUYANG, J. Effects of Ultrasound on the Physicochemical Properties and Antioxidant Activities of Chestnut Polysaccharide. In INTERNATIONAL JOURNAL OF FOOD ENGINEERING. ISSN 2194-5764, 2016, vol. 12, no. 5, pp. 439-449.,

Registrované v: WOS

7. [1.1] CHEN, Y. - YAO, F. - MING, K. - WANG, D. - HU, Y. - LIU, J. Polysaccharides from Traditional Chinese Medicines: Extraction, Purification, Modification, and Biological Activity. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 12, art. no. 1705., Registrované v: WOS

8. [1.1] KANG, Q. - CHEN, S. - LI, S. - WANG, B. - LIU, X. - HAO, L. - LU, J. Comparison on characterization and antioxidant activity of polysaccharides from Ganoderma lucidum by ultrasound and conventional extraction. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 124, p. 1137-1144.,

Registrované v: WOS

9. [1.1] RODRIGUES, S. - FERNANDES, F.A.N. Extraction Processes Assisted by Ultrasound. In BermudezAguiar, D. edit. ULTRASOUND: ADVANCES IN FOOD PROCESSING AND PRESERVATION. ACADEMIC PRESS-ELSEVIER SCIENCE, London, 2017, p. 351-368. ISBN 978-0-12-804614-2; 978-0-12-804581-7, Registrované v: WOS

10. [1.1] WINKLER, A.J. - DOMINGUEZ-NUNEZ, J.A. - ARANAZ, I. - POZA-CARRION, C. - RAMONELL, K. - SOMERVILLE, S. - BERROCAL-LOBO, M. Short-chain chitin oligomers: Promoters of plant growth. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 2, art. no. 40., Registrované v: WOS

11. [1.2] ARAÚJO, D. - ALVES, V.D. - MARQUES, A.C. - FORTUNATO, E. - REIS, M.A.M. - FREITAS, F. Low temperature dissolution of yeast Chitin-Glucan complex and characterization of the regenerated polymer. In BIOENGINEERING-BASEL. E-ISSN:2306-5354, 2020, vol. 7, no. 1, art. no. 28., Registrované v: SCOPUS

ADCA923 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BUČKO, Marek - GEMEINER, Peter. Stability of penicillin G acylase modified with various polysaccharides. In *Enzyme and Microbial Technology*, 2006, vol. 39, p. 579-585. (2005: 1.705 - IF, Q2 - JCR, 0.922 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2005.11.012>

Ohlasy:

1. [1.1] ABDEL-NABY, Mohamed A. - FOUAD, Ahmed A. - EL-REFAI, H. A. Catalytic and thermodynamic properties of glycosylated Bacillus cereus cyclodextrin glycosyltransferase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 76, no., pp. 132-137., Registrované v: WOS

2. [1.1] ABDEL-NABY, Mohamed A. - IBRAHIM, M. H. A. - EL-REFAI, H. A. Catalytic, kinetic and thermodynamic properties of Bacillus pumilus FH9 keratinase conjugated with activated pectin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 85, no., pp. 238-245., Registrované v: WOS

3. [1.1] COBOS-PUC, Luis - RODRIGUEZ-HERRERA, Raul -

- CANO-CABRERA, Juan C. - AGUAYO-MORALES, Hilda - SILVA-BELMARES, Sonia Y. - GALLEGOS, Adriana C. F. - HERNANDEZ, Jose L. M. Classical and New Pharmaceutical Uses of Bacterial Penicillin G Acylase. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2020, vol. 21, no. 4, pp. 287-297. Dostupné na: <https://doi.org/10.2174/138920102066619111151642>., Registrované v: WOS
4. [1.1] KAJIWARA, Shota - KOMATSU, Kyohei - YAMADA, Ryosuke - MATSUMOTO, Takuya - YASUDA, Masahiro - OGINO, Hiroyasu. Modification of lipase from *Candida cylindracea* with dextran using the borane-pyridine complex to improve organic solvent stability. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 296, no., pp. 1-6., Registrované v: WOS
5. [1.1] KAJIWARA, Shota - KOMATSU, Kyohei - YAMADA, Ryosuke - MATSUMOTO, Takuya - YASUDA, Masahiro - OGINO, Hiroyasu. Improvement of the organic solvent stability of a commercial lipase by chemical modification with dextran. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2019, vol. 142, no., pp. 1-6., Registrované v: WOS
6. [1.1] MACHADO, Yoan - DUINKERKEN, Sanne - HOEPFLINGER, Veronika - MAYR, Melissa - KOROTCHENKO, Evgeniia - KURTAJ, Almedina - PABLOS, Isabel - STEINER, Markus - STOECKLINGER, Angelika - LUBBERS, Joyce - SCHMID, Maximillian - RITTER, Uwe - SCHEIBLHOFFER, Sandra - ABLINGER, Michael - WALLY, Verena - HOCHMANN, Sarah - RANINGER, Anna M. - STRUNK, Dirk - VAN KOOYK, Yvette - THALHAMER, Josef - WEISS, Richard. Synergistic effects of dendritic cell targeting and laser-microporation on enhancing epicutaneous skin vaccination efficacy. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 266, no., pp. 87-99., Registrované v: WOS
7. [1.1] VARDAR, Gokay - ALTIKATOGLU, Melda - BASARAN, Yeliz - ISILDAK, Ibrahim. Synthesis of glucose oxidase-PEG aldehyde conjugates and improvement of enzymatic stability. In ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY. ISSN 2169-1401, 2018, vol. 46, no. 4, pp. 788-794., Registrované v: WOS
8. [1.1] WEHAIDY, Hala Refaat - ABDEL-NABY, Mohamed Ahmed - SHOUSH, Wafaa Ghoneim - ELMALLAH, Mohammed I. Y. - SHAWKY, Michael Mounir. Improving the catalytic, kinetic and thermodynamic properties of *Bacillus subtilis* KU710517 milk clotting enzyme via conjugation with polyethylene glycol. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 296-301., Registrované v: WOS
9. [1.1] ZOU, Shu-Ping - XUAN, Xiu-Ling - WANG, Zhi-Jian - ZHENG, Yu-Guo. Conjugation of *Agrobacterium radiobacter* epoxide hydrolase with ficoll: Catalytic, kinetic and thermodynamic analysis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 1098-1105., Registrované v: WOS
10. [1.2] LIU, Donglei - CHEN, Zhenbin - LONG, Jiapeng - ZHAO, Yingyu - DU, Xueyan. Immobilization of Penicillin Acylase on Macroporous Adsorption Resin CLX1180 Carrier. In Advances in Polymer Technology. ISSN 07306679, 2018-04-01, 37, 3, pp. 753-760., Registrované v: SCOPUS

ADCA924 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - GEMEINER, Peter. Study of interaction of mannan-BSA neoglycoconjugates with Concanavalin A. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2001, vol. 29, p. 335-345. ISSN 1073-1199.

Ohlasy:

1. [1.1] LOBAZ, Volodymyr - HLADIK, Martin - STEINHART, Milos - PARUZEL, Aleksandra - CERNOCH, Peter - PANEK, Jiri - VETRIK, Miroslav - JIRAK, Daniel - JIRATOVA, Marketa - POP-GEORGIEVSKI, Ognen - SLOUF, Miroslav - GARCIA-ARGOTE, Sebastien - PIETERS, Gregory - DORIS, Eric - HRUBY, Martin. Tungsten (VI) based "molecular puzzle" photoluminescent nanoparticles easily covered with biocompatible natural polysaccharides via direct chelation. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 512, no., pp. 308-317., Registrované v: WOS

ADCA925 MIŠALOVÁ, A. - ŽURKOVIČ, J. - MAMOŇOVÁ, M. - PRIWITZER, T. - LENGYELOVÁ, A. - HLADKÁ, D. - LUX, Alexander. Changes in leaf organisation, photosynthetic performance and wood formation during ex vitro acclimatisation of black mulberry (*Morus nigra* L.). In *Plant biology*, 2009, vol. 11, p. 686-693. (2008: 1.944 - IF, Q2 - JCR, 1.012 - SJR, Q1 - SJR). ISSN 1435-8603. Dostupné na: <https://doi.org/10.1111/j.1438-8677.2008.00166.x>

Ohlasy:

1. [1.1] ILCZUK, Agnieszka - JACYGRAD, Ewelina. In vitro propagation and assessment of genetic stability of acclimated plantlets of *Cornus alba* L. using RAPD and ISSR markers. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2016, vol. 52, no. 4, pp. 379-390., Registrované v: WOS

ADCA926 MLČOCHOVÁ, D. - BYSTRICKÝ, Slavomír - STEINER, Bohumil - MACHOVÁ, Eva - KOŮŠ, Miroslav - VELEBNÝ, V. - KRČMÁŘ, M. Synthesis and characterization of new biodegradable hyaluronan alkyl derivatives. In *Biopolymers*, 2006, vol. 82, p. 74-79. (2005: 2.545 - IF, Q2 - JCR, 1.278 - SJR, Q1 - SJR). ISSN 0006-3525. Dostupné na: <https://doi.org/10.1002/bip.20461>

Ohlasy:

1. [1.1] ABU ELELLA, Mahmoud H. - MOHAMED, Riham R. - SABAA, Magdy W. Synthesis of novel grafted hyaluronic acid with antitumor activity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 189, no., pp. 107-114., Registrované v: WOS

2. [1.1] CALCE, Enrica - RINGHIERI, Paola - MERCURIO, Flavia Anna - LEONE, Marilisa - BUGATTI, Valeria - SAVIANO, Michele - VITTORIA, Vittoria - DE LUCA, Stefania. A biocompatible process to prepare hyaluronan-based material able to self-assemble into stable nano-particles. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 37, pp. 29573-29576., Registrované v: WOS

3. [1.1] FALLACARA, Arianna - BALDINI, Erika - MANFREDINI, Stefano - VERTUANI, Silvia. Hyaluronic Acid in the Third Millennium. In *POLYMERS*, 2018, vol. 10, no. 7, pp., Registrované v: WOS

4. [1.1] FERGUSON, Elaine L. - VARACHE, Mathieu - STOKNIENE, Joana - THOMAS, David W. Polysaccharides for protein and peptide conjugation. In *POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION*

- AND BEYOND, 2020, vol., no., pp. 421-453., Registrované v: WOS
5. [1.1] GRUNDELOVA, Lenka - GREGOROVA, Adriana - MRACEK, Ales - VICHA, Robert - SMOLKA, Petr - MINARIK, Antonin. Viscoelastic and mechanical properties of hyaluronan films and hydrogels modified by carbodiimide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 119, no., pp. 142-148., Registrované v: WOS
6. [1.1] HAJOVSKA, Pavla - CHYTIL, Martin - KALINA, Michal. Rheological study of albumin and hyaluronan-albumin hydrogels: Effect of concentration, ionic strength, pH and molecular weight. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 738-745. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.063>., Registrované v: WOS
7. [1.1] CHYTIL, Martin - TROJAN, Martin - KOVALENKO, Alexander. Study on mutual interactions and electronic structures of hyaluronan with Lysine, 6-Aminocaproic acid and Arginine. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 8-15., Registrované v: WOS
8. [1.1] KOEWITSCH, Alexander - ZHOU, Guoying - GROTH, Thomas. Medical application of glycosaminoglycans: a review. In JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE. ISSN 1932-6254, 2018, vol. 12, no. 1, pp. E23-E41., Registrované v: WOS
9. [1.1] LUO, Li-Jyuan - LAI, Jui-Yang. The role of alkyl chain length of monothiol-terminated alkyl carboxylic acid in the synthesis, characterization, and application of gelatin-g-poly (N-isopropylacrylamide) carriers for antiglaucoma drug delivery. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2017, vol. 49, no., pp. 344-357., Registrované v: WOS
10. [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHA, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS
11. [1.2] LUNDBLAD, Roger L. Chemical Modification Of Biological Polymers. In Chemical Modification of Biological Polymers, 2016-04-19, pp. 1-406., Registrované v: SCOPUS

ADCA927 MLČOCHOVÁ, P. - HÁJKOVÁ, V. - STEINER, Bohumil - BYSTRICKÝ, Slavomír - KOŮŠ, Miroslav - MEDOVÁ, M. - VELEBNÝ, V. Preparation and characterization of biodegradable alkylether derivatives of hyaluronan. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 69, p. 344-352. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2006.10.015>

Ohlasy:

1. [1.1] CHYTIL, Martin - TROJAN, Martin - KOVALENKO, Alexander. Study on mutual interactions and electronic structures of hyaluronan with Lysine, 6-Aminocaproic acid and Arginine. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, no., pp. 8-15., Registrované v: WOS
2. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC,

B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1837-1843., Registrované v: WOS

3. [1.1] SNETKOV, Petr - MOROZKINA, Svetlana - USPENSKAYA, Mayya - OLEKHNOVICH, Roman. Hyaluronan-Based Nanofibers: Fabrication, Characterization and Application. In POLYMERS, 2019, vol. 11, no. 12, pp., Registrované v: WOS

ADCA928 MOKRÝ, Jozef - KOMPIŠ, I. - SPITELLER, G. Further minor alkaloids from Vinca minor L. In *Collection of Czechoslovak Chemical Communications*, 1967, vol. 32, p. 2523-2531. ISSN 0010-0765.

Ohlasy:

1. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. Treatment of Vinca minor Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS

2. [1.1] DE ALMEIDA, Vera Lucia - SILVA, Claudia Gontijo - SILVA, Andreia Fonseca - VALADARES CAMPANA, Priscilla Rodrigues - FOUBERT, Kenn - DIAS LOPES, Julio Cesar - PIETERS, Luc. Aspidosperma species: A review of their chemistry and biological activities. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2019, vol. 231, no., pp. 125-140., Registrované v: WOS

3. [1.1] CHONG, Kam-Weng - YEAP, Joanne Soon-Yee - LIM, Siew-Huah - WEBER, Jean-Frederic F. - LOW, Yun-Yee - KAM, Toh-Seok. Biosynthetic Enantiodivergence in the Eburnane Alkaloids from Kopsia. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 3014-3024., Registrované v: WOS

4. [1.1] LI, Guang - PIEMONTESE, Cyril - WANG, Qian - ZHU, Jieping. Stereoselective Total Synthesis of Eburnane-Type Alkaloids Enabled by Conformation-Directed Cyclization and Rearrangement. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2019, vol. 58, no. 9, pp. 2870-2874., Registrované v: WOS

5. [1.1] LI, Wenfei - CHEN, Zhitao - YU, Di - PENG, Xin - WEN, Guohua - WANG, Siqi - XUE, Fei - LIU, Xiao-Yu - QIN, Yong. Asymmetric Total Syntheses of the Akuammiline Alkaloids (-)-Strictamine and (-)-Rhazinoline. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2019, vol. 58, no. 18, pp. 6059-6063., Registrované v: WOS

6. [1.1] MAITY, Pradipta - ADHIKARI, Debasis - JANA, Amit Kumar. An overview on synthetic entries to tetrahydro-beta-carbolines. In TETRAHEDRON. ISSN 0040-4020, 2019, vol. 75, no. 8, pp. 965-1028., Registrované v: WOS

7. [1.1] PIEMONTESE, Cyril - WANG, Qian - ZHU, Jieping. Enantioselective Total Synthesis of (-)-Terengganensine A. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 22, pp. 6556-6560., Registrované v: WOS

8. [1.1] ZHANG, Jiajun - SHUKLA, Vyom - BOGER, Dale L. Inverse Electron Demand Diels-Alder Reactions of Heterocyclic Azadienes,

1-Aza-1,3-Butadienes, Cyclopropanone Ketals, and Related Systems. A Retrospective. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2019, vol. 84, no. 15, pp. 9397-9445., Registrované v: WOS

ADCA929 MOLNÁR, O. - MESSNER, R. - PRILLINGER, H. - STAHL, U. - SLÁVIKOVÁ, Elena. Genotypic identification of *Saccharomyces* species using random amplified polymorphic DNA analysis. In *Systematic and Applied Microbiology*, 1995, vol. 18, p. 136-145.

Ohlasy:

1. [1.1] DATTA, Suprama - TIMSON, David J. - ANNAPURE, Uday S. Antioxidant properties and global metabolite screening of the probiotic yeast *Saccharomyces cerevisiae* var. *boulardii*. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2017, vol. 97, no. 9, pp. 3039-3049., Registrované v: WOS
2. [1.1] ROESKE, Katarzyna - ZASUN, Aleksandra - CIESLIK, Justyna - WROBLEWSKAZ, Marta - JAGIELSKI, Tomasz. SACCHAROMYCES CEREVISIAE VAR. BOULARDII PROBIOTIC YEASTS AS ETIOLOGICAL AGENTS OF OPORTUNISTIC INFECTIONS IN HUMANS. In ADVANCEMENTS OF MICROBIOLOGY. ISSN 0079-4252, 2020, vol. 59, no. 3, pp. 291-303. Dostupné na: <https://doi.org/10.21307/PM-2020.59.3.21.>, Registrované v: WOS

ADCA930 MOLNÁROVÁ, Jana - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Extracellular enzymatic activities and physiological profiles of yeasts colonizing fruit trees. In *Journal of Basic Microbiology*, 2014, vol. 54, p. S74-S84. (2013: 1.822 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.201300072>

Ohlasy:

1. [1.1] BARRILLI, Evelyn T. - TADIOTO, Viviani - MILANI, Leticia M. - DEOTI, Junior R. - FOGOLARI, Odinei - MULLER, Caroline - BARROS, Katharina O. - ROSA, Carlos A. - DOS SANTOS, Angela A. - STAMBUK, Boris U. - TREICHEL, Helen - ALVES JR, Sergio L. Biochemical analysis of cellobiose catabolism in *Candida pseudointermedia* strains isolated from rotten wood. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, 2020, vol. 202, no. 7, pp. 1729-1739. Dostupné na: <https://doi.org/10.1007/s00203-020-01884-1.>, Registrované v: WOS
2. [1.1] BENNAMOUN, Leila - HILIGSMANN, Serge - DAKHMOUCHE, Scheherazad - AIT-KAKI, Amel - LABBANI, Fatima-Zohra KENZA - NOUADRI, Tahar - MERAIHI, Zahia - TURCHETTI, Benedetta - BUZZINI, Pietro - THONART, Philippe. Production and Properties of a Thermostable, pH-Stable Exo-Polygalacturonase Using *Aureobasidium pullulans* Isolated from Saharan Soil of Algeria Grown on Tomato Pomace. In FOODS. ISSN 2304-8158, 2016, vol. 5, no. 4, pp., Registrované v: WOS
3. [1.1] CLAUS, Harald - MOJSOV, Kiro. Enzymes for Wine Fermentation: Current and Perspective Applications. In FERMENTATION-BASEL, 2018, vol. 4, no. 3, pp., Registrované v: WOS
4. [1.1] CORBETT, Kereng M. - DE SMIDT, Olga. Culture-dependent diversity profiling of spoilage yeasts species by PCR-RFLP comparative analysis. In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN

- 1082-0132, 2019, vol. 25, no. 8, pp. 671-679., Registrované v: WOS
5. [1.1] DEUTSCHER, Ania T. - REYNOLDS, Olivia L. - CHAPMAN, Toni A. Yeast: An Overlooked Component of *Bactrocera tryoni* (Diptera: Tephritidae) Larval Gut Microbiota. In JOURNAL OF ECONOMIC ENTOMOLOGY. ISSN 0022-0493, 2017, vol. 110, no. 1, pp. 298-300., Registrované v: WOS
6. [1.1] DI FRANCESCO, Alessandra - DI FOGGIA, Michele - ZAJC, Janja - GUNDE-CIMERMAN, Nina - BARALDI, Elena. Study of the efficacy of *Aureobasidium* strains belonging to three different species: *A. pullulans*, *A. subglaciale* and *A. melanogenum* against *Botrytis cinerea* of tomato. In ANNALS OF APPLIED BIOLOGY. ISSN 0003-4746, 2020, vol. 177, no. 2, pp. 266-275. Dostupné na: <https://doi.org/10.1111/aab.12627>., Registrované v: WOS
7. [1.1] EL-AMRANI, Mustapha - EBADA, Sherif S. - GAD, Haidy A. - PROKSCH, Peter. Pestalotiopamide E and pestalotiopin B from an endophytic fungus *Aureobasidium pullulans* isolated from *Aloe vera* leaves. In PHYTOCHEMISTRY LETTERS. ISSN 1874-3900, 2016, vol. 18, no., pp. 95-98., Registrované v: WOS
8. [1.1] FARIAN, Ewelina - CHOLEWA, Grazyna - CHOLEWA, Alicja - MATCZUK, Magdalena - ANGELINA, Wojcik-Fatla. The effect of fruit on the extracellular enzyme profiles of fungi. In ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE. ISSN 1232-1966, 2020, vol. 27, no. 4, pp. 562-567. Dostupné na: <https://doi.org/10.26444/aaem/127557>., Registrované v: WOS
9. [1.1] GOSTINCAR, Cene - TURK, Martina - ZAJC, Janja - GUNDE-CIMERMAN, Nina. Fifty *Aureobasidium pullulans* genomes reveal a recombining polyextremotolerant generalist. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2019, vol. 21, no. 10, pp. 3638-3652., Registrované v: WOS
10. [1.1] HERNANDEZ, A. - PEREZ-NEVADO, F. - RUIZ-MOYANO, S. - SERRADILLA, M. J. - VILLALOBOS, M. C. - MARTIN, A. - CORDOBA, M. G. Spoilage yeasts: What are the sources of contamination of foods and beverages? In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2018, vol. 286, no., pp. 98-110., Registrované v: WOS
11. [1.1] JAIBOON, Kanokjun - LERTWATTANASAKUL, Noppon - LIMTONG, Pitayakon - LIMTONG, Savitree. Yeasts from peat in a tropical peat swamp forest in Thailand and their ability to produce ethanol, indole-3-acetic acid and extracellular enzymes. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2016, vol. 15, no. 7, pp. 755-770., Registrované v: WOS
12. [1.1] MAJUMDER, Rajib - SUTCLIFFE, Brodie - TAYLOR, Phillip W. - CHAPMAN, Toni A. Fruit host-dependent fungal communities in the microbiome of wild Queensland fruit fly larvae. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-73649-1>., Registrované v: WOS
13. [1.1] MOLLER, Leandra - LERM, Barbra - BOTH, Alfred. Interactions of arboreal yeast endophytes: an unexplored discipline. In FUNGAL ECOLOGY. ISSN 1754-5048, 2016, vol. 22, no., pp. 73-82., Registrované v: WOS
14. [1.1] MUNIR, M. - ABDULLAH, R. - HAQ, I. U. - KALEEM, A. - IQTEDAR, M. ISOLATION AND IDENTIFICATION OF MULTI STRESS TOLERANT POLYGALACTURONASE PRODUCING FUNGI FROM

- VARIOUS FRUITS. In JOURNAL OF ANIMAL AND PLANT SCIENCES. ISSN 1018-7081, 2019, vol. 29, no. 3, pp. 825-832., Registrované v: WOS
15. [1.1] PIPER, Alexander M. - FARNIER, Kevin - LINDER, Tomas - SPEIGHT, Robert - CUNNINGHAM, John Paul. Two Gut-Associated Yeasts in a Tephritid Fruit Fly have Contrasting Effects on Adult Attraction and Larval Survival. In JOURNAL OF CHEMICAL ECOLOGY. ISSN 0098-0331, 2017, vol. 43, no. 9, pp. 891-901., Registrované v: WOS
16. [1.1] PRETSCHER, Julia - FISCHKAL, Tilman - BRANSCHIEDT, Sina - JAEGER, Lucas - KAHL, Susann - SCHLANDER, Martina - THINES, Eckhard - CLAUS, Harald. Yeasts from Different Habitats and Their Potential as Biocontrol Agents. In FERMENTATION-BASEL, 2018, vol. 4, no. 2, pp., Registrované v: WOS
17. [1.1] ROTOLO, Caterina - ANGELINI, Rita M. De Miccolis - DONGIOVANNI, Crescenza - POLLASTRO, Stefania - FUMAROLA, Giulio - DI CAROLO, Michele - PERRELLI, Donato - NATALE, Patrizia - FARETRA, Francesco. Use of biocontrol agents and botanicals in integrated management of Botrytis cinerea in table grape vineyards. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2018, vol. 74, no. 3, pp. 715-725., Registrované v: WOS
18. [1.1] SCHLADER, M.; DISTLER, Ute; TENZER, S.; THINES, E.; CLAUS, Harald. Purification and Properties of Yeast Proteases Secreted by Wickerhamomyces anomalus 227 and Metschnikovia pulcherrima 446 during Growth in a White Grape Juice. IN Fermentation-Basel, 2017, vol. 3, issue 1, article no. 2, Registrované v: WOS
19. [1.1] TURK, Martina - GOSTINTAR, Cene. Glycerol metabolism genes in Aureobasidium pullulans and Aureobasidium subglaciale. In FUNGAL BIOLOGY. ISSN 1878-6146, 2018, vol. 122, no. 1, pp. 63-73., Registrované v: WOS
20. [1.1] WATKINS, Rhys A. - KING, Jason S. - JOHNSTON, Simon A. Nutritional Requirements and Their Importance for Virulence of Pathogenic Cryptococcus Species. In MICROORGANISMS. ISSN 2076-2607, 2017, vol. 5, no. 4, pp., Registrované v: WOS
21. [1.1] YI, Tuyong - LEI, Ling - HE, Ling - YI, Jianglan - LI, Lingguo - DAI, Liangying - HONG, Yanyun. Symbiotic Fungus Affected the Asian Citrus Psyllid (ACP) Resistance to Imidacloprid and Thiamethoxam. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.522164>., Registrované v: WOS
22. [1.2] ABU-MEJDAD, Najwa Mohammed Jameel Ali - AL-BADRAN, Adnan I. - AL-SADOON, Abdullah H. New record of ascomycetous yeasts strains from soil in Basrah, Iraq. In Drug Invention Today, 2019-11-01, 11, 11, pp. 3073-3080., Registrované v: SCOPUS
23. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
24. [1.2] CLAUS, Harald. Microbial enzymes: Relevance for winemaking. In Biology of Microorganisms on Grapes, in Must and in Wine, 2017-01-01, pp. 315-338., Registrované v: SCOPUS

FAD-dependent glucose dehydrogenase immobilized on nanocomposite electrode.
In *Enzyme and Microbial Technology*, 2012, vol. 50, p. 227-232. ISSN 0141 0229.
Dostupné na: <https://doi.org/10.1016/j.enzmictec.2012.01.004>

Ohlasy:

1. [1.1] BHAKTA, Samir A. - EVANS, Elizabeth - BENAVIDEZ, Tomas E. - GARCIA, Carlos D. Protein adsorption onto nanomaterials for the development of biosensors and analytical devices: A review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2015, vol. 872, no., pp. 7-25., Registrované v: WOS
2. [1.1] DILGIN, Didem Giray - GOKCEL, H. Ismet. Photoelectrochemical glucose biosensor in flow injection analysis system based on glucose dehydrogenase immobilized on poly-hematoxylin modified glassy carbon electrode. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2015, vol. 7, no. 3, pp. 990-999., Registrované v: WOS
3. [1.1] GURPILHARES, Daniela B. - PESSOA, Adalberto - ROBERTO, Ines C. Process Integration for the Disruption of *Candida guilliermondii* Cultivated in Rice Straw Hydrolysate and Recovery of Glucose-6-Phosphate Dehydrogenase by Aqueous Two-Phase Systems. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 176, no. 6, pp. 1596-1612., Registrované v: WOS
4. [1.1] HE, Chaohui - WANG, Jiakai - GAO, Nan - HE, Hanping - ZOU, Kailun - MA, Mingyu - ZHOU, Yang - CAI, Zhiwei - CHANG, Gang - HE, Yunbin. A gold electrode modified with a gold-graphene oxide nanocomposite for non-enzymatic sensing of glucose at near-neutral pH values. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2019, vol. 186, no. 11, pp., Registrované v: WOS
5. [1.1] HIRATSUKA, Atsunori - IWASA, Hisanori - UZAWA, Hirotaka - SUZUKI, Atsuya - MUGURUMA, Hitoshi. Direct-Electron-Transfer Bio-Nanoink with Single-Walled Carbon Nanotube and *Aspergillus terreus* var. *aureus* Flavin Adenine Dinucleotide Glucose Dehydrogenase. In *ACS OMEGA*. ISSN 2470-1343, 2019, vol. 4, no. 3, pp. 5776-5783., Registrované v: WOS
6. [1.1] ISHIDA, Kazuya - ORIHARA, Kouhei - MUGURUMA, Hitoshi - IWASA, Hisanori - HIRATSUKA, Atsunori - TSUJI, Katsumi - KISHIMOTO, Takahide. Comparison of Direct and Mediated Electron Transfer in Electrodes with Novel Fungal Flavin Adenine Dinucleotide Glucose Dehydrogenase. In *ANALYTICAL SCIENCES*. ISSN 0910-6340, 2018, vol. 34, no. 7, pp. 783-787., Registrované v: WOS
7. [1.1] IWASA, Hisanori - HIRATSUKA, Atsunori - YOKOYAMA, Kenji - UZAWA, Hirotaka - ORIHARA, Kouhei - MUGURUMA, Hitoshi. Thermophilic *Talaromyces emersonii* Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase Bioanode for Biosensor and Biofuel Cell Applications. In *ACS OMEGA*. ISSN 2470-1343, 2017, vol. 2, no. 4, pp. 1660-1665., Registrované v: WOS
8. [1.1] IWASA, Hisanori - OZAWA, Kazumichi - SASAKI, Noriko - KINOSHITA, Nao - YOKOYAMA, Kenji - HIRATSUKA, Atsunori. Fungal FAD-dependent glucose dehydrogenases concerning high activity, affinity, and thermostability for maltose-insensitive blood glucose sensor. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 140, no., pp. 115-122., Registrované v: WOS
9. [1.1] KHAN, Mashooq - PARK, Soo-Young. Liquid crystal-based

glucose biosensor functionalized with mixed PAA and QP4VP brushes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2015, vol. 68, no., pp. 404-412., Registrované v: WOS

10. [1.1] LEE, Yi Jae - PARK, Sung Jin - YUN, Kwang-Seok - KANG, Ji Yoon - LEE, Soo Hyun. Enzymeless glucose sensor integrated with chronically implantable nerve cuff electrode for in-situ inflammation monitoring. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 222, no., pp. 425-432., Registrované v: WOS

11. [1.1] LIN, Yuan-Chih - LIAO, Stephen - HUANG, Thomas - WANG, Gou-Jen. A Biosensor Electrode with Self-Assembled Monolayer of Gold Nanoparticle on a Micro Hemisphere Array. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 166, no. 6, pp. B349-B354., Registrované v: WOS

12. [1.1] MARTINKOVA, Pavla - POHANKA, Miroslav. BIOSENSORS FOR BLOOD GLUCOSE AND DIABETES DIAGNOSIS: EVOLUTION, CONSTRUCTION, AND CURRENT STATUS. In ANALYTICAL LETTERS. ISSN 0003-2719, 2015, vol. 48, no. 16, pp. 2509-2532., Registrované v: WOS

13. [1.1] MASAKARI, Yosuke - HARA, Chiaki - ARAKI, Yasuko - GOMI, Keiko - ITO, Kotaro. Improvement in the thermal stability of Mucor prainii-derived FAD-dependent glucose dehydrogenase via protein chimerization. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109387>., Registrované v: WOS

14. [1.1] MASON, Marco - LONGO, Edoardo - SCAMPICCHIO, Matteo. Monitoring of Glucose in Beer Brewing by a Carbon Nanotubes Based Nylon Nanofibrous Biosensor. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2016, vol., no., pp., Registrované v: WOS

15. [1.1] MUGURUMA, Hitoshi - IWASA, Hisanori - HIDAKA, Hiroki - HIRATSUKA, Atsunori - UZAWA, Hirotaka. Mediatorless Direct Electron Transfer between Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase and Single-Walled Carbon Nanotubes. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 1, pp. 725-734., Registrované v: WOS

16. [1.1] NAVAEE, Aso - SALIMI, Abdollah. FAD-based glucose dehydrogenase immobilized on thionine/AuNPs frameworks grafted on amino-CNTs: Development of high power glucose biofuel cell and biosensor. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 815, no., pp. 105-113., Registrované v: WOS

17. [1.1] RADOMSKA, Marta - RUTKOWSKA, Iwona A. - KOWALEWSKA, Barbara - COX, James A. - KULESZA, Pawel J. Development and kinetic characterization of hierarchical bioelectrocatalytic system utilizing a redox mediator, functionalized carbon nanotubes and an enzyme for glucose oxidation. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 832, no., pp. 417-425., Registrované v: WOS

18. [1.1] RIEDEL, Marc - PARAK, Wolfgang J. - RUFF, Adrian - SCHUHMANN, Wolfgang - LISDAT, Fred. Light as Trigger for Biocatalysis: Photonic Wiring of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase to Quantum Dot-Sensitized Inverse Opal TiO₂ Architectures via Redox Polymers. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 6, pp.

5212-5220., Registrované v: WOS

19. [1.1] RIEGEL, Anna-Lena - BORZENKOVA, Natalia - HAAS, Verena - SCHARFER, Philip - SCHABEL, Wilhelm. Activity determination of FAD-dependent glucose dehydrogenase immobilized in PEDOT: PSS-PVA composite films for biosensor applications. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2016, vol. 16, no. 6, pp. 577-585., Registrované v: WOS

20. [1.1] SHKOTOVA, Lyudmyla V. - PIECHNIAKOVA, Nataliia Y. - KUKLA, Oleksandr L. - DZYADEVYCH, Sergei V. Thin-film amperometric multibiosensor for simultaneous determination of lactate and glucose in wine. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 197, no., pp. 972-978., Registrované v: WOS

21. [1.1] SODE, Koji - LOEW, Noya - OHNISHI, Yosuke - TSURUTA, Hayato - MORI, Kazushige - KOJIMA, Katsuhiko - TSUGAWA, Wakako - LABELLE, Jeffrey T. - KLONOFF, David C. Novel fungal FAD glucose dehydrogenase derived from *Aspergillus niger* for glucose enzyme sensor strips. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 87, no., pp. 305-311., Registrované v: WOS

22. [1.1] SONG, Yonghai - SHEN, Yuan - GONG, Coucong - CHEN, Jingyi - XU, Mengli - WANG, Linyu - WANG, Li. A Novel Glucose Biosensor Based on Tb@Mesoporous Metal-Organic Frameworks/Carbon Nanotube Nanocomposites. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1457-1462., Registrované v: WOS

23. [1.1] ZUMPARO, Rosaceleste - LAMBERTINI, Laura - TORTOLINI, Cristina - BOLLELLA, Paolo - FAVERO, Gabriele - ANTIOCHIA, Riccarda - MAZZEI, Franco. A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2020, vol. 476, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.228615>., Registrované v: WOS

24. [1.2] FADHILAH, Raudhatul - DARUSMAN, Latifah Kosim - ISWANTINI, Dyah. Glucose biosensor using a glucose dehydrogenase flavin adenine dinucleotide electrochemically immobilized on natural zeolite nanoparticles. In International Journal of Applied Chemistry. ISSN 09731792, 2015-01-01, 11, 4, pp. 463-474., Registrované v: SCOPUS

25. [1.2] MONGE, Miguel - MORENO-ARRIBAS, M. Victoria. Applications of nanotechnology in wine production and quality and safety control. In Wine Safety, Consumer Preference, and Human Health, 2016-01-01, pp. 51-69., Registrované v: SCOPUS

26. [1.2] NAVAEE, Aso - SALIMI, Abdollah. Enzyme-based electrochemical biosensors. In Electrochemical Biosensors, 2019-01-01, pp. 167-211., Registrované v: SCOPUS

27. [1.2] VAIDYA, Aniruddha M. - ANNAPURE, Uday S. Enzymes in biosensors for food quality assessment. In Enzymes in Food Biotechnology: Production, Applications, and Future Prospects, 2018-01-01, pp. 659-674., Registrované v: SCOPUS

ADCA932 MONOŠÍK, Rastislav - STREDANSKÝ, Miroslav - TKÁČ, Ján - ŠTURDÍK, Ernest. Application of enzyme biosensors in Analysis of food and beverages. In

Food Analytical Methods, 2012, vol. 5, p. 40-53. (2011: 1.943 - IF, Q2 - JCR, 0.636 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1936-9751. Dostupné na: <https://doi.org/10.1007/s12161-011-9222-4>

Ohlasy:

1. [1.1] ALIZADEH, Taher - NAYERI, Sahar - HABIBI-YANGJEH, Aziz. Graphitic carbon nitride (g-C₃N₄/Fe₃O₄/BiOI)-carbon composite electrode as a highly sensitive and selective citric acid sensor: Three-component nanocomposite as a definitive factor for selectivity in catalysis. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2019, vol. 279, no., pp. 245-254., Registrované v: WOS
2. [1.1] AL-DOURI, Yarub - IBRAHEAM, A. S. Nucleic Acid Complementation Analysis on Biosensors. In *NANOBIOSSENSORS FOR BIOMOLECULAR TARGETING*, 2019, vol., no., pp. 95-115., Registrované v: WOS
3. [1.1] AN, Ning - ZHOU, Chun Hui - ZHUANG, Xiao Yu - TONG, Dong Shen - YU, Wei Hua. Immobilization of enzymes on clay minerals for biocatalysts and biosensors. In *APPLIED CLAY SCIENCE*. ISSN 0169-1317, 2015, vol. 114, no., pp. 283-296., Registrované v: WOS
4. [1.1] ARIVAZHAGAN, Mani - SHANKAR, Ayyavu - MADURAIVEERAN, Govindhan. Hollow sphere nickel sulfide nanostructures-based enzyme mimic electrochemical sensor platform for lactic acid in human urine. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04431-3>., Registrované v: WOS
5. [1.1] ARTIGUES, Margalida - ABELLA, Jordi - COLOMINAS, Sergi. Analytical Parameters of an Amperometric Glucose Biosensor for Fast Analysis in Food Samples. In *SENSORS*. ISSN 1424-8220, 2017, vol. 17, no. 11, pp., Registrované v: WOS
6. [1.1] BERGMAN, Jenny - MELLANDER, Lisa - WANG, Yuanmo - CANS, Ann-Sofie. Co-Detection of Dopamine and Glucose with High Temporal Resolution. In *CATALYSTS*. ISSN 2073-4344, 2018, vol. 8, no. 1, pp., Registrované v: WOS
7. [1.1] BERGMAN, Jenny - WANG, Yuanmo - WIGSTROM, Joakim - CANS, Ann-Sofie. Counting the number of enzymes immobilized onto a nanoparticle-coated electrode. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 6, pp. 1775-1783., Registrované v: WOS
8. [1.1] BURUAGA-RAMIRO, Carolina - VALENZUELA, Susana V. - VALLS, Cristina - RONCERO, M. Blanca - PASTOR, F. I. Javier - DIAZ, Pilar - MARTINEZ, Josefina. Bacterial cellulose matrices to develop enzymatically active paper. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3413-3426. Dostupné na: <https://doi.org/10.1007/s10570-020-03025-9>., Registrované v: WOS
9. [1.1] DE OLIVEIRA, Ana Elisa F. - PEREIRA, Arnaldo Cesar. Biosensor and Food Industry Reviewy. In *REVISTA VIRTUAL DE QUIMICA*. ISSN 1984-6835, 2016, vol. 8, no. 5, pp. 1311-1333., Registrované v: WOS
10. [1.1] DRIDI, Fatma - MARRAKCHI, Mouna - GARGOURI, Mohamed - SAULNIER, Joelle - JAFFREZIC-RENAULT, Nicole - LAGARDE, Florence. Comparison of carboxypeptidase Y and thermolysin for ochratoxin A electrochemical biosensing. In *ANALYTICAL METHODS*. ISSN 1759-9660,

- 2015, vol. 7, no. 20, pp. 8954-8960., Registrované v: WOS
11. [1.1] ECONOMOU, Anastasios - KARAPETIS, Stephanos K. - NIKOLELI, Georgia-Paraskevi - NIKOLELIS, Dimitrios P. - BRATAKOU, Spyridoula - VARZAKAS, Theodoros H. Enzyme-based Sensors. In ADVANCES IN FOOD DIAGNOSTICS, 2ND EDITION, 2017, vol., no., pp. 231-250., Registrované v: WOS
12. [1.1] FUKAZAWA, Kyoko - ISHIHARA, Kazuhiko. Enhanced stability of NADH/dehydrogenase mixture system by water-soluble phospholipid polymers. In BIOMATERIALS AND BIOMECHANICS IN BIOENGINEERING. ISSN 2465-9835, 2016, vol. 3, no. 1, pp. 37-46., Registrované v: WOS
13. [1.1] GEBALLA-KOUKOULA, Ariadni - GERSSEN, Arjen - NIELEN, Michel W. F. Direct analysis of lateral flow immunoassays for deoxynivalenol using electrospray ionization mass spectrometry. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2020, vol. 412, no. 27, pp. 7547-7558. Dostupné na: <https://doi.org/10.1007/s00216-020-02890-4>., Registrované v: WOS
14. [1.1] GOUGIS, Maxime - MA, Dongling - MOHAMED, Mohamed. Tungsten oxide-Au nanosized film composites for glucose oxidation and sensing in neutral medium. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2015, vol. 10, no., pp. 2939-2950., Registrované v: WOS
15. [1.1] GUADARRAMA-FERNANDEZ, Leonor - NOVELL, Marta - BLONDEAU, Pascal - ANDRADE, Francisco J. A disposable, simple, fast and low-cost paper-based biosensor and its application to the determination of glucose in commercial orange juices. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 265, no., pp. 64-69., Registrované v: WOS
16. [1.1] GUZSVANY, Valeria - ANOJCIC, Jasmina - VAJDLE, Olga - RADULOVIC, Emil - MADARASZ, Daniel - KONYA, Zoltan - KALCHER, Kurt. Amperometric Determination of Glucose in White Grape and in Tablets as Ingredient by Screen-Printed Electrode Modified with Glucose Oxidase and Composite of Platinum and Multiwalled Carbon Nanotubes. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2019, vol. 12, no. 2, pp. 570-580., Registrované v: WOS
17. [1.1] HUGHES, G. - PEMBERTON, R. M. - FIELDEN, P. R. - HART, J. P. Development of a novel reagentless, screen-printed amperometric biosensor based on glutamate dehydrogenase and NAD(+), integrated with multi-walled carbon nanotubes for the determination of glutamate in food and clinical applications. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 216, no., pp. 614-621., Registrované v: WOS
18. [1.1] HU, Weihong - SUN, Da-Wen - PU, Hongbin - PAN, Tingtao. Recent Developments in Methods and Techniques for Rapid Monitoring of Sugar Metabolism in Fruits. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2016, vol. 15, no. 6, pp. 1067-1079., Registrované v: WOS
19. [1.1] JOMMA, Ezzaldeen Younes - DING, Shou-Nian. Recent Advances on Electrochemical Enzyme Biosensors. In CURRENT ANALYTICAL CHEMISTRY. ISSN 1573-4110, 2016, vol. 12, no. 1, pp. 5-21., Registrované v: WOS
20. [1.1] KACAR, Ceren - ERDEN, Pinar Esra - KILIC, Esma. Graphene/Poly(vinylferrocene) Composite Based Amperometric Biosensor for

- L-lysine Determination. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 9, pp. 2114-2124., Registrované v: WOS
21. [1.1] MANOJ, D. - AUDDY, I - NIMBKAR, S. - CHITTIBABU, S. - SHANMUGASUNDARAM, S. Development of co-immobilised enzymes amperometric biosensor for the determination of triglycerides in coconut milk. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2020, vol. 27, no. 5, pp. 875-882., Registrované v: WOS
22. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. Main streams in the Construction of Biosensors and Their Applications. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS
23. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - POHANKA, Miroslav. Nanomaterials as Pseudocatalysts in the Construction of Electrochemical Nonenzymatic Sensors for Healthcare: A Review. In ANALYTICAL LETTERS. ISSN 0003-2719, 2019, vol. 52, no. 9, pp. 1396-1417., Registrované v: WOS
24. [1.1] MATYSIAK-BRYNDA, Edyta - SEK, Jakub P. - KASPRZAK, Artur - KROLIKOWSKA, Agata - DONTEN, Mikolaj - PATRZALEK, Michal - POPLAWSKA, Magdalena - NOWICKA, Anna M. Reduced graphene oxide doping with nanometer-sized ferrocene moieties New active material for glucose redox sensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 128, no., pp. 23-31., Registrované v: WOS
25. [1.1] NGUYEN, Hoang Hiep - LEE, Sun Hyeok - LEE, Ui Jin - FERMIN, Cesar D. - KIM, Moonil. Immobilized Enzymes in Biosensor Applications. In MATERIALS. ISSN 1996-1944, 2019, vol. 12, no. 1, pp., Registrované v: WOS
26. [1.1] PARIKKA, Kirsti - MASTER, Emma - TENKANEN, Maija. Oxidation with galactose oxidase: Multifunctional enzymatic catalysis. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2015, vol. 120, no., pp. 47-59., Registrované v: WOS
27. [1.1] PORFIRIO, Flavia F. O. - GIAROLA, Juliana de Fatima - PEREIRA, Arnaldo Cesar. Biosensor and Beverages Review. In REVISTA VIRTUAL DE QUIMICA. ISSN 1984-6835, 2016, vol. 8, no. 5, pp. 1366-1391., Registrované v: WOS
28. [1.1] PORTACCIO, Marianna - LEPORE, Maria. Determination of Different Saccharides Concentration by Means of a Multienzymes Amperometric Biosensor. In JOURNAL OF SENSORS. ISSN 1687-725X, 2017, vol., no., pp., Registrované v: WOS
29. [1.1] REYES-DE-CORCUERA, Jose I. - OLSAD, Hanna E. - GARCIA-TORRES, Rosalia. Stability and Stabilization of Enzyme Biosensors: The Key to Successful Application and Commercialization. In ANNUAL REVIEW OF FOOD SCIENCE AND TECHNOLOGY, VOL 9. ISSN 1941-1413, 2018, vol. 9, no., pp. 293-322., Registrované v: WOS
30. [1.1] ROSATI, G. - SCARAMUZZA, M. - PASQUALOTTO, E. - DE TONI, A. - REGGIANI, C. - PACCAGNELLA, A. Modeling of SAM Impedance Onto Gold and Silver Thin-Film Mass-Produced Electrodes and Their Use for Optimization of Lactic Acid Detection. In IEEE TRANSACTIONS ON NANOBIOSCIENCE. ISSN 1536-1241, 2016, vol. 15, no. 7, pp. 756-764., Registrované v: WOS

31. [1.1] SALAZAR, Pedro - RICO, Victor - GONZALEZ-ELIPE, Agustin R. Non-Enzymatic Glucose Sensors Based on Nickel Nanoporous Thin Films Prepared by Physical Vapor Deposition at Oblique Angles for Beverage Industry Applications. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2016, vol. 163, no. 14, pp. B704-B709., Registrované v: WOS
32. [1.1] SHKOTOVA, Lyudmyla V. - PIECHNIAKOVA, Nataliia Y. - KUKLA, Oleksandr L. - DZYADEVYCH, Sergei V. Thin-film amperometric multibiosensor for simultaneous determination of lactate and glucose in wine. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 197, no., pp. 972-978., Registrované v: WOS
33. [1.1] SMART, A. - CREW, A. - PEMBERTON, R. - HUGHES, G. - DORAN, O. - HART, J. P. Screenprinted carbon based biosensors and their applications in agri- food safety. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 127, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115898>., Registrované v: WOS
34. [1.1] TANAKA, Sohei - DOHI, Takumi - AIZAWA, Sen-ichi - KEMMEI, Tomoko - TERASHIMA, Hiroyuki - TAGA, Atsushi - YAMAMOTO, Atsushi - KODAMA, Shuji. Simultaneous determination of alcohols including diols and triols by HPLC with ultraviolet detection based on the formation of a copper(II) complex. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 21, pp. 4168-4175., Registrované v: WOS
35. [1.1] UWIMBABAZI, Eric - MUKASEKURU, Marie Rose - SUN, Xiulan. Glucose Biosensor Based on a Glassy Carbon Electrode Modified with Multi-Walled Carbon Nanotubes-Chitosan for the Determination of Beef Freshness. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2017, vol. 10, no. 8, pp. 2667-2676., Registrované v: WOS
36. [1.2] ARYA, Aditya - GANGWAR, Anamika - KUMAR, Amit. Biosensors in animal biotechnology. In Nanotechnology in Modern Animal Biotechnology: Concepts and Applications, 2019-01-01, pp. 75-95., Registrované v: SCOPUS
37. [1.2] GRAÇA, Juliana S. - FERREIRA, Marystela. Liposome-encapsulated biomolecules: Application in enzymatic biosensors and immunosensors. In Revista Virtual de Química. ISSN 19846835, 2015-01-01, 7, 4, pp. 1552-1564., Registrované v: SCOPUS
38. [1.2] LOZANO, Marleny García - GARCÍA, Yadira Peña - GONZALEZ, Jose Alberto Silva - BAÑUELOS, Cynthia Vanessa Ochoa - ESCAREÑO, Miriam Paulina Luevanos - BALAGURUSAMY, Nagamani. Biosensors for food quality and safety monitoring: Fundamentals and applications. In Enzymes in Food Biotechnology: Production, Applications, and Future Prospects, 2018-01-01, pp. 691-709., Registrované v: SCOPUS
39. [1.2] MEHROTRA, Parikha. Biosensors and their applications A review. In Journal of Oral Biology and Craniofacial Research. ISSN 22124268, 2016-05-01, 6, 2, pp. 153-159., Registrované v: SCOPUS
40. [1.2] SIYAL, Lovnish - KUMAR, Benu - BHATTACHARYA, Arpita - SAHNEY, Rachana. Entrapment of glucose oxidase in reverse micelle microemulsion systems for glucose detection in lipid based food products. In Asian Journal of Chemistry. ISSN 09707077, 2019-01-01, 31, 11, pp. 2635-2641., Registrované v: SCOPUS

41. [1.2] SOROPOGUI, Keamou M. - JAMEEL, Ahmad T. - SALIM, Wan Wardatul A.W. Enzyme-based biosensors for electrochemical detection of pesticides—A mini review. In *Indonesian Journal of Electrical Engineering and Informatics*, 2018-06-01, 6, 2, pp. 161-171., Registrované v: SCOPUS
42. [1.2] VAIDYA, Aniruddha M. - ANNAPURE, Uday S. Enzymes in biosensors for food quality assessment. In *Enzymes in Food Biotechnology: Production, Applications, and Future Prospects*, 2018-01-01, pp. 659-674., Registrované v: SCOPUS

ADCA933 MONOŠÍK, Rastislav - MAGDOLEN, Peter - STREĎANSKÝ, Miroslav - ŠTURDÍK, Ernest. Monitoring of monosaccharides, oligosaccharides, ethanol and glycerol during wort fermentation by biosensors, HPLC and spectrophotometry. In *Food Chemistry*, 2013, vol. 138, p. 220-226. (2012: 3.334 - IF, Q1 - JCR, 1.762 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2012.10.039>

Ohlasy:

1. [1.1] ARLYAPOV, V. A. - KAMANINA, O. A. - KAMANIN, S. S. - RESHETILOV, A. N. - SHVETS, V. I. Monitoring of Biotechnological Processes by Enzyme Electrodes Modified with Carbon Nanotubes. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2019, vol. 55, no. 3, pp. 313-321., Registrované v: WOS
2. [1.1] Arlyapov, V.A.; Kamanina, O.A.; Kamanin, S.S.; Reshetilov, A.N.; Shvets, V.I. Biotechnological Processes Monitoring with Carbon Nanotubes-Modified Enzyme Electrodes. In: *Prikladnaya biokhimiya i mikrobiologiya*, Volume: 55 (2019), Issue: 3 Pages: 303-312, Registrované v: WOS
3. [1.1] DE SA, Acelino Cardoso - CIPRI, Andrea - GONZALEZ-CALABUIG, Andreu - STRADIOTTO, Nelson Ramos - DEL VALLE, Manel. Multivariate Determination of Total Sugar Content and Ethanol in Bioethanol Production Using Carbon Electrodes Modified with MWCNT/MeOOH and Chemometric Data Treatment. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 8, pp. 1688-1697., Registrované v: WOS
4. [1.1] DING, Xianting. JALA Special Issue: New Developments in Biosensing Technologies. In *JALA*. ISSN 2211-0682, 2015, vol. 20, no. 4, pp. 311-315., Registrované v: WOS
5. [1.1] FARINA, Donatella - ZINELLU, Manuel - FANARI, Mauro - PORCU, Maria Cristina - SCOGNAMILLO, Sergio - PUGGIONI, Giulia Maria Grazia - ROCCHITTA, Gaia - SERRA, Pier Andrea - PRETTI, Luca. Development of a biosensor telemetry system for monitoring fermentation in craft breweries. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 218, no., pp. 479-486., Registrované v: WOS
6. [1.1] IWASA, Hisanori - OZAWA, Kazumichi - SASAKI, Noriko - KINOSHITA, Nao - YOKOYAMA, Kenji - HIRATSUKA, Atsunori. Fungal FAD-dependent glucose dehydrogenases concerning high activity, affinity, and thermostability for maltose-insensitive blood glucose sensor. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 140, no., pp. 115-122., Registrované v: WOS
7. [1.1] JAVIER AREVALO, Fernando - OSUNA-SANCHEZ, Yolanda - SANDOVAL-CORTES, Jose - DI TOCCO, Aylen - MARCELO GRANERO, Adrian - NOEL ROBLEDO, Sebastian - ALICIA ZON, Maria - ROBERTO

- VETTORAZZI, Nelio - LUIS MARTINEZ, Jose - PATRICIA SEGURA, Elda - ILINA, Anna - FERNANDEZ, Hector. Development of an electrochemical sensor for the determination of glycerol based on glassy carbon electrodes modified with a copper oxide nanoparticles/multiwalled carbon nanotubes/pectin composite. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 244, no., pp. 949-957., Registrované v: WOS
8. [1.1] KAMANIN, S. S. - ARLYAPOV, V. A. - MACHULIN, A. V. - ALFEROV, V. A. - RESHETILOV, A. N. Biosensors based on modified screen-printed enzyme electrodes for monitoring of fermentation processes. In *RUSSIAN JOURNAL OF APPLIED CHEMISTRY*. ISSN 1070-4272, 2015, vol. 88, no. 3, pp. 463-472., Registrované v: WOS
9. [1.1] MASON, Marco - LONGO, Edoardo - SCAMPICCHIO, Matteo. Monitoring of Glucose in Beer Brewing by a Carbon Nanotubes Based Nylon Nanofibrous Biosensor. In *JOURNAL OF NANOMATERIALS*. ISSN 1687-4110, 2016, vol., no., pp., Registrované v: WOS
10. [1.1] MOTIA, Soukaina - BOUCHIKHI, Benachir - LLOBET, Eduard - EL BARI, Nezha. Synthesis and characterization of a highly sensitive and selective electrochemical sensor based on molecularly imprinted polymer with gold nanoparticles modified screen-printed electrode for glycerol determination in wastewater. In *TALANTA*. ISSN 0039-9140, 2020, vol. 216, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120953>., Registrované v: WOS
11. [1.1] SHKOTOVA, Lyudmyla V. - PIECHNIAKOVA, Nataliia Y. - KUKLA, Oleksandr L. - DZYADEVYCH, Sergei V. Thin-film amperometric multibiosensor for simultaneous determination of lactate and glucose in wine. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 197, no., pp. 972-978., Registrované v: WOS
12. [1.1] SZILAGYI, Tamas Gabor - VECSEI, Beata Hegyesne - KISS, Zsuzsanna - HAJBA, Laszlo - GUTTMAN, Andras. Analysis of the oligosaccharide composition in wort samples by capillary electrophoresis with laser induced fluorescence detection. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 256, no., pp. 129-132., Registrované v: WOS
13. [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi - CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS
14. [1.1] XIE, Taiping - XU, Longjun - LIU, Chenglun - BI, Zhiming. An effective approach to improve ethanol productivity by simultaneous saccharification and fermentation of rice straw. In *INTERNATIONAL JOURNAL OF GREEN ENERGY*. ISSN 1543-5075, 2018, vol. 15, no. 10, pp. 545-549., Registrované v: WOS
15. [1.1] ZHANG XIAOHONG - ZHAO ZHIDONG - LOU XIONGWEI - LI JIAN - HUI GUOHUA. A maltose, L-rhamnose sensor based on porous Cu foam and electrochemical amperometric i-t scanning method. In *JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION*. ISSN 2193-4126, 2017, vol. 11, no. 2, pp. 548-555., Registrované v: WOS
16. [1.1] ZHANG, Dongzhi - LIU, Jingjing - CHANG, Hongyan - LIU, Aiming - XIA, Bokai. Characterization of a hybrid composite of SnO₂ nanocrystal-decorated reduced graphene oxide for ppm-level ethanol gas sensing

application. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 24, pp. 18666-18672., Registrované v: WOS

17. [1.1] ZHAO, Dan - FENG, Feng - YUAN, Fei - SU, Jin - CHENG, Yan - WU, Hanqiu - SONG, Kun - NIE, Bo - YU, Lian - ZHANG, Feng. Simultaneous determination of 13 carbohydrates using high-performance anion-exchange chromatography coupled with pulsed amperometric detection and mass spectrometry. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 8, pp. 1843-1854., Registrované v: WOS

ADCA934 MONRAD, Rune Nygaard** - EKLOF, Jens - KROGH, Kristian B.R. - BIELY, Peter**. Glucuronoyl esterases: diversity, properties and biotechnological potential. A review. In *Critical Reviews in Biotechnology*, 2018, vol. 38, p. 1121-1136. (2017: 5.239 - IF, Q1 - JCR, 1.243 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0738-8551. Dostupné na: <https://doi.org/10.1080/07388551.2018.1468316>

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS

2. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS

3. [1.1] KARNAOURI, Anthi - ANTONOPOULOU, Io - ZERVA, Anastasia - DIMAROGONA, Maria - TOPAKAS, Evangelos - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 279, no., pp. 362-372., Registrované v: WOS

4. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS

5. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS

6. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In

ADCA935 MOORE, Laura - GROBÁROVÁ, Valéria - SHEN, Helen - MAN, Han Bin -
MIČOVÁ, Júlia - LEDVINA, Miroslav - ŠTURSA, Ján - NESLÁDEK, Miloš -
FIŠEROVÁ, Anna - HO, Dean. Comprehensive interrogation of the cellular
response to fluorescent, detonation and functionalized nanodiamonds. In *Nanoscale*,
2014, vol. 6, p. 11712-11721. (2013: 6.739 - IF, Q1 - JCR, 2.550 - SJR, Q1 - SJR,
Current Contents - CCC). (2014 - Current Contents). ISSN 2040-3364. Dostupné na:
<https://doi.org/10.1039/c4nr02570a>

Ohlasy:

1. [1.1] ALI, Moustafa S. - METWALLY, Abdelkader A. - FAHMY, Rania H. - OSMAN, Rihab. Nanodiamonds: Minuscule gems that ferry antineoplastic drugs to resistant tumors. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2019, vol. 558, no., pp. 165-176., Registrované v: WOS
2. [1.1] ALI, Moustafa S. - METWALLY, Abdelkader A. - FAHMY, Rania H. - OSMAN, Rihab. Chitosan-coated nanodiamonds: Mucoadhesive platform for intravesical delivery of doxorubicin. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 245, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116528>., Registrované v: WOS
3. [1.1] ARNAULT, J. C. Nanodiamonds: From Synthesis and Purification to Deposition Techniques, Hybrids Fabrication and Applications. In *CARBON NANOPARTICLES AND NANOSTRUCTURES*. ISSN 2191-3005, 2016, vol., no., pp. 1-45., Registrované v: WOS
4. [1.1] ARNAULT, J. C. Surface Modifications of Nanodiamonds and Current Issues for Their Biomedical Applications. In *NOVEL ASPECTS OF DIAMOND: FROM GROWTH TO APPLICATIONS*. ISSN 0303-4216, 2015, vol. 121, no., pp. 85-122., Registrované v: WOS
5. [1.1] AUGUSTINE, Shine - SINGH, Jay - SRIVASTAVA, Manish - SHARMA, Monica - DAS, Asmita - MALHOTRA, Bansi D. Recent advances in carbon based nanosystems for cancer theranostics. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2017, vol. 5, no. 5, pp. 901-952., Registrované v: WOS
6. [1.1] DOMINGUEZ, Gustavo A. - TORELLI, Marco D. - BUCHMAN, Joseph T. - HAYNES, Christy L. - HAMERS, Robert J. - KLAPER, Rebecca D. Size dependent oxidative stress response of the gut of *Daphnia magna* to functionalized nanodiamond particles. In *ENVIRONMENTAL RESEARCH*. ISSN 0013-9351, 2018, vol. 167, no., pp. 267-275., Registrované v: WOS
7. [1.1] FERNANDES, Fiona - KOTHARKAR, Pooja - CHAKRAVORTY, Adrija - KOWSHIK, Meenal - TALUKDAR, Indrani. Nanocarrier Mediated siRNA Delivery Targeting Stem Cell Differentiation. In *CURRENT STEM CELL RESEARCH & THERAPY*. ISSN 1574-888X, 2020, vol. 15, no. 2, pp. 155-172., Registrované v: WOS
8. [1.1] GUO, Yuliang - CHEN, Yang - HAN, Pomchol - LIU, Yuxiong - LI, Wenhao - ZHU, Fangliang - FU, Kai - CHU, Maoquan. Biocompatible chitosan-carbon nanocage hybrids for sustained drug release and highly efficient laser and microwave co-irradiation induced cancer therapy. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2020, vol. 103, no., pp. 237-246.

Dostupné na: <https://doi.org/10.1016/j.actbio.2019.12.010>., Registrované v: WOS

9. [1.1] HAPPEL, Patrick - WAAG, Thilo - SCHIMKE, Magdalena - SCHWEEBERG, Sarah - MUZHA, Andreas - FORTAK, Katrin - HEESCH, Daniel - KLASK, Laura - PILSCHEUR, Mathias - HOPPE, Franziska - LENDERS, Thomas - MEIJER, Jan - LEPPERDINGER, Guenter - KRUEGER, Anke. Intrinsically P-32-Labeled Diamond Nanoparticles for In Vivo Imaging and Quantification of Their Biodistribution in Chicken Embryos. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2018, vol. 28, no. 36, pp., Registrované v: WOS

10. [1.1] HEMELAAR, Simon R. - SASPAANITHY, Babuji - L'HOMMELET, Severin R. M. - MARTINEZ, Felipe P. Perona - VAN DER LAAN, Kiran J. - SCHIRHAGL, Romana. The Response of HeLa Cells to Fluorescent NanoDiamond Uptake. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 2, pp., Registrované v: WOS

11. [1.1] CHEVILLARD, Sylvie - GRALL, Romain - DELIC, Jozo - PAGET, Vincent. Toxicity issues: interactions with biological species. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 323-338., Registrované v: WOS

12. [1.1] CHIPAUX, Mayeul - VAN DER LAAN, Kiran J. - HEMELAAR, Simon R. - HASANI, Masoumeh - ZHENG, Tingting - SCHIRHAGL, Romana. Nanodiamonds and Their Applications in Cells. In SMALL. ISSN 1613-6810, 2018, vol. 14, no. 24, pp., Registrované v: WOS

13. [1.1] JARIWALA, Dhruvil Hiteshkumar - PATEL, Dhruvi - WAIRKAR, Sarika. Surface functionalization of nanodiamonds for biomedical applications. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 113, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.110996>., Registrované v: WOS

14. [1.1] JIRASEK, Vit - LUKES, Petr - KOZAK, Halyna - ARTEMENKO, Anna - CLUPEK, Martin - CERMAK, Jan - REZEK, Bohuslav - KROMKA, Alexander. Filamentation of diamond nanoparticles treated in underwater corona discharge. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 3, pp. 2352-2360., Registrované v: WOS

15. [1.1] KUMAR, Sandeep - NEHRA, Monika - KEDIA, Deepak - DILBAGHI, Neeraj - TANKESHWAR, K. - KIM, Ki-Hyun. Nanodiamonds: Emerging face of future nanotechnology. In CARBON. ISSN 0008-6223, 2019, vol. 143, no., pp. 678-699., Registrované v: WOS

16. [1.1] LAI, H. - STENZEL, M. H. - XIAO, P. Surface engineering and applications of nanodiamonds in cancer treatment and imaging. In INTERNATIONAL MATERIALS REVIEWS. ISSN 0950-6608, 2020, vol. 65, no. 4, pp. 189-225. Dostupné na: <https://doi.org/10.1080/09506608.2019.1622202>., Registrované v: WOS

17. [1.1] LIM, Dae Gon - PRIM, Racelly Ena - KIM, Ki Hyun - KANG, Eunah - PARK, Kinam - JEONG, Seong Hoon. Combinatorial nanodiamond in pharmaceutical and biomedical applications. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2016, vol. 514, no. 1, pp. 41-51., Registrované v: WOS

18. [1.1] LIU, Yen-Yiu - CHANG, Be-Ming - CHANG, Huan-Cheng. Nanodiamond-enabled biomedical imaging. In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 16, pp. 1599-1616. Dostupné na: <https://doi.org/10.2217/nnm-2020-0091>., Registrované v: WOS

19. [1.1] LOH, Kian Ping - HO, Dean - CHIU, Gigi Ngar Chee - LEONG, David Tai - PASTORIN, Giorgia - CHOW, Edward Kai-Hua. Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. In ADVANCED MATERIALS. ISSN 0935-9648, 2018, vol. 30, no. 47, pp., Registrované v: WOS
20. [1.1] MARCINKIEWICZ, Cezary - LELKES, Peter - STERNBERG, Mark - FEUERSTEIN, Giora Z. Effects of Fluorescent Diamond Particles FDP-NV-800nm on Essential Biochemical Functions of Primary Human Umbilical Vein Cells and Human Hepatic Cell Line, HepG-2 in vitro (Part VI): Acute Biocompatibility Studies. In NANOTECHNOLOGY SCIENCE AND APPLICATIONS. ISSN 1177-8903, 2020, vol. 13, no., pp. 103-118. Dostupné na: <https://doi.org/10.2147/NSA.S268107>., Registrované v: WOS
21. [1.1] MONTALTI, M. - CANTELLI, A. - BATTISTELLI, G. Nanodiamonds and silicon quantum dots: ultrastable and biocompatible luminescent nanoprobe for long-term bioimaging. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 14, pp. 4853-4921., Registrované v: WOS
22. [1.1] NEBURKOVA, Jitka - VAVRA, Jan - RAABOVA, Helena - PRAMANIK, Goutam - HAVLIK, Jan - CIGLER, Petr. Nanodiamonds embedded in shells. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 339-363., Registrované v: WOS
23. [1.1] PACELLI, Settimio - MALONEY, Ryan - CHAKRAVARTI, Aparna R. - WHITLOW, Jonathan - BASU, Sayantani - MODARESI, Saman - GEHRKE, Stevin - PAUL, Arghya. Controlling Adult Stem Cell Behavior Using Nanodiamond-Reinforced Hydrogel: Implication in Bone Regeneration Therapy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
24. [1.1] REINECK, Philipp - GIBSON, Brant C. Near-Infrared Fluorescent Nanomaterials for Bioimaging and Sensing. In ADVANCED OPTICAL MATERIALS. ISSN 2195-1071, 2017, vol. 5, no. 2, pp., Registrované v: WOS
25. [1.1] SETYAWATI, Magdiel I. - MOCHALIN, Vadym N. - LEONG, David T. Tuning Endothelial Permeability with Functionalized Nanodiamonds. In ACS NANO. ISSN 1936-0851, 2016, vol. 10, no. 1, pp. 1170-1181., Registrované v: WOS
26. [1.1] SOTOMA, Shingo - SHIRAKAWA, Masahiro. Monodispersed Colloidal Solutions of Surface-modified Detonation-synthesized Nanodiamonds and Their Aggregation Resistance. In CHEMISTRY LETTERS. ISSN 0366-7022, 2016, vol. 45, no. 6, pp. 697-699., Registrované v: WOS
27. [1.1] SUAREZ-KELLY, Lorena P. - RAMPERSAUD, Isaac V. - MORITZ, Charles E. - CAMPBELL, Amanda R. - HU, Zhiwei - ALKAHTANI, Masfer H. - ALGHANNAM, Fahad S. - HEMMER, Philip - CARSON, William E. - RAMPERSAUD, Arfaan A. Fluorescent nanodiamonds and their use in biomedical research. In ADVANCES IN PHOTONICS OF QUANTUM COMPUTING, MEMORY, AND COMMUNICATION IX. ISSN 0277-786X, 2016, vol. 9762, no., pp., Registrované v: WOS
28. [1.1] TINWALA, Hussain - WAIRKAR, Sarika. Production, surface modification and biomedical applications of nanodiamonds: A sparkling tool for theranostics. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS

FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2019, vol. 97, no., pp. 913-931., Registrované v: WOS

29. [1.1] TURCHENIUK, K. - MOCHALIN, Vadym N. Biomedical applications of nanodiamond. In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 25, pp., Registrované v: WOS

30. [1.1] VAN DER LAAN, Kiran J. - HASANI, Masoumeh - ZHENG, Tingting - SCHIRHAGL, Romana. Nanodiamonds for In Vivo Applications. In SMALL. ISSN 1613-6810, 2018, vol. 14, no. 19, pp., Registrované v: WOS

31. [1.1] WHITLOW, Jonathan - PACELLI, Settimio - PAUL, Arghya. Multifunctional nanodiamonds in regenerative medicine: Recent advances and future directions. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 261, no., pp. 62-86., Registrované v: WOS

32. [1.1] WOODHAMS, Benjamin - ANSEL-BOLLEPALLI, Laura - SURMACKI, Jakub - KNOWLES, Helena - MAGGINI, Laura - DE VOLDER, Michael - ATATURE, Mete - BOHNDIEK, Sarah. Graphitic and oxidised high pressure high temperature (HPHT) nanodiamonds induce differential biological responses in breast cancer cell lines. In NANOSCALE. ISSN 2040-3364, 2018, vol. 10, no. 25, pp. 12169-12179., Registrované v: WOS

33. [1.1] WU, Yuzhou - ERMAKOVA, Anna - LIU, Weina - PRAMANIK, Goutam - TRAN MINH VU - KURZ, Andrea - MCGUINNESS, Liam - NAYDENOV, Boris - HAFNER, Susanne - REUTER, Rolf - WRACHTRUP, Joerg - ISOYA, Junichi - FOERTSCH, Christina - BARTH, Holger - SIMMET, Thomas - JELEZKO, Fedor - WEIL, Tanja. Programmable Biopolymers for Advancing Biomedical Applications of Fluorescent Nanodiamonds. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2015, vol. 25, no. 42, pp. 6576-6585., Registrované v: WOS

34. [1.1] WU, Yuzhou - JELEZKO, Fedor - PLENIO, Martin B. - WEIL, Tanja. Diamond Quantum Devices in Biology. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 23, pp. 6586-6598., Registrované v: WOS

35. [1.1] WU, Yuzhou - WEIL, Tanja. Nanodiamonds for Biological Applications. In PHYSICAL SCIENCES REVIEWS. ISSN 2365-6581, 2017, vol. 2, no. 6, pp., Registrované v: WOS

36. [1.2] HSIAO, Wesley Wei Wen - LIN, Hsin Hung - HSIEH, Feng Jen - CHANG, Huan Cheng. Surface-modified nanodiamonds. In Carbon Nanomaterials Sourcebook: Graphene, Fullerenes, Nanotubes, and Nanodiamonds, 2016-04-06, 1, pp. 525-541., Registrované v: SCOPUS

37. [1.2] Müllen, K., & Feng, X. (2017). In Chemistry of Carbon Nanostructures. (Walter de Gruyter, pp. 1-319), Registrované v: SCOPUS

ADCA936 MORRIS, G.A. - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna - ALFOLDI, Juraj - HARDING, S.E. Modification of pectin with UV-absorbing substituents and its effect on the structural and hydrodynamic properties of the water-soluble derivatives. In *Carbohydrate Polymers*, 2002, vol. 48, p. 351-359. (2001: 1.203 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(01\)00268-5](https://doi.org/10.1016/S0144-8617(01)00268-5)

Ohlasy:

1. [1.1] ALMEIDA, Elizangela A. M. S. - FACCHI, Suelen P. - MARTINS, Alessandro F. - NOCCHI, Samara - SCHUQUEL, Ivania T. A. -

- NAKAMURA, Celso V. - RUBIRA, Adley F. - MUNIZ, Edvani C. Synthesis and characterization of pectin derivative with antitumor property against Caco-2 colon cancer cells. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 139-145., Registrované v: WOS
2. [1.1] BOSTANUDIN, Mohammad F. - ARAFAT, Mosab - SARFRAZ, Muhammad - GORECKI, Dariusz C. - BARBU, Eugen. Butylglyceryl Pectin Nanoparticles: Synthesis, Formulation and Characterization. In POLYMERS, 2019, vol. 11, no. 5, pp., Registrované v: WOS
3. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS
4. [1.1] KARAKI, N. - ALJAWISH, A. - MUNIGLIA, L. - BOUGUET-BONNET, S. - LECLERC, S. - PARIS, C. - JASNIEWSKI, J. - HUMEAU-VIROT, C. Functionalization of pectin with laccase-mediated oxidation products of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 1-8., Registrované v: WOS
5. [1.1] MOMENI, Mojtaba - TABIBIAZAR, Mahnaz - KHORRAM, Sirous - ZAKERHAMIDI, Mohammadsadegh - MOHAMMADIFAR, Mohammadamin - VALIZADEH, Hadi - GHORBANI, Marjan. Pectin modification assisted by nitrogen glow discharge plasma. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 2572-2578., Registrované v: WOS
6. [1.1] NING, Haoran - WU, Xiaowei - WU, Qing - YU, Wanlu - WANG, Huaiji - ZHENG, Shang - CHEN, Yunong - LI, Yongyong - SU, Jiansheng. Microfiber-Reinforced Composite Hydrogels Loaded with Rat Adipose-Derived Stem Cells and BMP-2 for the Treatment of Medication-Related Osteonecrosis of the Jaw in a Rat Model. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2019, vol. 5, no. 5, pp. 2430-2443., Registrované v: WOS
7. [1.1] RODRIGUEZ-NAVARRO, Carlos - RUIZ-AGUDO, Encarnacion - BURGOS-CARA, Alejandro - ELERT, Kerstin - HANSEN, Eric F. Crystallization and Colloidal Stabilization of Ca(OH)(2) in the Presence of Nopal Juice (Opuntia ficus indica): Implications in Architectural Heritage Conservation. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 41, pp. 10936-10950., Registrované v: WOS
8. [1.2] BHATIA, Saurabh. Natural polymer drug delivery systems: Nanoparticles, plants, and algae. In Natural Polymer Drug Delivery Systems: Nanoparticles, Plants, and Algae, 2016-01-01, pp. 1-225., Registrované v: SCOPUS

ADCA937 MOSNÁČEK, Jaroslav - POPELKA, Anton - OSIČKA, Josef - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KOLLÁR, Jozef - YOUSAF, Ammar B. - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter**. Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. In *Journal of Colloid and Interface Science*, 2018, vol. 512, p. 511-521. (2017: 5.091 - IF, Q1 - JCR, 1.221 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2017.10.086>

Ohlasy:

1. [1.1] HE, J.L. - ZHANG, L. - LIU, L. Improving thermal conduction across cathode/electrolyte interfaces in solid-state lithium-ion batteries by hierarchical hydrogen-bond network. In MATERIALS & DESIGN. ISSN 0264-1275, SEP 2020, vol. 194., Registrované v: WOS
2. [1.1] CHOI, Y. - SEONG, S. - SON, Y.J. - HAN, S. - ITO, E. - MONDARTE, E.A.Q. - CHANG, R. - HAYASHI, T. - HARA, M. - NOH, J. Formation of long-range-ordered self-assembled monolayers of dodecyl thiocyanates on Au(111) via ambient-pressure vapor deposition. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, DEC 20 2019, vol. 583., Registrované v: WOS
3. [1.1] LIAO, X.F. - LI, H.Q. - SU, X.J. - ZHAN, H.M. - LAI, X.J. - ZENG, X.R. Mussel-inspired cotton fabric with pH-responsive superwettability for bidirectional oil-water separation. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, FEB 2019, vol. 54, no. 4, p. 3648-3660., Registrované v: WOS
4. [1.1] SUMAROKOVA, M. - ITURRI, J. - WEBER, A. - MAARES, M. - KEIL, C. - HAASE, H. - TOCA-HERRERA, J.L. Influencing the adhesion properties and wettability of mucin protein films by variation of the environmental pH. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 25 2018, vol. 8., Registrované v: WOS
5. [1.1] XING, H.T. - CHENG, J. - ZHOU, C.L. Effect of gradient wettability on capillary imbibition in open semicircular copper channel. In PHYSICS OF FLUIDS. ISSN 1070-6631, NOV 1 2020, vol. 32, no. 11., Registrované v: WOS
6. [1.1] XU, Q.L. - LI, Y. - ZHU, Y.H. - ZHAO, K.C. - GU, R. - ZHU, Q.S. Recombinant human BMP-7 grafted poly(lactide-co-glycolide)/hydroxyapatite scaffolds via polydopamine for enhanced calvarial repair. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 48, p. 27191-27200., Registrované v: WOS

ADCA938 MRÁZKOVÁ, Blanka - DZIJAČ, Rastislav - IMRICHOVÁ, Terezie - KYJAČOVÁ, Lenka - BARÁTH, Peter - DŽUBÁK, Petr - HOLUB, Dušan - HAJDUCH, Marian - NAHACKÁ, Zuzana - ANDERA, Ladislav - HOLÍČEK, Petr - VAŠICOVÁ, Pavla - SAPEGA, Olena - BARTEK, Jiří** - HODNÝ, Zdeněk**. Induction, regulation and roles of neural adhesion molecule L1CAM in cellular senescence. In *Aging*, 2018, vol. 10, p. 434-462. (2017: 5.179 - IF, Q1 - JCR, 2.230 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1945-4589. Dostupné na: <https://doi.org/10.18632/aging.101404>

Ohlasy:

1. [1.1] ERBABA, Begun - BURHAN, Ozge Pelin - SERIFOGLU, Naz - MURATOGLU, Bihter - KAHVECI, Fatma - ADAMS, Michelle M. - ARSLAN-ERGUL, Ayca. Zebrafish brain RNA sequencing reveals that cell adhesion molecules are critical in brain aging. In NEUROBIOLOGY OF AGING. ISSN 0197-4580, 2020, vol. 94, no., pp. 164-175. Dostupné na: <https://doi.org/10.1016/j.neurobiolaging.2020.04.017>., Registrované v: WOS

ADCA939 MUCHA, Ján - SVOBODA, B. - KAPPEL, S. - STRASSER, R. - BENCUR, P. - FROHWEIN, U. - SCHACHTER, H. - MACH, L. - GLOSS, J. Two closely related forms of UDP-GlcNAc: α 6-D-mannoside

β 1,2-N-acetylglucosaminyl-transferase II occur in the clawed frog *Xenopus laevis*. In *Glycoconjugate journal*, 2003, vol. 19, p. 187-195. ISSN 0282-0080. Dostupné na: <https://doi.org/10.1023/A:1024201824354>

Ohlasy:

1. [1.2] MIYAZAKI, Takatsugu - KATO, Tatsuya - PARK, Enoch Y. Heterologous expression, purification and characterization of human β -1,2-N-acetylglucosaminyltransferase II using a silkworm-based *Bombyx mori* nucleopolyhedrovirus bacmid expression system. In *Journal of Bioscience and Bioengineering*. ISSN 13891723, 2018-07-01, 126, 1, pp. 15-22., Registrované v: SCOPUS

ADCA940 NABARLATZ, D. - MONTANÉ, D. - KARDOŠOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - HŘÍBALOVÁ, V. - EBRINGEROVÁ, Anna. Almond shell xylo-oligosaccharides exhibiting immunostimulatory activity. In *Carbohydrate Research*, 2007, vol. 342, p. 1122-1128. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.02.017>

Ohlasy:

1. [1.1] BHATIA, Latika - SHARMA, Ashutosh - BACHHETI, Rakesh K. - CHANDEL, Anuj K. Lignocellulose derived functional oligosaccharides: production, properties, and health benefits. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2019, vol. 49, no. 8, pp. 744-758., Registrované v: WOS
2. [1.1] FARHAT, Wissam - VENDITTI, Richard A. - HUBBE, Martin - TAHA, Mohamed - BECQUART, Frederic - AYOUB, Ali. A Review of Water-Resistant Hemicellulose-Based Materials: Processing and Applications. In *CHEMSUSCHEM*. ISSN 1864-5631, 2017, vol. 10, no. 2, pp. 305-323., Registrované v: WOS
3. [1.1] GAO, Yonglin - WANG, Yunzhi - LI, Yanshen - HAN, Rui - LI, Chunmei - XIAO, Lin - CHO, Susan - MA, Yukui - FANG, Chao - LEE, Albert W. Repeated sub-chronic oral toxicity study of xylooligosaccharides (XOS) in dogs. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2017, vol. 86, no., pp. 379-385., Registrované v: WOS
4. [1.1] JAIN, Ira - KUMAR, Vikash - SATYANARAYANA, T. Xylooligosaccharides: an economical prebiotic from agroresidues and their health benefits. In *INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY*. ISSN 0019-5189, 2015, vol. 53, no. 3, pp. 131-142., Registrované v: WOS
5. [1.1] LIU, Xinxin - LIN, Qixuan - YAN, Yuhuan - PENG, Feng - SUN, Runcang - REN, Junli. Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2019, vol. 26, no. 14, pp. 2430-2455., Registrované v: WOS
6. [1.1] SAMANTA, A. K. - CHIKKERUR, J. - ROY, Sohini - KOLTE, A. P. - SRIDHAR, Manpal - DHALI, A. - GIRIDHAR, K. - SENANI, S. Xylooligosaccharides production from tobacco stalk xylan using edible acid. In *CURRENT SCIENCE*. ISSN 0011-3891, 2019, vol. 117, no. 9, pp. 1521-1525., Registrované v: WOS
7. [1.1] SHIVUDU, Godhulayyagari - KHAN, Sourav - CHANDRARAJ, Krishnan - SELVAM, Parasuraman. Immobilization of Recombinant Endo-1,4-beta-xylanase on Ordered Mesoporous Matrices for

- Xylooligosaccharides Production. In CHEMISTRYSELECT. ISSN 2365-6549, 2019, vol. 4, no. 38, pp. 11214-11221., Registrované v: WOS
8. [1.1] SUN, Jiadong - MA, Hang - MARAIS, Jannie P. J. - KHOO, Christina - DAIN, Joel A. - ROWLEY, David C. - SEERAM, Navindra P. Effect of cranberry (*Vaccinium macrocarpon*) oligosaccharides on the formation of advanced glycation end-products. In JOURNAL OF BERRY RESEARCH. ISSN 1878-5093, 2016, vol. 6, no. 2, pp. 149-158., Registrované v: WOS
9. [1.1] TUNGLAND, Bryan. Overview of Prebiotics: Membership, Physiological Effects and their Health Attributes. In HUMAN MICROBIOTA IN HEALTH AND DISEASE: PATHOGENESIS TO THERAPY, 2018, vol., no., pp. 289-348., Registrované v: WOS
10. [1.2] CARVALHEIRO, F. - DUARTE, L. C. - GÍRIO, F. - MONIZ, P. Hydrothermal/Liquid Hot Water Pretreatment (Autohydrolysis): A Multipurpose Process for Biomass Upgrading. In Biomass Fractionation Technologies for a Lignocellulosic Feedstock Based Biorefinery, 2016-01-01, pp. 315-347., Registrované v: SCOPUS
11. [1.2] PATEL, Ami - PRAJAPATI, J. B. Biological properties of xylooligosaccharides as an emerging prebiotic and future perspective. In Current Trends in Biotechnology and Pharmacy. ISSN 09738916, 2015-01-01, 9, 1, pp. 28-36., Registrované v: SCOPUS
12. [1.2] SINGH, Ramkrishna D. - BANERJEE, Jhumur - ARORA, Amit. Prebiotic potential of oligosaccharides: A focus on xylan derived oligosaccharides. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2015-01-01, 5, 1, pp. 19-30., Registrované v: SCOPUS
13. [1.2] WANG, Li - XUE, Lamei - LI, Yan - QIAN, Haifeng - ZHANG, Hui - QI, Xiguang - WU, Gangcheng. Research progress of physiological activities of xylooligosaccharide. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 6, pp. 561-571., Registrované v: SCOPUS

ADCA941 NABARLATZ, D. - EBRINGEROVÁ, Anna - MONTANÉ, D.

Autohydrolysis of agricultural by-products for the production of xylo-oligosaccharides. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 69, p. 20-28. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2006.08.020>

Ohlasy:

1. [1.1] ACOSTA-FERNANDEZ, Rolando - POERIO, Teresa - NABARLATZ, Debora - GIORNO, Lidietta - MAZZEI, Rosalinda. Enzymatic Hydrolysis of Xylan from Coffee Parchment in Membrane Bioreactors. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 16, pp. 7346-7354. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b06429>., Registrované v: WOS
2. [1.1] AHMAD, Norlailiza - ZAKARIA, Mohd Rafein - YUSOFF, Mohd Zulkhairi Mohd - FUJIMOTO, Shinji - INOUE, Hiroyuki - ARIFFIN, Hidayah - HASSAN, Mohd Ali - SHIRAI, Yoshihito. Subcritical Water-Carbon Dioxide Pretreatment of Oil Palm Mesocarp Fiber for Xylooligosaccharide and Glucose Production. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 6, pp., Registrované v: WOS
3. [1.1] AHMAD, Norlailiza - ZAKARIA, Mohd Rafein.

- Oligosaccharide From Hemicellulose. In LIGNOCELLULOSE FOR FUTURE BIOECONOMY, 2019, vol., no., pp. 135-152., Registrované v: WOS
4. [1.1] AHORSU, Richard - CINTORRINO, Giacomo - MEDINA, Francesc - CONSTANTINI, Magda. Microwave processes: A viable technology for obtaining xylose from walnut shell to produce lactic acid by *Bacillus coagulans*. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2019, vol. 231, no., pp. 1171-1181., Registrované v: WOS
 5. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - JOSE NEGRO, Maria - BALLESTEROS, Ignacio - MIGUEL OLIVA, Jose - SAEZ, Felicia. Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 41-48., Registrované v: WOS
 6. [1.1] ALVES-FERREIRA, Junia - DUARTE, Luis C. - LOURENCO, Ana - ROSEIRO, Luisa B. - FERNANDES, Maria C. - PEREIRA, Helena - CARVALHEIRO, Florbela. Distillery Residues from *Cistus ladanifer* (Rockrose) as Feedstock for the Production of Added-Value Phenolic Compounds and Hemicellulosic Oligosaccharides. In BIOENERGY RESEARCH. ISSN 1939-1234, 2019, vol. 12, no. 2, pp. 347-358., Registrované v: WOS
 7. [1.1] ATAEL, Davoud - HAMIDI-ESFAHANI, Zohreh - AHMADI-GAVLIGHI, Hassan. Enzymatic production of xylooligosaccharide from date (*Phoenix dactylifera* L.) seed. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2020, vol. 8, no. 12, pp. 6699-6707. Dostupné na: <https://doi.org/10.1002/fsn3.1964>., Registrované v: WOS
 8. [1.1] AUDU, Idi Guga - BROSSE, Nicolas - WINTER, Heiko - HOFFMANN, Anton - BREMER, Martina - FISCHER, Steffen - LABORIE, Marie-Pierre. Acetyl Groups in *Typha capensis*: Fate of Acetates during Organosolv and Ionosolv Pulping. In POLYMERS, 2018, vol. 10, no. 6, pp., Registrované v: WOS
 9. [1.1] AZEVEDO CARVALHO, Ana Flavia - NETO, Pedro de Oliva - DE ALMEIDA, Paula Zaghetto - DA SILVA, Juliana Bueno - ESCARAMBONI, Bruna - PASTORE, Glaucia Maria. Screening of Xylanolytic *Aspergillus fumigatus* for Prebiotic Xylooligosaccharide Production Using Bagasse. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2015, vol. 53, no. 4, pp. 428-435., Registrované v: WOS
 10. [1.1] AZEVEDO CARVALHO, Ana Flavia - DE FIGUEIREDO, Franciane Cristina - CAMPIONI, Tania Sila - PASTORE, Glaucia Maria - NETO, Pedro de Oliva. Improvement of some chemical and biological methods for the efficient production of xylanases, xylooligosaccharides and lignocellulose from sugar cane bagasse. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 143, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105851>., Registrované v: WOS
 11. [1.1] BAJPAI, Pratima. Future Perspectives. In PULP AND PAPER INDUSTRY: CHEMICAL RECOVERY, 2017, vol., no., pp. 231-233., Registrované v: WOS
 12. [1.1] BALLESTEROS, Lina F. - RAMIREZ, Monica J. - ORREGO, Carlos E. - TEIXEIRA, Jose A. - MUSSATTO, Solange I. Optimization of autohydrolysis conditions to extract antioxidant phenolic compounds from spent coffee grounds. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2017, vol. 199, no., pp. 1-8., Registrované v: WOS
 13. [1.1] BALLESTEROS, Lina F. - TEIXEIRA, Jose A. - MUSSATTO,

Solange I. Extraction of polysaccharides by autohydrolysis of spent coffee grounds and evaluation of their antioxidant activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 258-266., Registrované v: WOS

14. [1.1] BORRERO-LOPEZ, Antonio M. - BLANQUEZ, Alba - VALENCIA, Concepcion - HERNANDEZ, Manuel - ARIAS, Maria E. - FRANCO, Jose M. Influence of solid-state fermentation with *Streptomyces* on the ability of wheat and barley straws to thicken castor oil for lubricating purposes. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 140, no., pp., Registrované v: WOS

15. [1.1] CAO, Rou - GUO, Jianming - HUA, Xia - XU, Yong. Investigation on decolorization kinetics and thermodynamics of lignocellulosic xylooligosaccharides by highly selective adsorption with Amberlite XAD-16N. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.125934>., Registrované v: WOS

16. [1.1] DE HOYOS-MARTINEZ, Pedro L. - ERDOCIA, Xabier - CHARRIER-EL BOUHTOURY, Fatima - PRADO, Raquel - LABIDI, Jalel. Multistage treatment of almonds waste biomass: Characterization and assessment of the potential applications of raw material and products. In WASTE MANAGEMENT. ISSN 0956-053X, 2018, vol. 80, no., pp. 40-50., Registrované v: WOS

17. [1.1] DE MOURA, Fernanda A. - MACAGNAN, Fernanda T. - DA SILVA, Leila P. Oligosaccharide production by hydrolysis of polysaccharides: a review. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2015, vol. 50, no. 2, pp. 275-281., Registrované v: WOS

18. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS

19. [1.1] FLORES, Adriana C. - MORLETT, Jesus A. - RODRIGUEZ, Raul. Inulin Potential for Enzymatic Obtaining of Prebiotic Oligosaccharides. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2016, vol. 56, no. 11, pp. 1893-1902., Registrované v: WOS

20. [1.1] FUNEZ-NUNEZ, I. - GARCIA-SANCHO, C. - CECILIA, J. A. - MORENO-TOST, R. - SERRANO-CANTADOR, L. - MAIRELES-TORRES, P. Recovery of pentoses-containing olive stones for their conversion into furfural in the presence of solid acid catalysts. In PROCESS SAFETY AND ENVIRONMENTAL PROTECTION. ISSN 0957-5820, 2020, vol. 143, no., pp. 1-13. Dostupné na: <https://doi.org/10.1016/j.psep.2020.06.033>., Registrované v: WOS

21. [1.1] GALLINA, Gianluca - CABEZA, Alvaro - BIASI, Pierdomenico - GARCIA-SERNA, Juan. Optimal conditions for hemicelluloses extraction from *Eucalyptus globulus* wood: hydrothermal treatment in a semi-continuous reactor. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2016, vol. 148, no., pp. 350-360., Registrované v: WOS

22. [1.1] GARCIA-MARTIN, Juan Francisco - CUEVAS, Manuel - FENG, Chao-Hui - ALVAREZ MATEOS, Paloma - TORRES GARCIA, Miguel - SANCHEZ, Sebastian. Energetic Valorisation of Olive Biomass: Olive-Tree

- Pruning, Olive Stones and Pomaces. In PROCESSES, 2020, vol. 8, no. 5, pp. Dostupné na: <https://doi.org/10.3390/pr8050511>., Registrované v: WOS
23. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS
24. [1.1] GE, Lin - XIE, Jingcong - WU, Tao - ZHANG, Shanshan - ZHAO, Linguo - DING, Gang - WANG, Zhenzhong - XIAO, Wei. Purification and characterisation of a novel alpha-L-rhamnosidase exhibiting transglycosylating activity from *Aspergillus oryzae*. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2017, vol. 52, no. 12, pp. 2596-2603., Registrované v: WOS
25. [1.1] HO, Ai Ling - KOSIK, Ondrej - LOVEGROVE, Alison - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. In vitro fermentability of xylo-oligosaccharide and xylo-polysaccharide fractions with different molecular weights by human faecal bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 50-58., Registrované v: WOS
26. [1.1] HUANG, Caoxing - JEUCK, Ben - DU, Jing - YONG, Qiang - CHANG, Hou-min - JAMEEL, Hasan - PHILLIPS, Richard. Novel process for the coproduction of xylo-oligosaccharides, fermentable sugars, and lignosulfonates from hardwood. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 219, no., pp. 600-607., Registrované v: WOS
27. [1.1] HUANG, Chen - FANG, Guigan - ZHOU, Yang - DU, Xinghu - YU, Longxiang - MENG, Xianzhi - LI, Mi - YOO, Chang Geun - CHEN, Bingwei - ZHAI, Shengcheng - GUAN, Qiyuan - YONG, Qiang - RAGAUSKAS, Arthur J. Increasing the Carbohydrate Output of Bamboo Using a Combinatorial Pretreatment. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 19, pp. 7380-7393. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01126>., Registrované v: WOS
28. [1.1] HUANG, Chen - LAI, Chenhuan - WU, Xinxing - HUANG, Yang - HE, Juan - HUANG, Caoxing - LI, Xin - YONG, Qiang. An integrated process to produce bio-ethanol and xylooligosaccharides rich in xylobiose and xylotriose from high ash content waste wheat straw. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 241, no., pp. 228-235., Registrované v: WOS
29. [1.1] HUERTA, Raquel Razzera - SALDANA, Marleny D. A. Pressurized fluid treatment of barley and canola straws to obtain carbohydrates and phenolics. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2018, vol. 141, no., pp. 12-20., Registrované v: WOS
30. [1.1] CHATZIFRAGKOU, Afroditi - KOSIK, Ondrej - PRABHAKUMARI, Parvathy Chandran - LOVEGROVE, Alison - FRAZIER, Richard A. - SHEWRY, Peter R. - CHARALAMPOPOULOS, Dimitrios. Biorefinery strategies for upgrading Distillers' Dried Grains with Solubles (DDGS). In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 12, pp. 2194-2207., Registrované v: WOS
31. [1.1] CHEMIN, Maud - WIROTIUS, Anne-Laure -

- HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELLIER, Stephane. Well-defined oligosaccharides by mild acidic hydrolysis of hemicelluloses. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 66, no., pp. 190-197., Registrované v: WOS
32. [1.1] JIANG, Zhicheng - BUDARIN, Vitaliy L. - FAN, Jiajun - REMON, Javier - LI, Tianzong - HU, Changwei - CLARK, James H. Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 4098-+, Registrované v: WOS
33. [1.1] JIA, Chengsheng - CAO, Dandan - JI, Suping - LIN, Weiting - ZHANG, Xiaoming - MUHOZA, Bertrand. Whey protein isolate conjugated with xylo-oligosaccharides via maillard reaction: Characterization, antioxidant capacity, and application for lycopene microencapsulation. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 118, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2019.108837>., Registrované v: WOS
34. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDIYANI, Harsha - GUPTA, Prerna. Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS
35. [1.1] JOHAKIMU, Jonas K. - JEROME, Andrew - SITHOLE, Bruce B. - PRABASHNI, Lekha. Fractionation of organic substances from the South African Eucalyptus grandis biomass by a combination of hot water and mild alkaline treatments. In WOOD SCIENCE AND TECHNOLOGY. ISSN 0043-7719, 2016, vol. 50, no. 2, pp. 365-384., Registrované v: WOS
36. [1.1] JOHNSON, Amanda M. - KIM, Hoon - RALPH, John - MANSFIELD, Shawn D. Natural acetylation impacts carbohydrate recovery during deconstruction of Populus trichocarpa wood. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
37. [1.1] KAMMOUN, Maroua - AYEB, Haitham - BETTAIEB, Taoufik - RICHEL, Aureore. Chemical characterisation and technical assessment of agri-food residues, marine matrices, and wild grasses in the South Mediterranean area: A considerable inflow for biorefineries. In WASTE MANAGEMENT. ISSN 0956-053X, 2020, vol. 118, no., pp. 247-257. Dostupné na: <https://doi.org/10.1016/j.wasman.2020.08.032>., Registrované v: WOS
38. [1.1] KAPRELYANTS, L. - ZHURLOVA, O. - SHPYRKO, T. - POZHITKOVA, L. XYLOOLIGOSACCHARIDES FROM AGRICULTURAL BY-PRODUCTS: CHARACTERISATION, PRODUCTION AND PHYSIOLOGICAL EFFECTS. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-UKRAINE. ISSN 2073-8684, 2017, vol. 11, no. 3, pp. 25-34., Registrované v: WOS
39. [1.1] KATSIMPOURAS, Constantinos - KALOGIANNIS, Konstantinos G. - KALOGIANNI, Aggeliki - LAPPAS, Angelos A. - TOPAKAS, Evangelos. Production of high concentrated cellulosic ethanol by acetone/water oxidized pretreated beech wood. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
40. [1.1] KHAMIS, Nor Azahanim - SHAMSUDIN, Saleha - ABD RAHMAN, Nur Siha - KASIM, Khairul Farihan. Effects of autohydrolysis on rice biomass for reducing sugars production. In MATERIALS

TODAY-PROCEEDINGS. ISSN 2214-7853, 2019, vol. 16, no., pp. 2078-2087.,
Registrované v: WOS

41. [1.1] LAMB, Christiano de C. - ZACARIAS DA SILVA, Bruna
Martini - DE SOUZA, Diego - FORNASIER, Francesca - RICA, Larissa
Brixner - DE SOUZA SCHNEIDER, Rosana de Cassia. Bioethanol production
from rice hull and evaluation of the final solid residue. In CHEMICAL
ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2018, vol. 205, no. 6,
pp. 833-845., Registrované v: WOS

42. [1.1] LINDEMANN, Martin - FRIEDL, Anton - SREBOTNIK,
Ewald. Enhanced Cellulose Degradation of Wheat Straw during Aqueous Ethanol
Organosolv Treatment. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12,
no. 4, pp. 9407-9419., Registrované v: WOS

43. [1.1] LIU, Lei - REN, Jiwei - ZHANG, Yitong - LIU, Xinlu -
OUYANG, Jia. Simultaneously separation of xylo-oligosaccharide and
lignosulfonate from wheat straw magnesium bisulfite pretreatment spent liquor
using ion exchange resin. In BIORESOURCE TECHNOLOGY. ISSN
0960-8524, 2018, vol. 249, no., pp. 189-195., Registrované v: WOS

44. [1.1] LI, Fangbing - WANG, Hui - XIN, Huaxia - CAI, Jianfeng - FU,
Qing - JIN, Yu. Development, validation and application of a hydrophilic
interaction liquid chromatography-evaporative light scattering detection based
method for process control of hydrolysis of xylans obtained from different
agricultural wastes. In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 212,
no., pp. 155-161., Registrované v: WOS

45. [1.1] LUCIANO SILVEIRA, Marcos Henrique - MORAIS, Ana Rita
C. - DA COSTA LOPES, Andre M. - OLEKSZYSZEN, Drielly Nayara -
BOGEL-LUKASIK, Rafal - ANDREAUS, Juergen - RAMOS, Luiz Pereira.
Current Pretreatment Technologies for the Development of Cellulosic Ethanol
and Biorefineries. In CHEMSUSCHEM. ISSN 1864-5631, 2015, vol. 8, no. 20,
pp. 3366-3390., Registrované v: WOS

46. [1.1] MENEZES, Bruna da Silva - ROSSI, Daniele Misturini -
ZACHIA AYUB, Marco Antonio. Screening of filamentous fungi to produce
xylanase and xylooligosaccharides in submerged and solid-state cultivations on
rice husk, soybean hull, and spent malt as substrates. In WORLD JOURNAL OF
MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2017, vol. 33, no.
3, pp., Registrované v: WOS

47. [1.1] MENEZES, Bruna da Silva - ROSSI, Daniele Misturini -
SQUINA, Fabio - ZACHIA AYUB, Marco Antonio. Comparative production of
xylanase and the liberation of xylooligosaccharides from lignocellulosic biomass
by *Aspergillus brasiliensis* BLf1 and recombinant *Aspergillus nidulans* XynC
A773. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND
TECHNOLOGY. ISSN 0950-5423, 2018, vol. 53, no. 9, pp. 2110-2118.,
Registrované v: WOS

48. [1.1] MICHELIN, Michele - TEIXEIRA, Jose Antonio. Liquid hot
water pretreatment of multi feedstocks and enzymatic hydrolysis of solids
obtained thereof. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016,
vol. 216, no., pp. 862-869., Registrované v: WOS

49. [1.1] MICHELIN, Michele - LIEBENTRITT, Simon - VICENTE,
Antonio A. - TEIXEIRA, Jose Antonio. Lignin from an integrated process
consisting of liquid hot water and ethanol organosolv: Physicochemical and
antioxidant properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL

MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 159-169.,
Registrované v: WOS

50. [1.1] MONIZ, Patricia - LINO, Joao - DUARTE, Luis C. - ROSEIRO, Luisa B. - BOERIU, Carmen G. - PEREIRA, Helena - CARVALHEIRO, Florbela. Fractionation of Hemicelluloses and Lignin from Rice Straw by Combining Autohydrolysis and Optimised Mild Organosolv Delignification. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 2, pp. 2626-2641.,
Registrované v: WOS

51. [1.1] NACHAIWIENG, Woottichai - LUMYONG, Saisamorn - YOSHIOKA, Koichi - WATANABE, Takashi - KHANONGNUCH, Chartchai. Bioethanol production from rice husk under elevated temperature simultaneous saccharification and fermentation using *Kluyveromyces marxianus* CK8. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2015, vol. 4, no. 4, pp. 543-549., Registrované v: WOS

52. [1.1] NANSSOU, Paul Alain Kouteu - NONO, Yvette Jiokap - KAPSEU, Cesar. Pretreatment of cassava stems and peelings by thermohydrolysis to enhance hydrolysis yield of cellulose in bioethanol production process. In RENEWABLE ENERGY. ISSN 0960-1481, 2016, vol. 97, no., pp. 252-265., Registrované v: WOS

53. [1.1] PANOVIC, Isabella - LANCEFIELD, Christopher S. - PHILLIPS, Darren - GRONNOW, Mark J. - WESTWOOD, Nicholas J. Selective Primary Alcohol Oxidation of Lignin Streams from Butanol-Pretreated Agricultural Waste Biomass. In CHEMSUSCHEM. ISSN 1864-5631, 2019, vol. 12, no. 2, pp. 542-548., Registrované v: WOS

54. [1.1] RAZALI, Siti Aisyah - SHAMSIR, Mohd Shahir. Characterisation of a catalytic triad and reaction selectivity in the dual mechanism of the catalyse hydride transfer in xylitol phosphate dehydrogenase. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2020, vol. 97, no., pp. Dostupné na:
<https://doi.org/10.1016/j.jmngm.2020.107548>., Registrované v: WOS

55. [1.1] REN, Jiwei - LIU, Lei - XU, Qianqian - LI, Xin - YONG, Qiang - OUYANG, Jia. Comparative Evaluation of Magnesium Bisulfite Pretreatment under Different pH Values for Enzymatic Hydrolysis of Corn Stover. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 3, pp. 7258-7270.,
Registrované v: WOS

56. [1.1] REN, Jiwei - LIU, Lei - ZHOU, Jie - LI, Xin - OUYANG, Jia. Co-production of ethanol, xylo-oligosaccharides and magnesium lignosulfonate from wheat straw by a controlled magnesium bisulfite pretreatment (MBSP). In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 113, no., pp. 128-134., Registrované v: WOS

57. [1.1] RICO, Xiana - GULLON, Beatriz - LUIS ALONSO, Jose - CARLOS PARAJO, Juan - YANEZ, Remedios. Valorization of peanut shells: Manufacture of bioactive oligosaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 183, no., pp. 21-28., Registrované v: WOS

58. [1.1] RINCON, Esther - ZULIANI, Alessio - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco - LUQUE, Rafael - SERRANO, Luis - BALU, Alina M. Combined Extraction/Purification-Catalytic Microwave-Assisted Conversion of *Laurus nobilis* L. Pruning Waste Polysaccharides into Methyl Levulinate. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 29, pp. 11016-11023.

Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c04161>., Registrované v: WOS

59. [1.1] SABIHA-HANIM, Saleh - NOOR, Mohd Azemi Mohd - ROSMA, Ahmad. Fractionation of oil palm frond hemicelluloses by water or alkaline impregnation and steam explosion. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 533-539., Registrované v: WOS
60. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa* Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS
61. [1.1] SAMALA, Aditya - SRINIVASAN, Radhakrishnan - YADAV, Madhav. Comparison of xylo-oligosaccharides production by autohydrolysis of fibers separated from ground corn flour and DDGS. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2015, vol. 94, no., pp. 354-364., Registrované v: WOS
62. [1.1] SHAO, Hui - HU, Yu - SUN, Hui - YANG, Biao - FAN, Baomin - ZHANG, Huijuan. Response Surface Optimization of Alkali Extraction and Characterization of Poplar Hemicellulose. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 2, pp. 3844-3859., Registrované v: WOS
63. [1.1] SINGH, Sudhir P. - JADAUN, Jyoti Singh - NARNOLIYA, Lokesh K. - PANDEY, Ashok. Prebiotic Oligosaccharides: Special Focus on Fructooligosaccharides, Its Biosynthesis and Bioactivity. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 2, pp. 613-635., Registrované v: WOS
64. [1.1] SOPHONPUTTANAPHOCA, Supaporn - PRIDAM, Chanoknun - CHINNAK, Jiraporn - NATHONG, Mintita - JUNTIPWONG, Preeyaporn. Production of non-digestible oligosaccharides as value-added by-products from rice straw. In Agriculture and Natural Resources. ISSN 2452316X, 2018-04-01, 52, 2, pp. 169-175., Registrované v: WOS
65. [1.1] SOUSA LIMA, Diego Roberto - HERRERA ADARME, Oscar Fernando - LOBO BAETA, Bruno Eduardo - ALVES GURGEL, Leandro Vinicius - DE AQUINO, Sergio Francisco. Influence of different thermal pretreatments and inoculum selection on the biomethanation of sugarcane bagasse by solid-state anaerobic digestion: A kinetic analysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 684-693., Registrované v: WOS
66. [1.1] SUREK, Ece - BUYUKKILECI, Ali Oguz. Production of xylooligosaccharides by autohydrolysis of hazelnut (*Corylus avellana* L.) shell. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 565-571., Registrované v: WOS
67. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Rapeseed straw as a renewable source of hemicelluloses: Extraction, characterization and film formation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 179-186., Registrované v: WOS
68. [1.1] THANI, Nurfatimah Mohd - KAMAL, Siti Mazlina Mustapa - TAIP, Farah Saleena - SULAIMAN, Alifdalino - OMAR, Rozita. Effect of

sub-critical water hydrolysis on sugar recovery from bakery leftovers. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2019, vol. 117, no., pp. 105-112., Registrované v: WOS

69. [1.1] THANI, Nurfatimah Mohd - KAMAL, Siti Mazlina Mustapa - SULAIMAN, Alifdalino - TAIP, Farah Saleena - OMAR, Rozita - IZHAR, Shamsul. Sugar Recovery from Food Waste via Sub-critical Water Treatment. In *FOOD REVIEWS INTERNATIONAL*. ISSN 8755-9129, 2020, vol. 36, no. 3, pp. 241-257., Registrované v: WOS

70. [1.1] THANI, Nurfatimah Mohd - KAMAL, Siti Mazlina Mustapa - SULAIMAN, Alifdalino - TAIP, Farah Saleena - OMAR, Rozita - IZHAR, Shamsul. Sugar Recovery from Food Waste via Sub-critical Water Treatment. In *FOOD REVIEWS INTERNATIONAL*. ISSN 8755-9129, 2020, vol. 36, no. 3, pp. 241-257. Dostupné na: <https://doi.org/10.1080/87559129.2019.1636815>., Registrované v: WOS

71. [1.1] VALLEJOS, Maria E. - FELISSIA, Fernando E. - AREA, Maria C. Hydrothermal Treatments Applied to Agro- and Forest-Industrial Waste to Produce High Added-Value Compounds. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 2058-2080., Registrované v: WOS

72. [1.1] WANG, Xiaodi - HOU, Qingxi - ZHANG, Xin - ZHANG, Yongchao - LIU, Wei - XU, Chunlin - ZHANG, Fangdong. Color evolution of poplar wood chips and its response to lignin and extractives changes in autohydrolysis pretreatment. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 673-679. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.224>., Registrované v: WOS

73. [1.1] WANG, Xiaojun - ZHUANG, Jingshun - JIANG, Jungang - FU, Yingjuan - QIN, Menghua - WANG, Zhaojiang. Separation and purification of hemicellulose-derived saccharides from wood hydrolysate by combined process. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2015, vol. 196, no., pp. 426-430., Registrované v: WOS

74. [1.1] WANG, Zhaojiang - WANG, Xiaojun - JIANG, Jungang - FU, Yingjuan - QIN, Menghua. Fractionation and characterization of saccharides and lignin components in wood prehydrolysis liquor from dissolving pulp production. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 126, no., pp. 185-191., Registrované v: WOS

75. [1.1] WU, Chaojun. The Potential of Pre-Hydrolysis Liquor from the Dissolving Pulp Process as Recovery Source of Xylooligosaccharide A Mini-Review. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 3, pp. 7917-7927., Registrované v: WOS

76. [1.1] XIAO, Xiao - WANG, Chen-Zhou - BIAN, Jing - SUN, Run-Cang. Optimization of bamboo autohydrolysis for the production of xylo-oligosaccharides using response surface methodology. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 128, pp. 106219-106226., Registrované v: WOS

77. [1.1] XU, Xin - LIU, Mingqi - DAI, Xianjun. Expression of Recombinant *Bacillus amyloliquefaciens* Xylanase A in *Escherichia coli* and Potential Application in Xylan Hydrolysis. In *BIORESOURCES*. ISSN 1930-2126, 2015, vol. 10, no. 3, pp. 4694-4710., Registrované v: WOS

78. [1.1] YAN, Jipeng - LIU, Shijie. Hot Water Pretreatment of Boreal Aspen Woodchips in a Pilot Scale Digester. In *ENERGIES*. ISSN 1996-1073,

- 2015, vol. 8, no. 2, pp. 1166-1180., Registrované v: WOS
79. [1.1] YU, Heng - REN, Jiwei - LIU, Lei - ZHENG, Zhaojuan - ZHU, Junjun - YONG, Qiang - OUYANG, Jia. A new magnesium bisulfite pretreatment (MBSP) development for bio-ethanol production from corn stover. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 199, no., pp. 188-193., Registrované v: WOS
80. [1.1] ZHANG, He - BRACE, Emma C. - ENGELBERTH, Abigail S. Selection of a nonaqueous two-phase solvent system for fractionation of xylo-oligosaccharide prebiotics using a conductor-like screening model for real solvents. In JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES. ISSN 1082-6076, 2016, vol. 39, no. 14, pp. 666-673., Registrované v: WOS
81. [1.1] ZHANG, Hongyu - ZHOU, Xuelian - XU, Yong - YU, Shiyuan. Production of Xylooligosaccharides from Waste Xylan, Obtained from Viscose Fiber Processing, by Selective Hydrolysis Using Concentrated Acetic Acid. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 1, pp. 1-9., Registrované v: WOS
82. [1.1] ZHANG, ChunYan - SU, XiaoJun - XIONG, XingYao - HU, QiuLong - AMARTEY, Samuel - TAN, XingHe - QIN, Wensheng. Co-60-gamma radiation-induced changes in the physical and chemical properties of rapeseed straw. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2016, vol. 85, no., pp. 207-214., Registrované v: WOS
83. [1.1] ZHANG, Yuedong - YU, Guang - LI, Bin - MU, Xindong - PENG, Hui - WANG, Haisong. Hemicellulose isolation, characterization, and the production of xylo-oligosaccharides from the wastewater of a viscose fiber mill. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 141, no., pp. 238-243., Registrované v: WOS
84. [1.1] ZHENG, Fengzhen - SONG, Lina - BASIT, Abdul - LIU, Junquan - MIAO, Ting - WEN, Jiaqi - CAO, Yunhe - JIANG, Wei. An endoxylanase rapidly hydrolyzes xylan into major product xylobiose via transglycosylation of xylose to xylotriose or xylotetraose. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 237, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116121>., Registrované v: WOS
85. [1.1] ZHOU, Peixia - LIU, Changsheng - WANG, Wenya - WANG, Fang - NIE, Kaili - DENG, Li. The Effectively Simultaneous Production of Cello-oligosaccharide and Glucose Mono-decanoate from Lignocellulose by Enzymatic Esterification. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 192, no. 2, pp. 600-615. Dostupné na: <https://doi.org/10.1007/s12010-020-03356-0>., Registrované v: WOS
86. [1.2] ACOSTA, Rolando - SANABRIA, Javier - NABARLATZ, Debora. Biomass from colombian agroindustrial activities: Characterization and potential for oligosaccharides production. In Chemical Engineering Transactions, 2018-01-01, 65, pp. 667-672., Registrované v: SCOPUS
87. [1.2] CUEVAS, Manuel - SÁNCHEZ, Sebastián - GARCÍA, Juan Francisco. Thermochemical and biochemical conversion of olive stones. In Agricultural Wastes: Characteristics, Types and Management, 2015-04-01, pp. 61-85., Registrované v: SCOPUS
88. [1.2] DE FREITAS, Caroline - CARMONA, Eleonora - BRIENZO, Michel. Xylooligosaccharides production process from lignocellulosic biomass

- and bioactive effects. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2019-04-01, 18, pp., Registrované v: SCOPUS
89. [1.2] GÓMEZ, Belén - MÍGUEZ, Beatriz - YÁÑEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In *Water Extraction of Bioactive Compounds: From Plants to Drug Development*, 2017-09-22, pp. 131-161., Registrované v: SCOPUS
90. [1.2] CHEN, Lily - KARBOUNE, Salwa. Prebiotics in food and health: Properties, functionalities, production, and overcoming limitations with second-generation levan-type fructooligosaccharides. In *Encyclopedia of Food Chemistry*, 2018-01-01, pp. 271-279., Registrované v: SCOPUS
91. [1.2] LI, Lijun - CHENG, Wenjia - MENG, Lingyan - WANG, Bo - XU, Feng - ZHANG, Xueming. Separation Efficiency of Hemicelluloses from Cotton Stalk Treated with Novel Complete Dissolution Systems. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2019-06-01, 38, 6, pp. 33-40., Registrované v: SCOPUS
92. [1.2] NACHAIWIENG, Woottichai - LUMYONG, Saisamorn - PRATANAPHON, Ronachai - YOSHIOKA, Koichi - KHANONGNUCH, Chartchai. Potential in bioethanol production from various ethanol fermenting microorganisms using rice husk as substrate. In *Biodiversitas*. ISSN 1412033X, 2015-01-01, 16, 2, pp. 320-326., Registrované v: SCOPUS
93. [1.2] PUROHIT, Anjali - RAI, Shushil Kumar - CHOWNK, Manisha - SANGWAN, Rajender Singh - YADAV, Sudesh Kumar. Xylanase from *Acinetobacter pittii* MASK 25 and developed magnetic cross-linked xylanase aggregate produce predominantly xylopentose and xylohexose from agro biomass. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 244, no., pp. 793-799., Registrované v: WOS
94. [1.2] RAFIQUL, I. S.M. - SAKINAH, A. M.M. - ZULARISAM, A. W. Hydrolysis of lignocellulosic biomass for recovering hemicellulose: State of the art. In *Waste Biomass Management A Holistic Approach*, 2017-01-01, pp. 73-106., Registrované v: SCOPUS
95. [1.2] SAMANTA, A. K. - JAYAPAL, Natasha - JAYARAM, C. - ROY, Sohini - KOLTE, A. P. - SENANI, S. - SRIDHAR, Manpal. Xylooligosaccharides as prebiotics from agricultural by-products: Production and applications. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2015-01-01, 5, 1, pp. 62-71., Registrované v: SCOPUS
96. [1.2] SILVEIRA, Marcos Henrique Luciano - CHANDEL, Anuj Kumar - VANELLI, Bruno Angelo - SACILOTTO, Karina Spagnol - CARDOSO, Eliano Brito. Production of hemicellulosic sugars from sugarcane bagasse via steam explosion employing industrially feasible conditions: Pilot scale study. In *Bioresource Technology Reports*, 2018-09-01, 3, pp. 138-146., Registrované v: SCOPUS
97. [1.2] WANG, Xiaoyu - LIU, Weina - XIE, Xiangming - YAO, Bin - LUO, Huiying. A highly active GH11 xylanase from *Penicillium* sp. L1 with potential applications in xylo-oligosaccharide production. In *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology*. ISSN 10003061, 2018-01-25, 34, 1, pp. 68-77., Registrované v: SCOPUS
98. [1.2] ZHANG, Lan Jun - ZHANG, Bao Cai - ZHOU, Yi Hua. Progress on polysaccharide acetylation in plant cell wall. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2018-08-20, 54, 8, pp.

1272-1278., Registrované v: SCOPUS

99. [1.2] ZHU, Ning - SHI, Haiqiang - CAO, Nan - XIONG, Xuedong - NIU, Meihong - PING, Qingwei. Isolation of hemicelluloses from acacia wood with hydrothermal prehydrolysis and its characterization of structure and component. In *Huagong Xuebao/CIESC Journal*. ISSN 04381157, 2016-06-01, 67, 6, pp. 2605-2611., Registrované v: SCOPUS

ADCA942 NAGY, T. - NURIZZO, D. - DAVIES, G.J. - BIELY, Peter - LAKEY, J.H. - BOLAM, D.N. - GILBERT, H.J. The α -glucuronidase, GlcA67A, of *Cellvibrio japonicus* utilizes the carboxylate and methyl groups of aldobiouronic acid as important substrate recognition determinants. In *Journal of Biological Chemistry*, 2003, vol. 278, p. 20286-20292. (2002: 6.696 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M302205200>

Ohlasy:

1. [1.1] GARDNER, Jeffrey G. Polysaccharide degradation systems of the saprophytic bacterium *Cellvibrio japonicus*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2016, vol. 32, no. 7, pp., Registrované v: WOS

2. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 α -glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS

3. [1.1] SAWHNEY, Neha - CROOKS, Casey - JOHN, Franz St. - PRESTON, James F. Transcriptomic Analysis of Xylan Utilization Systems in *Paenibacillus* sp Strain JDR-2. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 4, pp. 1490-1501., Registrované v: WOS

4. [1.1] SEPTININGRUM, Krisna - OHI, Hiroshi - WAEONUKUL, Rattiya - PASON, Patthra - TACHAAPAIKON, Chakrit - RATANAKHANOKCHAI, Khanok - SERMSATHANASWADI, Junjarus - DENG, Lan - PRAWITWONG, Panida - KOSUGI, Akihiko. The GH67 α -glucuronidase of *Paenibacillus curdlanolyticus* B-6 removes hexenuronic acid groups and facilitates biodegradation of the model xylooligosaccharide hexenuronosyl xylotriose. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 71, no., pp. 28-35., Registrované v: WOS

5. [1.1] THAPA, Santosh - MISHRA, Jitendra - ARORA, Naveen - MISHRA, Priya - LI, Hui - O'HAIR, Joshua - BHATTI, Sarabjit - ZHOU, Suping. Microbial cellulolytic enzymes: diversity and biotechnology with reference to lignocellulosic biomass degradation. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2020, vol. 19, no. 3, pp. 621-648. Dostupné na:

<https://doi.org/10.1007/s11157-020-09536-y>, Registrované v: WOS

6. [1.1] TRYFONA, Theodora - SORIEUL, Mathias - FEIJAO, Carolina - STOTT, Katherine - RUBTSOV, Denis V. - ANDERS, Nadine - DUPREE, Paul. Development of an oligosaccharide library to characterise the structural variation in glucuronoarabinoxylan in the cell walls of vegetative tissues in grasses. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2019, vol.

12, no., pp., Registrované v: WOS

7. [1.1] ULAGANATHAN, Kandasamy - GOUD, Burragoni S. - REDDY, Mettu M. - KUMAR, Vanaparthi P. - BALSINGH, Jatoth - RADHAKRISHNA, Surabhi. Proteins for Breaking Barriers in Lignocellulosic Bioethanol Production. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2015, vol. 16, no. 2, pp. 100-134., Registrované v: WOS

8. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioproducts. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v: WOS

9. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase from *Bacillus halodurans* C-125. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS

10. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In Fungal Enzymes, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

11. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In Hemicelluloses and Lignin in Biorefineries (CRC Press, pp. 1-308), Registrované v: SCOPUS

12. [3.2] Group Author(s). Uniprot Consortium. B3PC73. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/B3PC73>, Registrované v: Data Citation Index

13. [3.2] Group Author(s). Uniprot Consortium. B3PC73. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/B3PC73>, Registrované v: Data Citation Index

ADCA943 NAGY, Veronika - FELFOLDI, Nóra - KÓNYA, Bálint - PRALY, Jean-Pierre - DOCSA, Tibor - GERGELY, Pál - CHRYSINA, Evangelia G. - TIRAIDIS, Costas - KOSMOPOULOU, Magda N. - ALEXACOU, Kyra-Melinda - KONSTANTAKAKI, Maria - LEONIDAS, Dametres D. - ZOGRAPHS, Spyros E. - OIKONOMAKOS, Nikos G. - KOZMON, Stanislav - TVAROŠKA, Igor - SOMSÁK, László. N-(4-substituted-benzoyl)-N'-(β -D-glucopyranosyl) ureas as inhibitors of glycogen phosphorylase: Synthesis and evaluation by kinetic, crystallographic, and molecular modelling methods. In *Bioorganic & Medicinal Chemistry*, 2012, vol. 20, p. 1801-1816. (2011: 2.921 - IF, Q2 - JCR, 1.137 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0968-0896. Dostupné na: <https://doi.org/10.1016/j.bmc.2011.12.059>

Ohlasy:

1. [1.1] PALASZ, Aleksandra - CIEZ, Dariusz - TRZEWIK, Bartosz - MISZCZAK, Katarzyna - TYNOR, Grzegorz - BAZAN, Bartłomiej. In the Search of Glycoside-Based Molecules as Antidiabetic Agents. In TOPICS IN CURRENT CHEMISTRY. ISSN 2365-0869, 2019, vol. 377, no. 4, pp., Registrované v: WOS

2. [1.1] PSYKARAKIS, Emmanuel E. - CHATZOPOULOU, Elli -

GIMISIS, Thanasis. First characterisation of two important postulated intermediates in the formation of a HydT DNA lesion, a thymidine oxidation product. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 13, pp. 2289-2300., Registrované v: WOS

3. [1.2] EL-AMEEN, Nahid Mahmoud Hassan - TAHA, Manal Mohamed Elhassan - ABDELWAHAB, Siddig Ibrahim - KHALID, Asaad - ELFATIH, Fatima - KAMEL, Mona Awad - SHEIKH, Bassem Yousif. Anti-diabetic properties of Thymoquinone is unassociated with glycogen phosphorylase inhibition. In Pharmacognosy Journal, 2015-01-01, 7, 6, pp. 406-410., Registrované v: SCOPUS

ADCA944 NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - HRABÁROVÁ, Eva. A crosslinked inclusion body process for sialic acid synthesis. In *Journal of Biotechnology*, 2008, vol. 134, p. 146-153. (2007: 2.565 - IF, Q2 - JCR, 1.133 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2008.01.014>

Ohlasy:

1. [1.1] ARAGON, Caio C. - PALOMO, Jose M. - FILICE, Marco - MATEO, Cesar. Immobilization of Aldolase for C-C Bond Formation. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2016, vol. 20, no. 11, pp. 1243-1251., Registrované v: WOS

2. [1.1] BLOEMENDAL, Victor R. L. J. - MOONS, Sam J. - HEMING, Jurriaan J. A. - CHAYOUA, Mohamed - NIESINK, Olaf - VAN HEST, Jan C. M. - BOLTJE, Thomas J. - RUTJES, Floris P. J. T. Chemoenzymatic Synthesis of Sialic Acid Derivatives Using Immobilized N-Acetylneuraminase Lyase in a Continuous Flow Reactor. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2019, vol. 361, no. 11, pp. 2443-2447., Registrované v: WOS

3. [1.1] CAMPBELL, Eleanor C. - GRANT, Jacob - WANG, Yi - SANDHU, Mahakaran - WILLIAMS, Richard J. - NISBET, David R. - PERRIMAN, Adam W. - LUPTON, David W. - JACKSON, Colin J. Hydrogel-Immobilized Supercharged Proteins. In ADVANCED BIOSYSTEMS, 2018, vol. 2, no. 7, pp., Registrované v: WOS

4. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS, Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVERDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In FEMS MICROBIOLOGY REVIEWS. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS

5. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS

6. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS

7. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for

biotechnology-general concepts, optimization, and application. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na:

<https://doi.org/10.1007/s00253-020-10760-3>., Registrované v: WOS

8. [1.1] JAEGER, Vera D. - PIQUERAY, Maja - SEIDE, Selina - POHL, Martina - WIECHERT, Wolfgang - JAEGER, Karl-Erich - KRAUSS, Ulrich. An Enzymatic 2-Step Cofactor and Co-Product Recycling Cascade towards a Chiral 1,2-Diol. Part II: Catalytically Active Inclusion Bodies. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2019, vol. 361, no. 11, pp. 2616-2626., Registrované v: WOS

9. [1.1] JIANG, Li - XIAO, Wenjun - ZHOU, Xuan - WANG, Weiyu - FAN, Jun. Comparative study of the insoluble and soluble Ulp1 protease constructs as Carrier free and dependent protein immobilizates. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 127, no. 1, pp. 23-29., Registrované v: WOS

10. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from E. coli for 1,5-diaminopentane production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

11. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS

12. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS

13. [1.1] MESTROM, Luuk - MARSDEN, Stefan R. - MCMILLAN, Duncan G. G. - SCHOEVAART, Rob - HAGEDOORN, Peter-Leon - HANEFELD, Ulf. Comparison of Enzymes Immobilised on Immobeads and Inclusion Bodies: A Case Study of a Trehalose Transferase. In CHEMCATCHER. ISSN 1867-3880, 2020, vol. 12, no. 12, pp. 3249-3256. Dostupné na: <https://doi.org/10.1002/cctc.202000241>., Registrované v: WOS

14. [1.1] MIKL, Markus - DENNIG, Alexander - NIDETZKY, Bernd. Efficient enzyme formulation promotes Leloir glycosyltransferases for glycoside synthesis. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2020, vol. 322, no., pp. 74-78. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.06.023>., Registrované v: WOS

15. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa - RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane - SCHWARTZ, Simo - VILLAYERDE, Antonio - LUIS CORCHERO, Jose. A novel bio-functional material based on mammalian cell aggresomes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 17, pp. 7079-7088., Registrované v: WOS

16. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant

- Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* B121(DE3) and characterization by FT-IR Spectroscopy. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>., Registrované v: WOS
17. [1.1] SLOUKA, Christoph - KOPP, Julian - SPADIUT, Oliver - HERWIG, Christoph. Perspectives of inclusion bodies for bio-based products: curse or blessing? In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 3, pp. 1143-1153., Registrované v: WOS
18. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
19. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis - SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein aggregates: just the tip of the iceberg. In *NANOMEDICINE*. ISSN 1743-5889, 2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS
20. [1.1] WANG, Zhenfu - ZHUANG, Wei - CHENG, Jian - SUN, Wujin - WU, Jinglan - CHEN, Yong - YING, Hanjie. In Vivo Multienzyme Complex Coconstruction of N-Acetylneuraminic Acid Lyase and N-Acetylglucosamine-2-epimerase for Biosynthesis of N-Acetylneuraminic Acid. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 34, pp. 7467-7475., Registrované v: WOS

ADCA945 NAHÁLKA, Jozef - GEMEINER, Peter - BUČKO, Marek - WANG, P.G. Bioenergy beads: A tool for regeneration of ATP/NTP in biocatalytic synthesis. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2006, vol. 34, p. 515-521. (2005: 0.686 - IF, Q4 - JCR). ISSN 1073-1199. Dostupné na: <https://doi.org/10.1080/10731190600862886>

Ohlasy:

1. [1.1] ANDEXER, Jennifer N. - RICHTER, Michael. Emerging Enzymes for ATP Regeneration in Biocatalytic Processes. In *CHEMBIOCHEM*. ISSN 1439-4227, 2015, vol. 16, no. 3, pp. 380-386., Registrované v: WOS
2. [1.1] CAMPBELL, Eleanor C. - GRANT, Jacob - WANG, Yi - SANDHU, Mahakaran - WILLIAMS, Richard J. - NISBET, David R. - PERRIMAN, Adam W. - LUPTON, David W. - JACKSON, Colin J. Hydrogel-Immobilized Supercharged Proteins. In *ADVANCED BIOSYSTEMS*, 2018, vol. 2, no. 7, pp., Registrované v: WOS
3. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>., Registrované v: WOS
4. [1.1] KRAUSER, Steffen - HOFFMANN, Thomas - HEINZLE, Elmar. Directed Multistep Biocatalysis for the Synthesis of the Polyketide Oxytetracycline in Permeabilized Cells of *Escherichia coli*. In *ACS*

CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 3, pp. 1407-1413.,
Registrované v: WOS

5. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin -
POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies
Carrier-free protein immobilizates for application in biotechnology and
biomedicine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017,
vol. 258, no., pp. 136-147., Registrované v: WOS

6. [1.1] LIANG, Mingzhi - FRANK, Stefanie - LUENSDORF, Heinrich
- WARREN, Martin J. u - PRENTICE, Michael B. Bacterial
microcompartment-directed polyphosphate kinase promotes stable polyphosphate
accumulation in E. coli. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768,
2017, vol. 12, no. 3, pp., Registrované v: WOS

7. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round
we go strategies for enzymatic cofactor regeneration. In NATURAL PRODUCT
REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na:
<https://doi.org/10.1039/d0np00004c>., Registrované v: WOS

8. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian
- GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J.
- HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. -
GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER,
Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by
ligand-bound polyphosphate kinase 2 structures. In PROCEEDINGS OF THE
NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 13, pp. 3350-3355.,
Registrované v: WOS

9. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa -
RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane -
SCHWARTZ, Simo - VILLAVERDE, Antonio - LUIS CORCHERO, Jose. A
novel bio-functional material based on mammalian cell aggresomes. In APPLIED
MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99,
no. 17, pp. 7079-7088., Registrované v: WOS

10. [1.1] SERAS-FRANZOSO, Joaquin - PETERNEL, Spela -
CANO-GARRIDO, Olivia - VILLAVERDE, Antonio - GARCIA-FRUITOS,
Elena. Bacterial Inclusion Body Purification. In INSOLUBLE PROTEINS:
METHODS AND PROTOCOLS. ISSN 1064-3745, 2015, vol. 1258, no., pp.
293-305., Registrované v: WOS

11. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis -
SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein
aggregates: just the tip of the iceberg. In NANOMEDICINE. ISSN 1743-5889,
2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS

ADCA946 NAHÁLKA, Jozef - NAHALKOVA, Jarmila - GEMEINER, Peter -
BLANÁRIK, P. Elicitation and plumbagin release to the medium bz chitin in
Drosophyllum lusitanicum Link. suspension culture. In *Biotechnology Letters*, 1998,
vol. 20, p. 841-845. ISSN 0141-5492. Dostupné na:
<https://doi.org/10.1023/A:1005307408135>

Ohlasy:

1. [1.1] BADWAIK, Hemant Ramchandra - KUMARI, Leena -
NAKHATE, Kartik - VERMA, Vinay Sagar - SAKURE, Kalyani.
Phytoconstituent plumbagin: Chemical, biotechnological and pharmaceutical

- aspects. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY: BIOACTIVE NATURAL PRODUCTS*, VOL 63. ISSN 1572-5995, 2019, vol. 63, no., pp. 415-460., Registrované v: WOS
2. [1.1] DEEPHI, S. - SATHEESHKUMAR, K. Cell line selection combined with jasmonic acid elicitation enhance camptothecin production in cell suspension cultures of *Ophiorrhiza mungos* L. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 2, pp. 545-558., Registrované v: WOS
 3. [1.1] DEVI, Soibam Purnima - KUMARIA, Suman - RAO, Satyawada Rama - TANDON, Pramod. Carnivorous Plants as a Source of Potent Bioactive Compound: Naphthoquinones. In *TROPICAL PLANT BIOLOGY*. ISSN 1935-9756, 2016, vol. 9, no. 4, pp. 267-279., Registrované v: WOS
 4. [1.1] ELLISON, Aaron M. - ADAMEC, Lubomir. Carnivorous Plants Physiology, ecology, and evolution Preface. In *CARNIVOROUS PLANTS: PHYSIOLOGY, ECOLOGY, AND EVOLUTION*, 2018, vol., no., pp. XXIII-+., Registrované v: WOS
 5. [1.1] JAISI, Amit - PANICHAYUPAKARANANT, Pharkphoom. Enhanced plumbagin production in *Plumbago indica* root culture by simultaneous and sequential dual elicitations using chitosan with L-alanine and methyl-beta-cyclodextrin. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-0298-9>., Registrované v: WOS
 6. [1.1] LEI, Ming - HUANG, Weian - SUN, Jinsheng - SHAO, Zixuan - WU, Tongliang - LIU, Junyi - FAN, Yu. Synthesis of carboxymethyl chitosan as an eco-friendly amphoteric shale inhibitor in water-based drilling fluid and an assessment of its inhibition mechanism. In *APPLIED CLAY SCIENCE*. ISSN 0169-1317, 2020, vol. 193, no., pp. Dostupné na: <https://doi.org/10.1016/j.clay.2020.105637>., Registrované v: WOS
 7. [1.1] LIMA MEDEIROS BORSAGLI, Fernanda Guerra - BORSAGLI, Alessandro. Chemically Modified Chitosan Bio-Sorbents for the Competitive Complexation of Heavy Metals Ions: A Potential Model for the Treatment of Wastewaters and Industrial Spills. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2019, vol. 27, no. 7, pp. 1542-1556., Registrované v: WOS
 8. [1.1] MEDEIROS BORSAGLI, Fernanda G. L. - DE SOUZA, Ana Julia M. - PAIVA, Aislan E. Ecofriendly multifunctional thiolated carboxymethyl chitosan-based 3D scaffolds with luminescent properties for skin repair and theragnostic of tissue regeneration. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 3051-3064. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.186>., Registrované v: WOS
 9. [1.1] WIDHALM, Joshua R. - RHODES, David. Biosynthesis and molecular actions of specialized 1,4-naphthoquinone natural products produced by horticultural plants. In *HORTICULTURE RESEARCH*. ISSN 2052-7276, 2016, vol. 3, no., pp., Registrované v: WOS

ADCA947 NAHÁLKA, Jozef - DIB, I. - NIDETZKY, B. Encapsulation of *Trigonopsis variabilis* D-amino acid oxidase and fast comparison of the operational stabilities of free and immobilized preparations of the enzyme. In *Biotechnology and*

Bioengineering, 2008, vol. 99, p. 251-260. (2007: 3.037 - IF, Q2 - JCR, 1.363 - SJR, Q1 - SJR). ISSN 0006-3592. Dostupné na: <https://doi.org/10.1002/bit>

Ohlasy:

1. [1.1] JIANG, Wei - YANG, Ruonan - LIN, Peng - HONG, Wenjing - FANG, Baishan. Bioinspired genetic engineering of supramolecular assembled formate dehydrogenase with enhanced biocatalysis activities. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2019, vol. 292, no., pp. 50-56., Registrované v: WOS
2. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
3. [1.1] MAHOU, Redouan - PASSEMARD, Solene - CARVELLO, Michele - PETRELLI, Alessandra - NOVERRAZ, Francois - GERBER-LEMAIRE, Sandrine - WANDREY, Christine. Contribution of polymeric materials to progress in xenotransplantation of microencapsulated cells: a review. In *XENOTRANSPLANTATION*. ISSN 0908-665X, 2016, vol. 23, no. 3, pp. 179-201., Registrované v: WOS
4. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa - RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane - SCHWARTZ, Simo - VILLAVARDE, Antonio - LUIS CORCHERO, Jose. A novel bio-functional material based on mammalian cell aggresomes. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 17, pp. 7079-7088., Registrované v: WOS
5. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVARDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
6. [1.1] WU, Fang - WANG, Wei - LIU, Li - JU, Xiao-Jie - XIE, Rui - LIU, Zhuang - CHU, Liang-Yin. Monodisperse hybrid microcapsules with an ultrathin shell of submicron thickness for rapid enzyme reactions. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2015, vol. 3, no. 5, pp. 796-803., Registrované v: WOS
7. [1.1] ZHANG, Qilei - LIN, Dongqiang - YAO, Shanjing. Review on biomedical and bioengineering applications of cellulose sulfate. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 132, no., pp. 311-322., Registrované v: WOS
8. [1.2] NAGATOMO, Naoyuki - YOSHIMOTO, Makoto. High Permeability of Polyunsaturated Lipid Bilayers As Applied to Attoliter Enzyme Reactors. In *ACS Applied Bio Materials*, 2019-06-17, 2, 6, pp. 2453-2463., Registrované v: SCOPUS
9. [1.2] PEČAR, D. - VASIĆ-RAČKI, D. - VRSALLOVIĆ PRESEČKI, A. Immobilization of glucose oxidase on Eupergit C: Impact of aeration, kinetic and operational stability studies of free and immobilized enzyme. In *Chemical and Biochemical Engineering Quarterly*. ISSN 03529568, 2018-01-01, 32, 4, pp. 511-522., Registrované v: SCOPUS

ADCA948 NAHÁLKA, Jozef - PÄTOPRSTÝ, Vladimír. Enzymatic synthesis of sialylation substrates powered by a novel polyphosphate kinase (PPK3). In *Organic and Biomolecular Chemistry*, 2009, vol. 7, p. 1778-1780. (2008: 3.550 - IF, Q1 - JCR, 1.989 - SJR, Q1 - SJR). ISSN 1477-0520. Dostupné na: <https://doi.org/10.1002/bit.21244>

Ohlasy:

1. [1.1] ANDEXER, Jennifer N. - RICHTER, Michael. Emerging Enzymes for ATP Regeneration in Biocatalytic Processes. In *CHEMBIOCHEM*. ISSN 1439-4227, 2015, vol. 16, no. 3, pp. 380-386., Registrované v: WOS
2. [1.1] BATTEN, Laura E. - PARNELL, Alice E. - WELLS, Neil J. - MURCH, Amber L. - OYSTON, Petra C. F. - ROACH, Peter L. Biochemical and structural characterization of polyphosphate kinase 2 from the intracellular pathogen *Francisella tularensis*. In *BIOSCIENCE REPORTS*. ISSN 0144-8463, 2016, vol. 36, no., pp., Registrované v: WOS
3. [1.1] FERRER-MIRALLES, Neus - SACCARDO, Paolo - LUIS CORCHERO, Jose - XU, Zhikun - GARCIA-FRUITOS, Elena. General Introduction: Recombinant Protein Production and Purification of Insoluble Proteins. In *INSOLUBLE PROTEINS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2015, vol. 1258, no., pp. 1-24., Registrované v: WOS
4. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS
5. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS
6. [1.1] CHEN, Rachel. Enzyme and microbial technology for synthesis of bioactive oligosaccharides: an update. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 7, pp. 3017-3026., Registrované v: WOS
7. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>., Registrované v: WOS
8. [1.1] JAEGER, V. D. - KLOSS, R. - GRUENBERGER, A. - SEIDE, S. - HAHN, D. - KARMAINSKI, T. - PIQUERAY, M. - EMBRUCH, J. - LONGERICH, S. - MACKFELD, U. - JAEGER, K.E. - WIECHERT, W. - POHL, M. - KRAUSS, U. Tailoring the properties of (catalytically)-active inclusion bodies. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS
9. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike - KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. In *CATALYSIS SCIENCE & TECHNOLOGY*.

- ISSN 2044-4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS
10. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from *E. coli* for 1,5-diaminopentane production. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
11. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
12. [1.1] KULMER, Sandra T. - GUTMANN, Alexander - LEMMERER, Martin - NIDETZKY, Bernd. Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 2, pp. 292-301., Registrované v: WOS
13. [1.1] LEWKOWICZ, Elizabeth S. - IRIBARREN, Adolfo M. Whole Cell Biocatalysts for the Preparation of Nucleosides and their Derivatives. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6851-6878., Registrované v: WOS
14. [1.1] LIANG, Mingzhi - FRANK, Stefanie - LUENSDORF, Heinrich - WARREN, Martin J. u - PRENTICE, Michael B. Bacterial microcompartment-directed polyphosphate kinase promotes stable polyphosphate accumulation in *E. coli*. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 3, pp., Registrované v: WOS
15. [1.1] LI, Zhongkui - NI, Zhijian - CHEN, Xiangsong - WANG, Gang - WU, Jinyong - YAO, Jianming. Multi-Enzymatic Cascade One-Pot Biosynthesis of 3'-Sialyllactose Using Engineered *Escherichia coli*. In *MOLECULES*, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163567>., Registrované v: WOS
16. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
17. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS
18. [1.1] MESTROM, Luuk - PRZYPIS, Marta - KOWALCZYKIEWICZ, Daria - POLLENDER, Andre - KUMPF, Antje - MARSDEN, Stefan R. - BENTO, Isabel - JARZEBSKI, Andrzej B. - SZYMANSKA, Katarzyna - CHRUSCIEL, Arkadiusz - TISCHLER, Dirk - SCHOEVAART, Rob - HANEFELD, Ulf - HAGEDOORN, Peter-Leon. Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 21, pp., Registrované v: WOS
19. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round

- we go strategies for enzymatic cofactor regeneration. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na: <https://doi.org/10.1039/d0np00004c>., Registrované v: WOS
20. [1.1] MORDHORST, Silja - SINGH, Jyoti - MOHR, Michael K. F. - HINKELMANN, Rahel - KEPPLER, Michael - JESSEN, Henning J. - ANDEXER, Jennifer N. Several Polyphosphate Kinase2 Enzymes Catalyse the Production of Adenosine 5-Polyphosphates. In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 8, pp. 1019-1022., Registrované v: WOS
21. [1.1] MUELLER, Werner E. G. - SCHROEDER, Heinz C. - WANG, Xiaohong. Inorganic Polyphosphates As Storage for and Generator of Metabolic Energy in the Extracellular Matrix. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 24, pp. 12337-12374., Registrované v: WOS
22. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian - GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J. - HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. - GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER, Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by ligand-bound polyphosphate kinase 2 structures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 13, pp. 3350-3355., Registrované v: WOS
23. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa - RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane - SCHWARTZ, Simo - VILLAVERDE, Antonio - LUIS CORCHERO, Jose. A novel bio-functional material based on mammalian cell aggresomes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 17, pp. 7079-7088., Registrované v: WOS
24. [1.1] SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER, Barbara - NIDETZKY, Bernd. Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 44, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107613>., Registrované v: WOS
25. [1.1] SCHMOELZER, Katharina - LEMMERER, Martin - GUTMANN, Alexander - NIDETZKY, Bernd. Integrated process design for biocatalytic synthesis by a Leloir Glycosyltransferase: UDP-glucose production with sucrose synthase. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 4, pp. 924-928., Registrované v: WOS
26. [1.1] TROBO-MASEDA, Lara - ORREGO, Alejandro H. - MORENO-PEREZ, Sonia - FERNANDEZ-LORENTE, Gloria - GUISAN, Jose M. - ROCHA-MARTIN, Javier. Stabilization of multimeric sucrose synthase from *Acidithiobacillus caldus* via immobilization and post-immobilization techniques for synthesis of UDP-glucose. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 2, pp. 773-787., Registrované v: WOS
27. [1.1] XIE, Lihan - JAKOB, Ursula. Inorganic polyphosphate, a multifunctional polyanionic protein scaffold. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 6, pp. 2180-2190., Registrované v: WOS

ADCA949 NAHÁLKA, Jozef - NIDETZKY, B. Fusion to a pull-down domain: A novel approach of producing *Trigonopsis variabilis* D-amino acid oxidase as insoluble enzyme aggregates. In *Biotechnology and Bioengineering*, 2007, vol. 97, p. 454-461. (2006: 2.999 - IF, Q1 - JCR, 1.467 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0006-3592. Dostupné na: <https://doi.org/10.1002/bit.21244>

Ohlasy:

1. [1.1] AMIN, Sara A. - GOPINARAYANAN, Venkatesh Endalur - NAIR, Nikhil U. - HASSOUN, Soha. Establishing synthesis pathway-host compatibility via enzyme solubility. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, 2019, vol. 116, no. 6, pp. 1405-1416., Registrované v: WOS
2. [1.1] ARAKAWA, Tsutomu - YAMAGUCHI, Rui - TOKUNAGA, Hiroko - TOKUNAGA, Masao. Unique Features of Halophilic Proteins. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2016, vol. 18, no. 1, pp. 65-71., Registrované v: WOS
3. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS, Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVERDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In *FEMS MICROBIOLOGY REVIEWS*. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS
4. [1.1] DIENER, Martin - KOPKA, Benita - POHL, Martina - JAEGER, Karl-Erich - KRAUSS, Ulrich. Fusion of a Coiled-Coil Domain Facilitates the High-Level Production of Catalytically Active Enzyme Inclusion Bodies. In *CHEMCATCHER*. ISSN 1867-3880, 2016, vol. 8, no. 1, pp. 142-152., Registrované v: WOS
5. [1.1] ESTEVINHO, Berta N. - SAMANIEGO, Nuria - TALENS-PERALES, David - JOSE FABRA, Maria - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Development of enzymatically-active bacterial cellulose membranes through stable immobilization of an engineered beta-galactosidase. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 476-482., Registrované v: WOS
6. [1.1] HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in *Escherichia coli*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 8, pp. 563-571. Dostupné na: <https://doi.org/10.1007/s10295-020-02294-4>., Registrované v: WOS
7. [1.1] HEATER, Bradley S. - LEE, Marianne M. - CHAN, Michael K. Direct production of a genetically-encoded immobilized biodiesel catalyst. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
8. [1.1] HEATER, Bradley S. - CHAN, Wai Shan - LEE, Marianne M. - CHAN, Michael K. Directed evolution of a genetically encoded immobilized lipase for the efficient production of biodiesel from waste cooking oil. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
9. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH,

- Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS
10. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS
11. [1.1] JAEGER, Vera D. - LAMM, Robin - KLOSS, Ramona - KAGANOVITCH, Eugen - GRUENBERGER, Alexander - POHL, Martina - BUECHS, Jochen - JAEGER, Karl-Erich - KRAUSS, Ulrich. A Synthetic Reaction Cascade Implemented by Colocalization of Two Proteins within Catalytically Active Inclusion Bodies. In *ACS SYNTHETIC BIOLOGY*. ISSN 2161-5063, 2018, vol. 7, no. 9, pp. 2282-2295., Registrované v: WOS
12. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>., Registrované v: WOS
13. [1.1] JAEGER, V. D. - KLOSS, R. - GRUENBERGER, A. - SEIDE, S. - HAHN, D. - KARMAINSKI, T. - PIQUERAY, M. - EMBRUCH, J. - LONGERICH, S. - MACKFELD, U. - JAEGER, K.E. - WIECHERT, W. - POHL, M. - KRAUSS, U. Tailoring the properties of (catalytically)-active inclusion bodies. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS
14. [1.1] JIANG, Li - XIAO, Wenjun - ZHOU, Xuan - WANG, Weiyu - FAN, Jun. Comparative study of the insoluble and soluble Ulp1 protease constructs as Carrier free and dependent protein immobilizates. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2019, vol. 127, no. 1, pp. 23-29., Registrované v: WOS
15. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
16. [1.1] LAMM, Robin - JAEGER, Vera D. - HEYMAN, Benedikt - BERG, Christoph - CUERTEN, Christin - KRAUSS, Ulrich - JAEGER, Karl-Erich - BUECHS, Jochen. Detailed small-scale characterization and scale-up of active YFP inclusion body production with *Escherichia coli* induced by a tetrameric coiled coil domain. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2020, vol. 129, no. 6, pp. 730-740. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2020.02.003>., Registrované v: WOS
17. [1.1] LIU, Hu - CAO, Mingming - WANG, Ying - LV, Bo - LI, Chun. Bioengineering oligomerization and monomerization of enzymes: learning from natural evolution to matching the demands for industrial applications. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2020, vol. 40, no. 2, pp. 231-246. Dostupné na: <https://doi.org/10.1080/07388551.2019.1711014>., Registrované v: WOS

18. [1.1] LOUGHRAN, Sinead T. - WALLS, Dermot. Tagging Recombinant Proteins to Enhance Solubility and Aid Purification. In PROTEIN CHROMATOGRAPHY: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2017, vol. 1485, no., pp. 131-156., Registrované v: WOS
19. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
20. [1.1] LV, Xueqin - CUI, Shixiu - GU, Yang - LI, Jianghua - DU, Guocheng - LIU, Long. Enzyme Assembly for Compartmentalized Metabolic Flux Control. In METABOLITES, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/metabo10040125>., Registrované v: WOS
21. [1.1] MUKHERJEE, Joyeeta - GUPTA, Munishwar Nath. Protein aggregates: Forms, functions and applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, no., pp. 778-789., Registrované v: WOS
22. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVERDE, Antonio. Bacterial Inclusion Bodies: Discovering Their Better Half. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS
23. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa - RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane - SCHWARTZ, Simo - VILLAVERDE, Antonio - LUIS CORCHERO, Jose. A novel bio-functional material based on mammalian cell aggresomes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 17, pp. 7079-7088., Registrované v: WOS
24. [1.1] SERAS-FRANZOSO, Joaquin - PETERNEL, Spela - CANO-GARRIDO, Olivia - VILLAVERDE, Antonio - GARCIA-FRUITOS, Elena. Bacterial Inclusion Body Purification. In INSOLUBLE PROTEINS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2015, vol. 1258, no., pp. 293-305., Registrované v: WOS
25. [1.1] TAKAHASHI, Shouji. d-Aspartate oxidase: distribution, functions, properties, and biotechnological applications. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 7, pp. 2883-2895. Dostupné na: <https://doi.org/10.1007/s00253-020-10439-9>., Registrované v: WOS
26. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
27. [1.1] VICENTE CARRATALA, Jose - CANO-GARRIDO, Olivia - SANCHEZ, Julieta - MEMBRADO, Cristina - PEREZ, Eudald - CONCHILLO-SOLE, Oscar - DAURA, Xavier - SANCHEZ-CHARDI, Alejandro - VILLAVERDE, Antonio - ARIS, Anna - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus. Aggregation-prone peptides modulate activity of bovine interferon gamma released from naturally occurring protein nanoparticles.

- In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2020, vol. 57, no., pp. 11-19.
Dostupné na: <https://doi.org/10.1016/j.nbt.2020.02.001>., Registrované v: WOS
28. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis - SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein aggregates: just the tip of the iceberg. In NANOMEDICINE. ISSN 1743-5889, 2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS
29. [1.1] WANG, Weiyu - SUN, Jiaqi - XIAO, Wenjun - JIANG, Li - WANG, Ruyue - FAN, Jun. Change of the N-terminal codon bias combined with tRNA supplementation outperforms the selected fusion tags for production of human d-amino acid oxidase as active inclusion bodies. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2017, vol. 39, no. 11, pp. 1733-1740., Registrované v: WOS
30. [1.1] WANG, Xu - ZHOU, Bihong - HU, Weike - ZHAO, Qing - LIN, Zhanglin. Formation of active inclusion bodies induced by hydrophobic self-assembling peptide GFIL8. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2015, vol. 14, no., pp., Registrované v: WOS
31. [1.1] ZHAO, Kai - TANG, Feng - SHI, Wei - HONG, Haoifei - ZHOU, Zhifang - HUANG, Wei - WU, Zhimeng. One-step immobilization and purification of genetic engineering CBD fusion EndoS on cellulose for antibodies Fc-glycan remodeling. In BIOORGANIC CHEMISTRY. ISSN 0045-2068, 2019, vol. 91, no., pp., Registrované v: WOS
32. [1.1] ZHENG, Junxian - YANG, Taowei - ZHOU, Junping - XU, Meijuan - ZHANG, Xian - RAO, Zhiming - YANG, Shangtian. Efficient production of D-amino acid oxidase in Escherichia coli by a trade-off between its expression and biomass using N-terminal modification. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 243, no., pp. 716-723., Registrované v: WOS
33. [1.2] ARAKAWA, Tsutomu - YAMAGUCHI, Rui - TOKUNAGA, Hiroko - TOKUNAGA, Masao. Unique features of halophilic proteins. In Current Protein and Peptide Science. ISSN 13892037, 2017-01-01, 18, 1, pp. 65-71., Registrované v: SCOPUS

ADCA950 NAHÁLKA, Jozef - LIU, Z. - GEMEINER, Peter. Nucleoside triphosphates production using recombinant Escherichia coli entrapped in calcium pectate gel. In *Biotechnology Letters*, 2002, vol. 24, p. 925-930. (2001: 0.915 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0141-5492.

Ohlasy:

1. [1.1] DING, Qingbao - OU, Ling. NTP Regeneration and its Application in the Biosynthesis of Nucleotides and their Derivatives. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6936-6947., Registrované v: WOS
2. [1.1] KRAUSER, Steffen - HOFFMANN, Thomas - HEINZLE, Elmar. Directed Multistep Biocatalysis for the Synthesis of the Polyketide Oxytetracycline in Permeabilized Cells of Escherichia coli. In ACS CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 3, pp. 1407-1413., Registrované v: WOS
3. [1.1] ZHANG, Jiao - QIAN, Yahui - DING, Qingbao - OU, Ling. Enzymatic Manufacture of Deoxythymidine-5'-Triphosphate with Permeable Intact Cells of E-coli Coexpressing Thymidylate Kinase and Acetate Kinase. In

ADCA951 NAHÁLKA, Jozef. Physiological aggregation of maltodextrin phosphorylase from *Pyrococcus furiosus* and its application in a process of batch starch degradation to alfa-D-glucose-1-phosphate. In *Journal of Industrial Microbiology and Biotechnology : official journal of the Society for Industrial Microbiology*, 2008, vol. 35, pp. 219-223. (2007: 1.681 - IF, Q3 - JCR, 0.673 - SJR, Q2 - SJR). ISSN 1367-5435. Dostupné na: <https://doi.org/10.1007/s10295-007-0287-4>

Ohlasy:

1. [1.1] BERGER, Eldie - FERRERAS, Eloy - TAYLOR, Mark P. - COWAN, Don A. Extremophiles and Their Use in Biofuel Synthesis. In *INDUSTRIAL BIOCATALYSIS*, 2015, vol. 1, no., pp. 239-281., Registrované v: WOS
2. [1.1] DE BRUYN, Frederik - MAERTENS, Jo - BEAUPREZ, Joeri - SOETAERT, Wim - DE MEY, Marjan. Biotechnological advances in UDP-sugar based glycosylation of small molecules. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2015, vol. 33, no. 2, pp. 288-302., Registrované v: WOS
3. [1.1] FERRER-MIRALLES, Neus - SACCARDO, Paolo - LUIS CORCHERO, Jose - XU, Zhikun - GARCIA-FRUITOS, Elena. General Introduction: Recombinant Protein Production and Purification of Insoluble Proteins. In *INSOLUBLE PROTEINS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2015, vol. 1258, no., pp. 1-24., Registrované v: WOS
4. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS
5. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS
6. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS
7. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike - KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS
8. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS

9. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
10. [1.1] RODRIGUEZ-CARMONA, Escarlata - MENDOZA, Rosa - RUIZ-CANOVAS, Eugenia - FERRER-MIRALLES, Neus - ABASOLO, Ibane - SCHWARTZ, Simo - VILLAVERDE, Antonio - LUIS CORCHERO, Jose. A novel bio-functional material based on mammalian cell aggresomes. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 17, pp. 7079-7088., Registrované v: WOS
11. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloidal materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
12. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis - SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein aggregates: just the tip of the iceberg. In *NANOMEDICINE*. ISSN 1743-5889, 2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS
13. [1.1] ZHOU, Wei - YOU, Chun - MA, Hongwu - MA, Yanhe - ZHANG, Y.H. Percival. One-Pot Biosynthesis of High-Concentration alpha-Glucose 1-Phosphate from Starch by Sequential Addition of Three Hyperthermophilic Enzymes. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2016, vol. 64, no. 8, pp. 1777-1783., Registrované v: WOS

ADCA952 NAHÁLKA, Jozef - WU, B.Y. - SHAO, J. - GEMEINER, Peter - WANG, P.G. Production of cytidine 5'-monophospho-N-acetyl- β -D-neuraminic acid (CMP-sialic acid) using enzymes or whole cells entrapped in calcium pectate-silica-gel beads. In *Biotechnology and Applied Biochemistry*, 2004, vol. 40, p. 101-106. (2003: 1.034 - IF). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA20030159>

Ohlasy:

1. [1.1] FISCHOEDER, Thomas - WAHL, Claudia - ZERHUSEN, Christian - ELLING, Lothar. Repetitive Batch Mode Facilitates Enzymatic Synthesis of the Nucleotide Sugars UDP-Gal, UDP-GlcNAc, and UDP-GalNAc on a Multi-Gram Scale. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2019, vol. 14, no. 4, pp., Registrované v: WOS
2. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggresomes: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
3. [1.1] SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER, Barbara - NIDETZKY, Bernd. Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2020, vol. 44, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107613>., Registrované v: WOS

ADCA953 NAHÁLKA, Jozef - BLANÁRIK, P. - GEMEINER, Peter - MATÚŠOVÁ, E. - PARTLOVÁ, I. Production of plumbagin by cell suspension cultures of *Drosophyllum lusitanicum* Link. In *Journal of Biotechnology*, 1996, vol. 49, p. 153-161. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/0168-1656\(96\)01537-4](https://doi.org/10.1016/0168-1656(96)01537-4)

Ohlasy:

1. [1.1] BADWAIK, Hemant Ramchandra - KUMARI, Leena - NAKHATE, Kartik - VERMA, Vinay Sagar - SAKURE, Kalyani. Phytoconstituent plumbagin: Chemical, biotechnological and pharmaceutical aspects. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY: BIOACTIVE NATURAL PRODUCTS, VOL 63*. ISSN 1572-5995, 2019, vol. 63, no., pp. 415-460., Registrované v: WOS
2. [1.1] BEIGMOHAMADI, Mina - MOVAFEGHI, Ali - SHARAFI, Ali - JAFARI, Samineh - DANAFAR, Hossein. Cell Suspension Culture of *Plumbago europaea* L. Towards Production of Plumbagin. In *IRANIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 1728-3043, 2019, vol. 17, no. 2, pp., Registrované v: WOS
3. [1.1] JAISI, Amit - PANICHAYUPAKARANANT, Pharkphoom. Chitosan elicitation and sequential Diaion (R) HP-20 addition a powerful approach for enhanced plumbagin production in *Plumbago indica* root cultures. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 53, no., pp. 210-215., Registrované v: WOS
4. [1.1] ROY, Arpita - BHARADVAJA, Navneeta. Biotechnological Approaches for the Production of Pharmaceutically Important Compound: Plumbagin. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 5, pp. 372-381., Registrované v: WOS
5. [1.1] WONGSA, Thanakorn - INTHIMA, Phithak - NAKKUNTOD, Maliwan - PREMJET, Duangporn - KONGBANGKERD, Anupan. Effects of Cytokinin and Auxin on In Vitro Organ Development and Plumbagin Content of *Drosera peltata* Thunb. In *AGRIVITA*. ISSN 0126-0537, 2018, vol. 40, no. 3, pp. 415-424., Registrované v: WOS
6. [1.2] GAJULA, Hari - VADLAPUDI, Kumar - VIJENDRA, Poornima D. - RAJASHEKAR, J. - SANNABOMMAJI, Torankumar - BASAPPA, Giridhara - SANTHOSH, T. U. An alternative approach for anticancer compounds production through plant tissue culture techniques. In *Anticancer Plants: Natural Products and Biotechnological Implements*, 2018-01-01, 2, pp. 529-549., Registrované v: SCOPUS

ADCA954 NAHÁLKA, Jozef. Protein-RNA recognition: Cracking the code. In *Journal of Theoretical Biology*, 2014, vol. 343, p. 9-15. (2013: 2.303 - IF, Q1 - JCR, 1.040 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0022-5193. Dostupné na: <https://doi.org/10.1016/j.jtbi.2013.11.006>

Ohlasy:

1. [1.1] AUBOEUF, Didier. Physicochemical Foundations of Life that Direct Evolution: Chance and Natural Selection are not Evolutionary Driving Forces. In *LIFE-BASEL*, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/life10020007>., Registrované v: WOS
2. [1.1] BASU, Sushmita - BAHADUR, Ranjit Prasad. A structural perspective of RNA recognition by intrinsically disordered proteins. In

CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2016, vol. 73, no. 21, pp. 4075-4084., Registrované v: WOS

3. [1.1] VORBERG, Ellen - FLEISCHER, Heidi - JUNGINGER, Steffen - LIU, Hui - STOLL, Norbert - THUROW, Kerstin. A Highly Flexible, Automated System Providing Reliable Sample Preparation in Element- and Structure-Specific Measurements. In JALA. ISSN 2211-0682, 2016, vol. 21, no. 5, pp. 682-692., Registrované v: WOS

ADCA955 NAHÁLKA, Jozef - HRABÁROVÁ, Eva - TALAFOVÁ, Klaudia.

Protein–RNA and protein–glycan recognitions in light of amino acid codes. In *Biochimica et Biophysica Acta : general subjects*, 2015, vol. 1850, p. 1942-1952. (2014: 4.381 - IF, Q1 - JCR, 1.821 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2015.06.013>

Ohlasy:

1. [1.1] WILSON, Katie A. - HOLLAND, Devany J. - WETMORE, Stacey D. Topology of RNA-protein nucleobase-amino acid pi-pi interactions and comparison to analogous DNA-protein pi-pi contacts. In RNA. ISSN 1355-8382, 2016, vol. 22, no. 5, pp. 696-708., Registrované v: WOS

ADCA956 NAHÁLKA, Jozef - LIU, Z. Y. - CHEN, X. - WANG, P.G. Superbeads:

Immobilization in "sweet" chemistry. In *Chemistry-A European Jopurnal*, 2003, vol. 9, p. 372-377. Dostupné na: <https://doi.org/10.1002/chem.200390038>

Ohlasy:

1. [1.1] FISCHOEDER, Thomas - WAHL, Claudia - ZERHUSEN, Christian - ELLING, Lothar. Repetitive Batch Mode Facilitates Enzymatic Synthesis of the Nucleotide Sugars UDP-Gal, UDP-GlcNAc, and UDP-GalNAc on a Multi-Gram Scale. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 4, pp., Registrované v: WOS

2. [1.1] HEINZLER, Raphael - FISCHOEDER, Thomas - ELLING, Lothar - FRANZREB, Matthias. Toward Automated Enzymatic Glycan Synthesis in a Compartmented Flow Microreactor System. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2019, vol. 361, no. 19, pp. 4506-4516., Registrované v: WOS

3. [1.1] HUNTER, Carmanah D. - GUO, Tianlin - DASKHAN, Gour - RICHARDS, Michele R. - CAIRO, Christopher W. Synthetic Strategies for Modified Glycosphingolipids and Their Design as Probes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8188-8241., Registrované v: WOS

4. [1.1] KHAN, Mashooq - PARK, Soo-Young. Liquid crystal-based glucose biosensor functionalized with mixed PAA and QP4VP brushes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2015, vol. 68, no., pp. 404-412., Registrované v: WOS

5. [1.1] LI, Wanqing - MCARTHUR, John B. - CHEN, Xi. Strategies for chemoenzymatic synthesis of carbohydrates. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 472, no., pp. 86-97., Registrované v: WOS

6. [1.1] MESTROM, Luuk - PRZYPIS, Marta - KOWALCZYKIEWICZ, Daria - POLLENDER, Andre - KUMPF, Antje - MARSDEN, Stefan R. - BENTO, Isabel - JARZEBSKI, Andrzej B. -

SZYMANSKA, Katarzyna - CHRUSCIEL, Arkadiusz - TISCHLER, Dirk - SCHOEVAART, Rob - HANEFELD, Ulf - HAGEDOORN, Peter-Leon. Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 21, pp., Registrované v: WOS

7. [1.1] YU, Mingan - LIU, Duqiang - SUN, Lili - LI, Jing - CHEN, Qian - PAN, Lijun - SHANG, Jingchuan - ZHANG, Shurong - LI, Wei. Facile fabrication of 3D porous hybrid sphere by co-immobilization of multi-enzyme directly from cell lysates as an efficient and recyclable biocatalyst for asymmetric reduction with coenzyme regeneration in situ. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 424-434., Registrované v: WOS

8. [1.1] ZHONG, Chao - DUIC, Bozidar - BOLIVAR, Juan M. - NIDETZKY, Bernd. Three-Enzyme Phosphorylase Cascade Immobilized on Solid Support for Biocatalytic Synthesis of Cello-oligosaccharides. In CHEMCATCHER. ISSN 1867-3880, 2020, vol. 12, no. 5, pp. 1350-1358. Dostupné na: <https://doi.org/10.1002/cctc.201901964>., Registrované v: WOS

ADCA957 NAHÁLKA, Jozef - MISLOVIČOVÁ, Danica - KAVCOVÁ, Helena.

Targeting lectin activity into inclusion bodies for the characterisation of glycoproteins. In *Molecular Biosystems*, 2009, vol. 5, iss. 8, p. 819-821. (2008: 4.236 - IF, Q2 - JCR, 1.570 - SJR, Q1 - SJR). ISSN 1742-206X. Dostupné na: <https://doi.org/10.1039/b900526a>

Ohlasy:

1. [1.1] FERRER-MIRALLES, Neus - SACCARDO, Paolo - LUIS CORCHERO, Jose - XU, Zhikun - GARCIA-FRUITOS, Elena. General Introduction: Recombinant Protein Production and Purification of Insoluble Proteins. In INSOLUBLE PROTEINS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2015, vol. 1258, no., pp. 1-24., Registrované v: WOS

2. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS

3. [1.1] JAEGER, V. D. - KLOSS, R. - GRUENBERGER, A. - SEIDE, S. - HAHN, D. - KARMAINSKI, T. - PIQUERAY, M. - EMBRUCH, J. - LONGERICH, S. - MACKFELD, U. - JAEGER, K.E. - WIECHERT, W. - POHL, M. - KRAUSS, U. Tailoring the properties of (catalytically)-active inclusion bodies. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS

4. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from E. coli for 1,5-diaminopentane production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

5. [1.1] LI, J. - WANG, L. R. - HUANG, X. - XING, Y. X. - YANG, L. T. - LI, Y. R. PREPARATION AND APPLICATION OF MONOCLONAL ANTIBODY TO SUGARCANE (SACCHARUM L. SPP. HYBRIDS) SOP5CS PROTEIN. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH.

- ISSN 1589-1623, 2019, vol. 17, no. 5, pp. 12323-12335., Registrované v: WOS
6. [1.1] RUAN, Li-Tao - ZHENG, Ren-Chao - ZHENG, Yu-Guo. A novel amidase from *Brevibacterium epidermidis* ZJB-07021: gene cloning, refolding and application in butyrylhydroxamic acid synthesis. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2016, vol. 43, no. 8, pp. 1071-1083., Registrované v: WOS
7. [1.1] TU, Chunhao - ZHOU, Jin - PENG, Lei - MAN, Shuli - MA, Long. Self-assembled nano-aggregates of fluorinases demonstrate enhanced enzymatic activity, thermostability and reusability. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 2, pp. 648-656., Registrované v: WOS
8. [1.1] WANG, Xu - ZHOU, Bihong - HU, Weike - ZHAO, Qing - LIN, Zhanglin. Formation of active inclusion bodies induced by hydrophobic self-assembling peptide GFIL8. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2015, vol. 14., Registrované v: WOS

ADCA958 NAHÁLKA, Jozef - BLANÁRIK, P. - GEMEINER, Peter - MATÚŠOVÁ, E. - PARTLOVÁ, I. The chemical/osmotic conditions for growth and plumbagin accumulation of *Drosophyllum lusitanicum* Link. suspension cultures. In *Biotechnology Letters*, 1996, vol. 18, p. 1453-1458. ISSN 0141-5492.

Ohlasy:

1. [1.2] PATIDAR, S. L. - TIWARI, Gyanendra - TRIPATHI, M. K. - PATEL, R. P. - MISHRA, S. N. In vitro biosynthesis and quantification of plumbagin in cell suspension culture of *Plumbago zeylanica*. In *Medicinal Plants*. ISSN 09754261, 2015-01-01, 7, 1, pp. 60-67., Registrované v: SCOPUS

ADCA959 NAHÁLKA, Jozef**. The role of the protein-RNA recognition code in neurodegeneration. In *Cellular and Molecular Life Sciences*, 2019, vol. 76, p. 2043-2058. (2018: 7.014 - IF, Q1 - JCR, 3.006 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1420-682X. Dostupné na: <https://doi.org/10.1007/s00018-019-03096-3>

Ohlasy:

1. [1.1] LI, Wei - LI, Xue - GAO, Li-Na - YOU, Chong-Ge. Integrated Analysis of the Functions and Prognostic Values of RNA Binding Proteins in Lung Squamous Cell Carcinoma. In *FRONTIERS IN GENETICS*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.00185>., Registrované v: WOS

ADCA960 NAHÁLKA, Jozef - GEMEINER, Peter. Thermoswitched immobilization – A novel approach in reversible immobilization. In *Journal of Biotechnology*, 2006, vol. 123, p. 478-482. (2005: 2.687 - IF, Q2 - JCR, 1.193 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2005.12.018>

Ohlasy:

1. [1.1] ESTEVINHO, Berta N. - SAMANIEGO, Nuria - TALENS-PERALES, David - JOSE FABRA, Maria - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Development of enzymatically-active bacterial cellulose membranes through stable immobilization of an engineered beta-galactosidase. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 476-482., Registrované v: WOS

2. [1.1] OLIVEIRA, Carla - CARVALHO, Vera - DOMINGUES, Lucilia - GAMA, Francisco M. Recombinant CBM-fusion technology Applications overview. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2015, vol. 33, no. 3-4, pp. 358-369., Registrované v: WOS

ADCA961 NAHÁLKOVÁ, Jarmila - ŠVITEL, J. - GEMEINER, Peter - DANIELSSON, B. - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Affinity analysis of lectin interaction with immobilized C- and O-glycosides studied by surface plasmon resonance assay. In *Journal of Biochemical and Biophysical Methods*, 2002, vol. 52, p. 11-18. ISSN 0165-022X. Dostupné na: [https://doi.org/10.1016/S0165-022X\(02\)00016-7](https://doi.org/10.1016/S0165-022X(02)00016-7)

Ohlasy:

1. [1.1] BHATTARAI, Jay K. - SHARMA, Abeera - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical synthesis of nanostructured gold film for the study of carbohydrate-lectin interactions using localized surface plasmon resonance spectroscopy. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 405, no., pp. 55-65., Registrované v: WOS

2. [1.1] DAMBORSKY, Pavel - DAMBORSKA, Dominika - BELICKY, Stefan - TKAC, Jan - KATRLIK, Jaroslav. Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. In BIONANOSCIENCE. ISSN 2191-1630, 2018, vol. 8, no. 2, pp. 690-700., Registrované v: WOS

3. [1.1] SUN, Yung-Shin - ZHU, X. D. Real-time, label-free characterization of oligosaccharide-binding proteins using carbohydrate microarrays and an ellipsometry-based biosensor. In INSTRUMENTATION SCIENCE & TECHNOLOGY. ISSN 1073-9149, 2017, vol. 45, no. 5, pp. 506-524., Registrované v: WOS

ADCA962 NAKANO, T. - VOTICKÝ, Zdeno. Buxus alkaloids. IX. The interconversion of cyclobuxine-D and cyclobuxusuffrine. In *Journal of Chemical Society C*, 1970, p. 590-592.

Ohlasy:

1. [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids, 2018-01-01, pp. 1-624., Registrované v: SCOPUS

ADCA963 NARAN, R. - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - PÄTOPRSTÝ, Vladimír. Carbohydrate polymers from underground parts of *Cistanche deserticola*. In *Phytochemistry*, 1995, vol. 40., p. 709-715. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/0031-9422\(95\)00275-C](https://doi.org/10.1016/0031-9422(95)00275-C)

Ohlasy:

1. [1.1] FU, Zhifei - FAN, Xiang - WANG, Xiaoying - GAO, Xiumei. *Cistanches Herba*: An overview of its chemistry, pharmacology, and pharmacokinetics property. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 219, no., pp. 233-247., Registrované v: WOS

2. [1.1] KARZHAUBEKOVA, Zh. Zh. - GEMEDZHIYEVA, N. G. The elements, amino- and fatty acids composition of *Rheum tataricum* L. from Southern Peri-Balkhash region. In BULLETIN OF THE UNIVERSITY OF

KARAGANDA-CHEMISTRY. ISSN 2518-718X, 2016, vol., no. 84, pp. 21-26., Registrované v: WOS

3. [1.1] LIU, Jing - YANG, Yang - WEI, Haiyan - ZHANG, Quanzhong - ZHANG, Xuhui - ZHANG, Xiaoyan - GU, Wei. Assessing Habitat Suitability of Parasitic Plant *Cistanche deserticola* in Northwest China under Future Climate Scenarios. In *FORESTS*, 2019, vol. 10, no. 9, pp., Registrované v: WOS

ADCA964 NAVRATIL, M. - TKÁČ, Ján - ŠVITEL, J. - DANIELSSON, B. - ŠTURDÍK, E. Monitoring of the bioconversion of glycerol to dihydroxyacetone with immobilized *Gluconobacter oxydans* cell using thermometric flow injection analysis. In *Process Biochemistry*, 2001, vol. 36, p. 1045-1052. ISSN 1359-5113. Dostupné na: [https://doi.org/10.1016/S0032-9592\(00\)00298-3](https://doi.org/10.1016/S0032-9592(00)00298-3)

Ohlasy:

1. [1.1] AYMARD, Chloe - BONAVENTURA, Celia - HENKENS, Robert - MOUSTY, Christine - HECQUET, Laurence - CHARMANTRAY, Franck - BLUM, Loic J. - DOUMECHE, Bastien. High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 957-966., Registrované v: WOS

2. [1.1] HARON, Roslindawati - MAT, Ramli - ABDULLAH, Tuan Amran Tuan - RAHMAN, Roshanida A. Overview on utilization of biodiesel by-product for biohydrogen production. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2018, vol. 172, no., pp. 314-324., Registrované v: WOS

3. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. Review of Biosensors in Industrial Process Control. In *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019*. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103., Registrované v: WOS

4. [1.1] POLJUNGREED, Issara - BOONYARATTANAKALIN, Siwarutt. Dihydroxyacetone production by *Gluconobacter frateurii* in a minimum medium using fed-batch fermentation. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2017, vol. 92, no. 10, pp. 2635-2641., Registrované v: WOS

5. [1.1] ROCHA-MARTIN, Javier - ACOSTA, Andreina - GUIBAN, Jose M. - LOPEZ-GALLEGO, Fernando. Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to InSitu Cofactor Recycling and Hydrogen Peroxide Elimination. In *CHEMCATCHER*. ISSN 1867-3880, 2015, vol. 7, no. 13, pp. 1939-1947., Registrované v: WOS

6. [1.1] SUN, Jianrui - GAO, Wenyue - QI, Liming - SONG, Yufeng - HUI, Pan - LIU, Zhongyuan - XU, Guobao. Detection of 1,3-dihydroxyacetone by tris(2,2'-bipyridine)ruthenium(II) electrochemiluminescence. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 9, pp. 2315-2320., Registrované v: WOS

7. [1.1] XU, Meng-Qiu - LI, Fei-Long - YU, Wen-Qian - LI, Rui-Fang - ZHANG, Ye-Wang. Combined cross-linked enzyme aggregates of glycerol dehydrogenase and NADH oxidase for high efficiency in situ NAD(+) regeneration. In *INTERNATIONAL JOURNAL OF BIOLOGICAL*

MACROMOLECULES. ISSN 0141-8130, 2020, vol. 144, no., pp. 1013-1021.
Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.178>., Registrované v: WOS

8. [2.1] STEFUCA, Vladimír - VIDOVA, Monika - SLEZAKOVA, Ivana - ROSENBERG, Michal - REBROS, Martin. 2-Phenylethanol biooxidation by *Gluconobacter oxydans*: influence of cultivation conditions on biomass production and biocatalytic activity of cells. In CHEMICAL PAPERS. ISSN 2585-7290, 2019, vol. 73, no. 7, pp. 1813-1821., Registrované v: WOS

ADCA965 NAVRATIL, M. - DÖMÉNY, Z. - ŠTURDÍK, E. - ŠMOGROVIČOVÁ, D. - GEMEINER, Peter. Production of non-alcoholic beer using free and immobilized cells of *Saccharomyces cerevisiae* deficient in the tricarboxylic acid cycle. In *Biotechnology and Applied Biochemistry*, 2002, vol. 35, p. 133–140. ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA20010057>

Ohlasy:

1. [1.1] BELLUT, Konstantin - ARENDT, Elke K. Chance and Challenge: Non-*Saccharomyces* Yeasts in Nonalcoholic and Low Alcohol Beer Brewing A Review. In JOURNAL OF THE AMERICAN SOCIETY OF BREWING CHEMISTS. ISSN 0361-0470, 2019, vol. 77, no. 2, pp. 77-91., Registrované v: WOS

2. [1.1] JACKOWSKI, Mateusz - TRUSEK, Anna. Non-alcoholic beer production an overview. In POLISH JOURNAL OF CHEMICAL TECHNOLOGY. ISSN 1509-8117, 2018, vol. 20, no. 4, pp. 32-38., Registrované v: WOS

3. [1.1] JIANG, Zhumao - YANG, Baoyu - LIU, Xiao - ZHANG, Song - SHAN, Jing - LIU, Jie - WANG, Xiaoran. A novel approach for the production of a non-alcohol beer ($\leq 0.5\%$ abv) by a combination of limited fermentation and vacuum distillation. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 4, pp. 533-536., Registrované v: WOS

4. [1.1] MANGINDAAN, Dave - KHOIRUDDIN, K. - WENTEN, I. G. Beverage dealcoholization processes: Past, present, and future. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 71, no., pp. 36-45., Registrované v: WOS

5. [1.1] PUERARI, Claudia - STREJC, Jan - SOUZA, Angelica C. - KARABIN, Marcel - SCHWAN, Rosane F. - BRANYIK, Tomas. Optimization of alcohol-free beer production by lager and cachaca yeast strains using response surface methodology. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2016, vol. 122, no. 1, pp. 69-75., Registrované v: WOS

6. [3.1] Nedyalkov, P (Nedyalkov, Petar); Denkova R (Denkova, Rositsa); Teneva, D (Teneva, Desislava); Shopska, V (Shopska, Vesela); Goranov, B (Goranov, Bogdan); Denkova, Z (Denkova, Zapryana); Kostov, G (Kostov, Georgi); Kaneva, M (Kaneva, Maria). Yeast selection for non-alcoholic and low-alcoholic beverages based on wort. In: FOOD SCIENCE AND APPLIED BIOTECHNOLOGY. ISSN: 2603-3380, 2019, vol. 2 Issue: 2 Pages: 140-148

ADCA966 NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Batch and continuous mead production with pectate immobilized, ethanol-tolerant yeasts. In *Biotechnology Letters*, 2001, vol. 23, p. 978-982. (2001 - Current Contents). ISSN 0141-5492. Dostupné na: [https://doi.org/10.1016/S0165-022X\(02\)00016-7](https://doi.org/10.1016/S0165-022X(02)00016-7)

Ohlasy:

1. [1.1] AKALIN, Husne - BAYRAM, Mustafa - ANLI, Rahmi Ertan. Determination of some individual phenolic compounds and antioxidant capacity of mead produced from different types of honey. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 1, pp. 167-174., Registrované v: WOS
2. [1.1] AMORIM, Thaise Souza - LOPES, Solimar de Brito - CONCEICAO BISPO, Jose Ailton - SAMPAIO BONAFE, Carlos Francisco - MAFRA DE CARVALHO, Giovani Brandao - MARTINEZ, Ernesto Acosta. Influence of acerola pulp concentration on mead production by *Saccharomyces cerevisiae* AWRI 796. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 97, no., pp. 561-569., Registrované v: WOS
3. [1.1] ARAUJO, Geiza Suzart - GUTIERREZ, Mashely Pickman - SAMPAIO, Kayque Frota - DE SOUZA, Silvia Maria Almeida - RODRIGUES, Rita de Cassia Lacerda Brambilla - MARTINEZ, Ernesto Acosta. Mead Production by *Saccharomyces cerevisiae* Saffbrew T-58 and *Saccharomyces bayanus* (Premier Blanc and Premier Cuvee): Effect of Cowpea (*Vigna unguiculata* L. Walp) Extract Concentration. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 191, no. 1, pp. 212-225. Dostupné na: <https://doi.org/10.1007/s12010-020-03267-0>., Registrované v: WOS
4. [1.1] BEDNAREK, Marta - SZWENGIEL, Artur - BELEN FLOREZ, Ana - CZARNECKI, Zbigniew - MAYO, Baltasar. Effect of different starter cultures on chemical and microbial parameters of buckwheat honey fermentation. In FOOD MICROBIOLOGY. ISSN 0740-0020, 2019, vol. 82, no., pp. 294-302., Registrované v: WOS
5. [1.1] BEDNAREK, Marta - SZWENGIEL, Artur. Distinguishing between saturated and unsaturated meads based on their chemical characteristics. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109962>., Registrované v: WOS
6. [1.1] GAGLIO, Raimondo - ALFONZO, Antonio - FRANCESCA, Nicola - CORONA, Onofrio - DI GERLANDO, Rosalia - COLUMBA, Pietro - MOSCHETTI, Giancarlo. Production of the Sicilian distillate "Spiritu re fascitrari" from honey by-products: An interesting source of yeast diversity. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 261, no., pp. 62-72., Registrované v: WOS
7. [1.1] GOMES, Teresa - DIAS, Teresa - CADAVEZ, Vasco - VERDIAL, Joao - MORAIS, Jorge Sa - RAMALHOSA, Elsa - ESTEVINHO, Leticia M. Influence of Sweetness and Ethanol Content on Mead Acceptability. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2015, vol. 65, no. 2, pp. 137-142., Registrované v: WOS
8. [1.1] HERNANDEZ, Cristian Y. - SERRATO, Juan C. - QUICAZAN, Martha C. Evaluation of Physicochemical and Sensory Aspects of Mead, Produced by Different Nitrogen Sources and Commercial Yeast. In ICHEAP12: 12TH INTERNATIONAL CONFERENCE ON CHEMICAL & PROCESS ENGINEERING. ISSN 1974-9791, 2015, vol. 43, no., pp. 1-6., Registrované v: WOS
9. [1.1] JASIM, A. M. - AZIZ, G. M. DEGRADATION EFFICIENCY OF PHENOLIC COMPOUNDS USING IMMOBILIZED PEROXIDASE

PURIFIED FROM SOYBEAN. In IRAQI JOURNAL OF AGRICULTURAL SCIENCES. ISSN 0075-0530, 2019, vol. 50, no. 3, pp. 928-935., Registrované v: WOS

10. [1.1] LI, Ruirui - SUN, Yuxia. Effects of Honey Variety and Non-Saccharomyces cerevisiae on the Flavor Volatiles of Mead. In JOURNAL OF THE AMERICAN SOCIETY OF BREWING CHEMISTS. ISSN 0361-0470, 2019, vol. 77, no. 1, pp. 40-53., Registrované v: WOS

11. [1.1] MARGAOAN, Rodica - CORNEA-CIPCIGAN, Mihaiela - TOPAL, Erkan - KOSOGLU, Mustafa. Impact of Fermentation Processes on the Bioactive Profile and Health-Promoting Properties of Bee Bread, Mead and Honey Vinegar. In PROCESSES, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091081>., Registrované v: WOS

12. [1.1] MARTINEZ, Andres M. - VIVAS, Giordan J. - QUICAZAN, Marta C. Evaluation of Alcoholic Fermentation During the Production of Mead Using Immobilized Cells in Kappa-Carrageenan. In 5TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL BIOTECHNOLOGY (IBIC 2016). ISSN 1974-9791, 2016, vol. 49, no., pp. 19-24., Registrované v: WOS

13. [1.1] NEDOVIC, V. - GIBSON, B. - MANTZOURIDOU, T. F. - BUGARSKI, B. - DJORDJEVIC, V. - KALUSEVIC, A. - PARASKEVOPOULOU, A. - SANDELL, M. - SMOGROVICOVA, D. - YILMAZTEKIN, M. Aroma formation by immobilized yeast cells in fermentation processes. In YEAST. ISSN 0749-503X, 2015, vol. 32, no. 1, pp. 173-216., Registrované v: WOS

14. [1.1] PEIXOTO CAVALCANTE DA SILVA, Samira Maria - LOPES DE CARVALHO, Carlos Alfredo - SODRE, Geni da Silva - ESTEVINHO, Leticia M. Production and characterization of mead from the honey of Melipona scutellaris stingless bees. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2018, vol. 124, no. 2, pp. 194-200., Registrované v: WOS

15. [1.1] PEREIRA, Ana Paula - MENDES-FERREIRA, Ana - ESTEVINHO, Leticia M. - MENDES-FAIA, Arlete. Improvement of mead fermentation by honey-must supplementation. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2015, vol. 121, no. 3, pp. 405-410., Registrované v: WOS

16. [1.1] PEREIRA, Ana Paula - MENDES-FERREIRA, Ana - DIAS, Luis G. - OLIVEIRA, Jose M. - ESTEVINHO, Leticia M. - MENDES-FAIA, Arlete. Volatile Composition and Sensory Properties of Mead. In MICROORGANISMS, 2019, vol. 7, no. 10, pp., Registrované v: WOS

17. [1.1] PEREIRA, A. P. - MENDES-FERREIRA, A. - OLIVEIRA, J. M. - ESTEVINHO, L. M. - MENDES-FAIA, A. Mead production: effect of nitrogen supplementation on growth, fermentation profile and aroma formation by yeasts in mead fermentation. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2015, vol. 121, no. 1, pp. 122-128., Registrované v: WOS

18. [1.1] PEREIRA, A. P. - OLIVEIRA, J. M. - MENDES-FERREIRA, A. - ESTEVINHO, L. M. - MENDES-FAIA, A. Mead and Other Fermented Beverages. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: FOOD AND BEVERAGES INDUSTRY, 2017, vol., no., pp. 407-434., Registrované v: WOS

19. [1.1] SOCHA, Robert - PAJAK, Paulina - FORTUNA, Teresa -

- BUKSA, Krzysztof. Phenolic Profile and Antioxidant Activity of Polish Meads. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2015, vol. 18, no. 12, pp. 2713-2725., Registrované v: WOS
20. [1.1] SROKA, Pawel - SATORA, Pawel - TARKO, Tomasz - DUDA-CHODAK, Aleksandra. The influence of yeast immobilization on selected parameters of young meads. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 2, pp. 289-295., Registrované v: WOS
21. [1.1] STAROWICZ, Malgorzata - GRANVOGL, Michael. Trends in food science & technology an overview of mead production and the physicochemical, toxicological, and sensory characteristics of mead with a special emphasis on flavor. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2020, vol. 106, no., pp. 402-416. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.09.006>., Registrované v: WOS
22. [1.1] VIDRIH, Rajko - HRIBAR, Janez. Mead: The Oldest Alcoholic Beverage. In TRADITIONAL FOODS: GENERAL AND CONSUMER ASPECTS, 2016, vol., no., pp. 325-338., Registrované v: WOS
23. [1.2] PEREIRA, A. P. - OLIVEIRA, J. M. - MENDES-FERREIRA, A. - ESTEVINHO, L. M. - MENDES-FAIA, A. Mead and Other Fermented Beverages. In Current Developments in Biotechnology and Bioengineering: Food and Beverages Industry, 2016-09-16, pp. 407-434., Registrované v: SCOPUS
24. [3.1] Cavaco, T (Cavaco Teresa); Figueira, CA (Figueira Cristina Ana). (2016). Functional properties of honey and some traditional honey products from Portugal. In Kristberg Kristbergsson, Semih Ötles (eds.). Functional Properties of Traditional Foods, Book series: Integrating Food Science and Engineering Knowledge Into the Food, Vol. 12 (Springer Science, chapter 24, pp. 339-352)

ADCA967 NAVRÁTIL, M. - GEMEINER, Peter - KLEIN, J. - ŠTURDÍK, E. - MALOVÍKOVÁ, Anna - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - DOMÉNY, Z. - ŠMOGROVIČOVÁ, D. Properties of hydrogel materials used for entrapment of microbial cells in production of fermented beverages. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2002, vol. 30, p. 199-218. ISSN 1073-1199.

Ohlasy:

1. [1.1] GHANBARZADEH, Mehri - GOLMORADIZADEH, Asma - HOMAEI, Ahmad. Carrageenans and carrageenases: versatile polysaccharides and promising marine enzymes. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2018, vol. 17, no. 3, pp. 535-571., Registrované v: WOS
2. [1.1] MELNYK, Yuriy - STETSYSHYN, Yuriy - SKOROKHODA, Volodymyr - NASTISHIN, Yuriy. Polyvinylpyrrolidone-graft-poly(2-hydroxyethylmethacrylate) hydrogel membranes for encapsulated forms of drugs. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2020, vol. 27, no. 11, pp. Dostupné na: <https://doi.org/10.1007/s10965-020-02335-7>., Registrované v: WOS
3. [3.1] Mallik, AK (Mallik, Abul K); Shahruzzaman, Md (Shahruzzaman, Md); Sakib, Md. N (Sakib, Md. Nurus); Zaman, A (Zaman, Asaduz); Rahman, Md. S (Rahman, Md. Shirajur); Islam, Md. M (Islam, Md. Minhajul); Islam, Md. S (Islam, Md. Sazedul); Haque, P (Haque, Papia); Rahman, M M (Rahman, Mohammed Mizanur). Benefits of Renewable

Hydrogels over Acrylate- and Acrylamide-Based Hydrogels.
CELLULOSE-BASED SUPERABSORBENT HYDROGELS. ISBN:
978-3-319-77829-7, 2019, Pages: 197-243

- ADCA968 NEČEDOVÁ, Mária - MAGDOLEN, Peter - NOVÁKOVÁ, Veronika - CIGÁŇ, Marek - VLČKOVÁ, Silvia - ZAHRADNÍK, Pavol - FULUPOVÁ, Andrea. Synthesis and photophysical, electrochemical and theoretical study of thiazole-annelated phthalocyanines. In *European Journal of Organic Chemistry*, 2015, vol. 2015, p. 7053-7068. (2014: 3.065 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1434-193X. Dostupné na: <https://doi.org/10.1002/ejoc.201500785>
Ohlasy:
1. [1.1] ARSLANTAS, Ali - AGIRTAS, Mehmet Salih. The interaction between a zinc(II) phthalocyanine compound bearing octakis phenoxyacetamide substituents and calf thymus DNA. In *TURKISH JOURNAL OF CHEMISTRY*. ISSN 1300-0527, 2018, vol. 42, no. 5, pp. 1310-1320., Registrované v: WOS
- ADCA969 NEMCOVÁ, Kornélia - BREIEROVÁ, Emília - VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana. The diversity of yeasts associated with grapes and musts of the Strekov winegrowing region, Slovakia. In *Folia Microbiologica*, 2015, vol. 60, p. 103-109. (2014: 1.000 - IF, Q4 - JCR, 0.425 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-014-0347-x>
Ohlasy:
1. [1.1] ALBERTIN, Warren - MASNEUF-POMAREDE, Isabelle - GALEOTE, Virginie - LEGRAS, Jean-Luc. New Insights Into Wine Yeast Diversities. In *YEASTS IN THE PRODUCTION OF WINE*, 2019, vol., no., pp. 117-163., Registrované v: WOS
2. [1.1] CASTRILLO, David - RABUNAL, Eva - NEIRA, Noemi - BLANCO, Pilar. Yeast diversity on grapes from Galicia, NW Spain: biogeographical patterns and the influence of the farming system. In *OENO ONE*, 2019, vol. 53, no. 3, pp. 573-587., Registrované v: WOS
3. [1.1] DRUMONDE-NEVES, Joao - FRANCO-DUARTE, Ricardo - LIMA, Teresa - SCHULLER, Dorit - PAIS, Celia. Yeast Biodiversity in Vineyard Environments Is Increased by Human Intervention. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 8, pp., Registrované v: WOS
4. [1.1] DUMITRACHE, Corina - FRINCUI, Mihai - RADOI, Tudor Alexandru - BARBULESCU, Iuliana Diana - MIHAI, Constanta - MATEI, Florentina - TUDOR, Valerica - TEODORESCU, Razvan Lonut. IDENTIFICATION BY PCR ITS-RFLP TECHNIQUE OF NEW YEAST ISOLATES FROM PIETROASA VINEYARD. In *SCIENTIFIC PAPERS-SERIES B-HORTICULTURE*. ISSN 2285-5653, 2020, vol. 64, no. 1, pp. 287-293., Registrované v: WOS
5. [1.1] LORENZINI, Marilinda - ZAPPAROLI, Giacomo. Yeast-like fungi and yeasts in withered grape carposphere: Characterization of *Aureobasidium pullulans* population and species diversity. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2019, vol. 289, no., pp. 223-230., Registrované v: WOS
6. [1.1] MOZURAITIS, Raimondas - ALEKNAVICIUS, Dominykas - VEPSTAITE-MONSTAVICE, Igle - STANEVICIENE, Ramune - EMAMI,

- Seyedeh Noushin - APSEGAITE, Violeta - RADZIUTE, Sandra - BLAZYTE-CERESKIENE, Laima - SERVIENE, Elena - BUDA, Vincas. Hippophae rhamnoides berry related Pichia kudriavzevii yeast volatiles modify behaviour of Rhagoletis batava flies. In JOURNAL OF ADVANCED RESEARCH. ISSN 2090-1232, 2020, vol. 21, no., pp. 71-77. Dostupné na: <https://doi.org/10.1016/j.jare.2019.08.001>., Registrované v: WOS
7. [1.1] PADILLA, Beatriz - GIL, Jose V. - MANZANARES, Paloma. Challenges of the Non-Conventional Yeast Wickerhamomyces anomalus in Winemaking. In FERMENTATION-BASEL, 2018, vol. 4, no. 3, pp., Registrované v: WOS
8. [1.1] SIPICZKI, Matthias. Overwintering of Vineyard Yeasts: Survival of Interacting Yeast Communities in Grapes Mummified on Vines. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
9. [1.1] ZABUKOVEC, Polona - CADEZ, Neza - CUS, Franc. Isolation and Identification of Indigenous Wine Yeasts and Their Use in Alcoholic Fermentation. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2020, vol. 58, no. 3, pp. 337-347. Dostupné na: <https://doi.org/10.17113/ftb.58.03.20.6677>., Registrované v: WOS
10. [1.2] DESHPANDE, Mukund V. - MANE, Sarika S. - GHORMADE, Vandana - TUPE, Santosh G. Diversity of natural yeast flora of grapes and its significance in wine making. In Yeast Diversity in Human Welfare, 2017-05-13, pp. 1-27., Registrované v: SCOPUS

ADCA970 NEMČOVIČ, Marek - FARKAŠ, Vladimír. Cell-wall composition and polysaccharide synthase activity changes following photoinduction in Trichoderma viride. In *Acta biologica Hungarica*, 2001, vol. 52, p. 281-288. ISSN 0236-5383. Dostupné na: <https://doi.org/10.1556/ABiol.52.2001.2-3.12>

Ohlasy:

1. [1.1] JANIK, Anna - NIEWIADOMSKA, Monika - PERLINSKA-LENART, Urszula - LENART, Jacek - KOLAKOWSKI, Damian - SKORUPINSKA-TUDEK, Karolina - SWIEZEWSKA, Ewa - KRUSZEWSKA, Joanna S. - PALAMARCZYK, Grazyna. Inhibition of Dephosphorylation of Dolichyl Diphosphate Alters the Synthesis of Dolichol and Hinders Protein N-Glycosylation and Morphological Transitions in Candida albicans. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 20, pp., Registrované v: WOS
2. [1.1] JUCHIMIUK, Mateusz - KRUSZEWSKA, Joanna - PALAMARCZYK, Grazyna. Dolichol phosphate mannose synthase from the pathogenic yeast Candida albicans is a multimeric enzyme. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2015, vol. 1850, no. 11, pp. 2265-2275., Registrované v: WOS
3. [1.1] KONTAR, Szilvia - VARECKA, L'udovit - HIRES, Michal - KRYSTOFOVA, Svetlana - SIMKOVIC, Martin. Light-induced conidiation of Trichoderma spp. strains is accompanied by development-dependent changes in the Ca²⁺ binding to cell walls. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2018, vol. 64, no. 11, pp. 856-864., Registrované v: WOS
4. [1.1] NIEWIADOMSKA, Monika - JANIK, Anna - PERLINSKA-LENART, Urszula - PILSYK, Sebastian - PALAMARCZYK,

Grayna - KRUSZEWSKA, Joanna S. The role of Alg13 N-acetylglucosaminyl transferase in the expression of pathogenic features of *Candida albicans*. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 4, pp. 789-801., Registrované v: WOS

5. [1.1] STAPPLER, Eva - RODRIGUEZ-IGLESIAS, Aroa - BAZAFKAN, Hoda - LI, Guofen - SCHMOLL, Monika. Relevance of Signal Transduction Pathways for Efficient Gene Expression in Fungi. In GENE EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 309-334., Registrované v: WOS

ADCA971 NEMČOVIČ, Marek - JAKUBÍKOVÁ, Lucia - VÍDEN, I. - FARKAŠ, Vladimír. Induction of conidiation by endogenous volatile compounds in *Trichoderma* spp. In *FEMS Microbiology Letters*, 2008, vol. 284, p. 231-236. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.2008.01202.x>

Ohlasy:

1. [1.1] ANGEL CONTRERAS-CORNEJO, Hexon - MACIAS-RODRIGUEZ, Lourdes - DEL-VAL, Ek - LARSEN, John. Ecological functions of *Trichoderma* spp. and their secondary metabolites in the rhizosphere: interactions with plants. In FEMS MICROBIOLOGY ECOLOGY. ISSN 0168-6496, 2016, vol. 92, no. 4, pp., Registrované v: WOS
2. [1.1] ATRIZTAN-HERNANDEZ, Karina - MORENO-PEDRAZA, Abigail - WINKLER, Robert - MARKOW, Therese - HERRERA-ESTRELLA, Alfredo. *Trichoderma atroviride* from Predator to Prey: Role of the Mitogen-Activated Protein Kinase Tmk3 in Fungal Chemical Defense against Fungivory by *Drosophila melanogaster* Larvae. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 2, pp., Registrované v: WOS
3. [1.1] BARRA, Lena - BARAC, Paul - KOENIG, Gabriele M. - CRUESEMANN, Max - DICKSCHAT, Jeroen S. Volatiles from the fungal microbiome of the marine sponge *Callyspongia* cf. *flammea*. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 35, pp. 7411-7421., Registrované v: WOS
4. [1.1] CALE, Jonathan A. - COLLIGNON, R. Maxwell - KLUTSCH, Jennifer G. - KANEKAR, Sanat S. - HUSSAIN, Altaf - ERBILGIN, Nadir. Fungal Volatiles Can Act as Carbon Sources and Semiochemicals to Mediate Interspecific Interactions Among Bark Beetle-Associated Fungal Symbionts. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 9, pp., Registrované v: WOS
5. [1.1] DICKSCHAT, Jeroen S. Fungal volatiles a survey from edible mushrooms to moulds. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2017, vol. 34, no. 3, pp. 310-328., Registrované v: WOS
6. [1.1] DIJKSTERHUIS, Jan. Fungal spores: Highly variable and stress-resistant vehicles for distribution and spoilage. In FOOD MICROBIOLOGY. ISSN 0740-0020, 2019, vol. 81, no., pp. 2-11., Registrované v: WOS
7. [1.1] EL-BIALY, Heba Abd Alla - SHAHIN, Azza Adel-Fattah Mohamed - EL-FOULY, Mohie Zohier - AWAD, Mohamed Ahmed - KHALIFA, EL-Said Zaki - FAHMY, Shima Mohamed. Volatiles and functional

- peptides compositions of *Trichoderma* variants induced by a new strategy of irradiation. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2019, vol. 20, no., pp., Registrované v: WOS
8. [1.1] ESSER, Karl - LEMKE, Paul A. The *Mycota* A Comprehensive Treatise on Fungi as Experimental Systems for Basic and Applied Research Growth, Differentiation and Sexuality Third Edition Series Preface. In *GROWTH, DIFFERENTIATION AND SEXUALITY*, 3RD EDITION. ISSN 1833-4938, 2016, vol. 1, no., pp. VII-IX., Registrované v: WOS
 9. [1.1] GESSLER, N. N. - FILIPPOVICH, S. Yu. - BACHURINA, G. P. - KHARCHENKO, E. A. - GROZA, N. V. - BELOZERSKAYA, T. A. Oxylipins and Oxylin Synthesis Pathways in Fungi. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 628-639., Registrované v: WOS
 10. [1.1] GUNESER, Onur - YUCEER, Yonca Karagul. Biosynthesis of eight-carbon volatiles from tomato and pepper pomaces by fungi: *Trichoderma atroviride* and *Aspergillus sojae*. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2017, vol. 123, no. 4, pp. 451-459., Registrované v: WOS
 11. [1.1] GUO, Yuan - GHIRARDO, Andrea - WEBER, Bads - SCHNITZLER, Jorg-Peter - BENZ, J. Philipp - ROSENKRANZ, Maaria. *Trichoderma* Species Differ in Their Volatile Profiles and in Antagonism Toward *Ectomycorrhiza Laccaria bicolor*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
 12. [1.1] HOLIGHAUS, Gerrit - ROHLFS, Marko. Volatile and non-volatile fungal oxylin in fungus-invertebrate interactions. In *FUNGAL ECOLOGY*. ISSN 1754-5048, 2019, vol. 38, no., pp. 28-36., Registrované v: WOS
 13. [1.1] HUANG, C. - QIAN, Y. - VIANA, T. - SIEGUMFELDT, H. - ARNEBORG, N. - LARSEN, N. - JESPERSEN, L. The quorum-sensing molecule 2-phenylethanol impaired conidial germination, hyphal membrane integrity and growth of *Penicillium expansum* and *Penicillium nordicum*. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2020, vol. 129, no. 2, pp. 278-286. Dostupné na: <https://doi.org/10.1111/jam.14621>., Registrované v: WOS
 14. [1.1] INAMDAR, Arati A. - MORATH, Shannon - BENNETT, Joan W. Fungal Volatile Organic Compounds: More Than Just a Funky Smell? In *ANNUAL REVIEW OF MICROBIOLOGY*, VOL 74, 2020. ISSN 0066-4227, 2020, vol. 74, no., pp. 101-116. Dostupné na: <https://doi.org/10.1146/annurev-micro-012420-080428>., Registrované v: WOS
 15. [1.1] JONES, Stephanie E. - ELLIOT, Marie A. *Streptomyces* Exploration: Competition, Volatile Communication and New Bacterial Behaviours. In *TRENDS IN MICROBIOLOGY*. ISSN 0966-842X, 2017, vol. 25, no. 7, pp. 523-532., Registrované v: WOS
 16. [1.1] KATAOKA, Ryousuke - WATANABE, Taisuke - YANO, Shigekazu - MIZUTANI, Osamu - YAMADA, Osamu - KASUMI, Takafumi - OGIHARA, Jun. *Aspergillus luchuensis* fatty acid oxygenase ppoC is necessary for 1-octen-3-ol biosynthesis in rice koji. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2020, vol. 129, no. 2, pp. 192-198. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2019.08.010>., Registrované v: WOS
 17. [1.1] KHAN, Mujeebur R. - MOHIDDIN, Fayaz A. *Trichoderma*: Its

- Multifarious Utility in Crop Improvement. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: CROP IMPROVEMENT THROUGH MICROBIAL BIOTECHNOLOGY, 2018, vol., no., pp. 263-291., Registrované v: WOS
18. [1.1] KUNZLER, Markus. How fungi defend themselves against microbial competitors and animal predators. In PLOS PATHOGENS. ISSN 1553-7366, 2018, vol. 14, no. 9, pp., Registrované v: WOS
19. [1.1] LI, Ningxiao - ALFIKY, Alsayed - VAUGHAN, Martha M. - KANG, Seogchan. Stop and smell the fungi: Fungal volatile metabolites are overlooked signals involved in fungal interaction with plants. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2016, vol. 30, no. 3, pp. 134-144., Registrované v: WOS
20. [1.1] LI, Ningxiao - ALFIKY, Alsayed - WANG, Wenzhao - ISLAM, Md - NOUROLLAHI, Khoshnood - LIU, Xingzhong - KANG, Seogchan. Volatile Compound-Mediated Recognition and Inhibition Between Trichoderma Biocontrol Agents and Fusarium oxysporum. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
21. [1.1] LI, Ningxiao - WANG, Wenzhao - BITAS, Vasileios - SUBBARAO, Krishna - LIU, Xingzhong - KANG, Seogchan. Volatile Compounds Emitted by Diverse Verticillium Species Enhance Plant Growth by Manipulating Auxin Signaling. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2018, vol. 31, no. 10, pp. 1021-1031., Registrované v: WOS
22. [1.1] LOULIER, Jeremie - LEFORT, Francois - STOCKI, Marcin - ASZTEMBORSKA, Monika - SZMIGIELSKI, Rafal - SIWEK, Krzysztof - GRZYWACZ, Tomasz - HSIANG, Tom - SLUSARSKI, Slawomir - OSZAKO, Tomasz - KLISZ, Marcin - TARAKOWSKI, Rafal - NOWAKOWSKA, Justyna Anna. Detection of Fungi and Oomycetes by Volatiles Using E-Nose and SPME-GC/MS Platforms. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235749>., Registrované v: WOS
23. [1.1] MACIAS-RODRIGUEZ, Lourdes - ANGEL CONTRERAS-CORNEJO, Hexon - SALVADOR LOPEZ-BUCIO, Jesus - LOPEZ-BUCIO, Jose. Recent advancements in the role of volatile organic compounds from fungi. In FUNGAL BIOMOLECULES: SOURCES, APPLICATIONS AND RECENT DEVELOPMENTS, 2015, vol., no., pp. 87-99., Registrované v: WOS
24. [1.1] MACIAS-RODRIGUEZ, Lourdes - ANGEL CONTRERAS-CORNEJO, Hexon - GORETTI ADAME-GARNICA, Sandra - DEL-VAL, Ek - LARSEN, John. The interactions of Trichoderma at multiple trophic levels: inter-kingdom communication. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126552>., Registrované v: WOS
25. [1.1] MEHMOOD, Arshad - LIU, Guorong - WANG, Xin - MENG, Guannan - WANG, Chengtao - LIU, Ya. Fungal Quorum-Sensing Molecules and Inhibitors with Potential Antifungal Activity: A Review. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 10, pp., Registrované v: WOS
26. [1.1] MISHRA, Vineet Kumar - PASSARI, Ajit Kumar - CHANDRA, Preeti - LEO, Vincent Vineeth - KUMAR, Brijesh - UTHANDI, Sivakumar - THANKAPPAN, Sugitha - GUPTA, Vijai Kumar - SINGH, Bhim

Pratap. Determination and production of antimicrobial compounds by *Aspergillus clavatonanicus* strain MJ31, an endophytic fungus from *Mirabilis jalapa* L. using UPLC-ESIMS/MS and TD-GC-MS analysis. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS

27. [1.1] MOYA, Paulina - GIROTTI, Juan Roberto - TOLEDO, Andrea Vanesa - SISTERNA, Marina Noemi. Antifungal activity of *Trichoderma* VOCs against *Pyrenophora teres*, the causal agent of barley net blotch. In Journal of Plant Protection Research. ISSN 14274345, 2018-01-01, 58, 1, pp. 45-53., Registrované v: WOS

28. [1.1] MUNIZ-PAREDES, Facundo - MIRANDA-HERNANDEZ, Francisco - LOERA, Octavio. Production of conidia by entomopathogenic fungi: from inoculants to final quality tests. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2017, vol. 33, no. 3, pp., Registrované v: WOS

29. [1.1] ORBAN, Axel - HENNICKE, Florian - RUEHL, Martin. Volatilomes of *Cyclocybe aegerita* during different stages of monokaryotic and dikaryotic fruiting. In BIOLOGICAL CHEMISTRY. ISSN 1431-6730, 2020, vol. 401, no. 8, pp. 995-1004. Dostupné na: <https://doi.org/10.1515/hsz-2019-0392>., Registrované v: WOS

30. [1.1] PADDER, Sajad Ahmad - PRASAD, Rajendra - SHAH, Abdul Haseeb. Quorum sensing: A less known mode of communication among fungi. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2018, vol. 210, no., pp. 51-58., Registrované v: WOS

31. [1.1] PENNERMAN, Kayla K. - SCARSELLA, Joseph B. - YIN, Guo-Hua - HUA, Sui-Sheng T. - HARTMAN, Thomas G. - BENNETT, Joan W. Volatile 1-octen-3-ol increases patulin production by *Penicillium expansum* on a patulin-suppressing medium. In MYCOTOXIN RESEARCH. ISSN 0178-7888, 2019, vol. 35, no. 4, pp. 329-340., Registrované v: WOS

32. [1.1] PIECHULLA, Birgit - LEMFACK, Marie Chantal - KAI, Marco. Effects of discrete bioactive microbial volatiles on plants and fungi. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2017, vol. 40, no. 10, pp. 2042-2067., Registrované v: WOS

33. [1.1] RIQUELME, Meritxell - AGUIRRE, Jesus - BARTNICKI-GARCIA, Salomon - BRAUS, Gerhard H. - FELDBRUEGGE, Michael - FLEIG, Ursula - HANSBERG, Wilhelm - HERRERA-ESTRELLA, Alfredo - KAEMPER, Joerg - KUECK, Ulrich - MOURINO-PEREZ, Rosa R. - TAKESHITA, Norio - FISCHER, Reinhard. Fungal Morphogenesis, from the Polarized Growth of Hyphae to Complex Reproduction and Infection Structures. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 2, pp., Registrované v: WOS

34. [1.1] SCHMIDT, Ruth - CORDOVEZ, Viviane - DE BOER, Wietse - RAAIJMAKERS, Jos - GARBEVA, Paolina. Volatile affairs in microbial interactions. In ISME JOURNAL. ISSN 1751-7362, 2015, vol. 9, no. 11, pp. 2329-2335., Registrované v: WOS

35. [1.1] SCHULZ-BOHM, Kristin - MARTIN-SANCHEZ, Lara - GARBEVA, Paolina. Microbial Volatiles: Small Molecules with an Important Role in Infra- and Inter-Kingdom Interactions. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

36. [1.1] SORNAKILI, Archana - THANKAPPAN, Sugitha -

- SRIDHARAN, A. P. - NITHYA, P. - UTHANDI, Sivakumar. Antagonistic fungal endophytes and their metabolite-mediated interactions against phytopathogens in rice. In *PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY*. ISSN 0885-5765, 2020, vol. 112, no., pp. Dostupné na: <https://doi.org/10.1016/j.pmpp.2020.101525>., Registrované v: WOS
37. [1.1] SPECKBACHER, Verena - RUZSANYI, Veronika - WIGGER, Modestus - ZEILINGER, Susanne. The *Trichoderma atroviride* Strains P1 and IMI 206040 Differ in Their Light-Response and VOC Production. In *MOLECULES*, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010208>., Registrované v: WOS
38. [1.1] SPITELLER, Peter. Chemical ecology of fungi. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2015, vol. 32, no. 7, pp. 971-993., Registrované v: WOS
39. [1.1] SRIDHARAN, A. P. - THANKAPPAN, Sugitha - KARTHIKEYAN, G. - UTHANDI, Sivakumar. Comprehensive profiling of the VOCs of *Trichoderma longibrachiatum* EF5 while interacting with *Sclerotium rolfsii* and *Macrophomina phaseolina*. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126436>., Registrované v: WOS
40. [1.1] TORRES-CRUZ, Terry J. - HESSE, Cedar - KUSKE, Cheryl R. - PORRAS-ALFARO, Andrea. Presence and distribution of heavy metal tolerant fungi in surface soils of a temperate pine forest. In *APPLIED SOIL ECOLOGY*. ISSN 0929-1393, 2018, vol. 131, no., pp. 66-74., Registrované v: WOS
41. [1.1] WU, Sheng-Yen - DUNCAN, Larry W. Recruitment of an insect and its nematode natural enemy by olfactory cues from a saprophytic fungus. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2020, vol. 144, no., pp. Dostupné na: <https://doi.org/10.1016/j.soilbio.2020.107781>., Registrované v: WOS
42. [1.1] YIN, Guohua - PADHI, Sally - LEE, Samantha - HUNG, Richard - ZHAO, Guozhu - BENNETT, Joan W. Effects of Three Volatile Oxylipins on Colony Development in Two Species of Fungi and on *Drosophila* Larval Metamorphosis. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2015, vol. 71, no. 3, pp. 347-356., Registrované v: WOS
43. [1.1] YIN, Guohua - ZHANG, Yuliang - FU, Maojie - HUA, Sui Sheng T. - HUANG, Qixing - PENNERMAN, Kayla K. - WU, Guangxi - JURICK, Wayne M. - LEE, Samantha - BU, Lijing - ZHAO, Hui - BENNETT, Joan W. Influence of R and S enantiomers of 1-octen-3-ol on gene expression of *Penicillium chrysogenum*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2019, vol. 46, no. 7, pp. 977-991., Registrované v: WOS
44. [1.1] ZEILINGER, Susanne - GRUBER, Sabine - BANSAL, Rauindra - MUKHERJEE, Prasun K. Secondary metabolism in *Trichoderma* Chemistry meets genomics. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2016, vol. 30, no. 2, pp. 74-90., Registrované v: WOS
45. [1.2] JANGIR, Monika - PATHAK, Ritika - SHARMA, Abhishek - SHARMA, Shilpi - SHARMA, Satyawati. Volatiles as strong markers for antifungal activity against *Fusarium oxysporum* f. sp. *lycopersici*. In *Indian Phytopathology*. ISSN 0367973X, 2019-12-01, 72, 4, pp. 681-687., Registrované v: SCOPUS
46. [1.2] KEMLER, Martin - WITFELD, Frederick - BEGEROW,

Dominik - YURKOV, Andrey. Phylloplane yeasts in temperate climates. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 171-197., Registrované v: SCOPUS

47. [1.2] KIDWAI, Mohd Kashif - NEHRA, Manju. Biotechnological applications of Trichoderma species for environmental and food security. In Plant Biotechnology: Recent Advancements and Developments, 2017-05-31, pp. 125-156., Registrované v: SCOPUS

48. [1.2] MEENA, Mukesh - SWAPNIL, Prashant - ZEHRA, Andleeb - DUBEY, Manish Kumar - UPADHYAY, R. S. Antagonistic assessment of Trichoderma spp. by producing volatile and non-volatile compounds against different fungal pathogens. In Archives of Phytopathology and Plant Protection. ISSN 03235408, 2017-08-27, 50, 13-14, pp. 629-648., Registrované v: SCOPUS

49. [1.2] MORATH, Shannon U. - BOLAND, Caitlin E. - BENNETT, Joan W. Saccharomyces cerevisiae as a model for screening the effects of volatile organic compounds. In Current Biotechnology. ISSN 22115501, 2017-02-01, 6, 1, pp. 1-7., Registrované v: SCOPUS

50. [1.2] PATIL, Anita Surendra - PATIL, Surendra Rajaram - PAIKRAO, Hariprasad Madhukarrao. Trichoderma secondary metabolites: Their biochemistry and possible role in disease management. In Microbial-Mediated Induced Systemic Resistance in Plants, 2016-01-01, pp. 103-124., Registrované v: SCOPUS

51. [1.2] SAAD, Ali Malik. Determination of secondary metabolites products by Trichoderma horzianum and evaluate antimicrobial activity. In Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2016-01-01, 7, 3, pp. 105-122., Registrované v: SCOPUS

52. [1.2] SALWAN, Richa - RIALCH, Nidhi - SHARMA, Vivek. Bioactive volatile metabolites of Trichoderma: An overview. In Secondary Metabolites of Plant Growth Promoting Rhizomicroorganisms: Discovery and Applications, 2019-01-01, pp. 87-111., Registrované v: SCOPUS

ADCA972 NEMČOVIČOVÁ, Ivana - ŠESTÁK, Sergej - RENDIČ, Dubravko - PLŠKOVÁ, Margita - MUCHA, Ján - WILSON, Iain B.H. Characterisation of class I and II α -mannosidases from Drosophila melanogaster. In *Glycoconjugate Journal*, 2013, vol. 30, p. 899-909. (2012: 1.882 - IF, Q4 - JCR, 0.850 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-013-9495-5>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS

2. [1.1] KOPP, Zachary - PARK, Yongkyu. Longer lifespan in the Rpd3 and Loco signaling results from the reduced catabolism in young age with noncoding RNA. In AGING-US. ISSN 1945-4589, 2019, vol. 11, no. 1, pp. 230-239., Registrované v: WOS

3. [1.1] LIU, Fang F. - KULINICH, Anna - DU, Ya M. - LIU, Li - VOGLMEIR, Josef. Sequential processing of mannose-containing glycans by two α -mannosidases from Solitalea canadensis. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2016, vol. 33, no. 2, pp. 159-168., Registrované v:

WOS

4. [1.1] VASQUEZ-PROCOPIO, Johana - OSORIO, Beatriz - CORTES-MARTINEZ, Leticia - HERNANDEZ-HERNANDEZ, Fidel - MEDINA-CONTRERAS, Oscar - RIOS-CASTRO, Emmanuel - COMJEAN, Aram - LI, Fangge - HU, Yanhui - MOHR, Stephanie - PERRIMON, Norbert - MISSIRLIS, Fanis. Intestinal response to dietary manganese depletion in *Drosophila*. In METALLOMICS. ISSN 1756-5901, 2020, vol. 12, no. 2, pp. 218-240., Registrované v: WOS
5. [1.1] WALSKI, Tomasz - DE SCHUTTER, Kristof - VAN DAMME, Els J. M. - SMAGGHE, Guy. Diversity and functions of protein glycosylation in insects. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2017, vol. 83, no., pp. 21-34., Registrované v: WOS
6. [1.1] WALSKI, Tomasz - VAN DAMME, Els J. M. - SMARGIASSO, Nicolas - CHRISTIAENS, Olivier - DE PAUW, Edwin - SMAGGHE, Guy. Protein N-glycosylation and N-glycan trimming are required for postembryonic development of the pest beetle *Tribolium castaneum*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
7. [1.1] WEDD, Laura - ASHBY, Regan - FORET, Sylvain - MALESZKA, Ryszard. Developmental and loco-like effects of a swainsonine-induced inhibition of alpha-mannosidase in the honey bee, *Apis mellifera*. In PEERJ. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
8. [1.1] WEDD, Laura - KUCHARSKI, Robert - MALESZKA, Ryszard. Differentially methylated obligatory epialleles modulate context-dependent LAM gene expression in the honeybee *Apis mellifera*. In EPIGENETICS. ISSN 1559-2294, 2016, vol. 11, no. 1, pp. 1-10., Registrované v: WOS

ADCA973 NEMČOVIČOVÁ, Ivana - BENEDICT, C.A. - ZAJONC, D.M. Structure of Human Cytomegalovirus UL141 Binding to TRAIL-R2 Reveals Novel, Non-canonical Death Receptor Interactions. In *PLoS Pathogens*, 2013, vol. 3, p. e1003224. (2012: 8.136 - IF, 5.051 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1553-7366. Dostupné na: <https://doi.org/10.1371/journal.ppat.1003224>

Ohlasy:

1. [1.1] BAUDIN, Antoine - GUICHARD, Anne - COLLIE, Gavin W. - ROUSSEAU, Sabrina - CHAIGNEPAIN, Stephane - HOCQUELLET, Agnes - BERBON, Melanie - LOQUET, Antoine - MACKERETH, Cameron - GUICHARD, Gilles - ODAERT, Benoit. H-1, C-13, N-15 NMR resonance assignments and secondary structure determination of the extra-cellular domain from the human proapoptotic TRAIL-R2 death receptor 5 (DR5-ECD). In BIOMOLECULAR NMR ASSIGNMENTS. ISSN 1874-2718, 2018, vol. 12, no. 2, pp. 309-314., Registrované v: WOS
2. [1.1] BERRY, Richard - WATSON, Gabrielle M. - JONJIC, Stipan - DEGLIESPOSTI, Mariapia A. - ROSSJOHN, Jamie. Modulation of innate and adaptive immunity by cytomegaloviruses. In NATURE REVIEWS IMMUNOLOGY. ISSN 1474-1733, 2020, vol. 20, no. 2, pp. 113-127., Registrované v: WOS
3. [1.1] DELL'OSTE, Valentina - BIOLATTI, Matteo - GALITSKA,

- Ganna - GRIFFANTE, Gloria - GUGLIESI, Francesca - PASQUERO, Selina - ZINGONI, Alessandra - CERBONI, Cristina - DE ANDREA, Marco. Tuning the Orchestra: HCMV vs. Innate Immunity. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp., Registrované v: WOS
4. [1.1] GOODIER, Martin R. - JONJIC, Stipan - RILEY, Eleanor M. - LISNIC, Vanda Juranic. CMV and natural killer cells: shaping the response to vaccination. In *EUROPEAN JOURNAL OF IMMUNOLOGY*. ISSN 0014-2980, 2018, vol. 48, no. 1, pp. 50-65., Registrované v: WOS
5. [1.1] GUAN, Xiaolu - ZHANG, Yao - YU, Mengmeng - REN, Chaoqi - GAO, Yanni - YUN, Bingling - LIU, Yongzhen - WANG, Yongqiang - QI, Xiaole - LIU, Changjun - CUI, Hongyu - ZHANG, Yanping - GAO, Li - LI, Kai - PAN, Qing - ZHANG, Baoshan - WANG, Xiaomei - GAO, Yulong. Residues 28 to 39 of the Extracellular Loop 1 of Chicken Na⁺/H⁺ Exchanger Type I Mediate Cell Binding and Entry of Subgroup J Avian Leukosis Virus. In *JOURNAL OF VIROLOGY*. ISSN 0022-538X, 2018, vol. 92, no. 1, pp., Registrované v: WOS
6. [1.1] HSU, Jye-Lin - VAN DEN BOOMEN, Dick J. H. - TOMASEC, Peter - WEEKES, Michael P. - ANTROBUS, Robin - STANTON, Richard J. - RUCKOVA, Eva - SUGRUE, Daniel - WILKIE, Gavin S. - DAVISON, Andrew J. - WILKINSON, Gavin W. G. - LEHNER, Paul J. Plasma Membrane Profiling Defines an Expanded Class of Cell Surface Proteins Selectively Targeted for Degradation by HCMV US2 in Cooperation with UL141. In *PLOS PATHOGENS*. ISSN 1553-7366, 2015, vol. 11, no. 4, pp., Registrované v: WOS
7. [1.1] JACKSON, Sarah E. - REDEKER, Anke - ARENS, Ramon - VAN BAARLE, Debbie - VAN DEN BERG, Sara P. H. - BENEDICT, Chris A. - CICIN-SAIN, Luka - HILL, Ann B. - WILLS, Mark R. CMV immune evasion and manipulation of the immune system with aging. In *GEROSCIENCE*. ISSN 2509-2715, 2017, vol. 39, no. 3, pp. 273-291., Registrované v: WOS
8. [1.1] LUGANINI, Anna - TERLIZZI, Maria E. - GRIBAUDO, Giorgio. Bioactive Molecules Released From Cells Infected with the Human Cytomegalovirus. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
9. [1.1] MICHEAU, Olivier. Posttranslational Modifications and Death Receptor Signalling. In *TRAIL, FAS LIGAND, TNF AND TLR3 IN CANCER*. ISSN 2196-5501, 2017, vol. 12, no., pp. 247-290., Registrované v: WOS
10. [1.1] NISHIMURA, Mitsuhiro - MORI, Yasuko. Structural Aspects of Betaherpesvirus-Encoded Proteins. In *HUMAN HERPESVIRUSES*. ISSN 0065-2598, 2018, vol. 1045, no., pp. 227-249., Registrované v: WOS
11. [1.1] NOBRE, Luis - NIGHTINGALE, Katie - RAVENHILL, Benjamin J. - ANTROBUS, Robin - SODAY, Lior - NICHOLS, Jenna - DAVIES, James A. - SEIRAFIAN, Sepehr - WANG, Eddie C. Y. - DAVISON, Andrew J. - WILKINSON, Gavin W. G. - STANTON, Richard J. - HUTTLIN, Edward L. - WEEKES, Michael P. Human cytomegalovirus interactome analysis identifies degradation hubs, domain associations and viral protein functions. In *ELIFE*. ISSN 2050-084X, 2019, vol. 8, no., pp., Registrované v: WOS
12. [1.1] O'DEA, Mark A. - TU, Shin-Lin - PANG, Stanley - DE RIDDER, Thomas - JACKSON, Bethany - UPTON, Chris. Genomic characterization of a novel poxvirus from a flying fox: evidence for a new genus? In *JOURNAL OF GENERAL VIROLOGY*. ISSN 0022-1317, 2016, vol. 97, no., pp. 2363-2375., Registrované v: WOS

13. [1.1] PATEL, Mihil - VLAHAVA, Virginia-Maria - FORBES, Simone K. - FIELDING, Ceri A. - STANTON, Richard J. - WANG, Eddie C. Y. HCMV-Encoded NK Modulators: Lessons From in vitro and in vivo Genetic Variation. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
14. [1.1] SLADEK, Vladimír - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein Residue Networks from Energetic and Geometric Data: Are They Identical? In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 12, pp. 6623-6631., Registrované v: WOS
15. [1.1] TAMADA, Taro - SHINMI, Daisuke - IKEDA, Masahiro - YONEZAWA, Yasushi - KATAOKA, Shiro - KUROKI, Ryota - MORI, Eiji - MOTOKI, Kazuhiro. TRAIL-R2 Superoligomerization Induced by Human Monoclonal Agonistic Antibody KMTR2. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
16. [1.1] VANAMEE, Eva S. - FAUSTMAN, Denise L. On the TRAIL of Better Therapies: Understanding TNFRSF Structure-Function. In *CELLS*, 2020, vol. 9, no. 3, pp., Registrované v: WOS
17. [1.1] ZHOU, Xingchen - JIANG, Wenbo - LIU, Zhongshun - LIU, Shuai - LIANG, Xiaozhen. Virus Infection and Death Receptor-Mediated Apoptosis. In *VIRUSES-BASEL*. ISSN 1999-4915, 2017, vol. 9, no. 11, pp., Registrované v: WOS

ADCA974 NILSSON, K.G.I. - SAKAGUCHI, K. - GEMEINER, Peter - MOSBACH, K. Molecular imprinting of acetylated carbohydrate derivatives into methacrylic polymers. In *Journal of Chromatography A : international Journal on Chromatography, Electrophoresis and Related Methods*, 1995, vol. 707, p. 199-203. (1995 - Current Contents). ISSN 0021-9673. Dostupné na: [https://doi.org/10.1016/0021-9673\(95\)00277-T](https://doi.org/10.1016/0021-9673(95)00277-T)

Ohlasy:

1. [1.1] DMITRIENKO, Elena V. - PYSHNAYA, Inna A. - MARTYANOV, Oleg N. - PYSHNYI, Dmitrii V. Molecularly imprinted polymers for biomedical and biotechnological applications. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2016, vol. 85, no. 5, pp. 513-536., Registrované v: WOS
2. [1.1] VLAKH, E. G. - KORZHIKOV, V. A. - HUBINA, A. V. - TENNIKOVA, T. B. Molecular imprinting: a tool of modern chemistry for the preparation of highly selective monolithic sorbents. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2015, vol. 84, no. 9, pp. 952-980., Registrované v: WOS

ADCA975 NOSÁLOVÁ, Gabriela - CAPEK, Peter - MATÁKOVÁ, Tatiana - NOSÁL, Slavomír - FLEŠKOVÁ, Dana - JUREČEK, Ľudovít. Antitussive activity of an extracellular *Rhodella grisea* proteoglycan on the mechanically induced cough reflex. In *Carbohydrate Polymers*, 2012, vol. 87, p. 752-756. (2011: 3.628 - IF, Q1 - JCR, 1.291 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2011.08.058>

Ohlasy:

1. [1.1] DELATTRE, Cedric - PIERRE, Guillaume - LAROCHE, Celine - MICHAUD, Philippe. Production, extraction and characterization of microalgal

and cyanobacterial exopolysaccharides. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2016, vol. 34, no. 7, pp. 1159-1179., Registrované v: WOS

2. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS

3. [1.1] SOANEN, Nastasia - DA SILVA, Elise - GARDARIN, Christine - MICHAUD, Philippe - LAROCHE, Celine. Improvement of exopolysaccharide production by *Porphyridium marinum*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 213, no., pp. 231-238., Registrované v: WOS

ADCA976 NOSÁLOVÁ, Gabriela - PRISENŽŇÁKOVÁ, Ľubica - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Suppressive effect of pectic polysaccharides from *Cucurbita pepo* L. var. *Styriaca* on citric acid-induced cough reflex in guinea pigs. In *Fitoterapia*, 2011, vol. 82, p. 357-364. (2010: 1.899 - IF, Q2 - JCR, 0.631 - SJR, Q2 - SJR). ISSN 0367-326X. Dostupné na: <https://doi.org/10.1016/j.fitote.2010.11.006>

Ohlasy:

1. [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS
2. [1.1] JALADAT, Amir Mohammad - ATARZADEH, Fatemeh - REZAEIZADEH, Hossein - MOFID, Bahram - MOSALAIE, Ahmad - FARHAN, Farshid - AMIN, Gholamreza. Botanicals: An alternative remedy to radiotherapy-induced dysuria. In COMPLEMENTARY THERAPIES IN MEDICINE. ISSN 0965-2299, 2015, vol. 23, no. 1, pp. 90-99., Registrované v: WOS
3. [1.1] JIWANI, Shahwar Imran - GILLIS, Richard B. - BESONG, David - ALMUTAIRI, Fahad - ERTEN, Tayyibe - KOK, M. Samil - HARDING, Stephen E. - PAULSEN, Berit S. - ADAMS, Gary G. Isolation and Biophysical Characterisation of Bioactive Polysaccharides from *Cucurbita Moschata* (Butternut Squash). In POLYMERS, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081650>., Registrované v: WOS
4. [1.1] LANS, Cheryl. Do recent research studies validate the medicinal plants used in British Columbia, Canada for pet diseases and wild animals taken into temporary care? In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2019, vol. 236, no., pp. 366-392., Registrované v: WOS
5. [1.1] SOCACI, Sonia A. - FARCAS, Anca C. - GALANAKIS, Charis M. Introduction in Functional Components for Membrane Separations. In SEPARATION OF FUNCTIONAL MOLECULES IN FOOD BY MEMBRANE TECHNOLOGY, 2019, vol., no., pp. 31-77., Registrované v: WOS
6. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9,

pp., Registrované v: WOS

7. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>.,

Registrované v: WOS

8. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

9. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcañota Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58

ADCA977 NOSÁLOVÁ, Gabriela - JUREČEK, Ludovít - TURJAN, Jozef - CAPEK, Peter - PRISENŽŇÁKOVÁ, Ľudmila - FRAŇOVÁ, Soňa. The cough suppressive activity of sulfated glucuronoxylan from *Fagus sylvatica* L. In *International Journal of Biological Macromolecules*, 2014, vol. 67, p. 312-317. (2013: 3.096 - IF, Q2 - JCR, 0.849 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

Ohlasy:

1. [1.1] ZHAO, Xianhai - TONG, Tingting - LI, HuiLing - LU, Haojun - REN, Junli - ZHANG, Aiping - DENG, Xiaomei - CHEN, Xiaoyang - WU, Ai-Min. Characterization of hemicelluloses from *Neolamarckia cadamba* (Rubiaceae) during xylogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 333-339., Registrované v: WOS

ADCA978 NOSÁLOVÁ, G. - STRAPKOVA, A. - KARDOŠOVÁ, Alžbeta - CAPEK, Peter. Antitussive activity of a rhamnogalacturonan isolated from the roots of *Althaea officinalis* L., var. *robusta*. In *Journal of Carbohydrate Chemistry*, 1993, vol. 12, no. 4 & 5, p. 589-596. Dostupné na: <https://doi.org/10.1080/07328309308019409>

Ohlasy:

1. [1.1] MAHBOUBI, Mohaddese. Marsh Mallow (*Althaea officinalis* L.) and Its Potency in the Treatment of Cough. In COMPLEMENTARY MEDICINE RESEARCH. ISSN 2504-2092, 2020, vol. 27, no. 3, pp. 174-182. Dostupné na: <https://doi.org/10.1159/000503747>., Registrované v: WOS

2. [1.1] SENDKER, Jandirk - BOEKER, Ines - LENGERS, Isabelle - BRANDT, Simone - JOSE, Joachim - STARK, Timo - HOFMANN, Thomas - FINK, Careen - ABDEL-AZIZ, Heba - HENSEL, Andreas. Phytochemical Characterization of Low Molecular Weight Constituents from Marshmallow Roots (*Althaea officinalis*) and Inhibiting Effects of the Aqueous Extract on Human Hyaluronidase-1. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 2, pp. 290-297., Registrované v: WOS

3. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In Zeitschrift für Phytotherapie. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209.,

Registrované v: SCOPUS

4. [1.2] KAREGAR-BORZI, Hossein - SALEHI, Mehdi - RAHIMI, Roja. Laūq: A Sustained-Release Dosage Form for Respiratory Disorders in Traditional Persian Medicine. In *Journal of Evidence-Based Complementary and Alternative Medicine*. ISSN 21565872, 2016-01-01, 21, 1, pp. 63-70., Registrované v: SCOPUS

ADCA979 NOSÁLOVÁ, G. - STRAPKOVÁ, A. - KARDOŠOVÁ, Alžbeta - CAPEK, Peter - ZÁTHURECKÝ, L. - BUKOVSKÁ, E. Antitusive efficacy of the vcomplex extract and the polysaccharide of marsh mallow (*Althea officinalis*L., var. *robusta*). In *Pharmazie : an international journal of pharmaceutical sciences*, 1992, vol. 47, p. 224-226. ISSN 0031-7144.

Ohlasy:

1. [1.1] MAHBOUBI, Mohaddese. Marsh Mallow (*Althaea officinalis*L.) and Its Potency in the Treatment of Cough. In *COMPLEMENTARY MEDICINE RESEARCH*. ISSN 2504-2092, 2020, vol. 27, no. 3, pp. 174-182. Dostupné na: <https://doi.org/10.1159/000503747>., Registrované v: WOS

2. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In *ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE*. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS

3. [1.1] SENDKER, Jandirk - BOEKER, Ines - LENGERS, Isabelle - BRANDT, Simone - JOSE, Joachim - STARK, Timo - HOFMANN, Thomas - FINK, Careen - ABDEL-AZIZ, Heba - HENSEL, Andreas. Phytochemical Characterization of Low Molecular Weight Constituents from Marshmallow Roots (*Althaea officinalis*) and Inhibiting Effects of the Aqueous Extract on Human Hyaluronidase-1. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 2, pp. 290-297., Registrované v: WOS

4. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy? In *FRONTIERS IN PHARMACOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS

5. [1.2] ABDOLAHINIA, Ali - NASERI, Mohsen - ESLAMINEJAD, Alireza - GHAFARI, Farzaneh - VELAYATI, Ali Akbar. Breathlessness from the perspective of the Persian medicine. In *Tanaffos*. ISSN 17350344, 2016-01-01, 15, 4, pp. 191-196., Registrované v: SCOPUS

6. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In *Zeitschrift für Phytotherapie*. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209., Registrované v: SCOPUS

ADCA980 NOSÁLOVÁ, G. - PRISENŽŇÁKOVÁ, L. - PAULOVÍČOVÁ, Ema - CAPEK, Peter - MATULOVÁ, Mária. Antitussive and immunomodulating activities of instant coffee arabinogalactan-protein. In *International Journal of Biological Macromolecules*, 2011, vol. 49, p. 493-497. (2010: 2.502 - IF, Q3 - JCR, 0.873 -

SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2011.06.004>

Ohlasy:

1. [1.1] AL REEF, Tatiana - GHANEM, Esther. Caffeine: Well-known as psychotropic substance, but little as immunomodulator. In IMMUNOBIOLOGY. ISSN 0171-2985, 2018, vol. 223, no. 12, pp. 818-825., Registrované v: WOS
2. [1.1] BACK, Yong Woo - CHOI, Seunga - CHOI, Han-Gyu - SHIN, Ki-Won - SON, Yeo-Jin - PAIK, Tae-Hyun - KIM, Hwa-Jung. Cell wall skeleton of Mycobacterium bovis BCG enhances the vaccine potential of antigen 85B against tuberculosis by inducing Th1 and Th17 responses. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 3, pp., Registrované v: WOS
3. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - MADUREIRA, Pedro - VILANOVA, Manuel - COIMBRA, Manuel A. Structure function relationships of immunostimulatory polysaccharides: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 378-396., Registrované v: WOS
4. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - CEPEDA, Marcio R. - LOPES, Guido R. - TEIXEIRA-COELHO, Maria - MADUREIRA, Pedro - NUNES, Fernando M. - VILANOVA, Manuel - COIMBRA, Manuel A. Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 242, no., pp. 548-554., Registrované v: WOS
5. [1.1] GASSCHT, Francois - DICATO, Mario - DIEDERICH, Marc. Coffee provides a natural multitarget pharmacopeia against the hallmarks of cancer. In GENES AND NUTRITION. ISSN 1555-8932, 2015, vol. 10, no. 6, pp., Registrované v: WOS
6. [1.1] GOKCEN, Busra Basar - SANLIER, Nevin. Coffee consumption and disease correlations. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2019, vol. 59, no. 2, pp. 336-348., Registrované v: WOS
7. [1.1] GOYAL, Mehendi - BARANWAL, Manoj - PANDEY, Satyendra Kumar - REDDY, Mondem Sudhakara. Hetero-Polysaccharides Secreted from Dunaliella salina Exhibit Immunomodulatory Activity Against Peripheral Blood Mononuclear Cells and RAW 264.7 Macrophages. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, 2019, vol. 59, no. 4, pp. 428-435., Registrované v: WOS
8. [1.1] KETHA, Kiranmayi - GUDIPATI, Muralikrishna. Immunomodulatory activity of non starch polysaccharides isolated from green gram (Vigna radiata). In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 113, no., pp. 269-276., Registrované v: WOS
9. [1.1] LI, Bo - ZHANG, Ning - FENG, Qisheng - LI, Hui - WANG, Dongxue - MA, Lin - LIU, Shuying - CHEN, ChangBao - WU, Wei - JIAO, Lili. The core structure characterization and of ginseng neutral polysaccharide with the immune-enhancing activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 123, no., pp. 713-722., Registrované v: WOS
10. [1.1] LI, Yujuan - XU, Fangxue - ZHENG, Mengmeng - XI, Xiaozhi - CUI, Xiaowei - HAN, Chunchao. Maca polysaccharides: A review of compositions, isolation, therapeutics and prospects. In INTERNATIONAL

JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 894-902., Registrované v: WOS

11. [1.1] LOPES, Guido R. - PASSOS, Claudia P. - RODRIGUES, Carla - TEIXEIRA, Jose A. - COIMBRA, Manuel A. Impact of microwave-assisted extraction on roasted coffee carbohydrates, caffeine, chlorogenic acids and coloured compounds. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 129, no., pp. Dostupné na:

<https://doi.org/10.1016/j.foodres.2019.108864>., Registrované v: WOS

12. [1.1] OKAMOTO, Yoshihiro - HARA, Takazumi - ITAYAMA, Asuka - KOIKE, Konomi. Coffee suppresses the differentiation of Th17 cells by inhibiting interleukin-6-induced phosphorylation of signal transducer and activator of transcription 3. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2016, vol. 242, no. 7, pp. 1141-1148., Registrované v: WOS

13. [1.1] POHANKA, Miroslav. Caffeine downregulates antibody production in a mouse model. In JOURNAL OF APPLIED BIOMEDICINE. ISSN 1214-021X, 2015, vol. 13, no. 1, pp. 1-6., Registrované v: WOS

14. [1.1] QI, Jia - KIM, Sang Moo. Effects of the molecular weight and protein and sulfate content of Chlorella ellipsoidea polysaccharides on their immunomodulatory activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 70-77., Registrované v: WOS

15. [1.1] YANG, Li-Chan - HSIEH, Chang-Chi - LIN, Wen-Chuan. Characterization and immunomodulatory activity of rice hull polysaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 124, no., pp. 150-156., Registrované v: WOS

16. [1.2] ANDERSON, George - MAES, Michael. A role for the regulation of the melatonergic pathways in Alzheimer's disease and other neurodegenerative and psychiatric conditions. In Serotonin and Melatonin: Their Functional Role in Plants, Food, Phytomedicine, and Human Health, 2017-01-01, pp. 421-444., Registrované v: SCOPUS

17. [1.2] KWAK, Bong Shin - SHIN, Kwang Soon. Chemical characteristics and immunostimulating activity of crude polysaccharide isolated from commercial instant coffee. In Korean Journal of Food Science and Technology. ISSN 03676293, 2016-06-01, 48, 3, pp. 289-295., Registrované v: SCOPUS

18. [1.2] SELVARAJ, R. - MAHESH KUMAR, N. - SIVARAMAN, D. Arabinogalactan protein – A potent immunostimulator. In International Journal of Pharmacognosy and Phytochemical Research, 2015-01-01, 7, 4, pp. 732-734., Registrované v: SCOPUS

ADCA981 NOSÁLOVÁ, G. - ŠUTOVSKÁ, M. - MOKRÝ, J. - KARDOŠOVÁ, Alžbeta - CAPEK, Peter - KHAN, M.T.H. Efficacy of herbal substances according to cough reflex. In *Minerva Biotechnologica*, 2005, vol. 17, p. 141-152.

Ohlasy:

1. [1.1] AYRLE, Hannah - MEVISSSEN, Meike - KASKE, Martin - NATHUES, Heiko - GRUETZNER, Niels - MELZIG, Matthias - WALKENHORST, Michael. Medicinal plants prophylactic and therapeutic options for gastrointestinal and respiratory diseases in calves and piglets? A systematic review. In BMC VETERINARY RESEARCH. ISSN 1746-6148,

2016, vol. 12, no., pp., Registrované v: WOS

2. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy? In *FRONTIERS IN PHARMACOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS

ADCA982 NOUAILLE, R. - MATULOVÁ, Mária - DELORT, A.-M. - FORANO, E. Oligosaccharide synthesis in *Fibrobacter succinogenes* S85 and its modulation by the substrate. In *FEBS Journal*, 2005, vol. 272, p. 2416-2427. (2005 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2005.04662.x>

Ohlasy:

1. [1.1] BORNEMANN, Stephen. alpha-Glucan biosynthesis and the GlgE pathway in *Mycobacterium tuberculosis*. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. ISSN 0300-5127, 2016, vol. 44, no., pp. 68-73., Registrované v: WOS

2. [1.1] HACKMANN, Timothy J. - FIRKINS, Jeffrey L. Maximizing efficiency of rumen microbial protein production. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

3. [1.1] SAN VITO, Elias - MESSANA, Juliana D. - CASTAGNINO, Pablo S. - GRANJA-SALCEDO, Yury T. - DALLANTONIA, Erick E. - BERCHIELLI, Telma T. Effect of crude glycerine in supplement on the intake, rumen fermentation, and microbial profile of Nellore steers grazing tropical grass. In *LIVESTOCK SCIENCE*. ISSN 1871-1413, 2016, vol. 192, no., pp. 17-24., Registrované v: WOS

4. [1.2] BEHERA, Basanta Kumara - VARMA, Ajit. Microbial biomass process technologies and management. In *Microbial Biomass Process Technologies and Management*, 2017-01-01, pp. 1-306., Registrované v: SCOPUS

ADCA983 NOUAILLE, R. - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - DELORT, A.-M. - FORANO, A. Production of oligosaccharides and cellobionic acid by *Fibrobacter succinogenes* S85 growing on sugars, cellulose and wheat straw. In *Applied Microbiology and Biotechnology*, 2009, vol. 83, p. 425-433. (2008: 2.569 - IF, Q2 - JCR, 1.249 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-009-1884-0>

Ohlasy:

1. [1.1] FERNANDES, Tania V. - VAN LIER, Jules B. - ZEEMAN, Grietje. Humic Acid-Like and Fulvic Acid-Like Inhibition on the Hydrolysis of Cellulose and Tributyrin. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2015, vol. 8, no. 2, pp. 821-831., Registrované v: WOS

2. [1.1] GHALI, Ines - SOFYAN, Ahmad - OHMORI, Hideyuki - SHINKAI, Takumi - MITSUMORI, Makoto. Diauxic growth of *Fibrobacter succinogenes* S85 on cellobiose and lactose. In *FEMS MICROBIOLOGY LETTERS*. ISSN 0378-1097, 2017, vol. 364, no. 15, pp., Registrované v: WOS

3. [1.1] LIU, Jianguo - LIU, Zhanying - LIU, Yucheng - HAO, Min - HOU, Xianzhi. Analysis of Cellulolytic Bacterial Flora in the Rumen of Inner Mongolian Sheep. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 4, pp. 9544-9556., Registrované v: WOS
4. [1.1] MAO, Shuhong - LIU, Yanna - HOU, Yali - MA, Xiaoyu - YANG, Juanjuan - HAN, Haichao - WU, Jianlin - JIA, Longgang - QIN, Huimin - LU, Fuping. Efficient production of sugar-derived aldonic acids by *Pseudomonas fragi* TCCC11892. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 70, pp. 39897-39901., Registrované v: WOS
5. [1.1] NAM, Young-Woo - NIHIRA, Takanori - ARAKAWA, Takatoshi - SAITO, Yuka - KITAOKA, Motomitsu - NAKAI, Hiroyuki - FUSHINOBU, Shinya. Crystal Structure and Substrate Recognition of Cellobionic Acid Phosphorylase, Which Plays a Key Role in Oxidative Cellulose Degradation by Microbes. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2015, vol. 290, no. 30, pp. 18281-18292., Registrované v: WOS
6. [1.1] NEUMANN, Anthony P. - MCCORMICK, Caroline A. - SUEN, Garret. Fibrobacter communities in the gastrointestinal tracts of diverse hindgut-fermenting herbivores are distinct from those of the rumen. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2017, vol. 19, no. 9, pp. 3768-3783., Registrované v: WOS
7. [1.1] NEUMANN, Anthony P. - WEIMER, Paul J. - SUEN, Garret. A global analysis of gene expression in *Fibrobacter succinogenes* S85 grown on cellulose and soluble sugars at different growth rates. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS

ADCA984 NOUAILLE, R. - MATULOVÁ, Mária - DELORT, A.M. - FORANO, E. Production of maltodextrin 1-phosphate by *Fibrobacter succinogenes* S. In *FEBS Letters*, 2004, vol. 576, p. 226-230. ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2004.09.019>

Ohlasy:

1. [1.1] BORNEMANN, Stephen. alpha-Glucan biosynthesis and the GlgE pathway in *Mycobacterium tuberculosis*. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 68-73., Registrované v: WOS

ADCA985 NOVÁKOVÁ, Slavomíra - KOLLEROVÁ, Edita - KLAUDINY, Jaroslav - ŠUBR, Zdeno W. Expression of a part of the Potato virus A non-structural protein P3 in *Escherichia coli* for the purpose of antibody preparation and P3 immunodetection in plant material. In *Journal of Virological Methods*, 2006, vol. 137, no. 2, p. 229 - 235. (2005: 1.886 - IF, Q2 - JCR, 0.873 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0166-0934. Dostupné na: <https://doi.org/10.1016/j.jviromet.2006.06.020>

Ohlasy:

1. [1.1] BALDI, Paolo - LA PORTA, Nicola. Molecular Approaches for Low-Cost Point-of-Care Pathogen Detection in Agriculture and Forestry. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.570862>., Registrované v: WOS
2. [1.1] KUNADIYA, Manisha B. - DUNSTAN, William D. - WHITE, Diane - HARDY, Giles E. St J. - GRIGG, Andrew H. - BURGESS, Trenea. A qPCR Assay for the Detection of *Phytophthora cinnamomi* Including an mRNA

Protocol Designed to Establish Propagule Viability in Environmental Samples. In PLANT DISEASE. ISSN 0191-2917, 2019, vol. 103, no. 9, pp. 2443-2450., Registrované v: WOS

3. [1.1] LAU, Han Yih - BOTELLA, Jose R. Advanced DNA-Based Point-of-Care Diagnostic Methods for Plant Diseases Detection. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

ADCA986 NURISSO, A. - KOZMON, Stanislav - IMBERTY, A. Comparison of docking methods for carbohydrate binding in calcium-dependent lectins and prediction of the carbohydrate binding mode to sea cucumber lectin CEL-III. In *Molecular Simulation*, 2008, vol. 34, p. 469-479. ISSN 0892-7022. Dostupné na: <https://doi.org/10.1080/08927020701697709>

Ohlasy:

1. [1.1] SAMSONOV, Sergey A. - PISABARRO, M. Teresa. Computational analysis of interactions in structurally available protein-glycosaminoglycan complexes. In GLYCOBIOLOGY. ISSN 0959-6658, 2016, vol. 26, no. 8, pp. 850-861., Registrované v: WOS

2. [1.1] SOMMER, Roman - MAKSHAKOVA, Olga N. - WOHLSCHLAGER, Therese - HUTIN, Stephanie - MARSH, May - TITZ, Alexander - KUNZLER, Markus - VARROT, Annabelle. Crystal Structures of Fungal Tectonin in Complex with O-Methylated Glycans Suggest Key Role in Innate Immune Defense. In STRUCTURE. ISSN 0969-2126, 2018, vol. 26, no. 3, pp. 391-+, Registrované v: WOS

3. [1.1] Sukumaran, Surya; Haridas, Madhathilkovilakathu. Asymmetric glycan recognition among alpha-beta monomers of Spatholobus parviflorus lectin: an insilico insight. In: International Journal of Computational Biology and Drug Design Volume: 12 Issue: 4 Pages: 332-344, Registrované v: WOS

4. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

5. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v: WOS

6. [1.2] DINGJIAN, Tamir - YURIEV, Elizabeth - RAMSLAND, Paul A. Computational approaches for studying carbohydrate-lectin interactions in infection. In Glycobiology and Human Diseases, 2016-02-22, pp. 129-147., Registrované v: SCOPUS

ADCA987 OBORSKÝ, Pavel - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Toward an accurate conformational modeling of iduronic acid. In *Journal of Physical Chemistry B*, 2013, vol. 138, p. 1003-1009. (2012: 3.607 - IF, Q2 - JCR, 1.943 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp3100552>

Ohlasy:

1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2018, vol. 50, no.,

pp. 58-64., Registrované v: WOS

2. [1.1] BOSE-BASU, Bidisha - ZHANG, Wenhui - KENNEDY, Jamie L. W. - HADAD, Matthew J. - CARMICHAEL, Ian - SERIANNI, Anthony S. C-13-Labeled Idohexopyranosyl Rings: Effects of Methyl Glycosidation and C6 Oxidation on Ring Conformational Equilibria. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 3, pp. 1356-1370.,

Registrované v: WOS

3. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS

4. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Perspective on computational simulations of glycosaminoglycans. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS

5. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Rigorous analysis of free solution glycosaminoglycan dynamics using simple, new tools. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 516-527. Dostupné na: <https://doi.org/10.1093/glycob/cwaa015>., Registrované v: WOS

6. [1.1] VICKMAN, Alison E. - ASHLEY, Daniel C. - BAIK, Mu-Hyun - POHL, Nicola L. B. Effects of varying the 6-position oxidation state of hexopyranoses: a systematic comparative computational analysis of 48 monosaccharide stereoisomers. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 7, pp., Registrované v: WOS

7. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v: WOS

8. [1.1] YANG, Mingjun - MACKERELL, Alexander D. Conformational Sampling of Oligosaccharides Using Hamiltonian Replica Exchange with Two-Dimensional Dihedral Biasing Potentials and the Weighted Histogram Analysis Method (WHAM). In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 2, pp. 788-799., Registrované v: WOS

ADCA988 ODONMAZIG, P. - BADGA, D. - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - MIHÁLOV, Vincent. An acidic D-xylan from the Siberian apricot (*Armenica siberica* L.) fruit. In *Carbohydrate Research*, 1990, vol. 198, p. 163-167. (1990 - Current Contents, SCOPUS). ISSN 0008-6215.

Ohlasy:

1. [1.1] CAMPESTRINI, Luciano Henrique - RASERA, Gabriela Boscariol - DE CAMARGO, Adriano Costa - FRANCHIN, Marcelo - NANI, Bruno Dias - ROSALEN, Pedro Luiz - CANNIATTI-BRAZACA, Solange Guidolin - TELLES BIASOTO, Aline Camarao - SHAHIDI, Fereidoon - ALENCAR, Severino Matias. Alkaline conditions better extract

anti-inflammatory polysaccharides from winemaking by-products. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108532>., Registrované v: WOS

2. [1.1] LEIVAS, Carolina Lopes - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Pectic type II arabinogalactans from starfruit (*Averrhoa carambola* L.). In FOOD CHEMISTRY. ISSN 0308-8146, 2016, vol. 199, no., pp. 252-257., Registrované v: WOS

3. [1.1] LEIVAS, Carolina L. - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. STRUCTURAL CHARACTERIZATION OF A TYPE II ARABINO GALACTAN FROM STARFRUIT (*Averrhoa carambola* L.). In PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2015, vol., no., pp. 134-138., Registrované v: WOS

ADCA989 ODOMMAZING, R. - EBRINGEROVÁ, Anna - MACHOVÁ, Eva - ALFOLDI, Juraj. Structural and molecular properties of the arabinogalactan isolated from Mongolian larchwood (*Larix dahurica* L.). In *Carbohydrate Research*, 1994, vol. 252, p. 317-324. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)90028-0](https://doi.org/10.1016/0008-6215(94)90028-0)

Ohlasy:

1. [1.1] ANDRE, Sabine - CLASSEN, Birgit - GABIUS, Hans-Joachim. Studies on Unprocessed and Acid-Treated Arabinogalactan from Larch as an Inhibitor of Glycan Binding of a Plant Toxin and Biomedically Relevant Human Lectins. In PLANTA MEDICA. ISSN 0032-0943, 2015, vol. 81, no. 12-13, pp. 1146-1153., Registrované v: WOS

2. [1.1] APANASENKO, Irina E. - SELYUTINA, Olga Yu. - POLYAKOV, Nikolay E. - SUNTSOVA, Lyubov P. - METELEVA, Elizaveta S. - DUSHKIN, Alexander V. - VACHALI, Preejith - BERNSTEIN, Paul S. Solubilization and stabilization of macular carotenoids by water soluble oligosaccharides and polysaccharides. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2015, vol. 572, no., pp. 58-65., Registrované v: WOS

3. [1.1] BUDDE, Insa - LITSCHKO, Christa - FUEHRING, Jana - GERARDY-SCHAHN, Rita - SCHUBERT, Mario - FIEBIG, Timm. An enzyme-based protocol for cell-free synthesis of nature-identical capsular oligosaccharides from *Actinobacillus pleuropneumoniae* serotype 1. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 17, pp. 5771-5784. Dostupné na: <https://doi.org/10.1074/jbc.RA120.012961>., Registrované v: WOS

4. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and characterization of pectins from primary cell walls of edible acai (*Euterpe oleracea*) berries, fruits of a monocotyledon palm. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v: WOS

5. [1.1] DION, Carine - CHAPPUIS, Eric - RIPOLL, Christophe. Does larch arabinogalactan enhance immune function? A review of mechanistic and clinical trials. In NUTRITION & METABOLISM. ISSN 1743-7075, 2016, vol. 13, no., pp., Registrované v: WOS

6. [1.1] FOCSAN, A. Ligia - POLYAKOV, Nikolay E. - KISPERS, Lowell D. Supramolecular Carotenoid Complexes of Enhanced Solubility and Stability-The Way of Bioavailability Improvement. In MOLECULES, 2019, vol. 24, no. 21, pp., Registrované v: WOS
7. [1.1] FUJITA, Kiyotaka - SAKAMOTO, Ayami - KANEKO, Satoshi - KOTAKE, Toshihisa - TSUMURAYA, Yoichi - KITAHARA, Kanefumi. Degradative enzymes for type II arabinogalactan side chains in Bifidobacterium longum subsp. longum. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 3, pp. 1299-1310., Registrované v: WOS
8. [1.1] GAFF, Milan - KACIK, Frantisek - GASPARIK, Miroslav - TODARO, Luigi - JONES, Dennis - CORLETO, Roberto - OSVALDOVA, Linda Makovicka - CEKOVSKA, Hana. The effect of synthetic and natural fire-retardants on burning and chemical characteristics of thermally modified teak (*Tectona grandis* L. f.) wood. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, 2019, vol. 200, no., pp. 551-558., Registrované v: WOS
9. [1.1] HORISAWA, Sakae - ANDO, Hiromasa - ARIGA, Osamu - SAKUMA, Yoh. Direct ethanol production from cellulosic materials by consolidated biological processing using the wood rot fungus *Schizophyllum commune*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 197, no., pp. 37-41., Registrované v: WOS
10. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana - ONDREJOVIC, Miroslav - CHMELOVA, Daniela. ISOLATION, COMPOSITION AND STRUCTURE OF POLYSACCHARIDES FROM LARIX DECIDUA. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, vol., no., pp. 142-147., Registrované v: WOS
11. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana. ULTRASOUND EXTRACTION, PURIFICATION, AND PHYSICOCHEMICAL PROPERTIES OF ARABINOGALACTAN FROM LARIX DECIDUAS SAWDUST. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, vol., no., pp. 152-156., Registrované v: WOS
12. [1.1] IMAIZUMI, Chiemi - TOMATSU, Harumi - KITAZAWA, Kiminari - YOSHIMI, Yoshihisa - SHIBANO, Seiji - KIKUCHI, Kaoru - YAMAGUCHI, Masatoshi - KANEKO, Satoshi - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. Heterologous expression and characterization of an Arabidopsis beta-L-arabinopyranosidase and alpha-D-galactosidases acting on beta-L-arabinopyranosyl residues. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 16, pp. 4651-4661., Registrované v: WOS
13. [1.1] KHVOSTOV, M. - TOLSTIKOVA, T. G. - BORISOV, S. A. - DUSHKIN, A. Application of Natural Polysaccharides in Pharmaceuticals. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2019, vol. 45, no. 6, pp. 438-450., Registrované v: WOS
14. [1.1] KONG, Ruiping - ZHU, Xingyi - METELEVA, Elizaveta S. - CHISTYACHENKO, Yulia S. - SUNTSOVA, Lyubov P. - POLYAKOV, Nikolay E. - KHVOSTOV, Mikhail V. - BAEV, Dmitry S. - TOLSTIKOVA,

- Tatjana G. - YU, Jianming - DUSHKIN, Alexander V. - SU, Weiike. Enhanced solubility and bioavailability of simvastatin by mechanochemically obtained complexes. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2017, vol. 534, no. 1-2, pp. 108-118., Registrované v: WOS
15. [1.1] LEIVAS, Carolina Lopes - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. Pectic type II arabinogalactans from starfruit (*Averrhoa carambola* L.). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 199, no., pp. 252-257., Registrované v: WOS
16. [1.1] LIU, Zhenze - UDENIGWE, Chibuike C. Role of food-derived opioid peptides in the central nervous and gastrointestinal systems. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2019, vol. 43, no. 1, pp., Registrované v: WOS
17. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS
18. [1.1] MAKAROVA, E. N. - SHAKHMATOV, E. G. - UDORATINA, E. V. - KUTCHIN, A. V. Structural and chemical characteristics of pectins, arabinogalactans, and arabinogalactan proteins from conifers. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2015, vol. 64, no. 6, pp. 1302-1318., Registrované v: WOS
19. [1.1] MCKEE, Lauren S. - BRUMER, Harry. Growth of *Chitinophaga pinensis* on Plant Cell Wall Glycans and Characterisation of a Glycoside Hydrolase Family 27 beta-L-Arabinopyranosidase Implicated in Arabinogalactan Utilisation. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 10, pp., Registrované v: WOS
20. [1.1] MOGHTADERI, Hassan - SEPEHRI, Houri - ATTARI, Farnoosh. Combination of arabinogalactan and curcumin induces apoptosis in breast cancer cells in vitro and inhibits tumor growth via overexpression of p53 level in vivo. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2017, vol. 88, no., pp. 582-594., Registrované v: WOS
21. [1.1] POLYAKOV, Nikolay E. - KISPERT, Lowell D. Water soluble biocompatible vesicles based on polysaccharides and oligosaccharides inclusion complexes for carotenoid delivery. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 128, no., pp. 207-219., Registrované v: WOS
22. [1.1] PRICE, Neil P. J. - VERMILLION, Karl E. - ELLER, Fred J. - VAUGHN, Steven F. Frost Grape Polysaccharide (FGP), an Emulsion-Forming Arabinogalactan Gum from the Stems of Native North American Grape Species *Vitis riparia* Michx. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 32, pp. 7286-7293., Registrované v: WOS
23. [1.1] SASAKI, Yuki - TOGO, Nami - KITAHARA, Kanefumi - FUJITA, Kiyotaka. Characterization of a GH36 beta-L-Arabinopyranosidase in *Bifidobacterium adolescentis*. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2018, vol. 65, no. 2, pp. 23-30., Registrované v: WOS
24. [1.1] SATO, Kazuki - HARA, Katsuya - YOSHIMI, Yoshihisa - KITAZAWA, Kiminari - ITO, Haruka - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. Y-arabinose reactivity of type II arabinogalactan from larch wood. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 467, no., pp. 8-13., Registrované v: WOS

25. [1.1] TANG, Shuo - JIANG, Meiyun - HUANG, Caoxing - LAI, Chenhuan - FAN, Yimin - YONG, Qiang. Characterization of arabinogalactans from *Larix principis-rupprechtii* and their effects on NO production by macrophages. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 200, no., pp. 408-415., Registrované v: WOS
26. [1.1] TANG, Shuo - WANG, Ting - HUANG, Caoxing - LAI, Chenhuan - FAN, Yimin - YONG, Qiang. Sulfated modification of arabinogalactans from *Larix principis-rupprechtii* and their antitumor activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 215, no., pp. 207-212., Registrované v: WOS
27. [1.1] YOUNAS, Muhammad - HANO, Christophe - GIGLIOLI-GUIVARCH, Nathalie - ABBASI, Bilal Haider. Mechanistic evaluation of phytochemicals in breast cancer remedy: current understanding and future perspectives. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 52, pp. 29714-29744., Registrované v: WOS
28. [1.2] STEVANOVIC, Tatjana. Chemical Composition and Properties of Wood. In Lignocellulosic Fibers and Wood Handbook: Renewable Materials for Today's Environment, 2016-05-17, pp. 49-106., Registrované v: SCOPUS
29. [3.2] Khvostov, M.V.; Tolstikova, T.G.; Borisov, S.A.; Dushkin, A.V. Plant Polysaccharides and Their Application in Pharmaceuticals. In: Russian Journal of Bioorganic Chemistry. ISSN: 1068-1620, 2019, Vol. 45, Issue: 6, p. 563-575

ADCA990 OMELKOVÁ, Jiřina - SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Inhibiting effect of β -escine on the growth of yeasts and yeast microorganism. In *Biologia*, 1990, vol. 45, p. 925-929. (1990 - Current Contents, WOS). ISSN 0006-3088.

Ohlasy:

1. [1.1] FRANICZEK, Roman - GLENSK, Michal - KRZYZANOWSKA, Barbara - WLODARCZYK, Maciej. beta-Aescin at subinhibitory concentration (sub-MIC) enhances susceptibility of *Candida glabrata* clinical isolates to nystatin. In MEDICAL MYCOLOGY. ISSN 1369-3786, 2015, vol. 53, no. 8, pp. 845-851., Registrované v: WOS
2. [1.1] VALLIERES, Cindy - SINGH, Nishant - ALEXANDER, Cameron - AVERY, Simon. Repurposing Nonantifungal Approved Drugs for Synergistic Targeting of Fungal Pathogens. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2020, vol. 6, no. 11, pp. 2950-2958. Dostupné na: <https://doi.org/10.1021/acsinfecdis.0c00405>., Registrované v: WOS

ADCA991 ONDRUŠKOVÁ, Nina - HONZÍK, Tomáš - KOLÁŘOVÁ, Hana - PAKANOVÁ, Zuzana - MUCHA, Ján - ZEMAN, Jiří - HANSÍKOVÁ, Hana**. Aberrant apolipoprotein C-III glycosylation in glycogen storage disease type III and IX. In *Metabolism, Clinical and Experimental*, 2018, vol. 82, p. 135-141. (2017: 5.963 - IF, Q1 - JCR, 2.285 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0026-0495. Dostupné na: <https://doi.org/10.1016/j.metabol.2018.01.004>

Ohlasy:

1. [1.1] BREWER, M. Kathryn - GENTRY, Matthew S. Brain Glycogen Structure and Its Associated Proteins: Past, Present and Future. In BRAIN GLYCOGEN METABOLISM. ISSN 2190-5215, 2019, vol. 23, no., pp. 17-81.,

Registrované v: WOS

2. [1.1] FRANCISCO, R. - MARQUES-DA-SILVA, D. - BRASIL, S. - PASCOAL, C. - DOS REIS FERREIRA, V - MORAVA, E. - JAEKEN, J. The challenge of CDG diagnosis. In *MOLECULAR GENETICS AND METABOLISM*. ISSN 1096-7192, 2019, vol. 126, no. 1, pp. 1-5., Registrované v: WOS

ADCA992 ORAVCOVA, J. - MLYNÁRIK, Vladimír - BYSTRICKÝ, Slavomír - ŠOLTĚS, Ladislav - SZALAY, Peter - BOHÁČIK, Ľubor - TRNOVEC, Tomáš. Interaction of Pirprofen enantiomers with human serum albumin. In *Chirality*, 1991, vol. 3, iss. 5, p. 412-417. ISSN 0899-0042. Dostupné na: <https://doi.org/10.1002/chir.530030506>

Ohlasy:

1. [1.1] ZIELINSKI, K. - SEKULA, B. - BUJACZ, A. - SZYMCZAK, I. Structural investigations of stereoselective profen binding by equine and leporine serum albumins. In *CHIRALITY*. ISSN 0899-0042, 2020, vol. 32, no. 3, p. 334-344., Registrované v: WOS

ADCA993 ORAVEC, Michal** - SASINKOVÁ, Vlasta - TOMANOVÁ, Katarína - GÁL, Lukáš - PARCIOVÁ, Silvia - HUCK, Christian W. In-situ surface-enhanced Raman scattering and FT-Raman spectroscopy of black prints. In *Vibrational Spectroscopy*, 2018, vol. 94, p. 16-21. (2017: 1.363 - IF, Q3 - JCR, 0.453 - SJR, Q3 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0924-2031. Dostupné na: <https://doi.org/10.1016/j.vibspec.2017.10.007>

Ohlasy:

1. [1.1] BUZZINI, Patrick - POLSTON, Carrie - SCHACKMUTH, Madison. On the criteria for the discrimination of inkjet printer inks using micro-Raman spectroscopy. In *JOURNAL OF RAMAN SPECTROSCOPY*. ISSN 0377-0486, 2018, vol. 49, no. 11, pp. 1791-1801., Registrované v: WOS

2. [1.1] HE, Deyun - WU, Zhengzong - CUI, Bo - JIN, Zhengyu. A novel SERS-based aptasensor for ultrasensitive sensing of microcystin-LR. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 278, no., pp. 197-202., Registrované v: WOS

3. [1.1] WU, Zhengzong - HE, Deyun - CUI, Bo - JIN, Zhengyu. A bimodal (SERS and colorimetric) aptasensor for the detection of *Pseudomonas aeruginosa*. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2018, vol. 185, no. 11, pp., Registrované v: WOS

4. [1.1] WU, Zhengzong. Simultaneous Detection of *Listeria monocytogenes* and *Salmonella typhimurium* by a SERS-Based Lateral Flow Immunochromatographic Assay. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2019, vol. 12, no. 5, pp. 1086-1091., Registrované v: WOS

5. [1.2] SUZUKI, Edward M. - BUZZINI, Patrick. Applications of raman spectroscopy in forensic science. II: Analysis considerations, spectral interpretation, and examination of evidence. In *Forensic Science Review*. ISSN 10427201, 2018-07-01, 30, 2, pp. 137-169., Registrované v: SCOPUS

ADCA994 OSIČKA, Josef - ILČÍKOVÁ, Markéta - MRLÍK, Miroslav - AL.MAADEED, Miriam Ali S.A. - ŠLOUF, Miroslav - TKÁČ, Ján - KASÁK, Peter. Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. In *Materials and Design*, 2016, vol. 97, p. 300-306. (2015: 3.997 -

IF, Q1 - JCR, 1.844 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0261-3069. Dostupné na:
<https://doi.org/10.1016/j.matdes.2016.02.101>

Ohlasy:

1. [1.1] CAO, J.W. - LU, Z.L. - MIAO, K. - ZHAO, H.J. - XIA, Y.L. - WANG, F. - LU, B.H. Fabrication of high-strength porous SiC-based composites with unidirectional channels. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, AUG 2019, vol. 102, no. 8, p. 4888-4898., Registrované v: WOS
2. [1.1] DEVILLE, S. Ice-Templating and Freeze-Casting: Control of the Processes, Microstructures, and Architectures. In FREEZING COLLOIDS: OBSERVATIONS, PRINCIPLES, CONTROL, AND USE: APPLICATIONS IN MATERIALS SCIENCE, LIFE SCIENCE, EARTH SCIENCE, FOOD SCIENCE, AND ENGINEERING. ISSN 1619-0181, 2017, p. 351-438., Registrované v: WOS
3. [1.1] LI, Z.H. - ZHANG, Z.H. - ZHAO, W.M. - LI, X.Y. - HAN, G.F. - ZHANG, J.D. A simple method to control the pore structure and shape of freeze-cast porous SiC ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, NOV 2020, vol. 46, no. 16, A, p. 26078-26084., Registrované v: WOS
4. [1.1] SCOTTI, K.L. - DUNAND, D.C. Freeze casting - A review of processing, microstructure and properties via the open data repository, FreezeCasting.net. In PROGRESS IN MATERIALS SCIENCE. ISSN 0079-6425, MAY 2018, vol. 94, p. 243-305., Registrované v: WOS

ADCA995 OSIČKA, Jozef - ILČÍKOVÁ, Markéta - POPELKA, Anton - FILIP, Jaroslav - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter. Simple, reversible and fast modulation in superwettability, gradient and adsorption by counterion exchange on self-assembled monolayer. In *Langmuir*, 2016, vol. 32, p. 5491-5499. (2015: 3.993 - IF, Q1 - JCR, 1.650 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0743-7463. Dostupné na:
<https://doi.org/10.1021/acs.langmuir.6b01084>

Ohlasy:

1. [1.1] ARTUSIO, F. - FUMAGALLI, F. - BANULS-CISCAR, J. - CECCONE, G. - PISANO, R. General and adaptive synthesis protocol for high-quality organosilane self-assembled monolayers as tunable surface chemistry platforms for biochemical applications. In BIOINTERPHASES. ISSN 1934-8630, JUL 2020, vol. 15, no. 4., Registrované v: WOS
2. [1.1] BREHM, M. - SCHEIGER, J.M. - WELLE, A. - LEVKIN, P.A. Reversible Surface Wettability by Silanization. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, JUN 2020, vol. 7, no. 12., Registrované v: WOS
3. [1.1] DAS, S. - DAS, A. - PARBAT, D. - MANNA, U. Catalyst-Free and Rapid Chemical Approach for in Situ Growth of "Chemically Reactive" and Porous Polymeric Coating. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, SEP 18 2019, vol. 11, no. 37, p. 34316-34329., Registrované v: WOS
4. [1.1] GAO, H.P. - LIU, Y. - LI, S.Y. - WANG, G.Y. - HAN, Z.W. - REN, L.Q. A biomimetic surface with switchable contact angle and adhesion for transfer and storage of microdroplets. In NANOSCALE. ISSN 2040-3364, AUG

28 2018, vol. 10, no. 32, p. 15393-15401., Registrované v: WOS

5. [1.1] GAO, X.Y. - GUO, Z.G. Biomimetic Superhydrophobic Surfaces with Transition Metals and Their Oxides: A Review. In JOURNAL OF BIONIC ENGINEERING. ISSN 1672-6529, JUL 2017, vol. 14, no. 3, p. 401-439., Registrované v: WOS

6. [1.1] GUO, H.X. - YU, S.C. - LIU, T.T. - AN, Q.F. - REN, X.Y. - QIN, Z.P. - LIANG, Y.C. Counterion-Switched Reversibly Hydrophilic and Hydrophobic TiO₂-Incorporated Layer-By-Layer Self-Assembled Membrane for Nanofiltration. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, DEC 2019, vol. 304, no. 12., Registrované v: WOS

7. [1.1] GUSELNIKOVA, O. - SVANDA, J. - POSTNIKOV, P. - KALACHYOVA, Y. - SVORCIK, V. - LYUTAKOV, O. Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, MAR 9 2017, vol. 4, no. 5., Registrované v: WOS

8. [1.1] HELLSTERN, M. - GANTENBEIN, M. - LE PLEUX, L. - PUEBLA-HELLMANN, G. - LORTSCHER, E. - MAYOR, M. Electrochemical Multiplexing: Control over Surface Functionalization by Combining a Redox-Sensitive Alkyne Protection Group with "Click"-Chemistry. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, MAR 8 2019, vol. 6, no. 5., Registrované v: WOS

9. [1.1] HOANG, J. - PARK, C.S. - LEE, H.J. - MARQUEZ, M.D. - ZENASNI, O. - GUNARATNE, P.H. - LEE, T.R. Quaternary Ammonium-Terminated Films Formed from Mixed Bidentate Adsorbates Provide a High-Capacity Platform for Oligonucleotide Delivery. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, NOV 28 2018, vol. 10, no. 47, p. 40890-40900., Registrované v: WOS

10. [1.1] JANA, N. - PARBAT, D. - MONDAL, B. - DAS, S. - MANNA, U. A biodegradable polymer- based common chemical avenue for optimizing switchable, chemically reactive and tunable adhesive superhydrophobicity. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, APR 21 2019, vol. 7, no. 15, p. 9120-9129., Registrované v: WOS

11. [1.1] LIU, Y.A. - SU, Y.L. - CAO, J.L. - GUAN, J.Y. - XU, L.Y. - ZHANG, R.N. - HE, M.R. - ZHANG, Q. - FAN, L. - JIANG, Z.Y. Synergy of the mechanical, antifouling and permeation properties of a carbon nanotube nanohybrid membrane for efficient oil/water separation. In NANOSCALE. ISSN 2040-3364, JUN 14 2017, vol. 9, no. 22, p. 7508-7518., Registrované v: WOS

12. [1.1] LIU, Y.N. - SU, Y.L. - CAO, J.L. - GUAN, J.Y. - ZHANG, R.N. - HE, M.R. - FAN, L. - ZHANG, Q. - JIANG, Z.Y. Antifouling, high-flux oil/water separation carbon nanotube membranes by polymer-mediated surface charging and hydrophilization. In JOURNAL OF MEMBRANE SCIENCE. ISSN 0376-7388, NOV 15 2017, vol. 542, p. 254-263., Registrované v: WOS

13. [1.1] LONG, C. - QING, Y.Q. - AN, K. - LIU, C. - CHAI, M.S. - YANG, C.N. - LIU, C.S. Superwetable bulk Janus materials with mechanical robustness and underwater self-cleaning action. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, APR 1 2020, vol. 385., Registrované v: WOS

14. [1.1] MAJI, K. - MANNA, U. Hierarchically featured and substrate independent bulk-deposition of 'reactive' polymeric nanocomplexes for controlled and strategic manipulation of durable biomimicking wettability. In JOURNAL

- OF MATERIALS CHEMISTRY A. ISSN 2050-7488, APR 21 2018, vol. 6, no. 15, p. 6642-6653., Registrované v: WOS
15. [1.1] QING, Y.Q. - HU, C.B. - YANG, C.N. - AN, K. - TANG, F.W. - TAN, J.Y. - LIU, C.S. Rough Structure of Electrodeposition as a Template for an Ultrarobust Self-Cleaning Surface. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, MAY 17 2017, vol. 9, no. 19, p. 16571-16580., Registrované v: WOS
16. [1.1] QING, Y.Q. - LONG, C. - AN, K. - HU, C.B. - LIU, C.S. Sandpaper as template for a robust superhydrophobic surface with self-cleaning and anti-snow/icing performances. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, JUL 15 2019, vol. 548, p. 224-232., Registrované v: WOS
17. [1.1] RATHER, A.M. - JANA, N. - HAZARIKA, P. - MANNA, U. Sustainable polymeric material for the facile and repetitive removal of oil-spills through the complementary use of both selective-absorption and active-filtration processes. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, NOV 28 2017, vol. 5, no. 44, p. 23339-23348., Registrované v: WOS
18. [1.1] WANG, H. - CHI, G.X. - JIA, Y.C. - YU, F.X. - WANG, Z.L. - WANG, Y.K. A novel combination of electrical discharge machining and electrodeposition for superamphiphobic metallic surface fabrication. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, FEB 28 2020, vol. 504., Registrované v: WOS
19. [1.1] WU, H.P. - ZHU, K. - CAO, B.B. - ZHANG, Z. - WU, B.B. - LIANG, L.H. - CHAI, G.Z. - LIU, A.P. Smart design of wettability-patterned gradients on substrate-independent coated surfaces to control unidirectional spreading of droplets. In SOFT MATTER. ISSN 1744-683X, APR 28 2017, vol. 13, no. 16, p. 2995-3002., Registrované v: WOS
20. [1.1] ZHOU, H. - GUO, Z.G. Superwetting Janus membranes: focusing on unidirectional transport behaviors and multiple applications. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, JUN 7 2019, vol. 7, no. 21, p. 12921-12950., Registrované v: WOS
21. [1.2] SALUNKE, Namrata - NALLAPANENI, Asritha - YUAN, Guangcui - STAFFORD, Christopher M. - NIU, Hui - SHAWKEY, Matthew D. - WEISS, R. A. - KARIM, Alamgir. Film Confinement Induced "jump-Percolation" Wetting Transition in Amphiphilic Block Copolymer Films. In ACS Applied Materials and Interfaces. ISSN 19448244, 2017-10-11, 9, 40, pp. 35349-35359., Registrované v: SCOPUS
22. [1.2] SHOME, Arpita - MAJI, Kousik - RATHER, Adil Majeed - YASHWANTH, Arcot - PATEL, Deepak Kumar - MANNA, Uttam. A Scalable Chemical Approach for the Synthesis of a Highly Tolerant and Efficient Oil Absorbent. In Chemistry An Asian Journal. ISSN 18614728, 2019-12-13, 14, 24, pp. 4732-4740., Registrované v: SCOPUS
23. [1.2] SI, Yifan - YANG, Fuchao - GUO, Zhiguang. Hybrid MWCNTs membrane with well-tunable wettability. In Journal of Colloid and Interface Science. ISSN 00219797, 2016-12-15, 484, pp. 173-182., Registrované v: SCOPUS

ADCA996 PALEČEK, Emil** - TKÁČ, Ján - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. In

Chemical Reviews, 2015, vol. 115, p. 2045-2108. (2014: 46.568 - IF, Q1 - JCR, 18.380 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0009-2665. Dostupné na: <https://doi.org/10.1021/cr500279h>

Ohlasy:

1. [1.1] ABREU, Dieric S. - SOUSA, Ticyano P. - CASTRO, Caio B. - SOUSA, Mayara N. V. - SILVA, Thiago T. - ALMEIDA-NETO, Francisco W. Q. - QUEIROS, Marcos V. A. - RODRIGUES, Barbara S. F. - OLIVEIRA, Maria C. F. - PAULO, Tercio F. - CAVADA, Benildo S. - NASCIMENTO, Kyria S. - TEMPERINI, Marcia L. A. - DIOGENES, Izaura C. N. SAM of Gliotoxin on Gold: A Natural Product Platform for Sugar Recognition based on the Immobilization of Canavalia brasiliensis lectin (ConBr). In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 241, no., pp. 116-123., Registrované v: WOS
2. [1.1] AFSHARAN, Hadi - HASANZADEH, Mohammad - SHADJOU, Nasrin - JOUYBAN, Abolghasem. Interaction of some cardiovascular drugs with bovine serum albumin at physiological conditions using glassy carbon electrode: A new approach. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2016, vol. 65, no., pp. 97-108., Registrované v: WOS
3. [1.1] AKHTAR, Naeem - EL-SAFTY, Sherif A. - ABDELSALAM, Mamdouh E. - SHENASHEN, Mohamed A. - KAWARADA, Hiroshi. Radially oriented nanostrand electrodes to boost glucose sensing in mammalian blood. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 77, no., pp. 656-665., Registrované v: WOS
4. [1.1] AKIBA, Uichi - ANZAI, Jun-ichi. Recent Progress in Electrochemical Biosensors for Glycoproteins. In SENSORS. ISSN 1424-8220, 2016, vol. 16, no. 12, pp., Registrované v: WOS
5. [1.1] AKRAM, Mohd - ANSARI, Farah - BHAT, Imtiyaz Ahmad - CHATURVEDI, Sumit Kumar - KHAN, Rizwan Hasan - KABIR-UD-DIN. Analyzing the interaction between porcine serum albumin (PSA) and ester-functionalized cationic gemini surfactants. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 63, no., pp. 145-153., Registrované v: WOS
6. [1.1] ALIZADEH, Negar - SALIMI, Abdollah. Ultrasensitive Bioaffinity Electrochemical Sensors: Advances and New Perspectives. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2803-2840., Registrované v: WOS
7. [1.1] ANUSHA, J. R. - KIM, Byung Chul - YU, Kook-Hyun - RAJ, C. Justin. Electrochemical biosensing of mosquito-borne viral disease, dengue: A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS
8. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannoses on gold wire electrodes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
9. [1.1] BISELLO, Annalisa - CARDENA, Roberta - ROSSI, Serena - CRISMA, Marco - FORMAGGIO, Fernando - SANTI, Saverio. Hydrogen-Bond-Assisted, Concentration-Dependent Molecular Dimerization of

- Ferrocenyl Hydantoins. In ORGANOMETALLICS. ISSN 0276-7333, 2017, vol. 36, no. 11, pp. 2190-2197., Registrované v: WOS
10. [1.1] BLEL, Nesrine - FOURATI, Najla - SOURI, Mina - ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS
11. [1.1] BOTH, Peter - RIESE, Michel - GRAY, Christopher J. - HUANG, Kun - PALLISTER, Edward G. - KOSOV, Iaroslav - CONWAY, Louis P. - VOGLMEIR, Josef - FLITSCH, Sabine L. Applications of a highly alpha 2,6-selective pseudosialidase. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 5, pp. 261-268., Registrované v: WOS
12. [1.1] BOUVIER, Benjamin. Optimizing the Multivalent Binding of the Bacterial Lectin LecA by Glycopeptide Dendrimers for Therapeutic Purposes. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2016, vol. 56, no. 6, pp. 1193-1204., Registrované v: WOS
13. [1.1] CARDOVA, Alzbeta - ADAM, Pavlina - MARIANI, Stefano - RICHTER, Lukas - HEGER, Zbynek - LABUDA, Jan - MINUNNI, Maria - ADAM, Vojtech. Electrochemical and optical study of metallothionein interactions with prion proteins. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2017, vol. 140, no., pp. 355-361., Registrované v: WOS
14. [1.1] DANHEL, Ales - JOSYPCUK, Bohdan - BAREK, Jiri - FOJTA, Miroslav. Possibilities and Prospects of Silver Amalgam in Electroanalytical Chemistry. In CHEMICKE LISTY. ISSN 0009-2770, 2016, vol. 110, no. 3, pp. 215-221., Registrované v: WOS
15. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, Maria. Post-translational modifications in tumor biomarkers: the next challenge for aptamers? In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 8, pp. 2059-2065., Registrované v: WOS
16. [1.1] DICULESCU, Victor Constantin - ENACHE, Teodor Adrian. Voltammetric and mass spectrometry investigation of methionine oxidation. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 834, no., pp. 124-129., Registrované v: WOS
17. [1.1] DING, Lin - ZHANG, Hongtao. Detection of Insulin-Like Growth Factor 1 Based on an Electrochemical Impedance Spectroscopy Sensor. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 12, pp. 11163-11170., Registrované v: WOS
18. [1.1] DORCAK, Vlastimil - NOVAK, David - KABELAC, Martin - KROUTIL, Ondrej - BEDNAROVA, Lucie - VEVERKA, Vaclav - VACEK, Jan. Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 24, pp. 6997-7005., Registrované v: WOS
19. [1.1] DORCAK, V. - KABELAC, M. - KROUTIL, O. - BEDNAROVA, K. - VACEK, J. Electrocatalytic monitoring of peptidic proton-wires. In ANALYST. ISSN 0003-2654, 2016, vol. 141, no. 15, pp. 4554-4557., Registrované v: WOS
20. [1.1] DOURADO, Andre H. B. - PASTRIAN, Fabian C. -

CORDOBA DE TORRESI, Susana L. The long and successful journey of electrochemically active amino acids. From fundamental adsorption studies to potential surface engineering tools. In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2018, vol. 90, no. 1, pp. 607-630., Registrované v: WOS

21. [1.1] DOURADO, Andre H. B. - ARENZ, Matthias - CORDOBA DE TORRESI, Susana. Mechanism of Electrochemical L-Cysteine Oxidation on Pt. In CHEMELECTROCHEM. ISSN 2196-0216, 2019, vol. 6, no. 4, pp. 1009-1013., Registrované v: WOS

22. [1.1] DUBENSKA, L. O. - BLAZHEJEVSKYJ, M. Ye. - PLOTYCYA, S. I. - PYLYPETS, M. Ya. - SARAHMAN, O. M. Voltammetric Methods for the Determination of Pharmaceuticals. In METHODS AND OBJECTS OF CHEMICAL ANALYSIS. ISSN 1991-0290, 2017, vol. 12, no. 2, pp. 61-75., Registrované v: WOS

23. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS

24. [1.1] ENACHE, Teodor Adrian - OLIVEIRA-BRETT, Ana Maria. Alzheimer's disease amyloid beta peptides in vitro electrochemical oxidation. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2017, vol. 114, no., pp. 13-23., Registrované v: WOS

25. [1.1] ENACHE, Teodor Adrian - MATEI, Elena - DICULESCU, Victor Constantin. Electrochemical Sensor for Carbonyl Groups in Oxidized Proteins. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 3, pp. 1920-1927., Registrované v: WOS

26. [1.1] ERGUVEN, Gokhan Onder - NUHOGLU, Yasar. BIOREMEDIATION OF FLUAZIFOP-p-BUTYL HERBICIDE BY SOME SOIL BACTERIA ISOLATED FROM VARIOUS REGIONS OF TURKEY IN AN ARTIFICIAL AGRICULTURAL FIELD. In ENVIRONMENT PROTECTION ENGINEERING. ISSN 0324-8828, 2020, vol. 46, no. 3, pp. 5-15. Dostupné na: <https://doi.org/10.37190/epe200301>., Registrované v: WOS

27. [1.1] FOJTA, Miroslav - DANHEL, Ales - SPACEK, Jan - HAVRAN, Ludek - SEBEST, Peter - ORSAG, Petr - PIVONKOVA, Hana - VOSAHLOVA, Jana - SCHWARZOVA-PECKOVA, Karolina. Utilization of Catalytic Hydrogen Evolution in Electrochemical Analysis of Nucleic Acids. In XXXVII MODERNI ELEKTROCHEMICKÉ METODY, 2017, vol., no., pp. 42-45., Registrované v: WOS

28. [1.1] FOJT, Lukas - FOJTA, Miroslav - HOLUB, Josef - GRUNER, Bohumir - VESPALEC, Radim. Electrochemistry of different boranes, carboranes and their exo-skeletal hydroxy derivatives at the graphite carbon electrode in aqueous phosphate buffers. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 205, no., pp. 8-14., Registrované v: WOS

29. [1.1] HAN, Yong Duk - KIM, Ka Ram - PARK, Yoo Min - SONG, Seung Yeon - YANG, Yong Ju - LEE, Kangsun - KU, Yunhee - YOON, Hyun C. Boronate-functionalized hydrogel as a novel biosensing interface for the glycated hemoglobin A1c (HbA(1c)) based on the competitive binding with signaling

- glycoprotein. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 77, no., pp. 1160-1169., Registrované v: WOS
30. [1.1] HASSANAIN, Waleed A. - SIVANESAN, Arumugam - IZAKE, Emad L. - AYOKO, Godwin A. An electrochemical biosensor for the rapid detection of erythropoietin in blood. In TALANTA. ISSN 0039-9140, 2018, vol. 189, no., pp. 636-640., Registrované v: WOS
31. [1.1] HASSAN, Qusai - KERMAN, Kagan. Electrochemical approaches for the detection of amyloid-beta, tau, and alpha-synuclein. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2019, vol. 14, no., pp. 89-95., Registrované v: WOS
32. [1.1] HAVRANOVA, Pavlina - LIGMAJER, Filip - DANHEL, Ales. Electrodeposition of Silver Amalgam on Thin Gold Film Electrodes for Voltammetric Detection of 4-Nitrophenol and DNA Labeled with Osmium Tetroxide-Bipyridine Complex. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 10, pp. 1952-1960., Registrované v: WOS
33. [1.1] HAYAKAWA, Mana - SATO, Shinobu - DIALA, Irmina - KODAMA, Masaaki - TOMOEDA-MORI, Kumiko - HARAGUCHI, Kazuya - TOMINAGA, Kazuhiro - TAKENAKA, Shigeori. Screening for Oral Cancer Using Electrochemical Telomerase Assay. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 3, pp. 503-507., Registrované v: WOS
34. [1.1] HE, Xiao-Peng - TIAN, He. Lightning Up Membrane Receptors with Fluorescent Molecular Probes and Supramolecular Materials. In CHEM. ISSN 2451-9294, 2018, vol. 4, no. 2, pp. 246-268., Registrované v: WOS
35. [1.1] HE, Xiao-Peng - ZENG, Ya-Li - ZANG, Yi - LI, Jia - FIELD, Robert A. - CHEN, Guo-Rong. Carbohydrate CuAAC click chemistry for therapy and diagnosis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 429, no., pp. 1-22., Registrované v: WOS
36. [1.1] HOSSAIN, Md. Sazzad - IQBAL, Asif - BEVAN, Kirk H. Interfacial Screening in Ultrafast Voltammetry: A Theoretical Study of Redox-Active Monolayers. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 18, pp. 9062-9070., Registrované v: WOS
37. [1.1] HU, Gengxin - LI, Nanxi - ZHANG, Yuwei - LI, Hong. A novel pH sensor with application to milk based on electrochemical oxidative quinone-functionalization of tryptophan residues. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 859, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.113871>., Registrované v: WOS
38. [1.1] CHENG, Zhao Xuan - BONANNI, Alessandra. All-in-One: Electroactive Nanocarbon as Simultaneous Platform and Label for Single-Step Biosensing. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 24, pp. 6380-6385., Registrované v: WOS
39. [1.1] CHEN, Duoze - WANG, Shuang - LIU, Maoxiang - GAO, Juanjuan - SONG, Haiou - ZHANG, Shupeng. Bionics-Inspired Strong Coupling of Streptococcus-Like NiCo2O4 to Needle-Like MnO2 for Enhanced Electrocatalytic Determination of Glucose. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 166, no. 15, pp. B1653-B1659., Registrované v: WOS
40. [1.1] CHEN, Guosheng - QIU, Junlang - XU, Jianqiao - FANG, Xu'an - LIU, Yan - LIU, Shuqin - WEI, Songbo - JIANG, Ruifen - LUAN,

Tiangang - ZENG, Feng - ZHU, Fang - OUYANG, Gangfeng. A novel probe based on phenylboronic acid functionalized carbon nanotubes for ultrasensitive carbohydrate determination in biofluids and semi-solid biotissues. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 2, pp. 1487-1495., Registrované v: WOS

41. [1.1] IBANEZ, Jorge G. - RINCON, Marina. E. - GUTIERREZ-GRANADOS, Silvia - CHAHMA, M'hamed - JARAMILLO-QUINTERO, Oscar A. - FRONTANA-URIBE, Bernardo A. Conducting Polymers in the Fields of Energy, Environmental Remediation, and Chemical-Chiral Sensors. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 9, pp. 4731-4816., Registrované v: WOS

42. [1.1] ISSAAD, Fatima Z. - TOME, Luciana I. N. - MARQUES, Nuno V. - MOUATS, Chabane - DICULESCU, Victor C. - OLIVEIRA-BRETT, Ana Maria. Bevacizumab anticancer monoclonal antibody: native and denatured redox behaviour. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 206, no., pp. 246-253., Registrované v: WOS

43. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis. In CHEMPLUSCHEM. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>., Registrované v: WOS

44. [1.1] JAISWAL, Juhi - DHAYAL, Marshal. Electroanalytical Method for Quantification of Hepatocellular Carcinoma Cells as Charge Transport Barriers in Culture Media. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 890-897. Dostupné na: <https://doi.org/10.1002/elan.201900553>., Registrované v: WOS

45. [1.1] JODA, Hamdi - SEDOVA, Ada - AWAN, Waqas - FLECHSIG, Gerd-Uwe. The Osmium Tetroxide Bipyridine-labeled DNA Probe: Hairpin Conformations and Characterization of Redox-label Behavior. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 1, pp. 51-59., Registrované v: WOS

46. [1.1] JOSEPH, Delina - RODRIGUEZ, Raul D. - VERMA, Akash - POUSANEH, Elaheh - ZAHN, Dietrich R. T. - LANG, Heinrich - CHANDRA, Sudeshna. Electrochemistry and surface-enhanced Raman spectroscopy of CTAB modulated interactions of magnetic nanoparticles with biomolecules. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 7, pp. 3628-3634., Registrované v: WOS

47. [1.1] KASAK, Peter. Self-Assembled Monolayers for Surface Modification. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 217-255., Registrované v: WOS

48. [1.1] KASHAW, Sushil K. - SAHU, Prashant - RAJORIYA, Vaibhav - JANA, Pradeep - KASHAW, Varsha - SAU, Samaresh - IYER, Arun K. Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 27, pp. 3234-3250. Dostupné na: <https://doi.org/10.2174/1381612826666200417143800>., Registrované v: WOS

49. [1.1] KHORASANI-MOTLAGH, Mozhgan - NOROOZIFAR, Meissam - KERMAN, Kagan - ZAMBLE, Deborah B. Complex formation

between the Escherichia coli [NiFe]-hydrogenase nickel maturation factors. In BIOMETALS. ISSN 0966-0844, 2019, vol. 32, no. 3, pp. 521-532., Registrované v: WOS

50. [1.1] KOGIKOSKI, Sergio - PASCHOALINO, Waldemir J. - CANTELLI, Lory - SILVA, Wilgner - KUBOTA, Lauro T. Electrochemical sensing based on DNA nanotechnology. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2019, vol. 118, no., pp. 597-605., Registrované v: WOS

51. [1.1] KONG, Lingdong - DU, Zhongyu - XIE, Zengyang - CHEN, Ruijiao - JIA, Shaohui - DONG, Ruixia - SUN, Zhaolan - SUN, Wei. Electrochemistry of Hemoglobin-Ionic Liquid-Graphene-SnO₂ Nanosheet Composite Modified Electrode and Electrocatalysis. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 3, pp. 2297-2305., Registrované v: WOS

52. [1.1] KROUTIL, Ondrej - KABELAC, Martin - DORCAK, Vlastimil - VACEK, Jan. Structures of Peptidic H-wires at Mercury Surface: Molecular Dynamics Study. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 10, pp. 2032-2040., Registrované v: WOS

53. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS

54. [1.1] KURBANOGU, Sevinc - DOGAN-TOPAL, Burcu - PLATA RODRIGUEZ, Eva - BOZAL-PALABIYIK, Burcin - OZKAN, Sibel A. - USLU, Bengi. Advances in electrochemical DNA biosensors and their interaction mechanism with pharmaceuticals. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 775, no., pp. 8-26., Registrované v: WOS

55. [1.1] LESIOW, Monika Katarzyna - KOMARNICKA, Urszula Katarzyna - KYZIOL, Agnieszka - BIENKO, Alina - PIETRZYK, Piotr. ROS-mediated lipid peroxidation as a result of Cu(ii) interaction with FomA protein fragments of F. nucleatum: relevance to colorectal carcinogenesis. In METALLOMICS. ISSN 1756-5901, 2019, vol. 11, no. 12, pp. 2066-2077., Registrované v: WOS

56. [1.1] LIAW, Der-Jang - YAGUDAEVA, Elena - PROSTYAKOVA, Anna - LAZOV, Michael - ZYBIN, Dmitry - ISCHENKO, Anatoly - ZUBOV, Vitaly - CHANG, Cheng-Hung - HUANG, Ying-Chi - KAPUSTIN, Dmitry. Sorption behavior of polyaramides in relation to isolation of nucleic acids and proteins. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2016, vol. 145, no., pp. 912-921., Registrované v: WOS

57. [1.1] LIGMAJER, Filip - HORAK, Michal - SIKOLA, Tomas - FOJTA, Miroslav - DANHEL, Ales. Silver Amalgam Nanoparticles and Microparticles: A Novel Plasmonic Platform for Spectroelectrochemistry. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, 2019, vol. 123, no. 27, pp. 16957-16964., Registrované v: WOS

58. [1.1] LI, Nanxi - ZHANG, Yuwei - HUANG, Bin - LI, Hong. Ultrasonic dispersion temperature- and pH-tuned spectral and electrochemical properties of bovine serum albumin on carbon nanotubes and its conformational transition. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2019, vol. 296, no.,

pp. 555-564., Registrované v: WOS

59. [1.1] LI, ShaoPei - KERMAN, Kagan. Electrochemical Detection of Interaction between Copper(II) and Peptides Related to Pathological alpha-Synuclein Mutants. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 6, pp. 3818-3826., Registrované v: WOS

60. [1.1] LOENEN, W. A. M. S-Adenosylmethionine Metabolism: A Promising Avenue in Anti-Aging Medicine? In ANTI-AGING DRUGS: FROM BASIC RESEARCH TO CLINICAL PRACTICE. ISSN 2041-3203, 2017, vol. 57, no., pp. 435-473., Registrované v: WOS

61. [1.1] LONEY, Charles N. - MAHESHWARI, Sharad - PRAMOUNMAT, Nuttanit - JANIK, Michael J. - RENNEN, Julie N. Effects of Peptide-Functionalized Surfaces on the Electrochemical Hydrogen Evolution Reaction. In JOURNAL OF ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE. ISSN 2381-6872, 2020, vol. 17, no. 4, pp. Dostupné na: <https://doi.org/10.1115/1.4046415>., Registrované v: WOS

62. [1.1] LUT, Helen - GALAGAN, Rostislav - PETROVA, Tatyana - KARAUSH, Nataliya - MINAEV, Boris. Development of the Cyclic Reciprocal Derivative Chronopotentiometry with Alternating Current of Different Frequencies. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2575-2579., Registrované v: WOS

63. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. Main streams in the Construction of Biosensors and Their Applications. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS

64. [1.1] MAYORGA-MARTINEZ, Carmen C. - PUMERA, Martin. Self-Propelled Tags for Protein Detection. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 6, pp. Dostupné na: <https://doi.org/10.1002/adfm.201906449>., Registrované v: WOS

65. [1.1] MOUSAVI, Mir F. - AMIRI, Masoud - NOORI, Abolhassan - KHOSHFETRAT, Seyyed Mehdi. A Prostate Specific Antigen Immunosensor Based on Biotinylated-Antibody/Cyclodextrin Inclusion Complex: Fabrication and Electrochemical Studies. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 12, pp. 2818-2831., Registrované v: WOS

66. [1.1] NOVAK, David - SVRCKOVA, Marika - ZATLOUKALVO, Martina - DVORAKOVA, Petra - COUFALOVA, Dominika - HEMYCHOVA, Lenka - VACEK, Jan. Monitoring Dicarboxyl Stress in Na⁺/K⁺ ATPase by Electrochemical and Mass Spectrometric Methods. In XXXVII MODERNÍ ELEKTROCHEMICKÉ METODY, 2017, vol., no., pp. 158-162., Registrované v: WOS

67. [1.1] NOVAK, David - VISKUPICOVA, Jana - ZATLOUKALOVA, Martina - HEGER, Vladimir - MICHALIKOVA, Silvia - MAJEKOVA, Magdalena - VACEK, Jan. Electrochemical behavior of sarco/endoplasmic reticulum Ca-ATPase in response to carbonylation processes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 812, no., pp. 258-264., Registrované v: WOS

68. [1.1] OLIVEIRA-BRETT, Ana Maria - DICULESCU, Victor Constatin - ENACHE, Teodor Adrian - FERNANDES, Isabel P. G. - CHIORCEA-PAQUIM, Ana-Maria - OLIVEIRA, S. Carlos B. Bioelectrochemistry for sensing amino acids, peptides, proteins and DNA

- interactions. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2019, vol. 14, no., pp. 173-179., Registrované v: WOS
69. [1.1] ORSAG, Petr - HAVRAN, Ludek - FOJT, Lukas - COUFAL, Jan - BRAZDA, Vaclav - FOJTA, Miroslav. Voltammetric behavior of a candidate anticancer drug roscovitine at carbon electrodes in aqueous buffers and a cell culture medium. In MONATSHFTE FUR CHEMIE. ISSN 0026-9247, 2019, vol. 150, no. 3, pp. 461-467., Registrované v: WOS
70. [1.1] PATEL, Suprava - NANDA, Rachita - SAHOO, Sibasish - MOHAPATRA, Eli. Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. In BIOCHEMISTRY RESEARCH INTERNATIONAL. ISSN 2090-2247, 2016, vol., no., pp., Registrované v: WOS
71. [1.1] PAULIUKAITE, Rasa - VOITECHOVIC, Edita. Multisensor Systems and Arrays for Medical Applications Employing Naturally-Occurring Compounds and Materials. In SENSORS, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123551>., Registrované v: WOS
72. [1.1] PODESVA, Pavel - LIU, Xiaocheng - NEUZIL, Pavel. Single nanostructured gold amalgam microelectrode electrochemiluminescence: From arrays to a single point. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2019, vol. 286, no., pp. 282-288., Registrované v: WOS
73. [1.1] PUIGGALI-JOU, Anna - PAWLOWSKI, Jan - DEL VALLE, Luis J. - MICHAUX, Catherine - PERPETE, Eric A. - SEK, Slawomir - ALEMAN, Carlos. Properties of Omp2a-Based Supported Lipid Bilayers: Comparison with Polymeric Bioinspired Membranes. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 8, pp. 9003-9019., Registrované v: WOS
74. [1.1] QIU, Zhenli - TANG, Dianying - SHU, Jian - CHEN, Guonan - TANG, Dianping. Enzyme-triggered formation of enzyme-tyramine concatamers on nanogold-functionalized dendrimer for impedimetric detection of Hg(II) with sensitivity enhancement. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 75, no., pp. 108-115., Registrované v: WOS
75. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS
76. [1.1] QURESHI, Anjum - GURBUZ, Yasar - NIAZI, Javed H. Label-free capacitance based aptasensor platform for the detection of HER2/ErbB2 cancer biomarker in serum. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 220, no., pp. 1145-1151., Registrované v: WOS
77. [1.1] RANIERI, Antonio - BORTOLOTTI, Carlo Augusto - DI ROCCO, Giulia - BATTISTUZZI, Gianantonio - SOLA, Marco - BORSARI, Marco. Electrocatalytic Properties of Immobilized Heme Proteins: Basic Principles and Applications. In CHEMELECTROCHEM. ISSN 2196-0216, 2019, vol. 6, no. 20, pp. 5172-5185., Registrované v: WOS
78. [1.1] SEK, Slawomir - VACEK, Jan - DORCAK, Vlastimil. Electrochemistry of peptides. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2019, vol. 14, no., pp. 166-172., Registrované v: WOS
79. [1.1] SIERRA, Tania - CREVILLEN, Agustin G. - ESCARPA,

- Alberto. Derivatization agents for electrochemical detection in amino acid, peptide and protein separations: The hidden electrochemistry? In ELECTROPHORESIS. ISSN 0173-0835, 2017, vol. 38, no. 21, pp. 2695-2703., Registrované v: WOS
80. [1.1] SIERRA, Tania - CRISTINA GONZALEZ, Maria - MORENO, Begona - CREVILLEN, Agustin G. - ESCARPA, Alberto. Total alpha(1)-acid glycoprotein determination in serum samples using disposable screen-printed electrodes and osmium (VI) as electrochemical tag. In TALANTA. ISSN 0039-9140, 2018, vol. 180, no., pp. 206-210., Registrované v: WOS
81. [1.1] SIERRA, Tania - DORTEZ, Silvia - CRISTINA GONZALEZ, Maria - JAVIER PALOMARES, F. - CREVILLEN, Agustin G. - ESCARPA, Alberto. Disposable carbon nanotube scaffold films for fast and reliable assessment of total (1)-acid glycoprotein in human serum using adsorptive transfer stripping square wave voltammetry. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 9, pp. 1887-1894., Registrované v: WOS
82. [1.1] SINGLETON, Daniel G. - HUSSAIN, Rohanah - SILIGARDI, Giuliano - KUMAR, Pawan - HRDLICKA, Patrick J. - BEROVA, Nina - STULZ, Eugen. Increased duplex stabilization in porphyrin-LNA zipper arrays with structure dependent exciton coupling. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 1, pp. 149-157., Registrované v: WOS
83. [1.1] SONUC, Munteha N. - SEZGINTURK, Mustafa K. A Disposable, Highly Sensitive Biosensing System: Determination of Haptoglobin as a Significant Acute Phase Biomarker. In CURRENT ANALYTICAL CHEMISTRY. ISSN 1573-4110, 2016, vol. 12, no. 1, pp. 43-53., Registrované v: WOS
84. [1.1] SPACEK, Jan - EKSIN, Ece - HAVRAN, Ludek - ERDEM, Arzum - FOJTA, Miroslav. Fast enzyme-linked electrochemical sensing of DNA hybridization at pencil graphite electrodes. Application to detect gene deletion in a human cell culture. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 862, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.113951>., Registrované v: WOS
85. [1.1] STAN, Razvan C. - KROS, Alexander - AKKILIC, Namik - SANGHAMITRA, Nusrat J. M. - APPEL, Jeroen. Direct wiring of the azurin redox center to gold electrodes investigated by protein film voltammetry. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2017, vol. 787, no., pp. 14-18., Registrované v: WOS
86. [1.1] SUGIMOTO, Yu - KITAZUMI, Yuki - SHIRAI, Osamu - YAMAMOTO, Masahiro - KANO, Kenji. Role of 2-mercaptoethanol in direct electron transfer-type bioelectrocatalysis of fructose dehydrogenase at Au electrodes. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 170, no., pp. 242-247., Registrované v: WOS
87. [1.1] SUN, Haobo - XU, Wen - LIU, Bang - LIU, Qianrui - WANG, Qangwei - LI, Lianzhi - KONG, Jinming - ZHANG, Xueji. Ultrasensitive Detection of DNA via SI-eRAFT and in Situ Metalization Dual-Signal Amplification. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 14, pp. 9198-9205., Registrované v: WOS
88. [1.1] SUN, Mingyue - CHEN, Yajie - TIAN, Guohui - WU, Aiping - YAN, Haijing - FU, Honggang. Stable mesoporous ZnFe₂O₄ as an efficient

- electrocatalyst for hydrogen evolution reaction. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 190, no., pp. 186-192., Registrované v: WOS
89. [1.1] SUPRUN, Elena V. Protein post-translational modifications A challenge for bioelectrochemistry. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2019, vol. 116, no., pp. 44-60., Registrované v: WOS
90. [1.1] SUPRUN, Elena V. - RADKO, Sergey P. - FARAFONOVA, Tatiana E. - KOZIN, Sergey A. - MAKAROV, Alexander A. - ARCHAKOV, Alexander I. - SHUMYANTSEVA, Victoria V. Electrochemical detection of protein post-translational modifications: Phosphorylation and nitration of amyloid-beta (1-16). In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 258, no., pp. 1182-1190., Registrované v: WOS
91. [1.1] SUPRUN, Elena V. - RADKO, Sergey P. - KHMELEVA, Svetlana A. - MITKEVICH, Vladimir A. - ARCHAKOV, Alexander I. - MAKAROV, Alexander A. - SHUMYANTSEV, Victoria V. Electrochemical oxidation of amyloid-beta peptide isoforms on carbon screen printed electrodes. In *ELECTROCHEMISTRY COMMUNICATIONS*. ISSN 1388-2481, 2017, vol. 75, no., pp. 33-37., Registrované v: WOS
92. [1.1] SUPRUN, Elena - KHMELEVA, Svetlana A. - KUTDUSOVA, Gulnaz R. - DUSKAEV, Insaf F. - KUZNETSOVA, Viktoriya E. - LAPA, Sergey A. - CHUDINOV, Alexander - RADKO, Sergey P. Deoxyuridine triphosphates modified with tyrosine or tryptophan aromatic groups for direct electrochemical detection of double-stranded DNA. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2020, vol. 362, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.137105>., Registrované v: WOS
93. [1.1] SVRCKOVA, Marika - ZATLOUKALOVA, Martina - NOVAK, David - ULRICHOVA, Jitka - VACEK, Jan. Electrocatalytic Monitoring of Methylglyoxal-Mediated Protein Glycation: Pilot Results with Solubilized Na⁺/K⁺ ATPase Transmembrane Protein. In *XXXVI MODERNÍ ELEKTROCHEMICKÉ METODY*, 2016, vol., no., pp. 224-227., Registrované v: WOS
94. [1.1] SVRCKOVA, Marika - ZATLOUKALOVA, Martina - DVORAKOVA, Petra - COUFALOVA, Dominika - NOVAK, David - HERNYCHOVA, Lenka - VACEK, Jan. Na⁺/K⁺-ATPase interaction with methylglyoxal as reactive metabolic side product. In *FREE RADICAL BIOLOGY AND MEDICINE*. ISSN 0891-5849, 2017, vol. 108, no., pp. 146-154., Registrované v: WOS
95. [1.1] TIWARI, Jitendra N. - VIJ, Varun - KEMP, K. Christian - KIM, Kwang S. Engineered Carbon-Nanomaterial-Based Electrochemical Sensors for Biomolecules. In *ACS NANO*. ISSN 1936-0851, 2016, vol. 10, no. 1, pp. 46-80., Registrované v: WOS
96. [1.1] TONELLO, Sarah - STRADOLINI, Francesca - ABATE, Giulia - UBERTI, Daniela - SERPELLONI, Mauro - CARRARA, Sandro - SARDINI, Emilio. Electrochemical detection of different p53 conformations by using nanostructured surfaces. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
97. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In *JOURNAL OF THE*

- ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS
98. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS
99. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In BIOANALYSIS. ISSN 1757-6180, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na: <https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS
100. [1.1] VACEK, Jan - NOVAK, David - ZATLOUKALOVA, Martina. New Directions in the Electrochemistry of Biomacromolecules: Short Overview and Discussion. In CHEMICKE LISTY. ISSN 0009-2770, 2017, vol. 111, no. 7, pp. 430-438., Registrované v: WOS
101. [1.1] VACEK, Jan - SVRCKOVA, Marika - ZATLOUKALOVA, Martina - NOVAK, David - PROSKOVA, Jitka - LANGOVA, Katerina - GALUSZKOVA, Dana - ULRICHOVA, Jitka. Electrocatalytic artificial carbonylation assay for observation of human serum albumin inter-individual properties. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2018, vol. 550, no., pp. 137-143., Registrované v: WOS
102. [1.1] VACEK, Jan - ZATLOUKALOVA, Martina - NOVAK, David. Electrochemistry of membrane proteins and protein-lipid assemblies. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 73-80., Registrované v: WOS
103. [1.1] VASILESCU, Alina - BOULAHNECHE, Samia - CHEKIN, Fereshteh - GASPAR, Szilveszter - MEDJRAM, Mohamed Salah - DIAGNE, Abdou Aziz - SINGH, Santosh K. - KURUNGOT, Sreekumar - BOUKHERROUB, Rabah - SZUNERITS, Sabine. Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 254, no., pp. 375-383., Registrované v: WOS
104. [1.1] VASILESCU, Alina - YE, Ran - BOULAHNECHE, Samia - LAMRAOUI, Sabrina - JIJIE, Roxana - MEDJRAM, Mohamed Salah - GASPAR, Szilveszter - SINGH, Santosh K. - KURUNGOT, Sreekumar - MELINTE, Sorin - BOUKHERROUB, Rabah - SZUNERITS, Sabine. Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2018, vol. 266, no., pp. 364-372., Registrované v: WOS
105. [1.1] WAHIBA, Mokhtari - FENG, Xue-Qing - ZANG, Yi - JAMES, Tony D. - LI, Jia - CHEN, Guo-Rong - HE, Xiao-Peng. A supramolecular pyrenyl glycoside-coated 2D MoS₂ composite electrode for selective cell capture. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2016, vol. 52, no. 78, pp. 11689-11692., Registrované v: WOS
106. [1.1] WANG, Chang-Zheng - HE, Xiao-Peng. Supramolecular glycorhodamine-polymer dot ensembles for the homogeneous, fluorogenic analysis of lectins. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 455, no., pp. 1-4., Registrované v: WOS
107. [1.1] WANG, Chen - LIU, Jingliang - KONG, Jinming - ZHANG, Xueji. Nitronyl nitroxide monoradical TEMPO as new electrochemical label for

ultrasensitive detection of nucleic acids. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1136, no., pp. 19-24. Dostupné na: <https://doi.org/10.1016/j.aca.2020.08.035>., Registrované v: WOS

108. [1.1] WEST, Ryan M. - JANATA, Jiri. Praise of mercury. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113773>., Registrované v: WOS

109. [1.1] WONGKAEW, Nongnoot - SIMSEK, Marcel - GRIESCHE, Christian - BAEUMNER, Antje J. Functional Nanomaterials and Nanostructures Enhancing Electrochemical Biosensors and Lab-on-a-Chip Performances: Recent Progress, Applications, and Future Perspective. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2019, vol. 119, no. 1, pp. 120-194., Registrované v: WOS

110. [1.1] WU, Yao - ALI, Sufyaan - WHITE, Ryan J. Electrocatalytic Mechanism for Improving Sensitivity and Specificity of Electrochemical Nucleic Acid-Based Sensors with Covalent Redox Tags-Part I. In *ACS SENSORS*. ISSN 2379-3694, 2020, vol. 5, no. 12, pp. 3833-3841. Dostupné na: <https://doi.org/10.1021/acssensors.0c02362>., Registrované v: WOS

111. [1.1] XIE, Donghao - FENG, Xue-Qing - HU, Xi-Le - LIU, Lin - YE, Zhihong - CAO, Jun - CHEN, Guo-Rong - HE, Xiao-Peng - LONG, Yi-Tao. Probing Mannose-Binding Proteins That Express on Live Cells and Pathogens with a Diffusion-to-Surface Ratiometric Graphene Electrosensor. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2016, vol. 8, no. 38, pp. 25137-25141., Registrované v: WOS

112. [1.1] YANG, Yanbing - YANG, Xiangdong - YANG, Yujie - YUAN, Quan. Aptamer-functionalized carbon nanomaterials electrochemical sensors for detecting cancer relevant biomolecules. In *CARBON*. ISSN 0008-6223, 2018, vol. 129, no., pp. 380-395., Registrované v: WOS

113. [1.1] YANG, Zhe-Han - ZHUO, Ying - YUAN, Ruo - CHAI, Ya-Qin. A nanohybrid of platinum nanoparticles-porous ZnO-hemin with electrocatalytic activity to construct an amplified immunosensor for detection of influenza. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 78, no., pp. 321-327., Registrované v: WOS

114. [1.1] YAO, Juntong - MA, Yue - LIU, Jinxin - LIU, Shucheng - PAN, Jianming. Janus-like boronate affinity magnetic molecularly imprinted nanobottles for specific adsorption and fast separation of luteolin. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2019, vol. 356, no., pp. 436-444., Registrované v: WOS

115. [1.1] YATES, Nicholas D. J. - FASCIONE, Martin A. - PARKIN, Alison. Methodologies for "Wiring" Redox Proteins/Enzymes to Electrode Surfaces. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 47, pp. 12164-12182., Registrované v: WOS

116. [1.1] YOU, Min - YANG, Shuai - TANG, Wanxin - ZHANG, Fan - HE, Pin-Gang. Ultrasensitive Electrochemical Detection of Glycoprotein Based on Boronate Affinity Sandwich Assay and Signal Amplification with Functionalized SiO₂@Au Nanocomposites. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2017, vol. 9, no. 16, pp. 13855-13864., Registrované v: WOS

117. [1.1] ZAFARANI, Hamid Reza - MATHWIG, Klaus - LEMAY, Serge G. - SUDHOLTER, Ernst J. R. - RASSAEI, Liza. Modulating Selectivity in Nanogap Sensors. In *ACS SENSORS*. ISSN 2379-3694, 2016, vol. 1, no. 12,

pp. 1439-1444., Registrované v: WOS

118. [1.1] ZHANG, Bintian - SONG, Weisi - PANG, Pei - ZHAO, Yanan - ZHANG, Peiming - CSABAI, Istvan - VATTAY, Gabor - LINDSAY, Stuart. Observation of giant conductance fluctuations in a protein. In NANO FUTURES, 2017, vol. 1, no. 3, pp., Registrované v: WOS

119. [1.1] ZHANG, Jing-Jing - CHENG, Fang-Fang - ZHENG, Ting-Ting - ZHU, Jun-Jie. Versatile aptasensor for electrochemical quantification of cell surface glycan and naked-eye tracking glycolytic inhibition in living cells. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 89, no., pp. 937-945., Registrované v: WOS

120. [1.1] ZHANG, Ru - REJEETH, Chandrababu - XU, Wei - ZHU, Chuanying - LIU, Xiyuan - WAN, Jingjing - JIANG, Mawei - QIAN, Kun. Label-Free Electrochemical Sensor for CD44 by Ligand-Protein Interaction. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 11, pp. 7078-7085., Registrované v: WOS

121. [1.1] ZHENG, Wen - ZHAO, Wenshu - CHEN, Wei - WENG, Wenju - LIAO, Zhengwei - DONG, Ruixia - LI, Guangjiu - SUN, Wei. Effect of Carboxyl Graphene on Direct Electrochemistry of Myoglobin and Electrocatalytic Investigation. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 5, pp. 4341-4350., Registrované v: WOS

122. [1.1] ZHU, Xiaoli - SHI, Liu. Electrochemistry. In NANO-INSPIRED BIOSENSORS FOR PROTEIN ASSAY WITH CLINICAL APPLICATIONS, 2019, vol., no., pp. 209-236., Registrované v: WOS

123. [1.1] ZHU, Xuejing - ZHAO, Jin - JIA, Tingting - LI, Shenghua - LI, Nan - HOU, Hongbiao - ZHONG, Rong-Lin - FAN, Zhi - GUO, Minjie. A comparison study of graphene-cyclodextrin conjugates for enhanced electrochemical performance of tyramine compounds. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 209, no., pp. 258-265., Registrované v: WOS

124. [1.2] HASONĚ, Stanislav - DAÑHEL, Aleš - SCHWARZOVÁ-PECKOVÁ, Karolina - FOJTA, Miroslav. Carbon electrodes in electrochemical analysis of biomolecules and bioactive substances: Roles of surface structures and chemical groups. In Nanotechnology and Biosensors, 2018-01-01, pp. 51-111., Registrované v: SCOPUS

125. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md - AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

126. [1.2] KARAUSH-KARMAZIN, Nataliya - LUT, Helen - GALAGAN, Rostislav - MINAEV, Boris. Cyclic reciprocal derivative chronopotentiometry in the study of electrochemical mechanisms. In Current Topics in Electrochemistry. ISSN 09724443, 2018-01-01, 20, pp. 75-84., Registrované v: SCOPUS

127. [1.2] KARLAPUDI, Abraham Peele - VENKATESWARULU, T. C. - TAMMINEEDI, Jahnavi - KANUMURI, Lohit - RAVURU, Bharath Kumar - DIRISALA, Vijaya ramu - KODALI, Vidya Prabhakar. Role of biosurfactants in bioremediation of oil pollution-a review. In Petroleum. ISSN 24056561, 2018-09-01, 4, 3, pp. 241-249., Registrované v: SCOPUS

128. [1.2] SUGIMOTO, Y. - SO, K. - XIA, H. Q. - KANO, K.
Orientation-oriented adsorption and immobilization of redox enzymes for
electrochemical communication with electrodes. In *Encyclopedia of Interfacial
Chemistry: Surface Science and Electrochemistry*, 2018-01-01, pp. 403-421.,
Registrované v: SCOPUS

ADCA997 TALAFOVÁ, Klaudia - HRABÁROVÁ, Eva - NAHÁLKA, Jozef. A
semi-multifunctional sialyltransferase from *Bibersteinia trehalosi* and its comparison
to the *Pasteurella multocida* ST1 mutants. In *Journal of Biotechnology*, 2015, vol.
216, p. 116-124. (2014: 2.871 - IF, Q2 - JCR, 1.116 - SJR, Q1 - SJR, Current
Contents - CCC). (2015 - Current Contents). ISSN 0168-1656. Dostupné na:
<https://doi.org/10.1016/j.jbiotec.2015.09.031>

Ohlasy:

1. [1.1] MCARTHUR, John B. - YU, Hai - ZENG, Jie - CHEN, Xi.
Converting *Pasteurella multocida* alpha 2-3-sialyltransferase 1 (PmST1) to a
regioselective alpha 2-6-sialyltransferase by saturation mutagenesis and
regioselective screening. In *ORGANIC & BIOMOLECULAR CHEMISTRY*.
ISSN 1477-0520, 2017, vol. 15, no. 7, pp. 1700-1709., Registrované v: WOS
2. [1.1] MERTSCH, Alexander - HE, Ning - YI, Dong - KICKSTEIN,
Michael - FESSNER, Wolf-Dieter. An alpha 2,3-Sialyltransferase
from *Photobacterium phosphoreum* with Broad Substrate Scope: Controlling
Hydrolytic Activity by Directed Evolution. In *CHEMISTRY-A EUROPEAN
JOURNAL*. ISSN 0947-6539, 2020, vol. 26, no. 50, pp. 11614-11624. Dostupné
na: <https://doi.org/10.1002/chem.202002277>., Registrované v: WOS
3. [1.1] SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER,
Barbara - NIDETZKY, Bernd. Bacterial sialyltransferases and their use in
biocatalytic cascades for sialo-oligosaccharide production. In
BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 44, no., pp.
Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107613>., Registrované v:
WOS
4. [1.1] SCHMOELZER, Katharina - EIBINGER, Manuel -
NIDETZKY, Bernd. Active-Site His85 of *Pasteurella dagmatis* Sialyltransferase
Facilitates Productive Sialyl Transfer and So Prevents Futile Hydrolysis of
CMP-Neu5Ac. In *CHEMBIOCHEM*. ISSN 1439-4227, 2017, vol. 18, no. 15, pp.
1544-1550., Registrované v: WOS

ADCA998 PAPP, G. - PREKLET, E. - KOŠÍKOVÁ, Božena - BÁRTA, E. - TOLVAJ, J.
- BOHUŠ, J. - SZÁTMÁRI, S. - BERKESI, O. Effect of UV laser radiation with
different wavelengths on the spectrum of lignin extracted from hard wood materials.
In *Journal of Photochemistry and Photobiology A : polymer chemistry*, 2004, vol.
163, p. 187-192. (2004 - Current Contents). ISSN 1010-6030. Dostupné na:
[https://doi.org/10.1016/S1010-6030\(03\)00446-5](https://doi.org/10.1016/S1010-6030(03)00446-5)

Ohlasy:

1. [1.1] PREGENT, J. - VANDSBURGER, L. - BLANCHARD, V. -
BLANCHET, P. - RIEDL, B. - SARKISSIAN, A. - STAFFORD, L.
Determination of active species in the modification of hardwood samples in the
flowing afterglow of N-2 dielectric barrier discharges open to ambient air. In
CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 811-827., Registrované
v: WOS
2. [1.1] WYPYCH, George. WEATHERING OF COMPOUNDED

PRODUCTS. In HANDBOOK OF MATERIAL WEATHERING, 6TH EDITION, 2018, vol., no., pp. 625-784., Registrované v: WOS

- ADCA999 PAPPAS, C.S. - MALOVÍKOVÁ, Anna - HROMÁDKOVÁ, Zdenka - TARANTILIS, P.A. - EBRINGEROVÁ, Anna - POLISSIOU, M.G. Determination of the degree of esterification of pectinates with decyl and benzyl ester groups by diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) and curve-fitting deconvolution method. In *Carbohydrate Polymers*, 2004, vol. 56, s. 465-469. (2003: 1.597 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2004.03.014>
- Ohlasy:
1. [1.1] ARACHCHIGE, Melani Purnika Mudugamuwa - MU, Taihua - MA, Mengmei. Structural, physicochemical and emulsifying properties of sweet potato pectin treated by high hydrostatic pressure and/or pectinase: a comparative study. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2020, vol. 100, no. 13, pp. 4911-4920. Dostupné na: <https://doi.org/10.1002/jsfa.10552>., Registrované v: WOS
 2. [1.1] BELEN LABORDE, Mariana - ELENA TASCA, Julia - PABLO BARRETO, Gaston - MARIA PAGANO, Ana. Physicochemical characterization of pectin of rose grape Red Globe variety. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020, vol. 59, no. 4, pp. 323-331., Registrované v: WOS
 3. [1.1] DEY, Soumen - GADAKH, Sunita K. - SUDALAI, A. Titanium superoxide a stable recyclable heterogeneous catalyst for oxidative esterification of aldehydes with alkylarenes or alcohols using TBHP as an oxidant. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2015, vol. 13, no. 43, pp. 10631-10640., Registrované v: WOS
 4. [1.1] DRANCA, Florina - OROIAN, Mircea. Ultrasound-Assisted Extraction of Pectin from Malus domestica 'Falticeni' Apple Pomace. In PROCESSES, 2019, vol. 7, no. 8, pp., Registrované v: WOS
 5. [1.1] DRANCA, Florina - OROIAN, Mircea. Optimization of Pectin Enzymatic Extraction from Malus domestica 'Falticeni' Apple Pomace with Celluclast 1.5L. In MOLECULES, 2019, vol. 24, no. 11, pp., Registrované v: WOS
 6. [1.1] FAN, Xuejing - CHANG, Haode - LIN, Yanan - ZHAO, Xingming - ZHANG, Ao - LI, Shuang - FENG, Zhen - CHEN, Xi. Effects of ultrasound-assisted enzyme hydrolysis on the microstructure and physicochemical properties of okara fibers. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2020, vol. 69, no., pp. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2020.105247>., Registrované v: WOS
 7. [1.1] GHOSHAL, Gargi - NEGI, Pooja. Isolation of pectin from kinnow peels and its characterization. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 124, no., pp. 342-353. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.09.008>., Registrované v: WOS
 8. [1.1] GOPI, D. - KANIMOZHI, K. - KAVITHA, L. Opuntia ficus indica peel derived pectin mediated hydroxyapatite nanoparticles: Synthesis, spectral characterization, biological and antimicrobial activities. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2015, vol. 141, no., pp. 135-143., Registrované v: WOS

9. [1.1] GOVINDARAJI, Praveen Kumar - VUPPU, Suneetha. Characterisation of pectin and optimization of pectinase enzyme from novel *Streptomyces fumigatiscleroticus* VIT-SP4 for drug delivery and concrete crack-healing applications: An eco-friendly approach. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, 2020, vol. 27, no. 12, pp. 3529-3540. Dostupné na: <https://doi.org/10.1016/j.sjbs.2020.07.024>., Registrované v: WOS
10. [1.1] GOVINDARAJ, Dharman - RAJAN, Mariappan - MUNUSAMY, Murugan A. - ALARFAJ, Abdullah A. - HIGUCHI, Akon - KUMAR, S. Suresh. Carbon nanotubes/pectin/minerals substituted apatite nanocomposite depositions on anodized titanium for hard tissue implant: In vivo biological performance (Retraction of Vol 194, Pg 77, 2017). In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2018, vol. 220, no., pp. 470-470., Registrované v: WOS
11. [1.1] GOVINDARAJ, Dharman - RAJAN, Mariappan - HATAMLEH, Ashraf A. - MUNUSAMY, Murugan A. From waste to high-value product: Jackfruit peel derived pectin/apatite bionanocomposites for bone healing applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 106, no., pp. 293-301., Registrované v: WOS
12. [1.1] GUZEL, Melih - AKPINAR, Ozlem. Valorisation of fruit by-products: Production characterization of pectins from fruit peels. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2019, vol. 115, no., pp. 126-133., Registrované v: WOS
13. [1.1] HE, Yue - MAO, Jincheng - RONG, Guangwei - YAN, Hong - ZHANG, Guoqi. Iron-Catalyzed Esterification of Benzyl C-H Bonds to Form alpha-Keto Benzyl Esters. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2015, vol. 357, no. 9, pp. 2125-2131., Registrované v: WOS
14. [1.1] HUANG, Xin - LI, Dong - WANG, Li-jun. Characterization of pectin extracted from sugar beet pulp under different drying conditions. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2017, vol. 211, no., pp. 1-6., Registrované v: WOS
15. [1.1] HUA, Mei - LU, Jiaxi - QU, Di - LIU, Chang - ZHANG, Lei - LI, Shanshan - CHEN, Jianbo - SUN, Yinshi. Structure, physicochemical properties and adsorption function of insoluble dietary fiber from ginseng residue: A potential functional ingredient. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 286, no., pp. 522-529., Registrované v: WOS
16. [1.1] CHEN, Hai-Ming - FU, Xiong - LUO, Zhi-Gang. Esterification of sugar beet pectin using octenyl succinic anhydride and its effect as an emulsion stabilizer. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 49, no., pp. 53-60., Registrované v: WOS
17. [1.1] CHEN, Hai-ming - FU, Xiong - LUO, Zhi-gang. Effect of molecular structure on emulsifying properties of sugar beet pulp pectin. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 54, no., pp. 99-106., Registrované v: WOS
18. [1.1] CHEN, Jinfeng - YE, Fayin - ZHOU, Yun - ZHAO, Guohua. Thiolated citrus low-methoxyl pectin: Synthesis, characterization and rheological and oxidation-responsive gelling properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 964-973., Registrované v: WOS

19. [1.1] LIU, Gongji - LIU, Yanzhao - YAN, Shoulei - LI, Jie. Acetic acid reducing the softening of lotus rhizome during heating by regulating the chelate-soluble polysaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116209>., Registrované v: WOS
20. [1.1] LIU, Hua-Min - WEI, Ya-Nan - YAN, Yuan-Yuan - WU, Min - QIN, Guang-Yong - WANG, Xue-De. Extraction and Characterization of Pectic Polysaccharides from Chaenomeles sinensis Fruit by Hot Compressed Water. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 1, pp. 854-868. Dostupné na: <https://doi.org/10.15376/biores.15.1.854-868>., Registrované v: WOS
21. [1.1] LIU, Jianing - BI, Jinfeng - LIU, Xuan - LIU, Dazhi - WU, Xinye - LYU, Jian - DING, Yingying. Effects of pectins and sugars on beta-carotene bioaccessibility in an in vitro simulated digestion model. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2020, vol. 91, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfca.2020.103537>., Registrované v: WOS
22. [1.1] LIU, Xuan - LIU, Jianing - BI, Jinfeng - YI, Jianyong - PENG, Jian - NING, Chunyuan - WELLALA, Chandi Kanchana Deepali - ZHANG, Baiqing. Effects of high pressure homogenization on pectin structural characteristics and carotenoid bioaccessibility of carrot juice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 203, no., pp. 176-184., Registrované v: WOS
23. [1.1] LI, Danyang - YU, Ming - ZHANG, Jitan - LIU, Zhanxiang - ZHANG, Yuhong. Synthesis of Benzyl Esters via Functionalization of Multiple C-H Bonds by Palladium Catalysis. In ORGANIC LETTERS. ISSN 1523-7060, 2015, vol. 17, no. 21, pp. 5300-5303., Registrované v: WOS
24. [1.1] LV, Jianhua - JIN, Jing - CHEN, Jiayue - CAI, Bing - JIANG, Wei. Antifouling and Antibacterial Properties Constructed by Quaternary Ammonium and Benzyl Ester Derived from Lysine Methacrylamide. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 28, pp. 25556-25568., Registrované v: WOS
25. [1.1] MAJJI, Ganesh - ROUT, Saroj K. - RAJAMANICKAM, Suresh - GUIN, Srimanta - PATEL, Bhisma K. Synthesis of esters via sp(3) C-H functionalisation. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 35, pp. 8178-8211., Registrované v: WOS
26. [1.1] MA, Xuemei - JING, Jing - WANG, Jingbao - XU, Jingjing - HU, Zhiyong. Extraction of Low Methoxyl Pectin from Fresh Sunflower Heads by Subcritical Water Extraction. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 25, pp. 15095-15104. Dostupné na: <https://doi.org/10.1021/acsomega.0c00928>., Registrované v: WOS
27. [1.1] MOU, Fen - SUN, Yadong - JIN, Weiwei - ZHANG, Yonghong - WANG, Bin - LIU, Zhiqing - GUO, Lei - HUANG, Jianbin - LIU, Chenjiang. Reusable ionic liquid-catalyzed oxidative esterification of carboxylic acids with benzylic hydrocarbons via benzylic Csp(3)-H bond activation under metal-free conditions. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 37, pp. 23041-23045., Registrované v: WOS
28. [1.1] NOURRY, Guillaume - BELOSINSCHI, Dan - BOUTIN, Manon P. - BROUILLETTE, Francios - ZERROUKI, Rachida. Hydrophobization of phosphorylated cellulosic fibers. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 6, pp. 3511-3520., Registrované v: WOS

29. [1.1] SABERI, Dariush - HASHEMI, Hajar. TBAI-catalyzed oxidative self-coupling of benzyl bromides under solvent-free conditions: A new pathway toward synthesis of benzyl benzoates. In CATALYSIS COMMUNICATIONS. ISSN 1566-7367, 2018, vol. 106, no., pp. 50-54., Registrované v: WOS
30. [1.1] SHAFIE, Muhammad Hakimin - GAN, Chee-Yuen. Could choline chloride-citric acid monohydrate molar ratio in deep eutectic solvent affect structural, functional and antioxidant properties of pectin? In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, no., pp. 835-843. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.013>., Registrované v: WOS
31. [1.1] SHIMOJO, Hiroyuki - MORIYAMA, Katsuhiko - TOGO, Hideo. A One-Pot, Transition-Metal-Free Procedure for C-O, C-S, and C-N Bond Formation at the Benzylic Position of Methylarenes. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2015, vol. 47, no. 9, pp. 1280-1290., Registrované v: WOS
32. [1.1] SHULGA, Oksana - LYSTOPAD, Volodymyr - SHULGA, Sergii - YURCHUK, Lyudmila. Method of pectin esterification determination degree by titrated acidity. In UKRAINIAN FOOD JOURNAL. ISSN 2304-974X, 2020, vol. 9, no. 2, pp. 383-393. Dostupné na: <https://doi.org/10.24263/2304-974X-2020-9-2-10>., Registrované v: WOS
33. [1.1] SUGANYA, K. S. Uma - GOVINDARAJU, K. - KUMAR, V. Ganesh - KARTHICK, V. - PARTHASARATHY, Krupakar. Pectin mediated gold nanoparticles induces apoptosis in mammary adenocarcinoma cell lines. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 1030-1040., Registrované v: WOS
34. [1.1] UMANA, Monica M. - DALMAU, Maria E. - EIM, Valeria S. - FEMENIA, Antoni - ROSSELLO, Carmen. Effects of acoustic power and pH on pectin-enriched extracts obtained from citrus by-products. Modelling of the extraction process. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 15, pp. 6893-6902., Registrované v: WOS
35. [1.1] WANG, Wenjun - MA, Xiaobin - XU, Yuting - CAO, Yongqiang - JIANG, Zhumao - DING, Tian - YE, Xingqian - LIU, Donghong. Ultrasound-assisted heating extraction of pectin from grapefruit peel: Optimization and comparison with the conventional method. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 178, no., pp. 106-114., Registrované v: WOS
36. [1.1] WANG, Wenjun - MA, Xiaobin - JIANG, Peng - HU, Lyulin - ZHI, Zijian - CHEN, Jianle - DING, Tian - YE, Xingqian - LIU, Donghong. Characterization of pectin from grapefruit peel: A comparison of ultrasound-assisted and conventional heating extractions. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2016, vol. 61, no., pp. 730-739., Registrované v: WOS
37. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS

38. [1.1] YANG, Jin-Shu - MU, Tai-Hua - MA, Meng-Mei. Extraction, structure, and emulsifying properties of pectin from potato pulp. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 244, no., pp. 197-205., Registrované v: WOS
39. [1.1] YANG, Jin-Shu - MU, Tai-Hua - MA, Meng-Mei. Optimization of ultrasound-microwave assisted acid extraction of pectin from potato pulp by response surface methodology and its characterization. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 289, no., pp. 351-359., Registrované v: WOS
40. [1.1] YANG, Yishuo - WANG, Zhaomei - HU, Die - XIAO, Kaijun - WU, Jian-Yong. Efficient extraction of pectin from sisal waste by combined enzymatic and ultrasonic process. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 79, no., pp. 189-196., Registrované v: WOS
41. [1.1] ZAINUDIN, Badrul Hisyam - TIN WUI WONG - HAMDAN, Halimatun. Design of low molecular weight pectin and its nanoparticles through combination treatment of pectin by microwave and inorganic salts. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 147, no., pp. 35-40., Registrované v: WOS
42. [1.1] ZHANG, Weimin - ZENG, Guanglin - PAN, Yonggui - CHEN, Wenxue - HUANG, Wuyang - CHEN, Haiming - LI, Yuansong. Properties of soluble dietary fiber-polysaccharide from papaya peel obtained through alkaline or ultrasound-assisted alkaline extraction. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 172, no., pp. 102-112., Registrované v: WOS
43. [1.1] ZHAO, Wenlin - XIE, Wei - DU, Shenglan - YAN, Shoulei - LI, Jie - WANG, Qingzhang. Changes in physicochemical properties related to the texture of lotus rhizomes subjected to heat blanching and calcium immersion. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 211, no., pp. 409-414., Registrované v: WOS
44. [1.1] ZHUANG, Hu - CHU, Shang - WANG, Ping - ZHOU, Bin - HAN, Lingyu - YU, Xiongwei - FU, Qinli - LI, Shugang. Study on the Emulsifying Properties of Pomegranate Peel Pectin from Different Cultivation Areas. In *MOLECULES*, 2019, vol. 24, no. 9, pp., Registrované v: WOS
45. [1.2] KUMAR, G. Praveen - SUNEETHA, V. Characterization of pectin lyase and polygalacturonase from novel *Bacillus cereus* GS-2 isolated from Chittoor and Vellore fruit industrial dump sites by SEM, 16SrRNA sequencing, ion-exchange, SDS and HPLC analysis. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-03-01, 10, 1, pp. 741-749., Registrované v: SCOPUS

ADCA1000 PASTÝR, Ján - KUNIAK, Ľudovít. Preparation and properties of the sulfoethylcellulose ion-exchanger based on cross-linked microcrystalline cellulose. In *Cellulose Chemistry and Technology*, 1971, vol. 5, p. 17-22. ISSN 0576-9787.

Ohlasy:

1. [1.1] HARNISCH, Henrik - HUEHNER, Jens - NEUSUESS, Christian - KOSCHELLA, Andreas - HEINZE, Thomas - SCRIBA, Gerhard K. E. Development and validation of a capillary electrophoresis method for the characterization of sulfoethyl cellulose. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2016, vol. 39, no. 23, pp. 4645-4652., Registrované v: WOS

ADCA1001 PAŠTEKA, Mikuláš. Dissolution of cellulose in the solutions of benzyltriethylammonium hydroxide. In *Cellulose Chemistry and Technology*, 1984, vol. 18, p. 379-387. ISSN 0576-9787.

Ohlasy:

1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Cellulose Activation and Dissolution. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 173-257., Registrované v: WOS

ADCA1002 PAŠTEKA, Mikuláš. Quarternization of regenerated cellulose under homogeneous reaction conditions. In *Acta Polymerica*, 1988, vol. 39, p. 130-132. ISSN 0323-7648.

Ohlasy:

1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS
2. [1.1] SONGSURANG, Kultida - SIRALEARTMUKUL, Krisana - MUANGSIN, Nongnuj. Mucoadhesive drug carrier based on functional-modified cellulose as poorly water-soluble drug delivery system. In *JOURNAL OF MICROENCAPSULATION*. ISSN 0265-2048, 2015, vol. 32, no. 5, pp. 450-459., Registrované v: WOS

ADCA1003 PAŠTÉKA, Mikuláš. Metallic derivatives of cellulose. In *Acta Polymerica*, 1992, vol. 43, p. 227-229. ISSN 0323-7648. Dostupné na: <https://doi.org/10.1002/actp.1992.010430409>

Ohlasy:

1. [1.1] BASTA, Altaf H. - EL SAIED, Houssni. Research Progress in Polymer Complexes and Their Applications. In *HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS*, 2016, vol., no., pp. 265-304., Registrované v: WOS

ADCA1004 PATEL, Trushar R. - MORRIS, Gordon A. - EBRINGEROVÁ, Anna - VODENIČAROVÁ, Melita - VELEBNÝ, Vladimír - ORTEGA, Alvaro - DE LA TORRE, Jose Garsia - HARDING, Stephen E. Global conformation analysis of irradiated xyloglucans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 74, s. 845-851. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.05.006>

Ohlasy:

1. [1.1] ALPIZAR-REYES, E. - CARRILLO-NAVAS, H. - ROMERO-ROMERO, R. - VARELA-GUERRERO, V. - ALUAREZ-RAMIREZ, J. - PEREZ-ALONSO, C. Thermodynamic sorption properties and glass transition temperature of tamarind seed mucilage (*Tamarindus indica* L.). In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2017, vol. 101, no., pp. 166-176., Registrované v: WOS
2. [1.1] BASSI, Pallavi - KAUR, Gurpreet. Polymeric films as a promising carrier for bioadhesive drug delivery: Development, characterization and optimization. In *SAUDI PHARMACEUTICAL JOURNAL*. ISSN 1319-0164, 2017, vol. 25, no. 1, pp. 32-43., Registrované v: WOS

3. [1.1] DEWAN, Mitali - DUTTA, Koushik - RANA, Dipak - BASU, Arijita - BHATTACHARYA, Amartya - ADHIKARY, Arghya - CHATTOPADHYAY, Dipankar. Effect of tamarind seed polysaccharide on thermogelation property and drug release profile of poloxamer 407-based ophthalmic formulation. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 36, pp. 15708-15715. Dostupné na: <https://doi.org/10.1039/d0nj02767g>., Registrované v: WOS
4. [1.1] GRUBE, Mandy - CINAR, Gizem - SCHUBERT, Ulrich S. - NISCHANG, Ivo. Incentives of Using the Hydrodynamic Invariant and Sedimentation Parameter for the Study of Naturally- and Synthetically-Based Macromolecules in Solution. In POLYMERS, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/polym12020277>., Registrované v: WOS
5. [1.1] GUO, Rui - CAO, Nannan - WU, Yan - WU, Jinhong. Optimized extraction and molecular characterization of polysaccharides from Sophora alopecuroides L. seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 231-242., Registrované v: WOS
6. [1.1] HUANBUTTA, Kampanart - SITTIKIJYOTHIN, Wancheng. Development and characterization of seed gums from Tamarindus indica and Cassia fistula as disintegrating agent for fast disintegrating Thai cordial tablet. In ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1818-0876, 2017, vol. 12, no. 4, pp. 370-377., Registrované v: WOS
7. [1.1] HUANBUTTA, Kampanart - SITTIKIJYOTHIN, Wancheng. Use of seed gums from Tamarindus indica and Cassia fistula as controlled-release agents. In ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1818-0876, 2018, vol. 13, no. 5, pp. 398-408., Registrované v: WOS
8. [1.1] KANG, Ding - CAI, Zhixiang - WEI, Yue - ZHANG, Hongbin. Structure and chain conformation characteristics of high acyl gellan gum polysaccharide in DMSO with sodium nitrate. In POLYMER. ISSN 0032-3861, 2017, vol. 128, no., pp. 147-158., Registrované v: WOS
9. [1.1] MUKERABIGWI, Jean Felix - WANG, Qing - MA, Xiaoya - LIU, Min - LEI, Shaojun - WEI, Haitao - HUANG, Xueying - CAO, Yu. Urea fertilizer coated with biodegradable polymers and diatomite for slow release and water retention. In JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH. ISSN 1945-9645, 2015, vol. 12, no. 6, pp. 1085-1094., Registrované v: WOS
10. [1.1] PARK, Yong Bum - COSGROVE, Daniel J. Xyloglucan and its Interactions with Other Components of the Growing Cell Wall. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2015, vol. 56, no. 2, pp. 180-194., Registrované v: WOS
11. [1.1] TODARO, Simona - SABATINO, Maria Antonietta - MANGIONE, Maria Rosalia - PICONE, Pasquale - DI GIACINTO, Maria Laura - BULONE, Donatella - DISPENZA, Celia. Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 382-390., Registrované v: WOS
12. [1.1] TODARO, Simona - SABATINO, Maria Antonietta - AJOVALASIT, Alessia - DITTA, Lorena A. - CASTIGLIA, Debora - WACH, Radoslaw A. - ULANSKI, Piotr - BULONE, Donatella - DISPENZA, Clelia. Radiation Engineering of Xyloglucan Hydrogels. In 5TH INTERNATIONAL

- SYMPOSIUM ON INDUSTRIAL BIOTECHNOLOGY (IBIC 2016). ISSN 1974-9791, 2016, vol. 49, no., pp. 289-294., Registrované v: WOS
13. [1.1] WANG, Jun-Hui - ZHANG, Bi-Wei - LUO, Jian-Ping. MOLECULAR WEIGHT, CHAIN CONFORMATION AND ANTIOXIDANT ACTIVITIES OF SULFATED beta-D-GALACTAN DERIVATIVES FROM DENDROBIUM NOBILE LINDL. In CURRENT TOPICS IN NUTRACEUTICAL RESEARCH. ISSN 1540-7535, 2015, vol. 13, no. 4, pp. 205-212., Registrované v: WOS
 14. [1.1] WANG, Lili - LI, Rumeng - SHAO, Jianzhong - WANG, Zhao. Rheological behaviors of carboxymethyl tamarind gum as thickener on georgette printing with disperse dyes. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 26, pp., Registrované v: WOS
 15. [1.1] WU, Shao-Chi - SHYU, Yung-Shin - TSENG, Yi-Wen - SUNG, Wen-Chieh. The Effect of Tamarind Seed Gum on the Qualities of Gluten-Free Cakes. In PROCESSES, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/pr8030318>., Registrované v: WOS
 16. [1.1] XU, Xiaoqi - XUE, Changhu - CHANG, Yaoguang - CHEN, Feng - WANG, Jun. Conformational and physicochemical properties of fucosylated chondroitin sulfate from sea cucumber *Apostichopus japonicus*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 26-32., Registrované v: WOS
 17. [1.1] XU, Xiaoqi - XUE, Changhu - CHANG, Yaoguang - WANG, Jun - JIANG, Kunhao. Chain conformational and physicochemical properties of fucoidans from sea cucumber. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 433-440., Registrované v: WOS
 18. [1.2] HEBEISH, A. - RAGHEB, A. A. - ABDEL-THALOUTH, I. - ADEL YOUSEF, M. - MAHMOUD, R. M. Benign printing paste from the waste of tamarind seeds for textile printing. Part I: Basic data. In Egyptian Journal of Chemistry. ISSN 04492285, 2017-01-01, 60, pp. 117-127., Registrované v: SCOPUS

ADCA1005 PATEL, T.R. - HARDING, S.E. - EBRINGEROVÁ, Anna - DESZCZYNSKI, M. - HROMÁDKOVÁ, Zdenka - TOGOLA, A. - PAULSEN, B.S. - MORRIS, G.A. - ROWE, A.J. Weak self-association in carbohydrate system. In *Biophysical Journal*, 2007, vol. 93, p. 741-749. (2006: 4.757 - IF, Q1 - JCR, 2.857 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0006-3495. Dostupné na: <https://doi.org/10.1529/biophysj.106.100891>

Ohlasy:

1. [1.1] FEDOROV, Dmitrii - BATYS, Piotr - HAYES, David B. - SAMMALKORPI, Maria - LINDER, Markus B. Analyzing the weak dimerization of a cellulose binding module by analytical ultracentrifugation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1995-2004. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.054>., Registrované v: WOS
2. [1.1] CHATURVEDI, Sumit K. - SAGAR, Vatsala - ZHAO, Huaying - WISTOW, Graeme - SCHUCK, Peter. Measuring Ultra-Weak Protein Self-Association by Non-ideal Sedimentation Velocity. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 7, pp. 2990-2996., Registrované v: WOS
3. [1.1] KAV, Batuhan - GRAFMUELLER, Andrea - SCHNECK,

- Emanuel - WEIKL, Thomas R. Weak carbohydrate-carbohydrate interactions in membrane adhesion are fuzzy and generic. In NANOSCALE. ISSN 2040-3364, 2020, vol. 12, no. 33, pp. 17342-17353. Dostupné na: <https://doi.org/10.1039/d0nr03696j>., Registrované v: WOS
4. [1.1] KUMAR, Dinesh - LOMESH, Shashi Kant - NATHAN, Vikas. Molecular interaction studies of L-alanine and L-phenylalanine in water and in aqueous citric acid at different temperatures using volumetric, viscosity and ultrasonic methods. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 247, no., pp. 75-83., Registrované v: WOS
5. [1.1] KUMAR, Dinesh - SHARMA, Shashi Kant. Molecular Interactions Investigation of L-Histidine in Water and in Aqueous Citric Acid at Different Temperatures Using Volumetric and Acoustic Methods. In ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS. ISSN 0942-9352, 2018, vol. 232, no. 3, pp. 393-408., Registrované v: WOS
6. [1.1] LOMESH, Shashi Kant - KUMAR, Dinesh. Volumetric, viscosity and ultrasonic studies of solute-solute and solute-solvent interactions of glycine and diglycine in water and in aqueous citric acid at different temperatures. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 241, no., pp. 764-771., Registrované v: WOS
7. [1.1] SAGAR, Vatsala - CHATURVEDI, Sumit K. - SCHUCK, Peter - WISTOW, Graeme. Crystal Structure of Chicken gamma S-Crystallin Reveals Lattice Contacts with Implications for Function in the Lens and the Evolution of the beta gamma-Crystallins. In STRUCTURE. ISSN 0969-2126, 2017, vol. 25, no. 7, pp. 1068-+., Registrované v: WOS
8. [1.1] WAGNER, Angela M. - GRAN, Margaret P. - PEPPAS, Nicholas A. Designing the new generation of intelligent biocompatible carriers for protein and peptide delivery. In ACTA PHARMACEUTICA SINICA B. ISSN 2211-3835, 2018, vol. 8, no. 2, pp. 147-164., Registrované v: WOS
9. [1.1] WIEBENGA-SANFORD, Benjamin P. - WASHINGTON, Jack B. - COSGROVE, Brett - PALOMARES, Eduardo F. - VASQUEZ, Derrick A. - RITHNER, Christopher D. - LEVINGER, Nancy E. Sweet Confinement: Glucose and Carbohydrate Osmolytes in Reverse Micelles. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 41, pp. 9555-9566., Registrované v: WOS
10. [1.1] WITT, Hannes - SAVIC, Filip - OELKERS, Marieelen - AWAN, Shahid I. - WERZ, Daniel B. - GEIL, Burkhard - JANSHOFF, Andreas. Size, Kinetics, and Free Energy of Clusters Formed by Ultraweak Carbohydrate-Carbohydrate Bonds. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2016, vol. 110, no. 7, pp. 1582-1592., Registrované v: WOS
11. [1.1] WRIGHT, Robert T. - HAYES, David B. - STAFFORD, Walter F. - SHERWOOD, Peter J. - CORREIA, John J. Characterization of therapeutic antibodies in the presence of human serum proteins by AU-FDS analytical ultracentrifugation. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2018, vol. 550, no., pp. 72-83., Registrované v: WOS
12. [1.1] ZINK, Matthias - HOTZEL, Konrad - SCHUBERT, Ulrich S. - HEINZE, Thomas - FISCHER, Dagmar. Amino Acid-Substituted Dextran-Based Non-Viral Vectors for Gene Delivery. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2019, vol. 19, no. 8, pp., Registrované v: WOS

13. [1.2] BESONG, Tabot M.D. - ROWE, Arthur J. Acquisition and analysis of data from high concentration solutions. In *Analytical Ultracentrifugation: Instrumentation, Software, and Applications*, 2016-01-01, pp. 499-520., Registrované v: SCOPUS
14. [1.2] Schuck, P., & Zhao, H. (2017). In *Sedimentation Velocity Analytical Ultracentrifugation: Interacting Systems* (CRC Press, pp. 1-271), Registrované v: SCOPUS

ADCA1006 PAULOVÍČOVÁ, Ema - MACHOVÁ, Eva - TULINSKÁ, J. - BYSTRICKÝ, Slavomír. Cell and antibody mediated immunity induced by vaccination with novel *Candida dubliniensis* mannan immunogenic conjugate. In *International Immunopharmacology*, 2007, vol. 7, p. 1325-1333. (2006: 2.157 - IF, Q2 - JCR, 0.768 - SJR, Q2 - SJR). ISSN 1567-5769. Dostupné na: <https://doi.org/10.1016/j.intimp.2007.05.014>

Ohlasy:

1. [1.1] CARVALHO, Agostinho - DUARTE-OLIVEIRA, Claudio - GONCALVES, Samuel M. - CAMPOS, Antonio - LACERDA, Joao F. - CUNHA, Cristina. Fungal Vaccines and Immunotherapeutics: Current Concepts and Future Challenges. In *CURRENT FUNGAL INFECTION REPORTS*. ISSN 1936-3761, 2017, vol. 11, no. 1, pp. 16-24., Registrované v: WOS
2. [1.1] CARVALHO, Agostinho - CUNHA, Cristina - GALOSI, Claudia - ROMANI, Luigina. Antifungal Vaccines and Immunotherapeutics. In *ANTIFUNGALS: FROM GENOMICS TO RESISTANCE AND THE DEVELOPMENT OF NOVEL AGENTS*, 2015, vol., no., pp. 267-287., Registrované v: WOS
3. [1.1] DATTA, Kausik - HAMAD, Mawieh. Immunotherapy of Fungal Infections. In *IMMUNOLOGICAL INVESTIGATIONS*. ISSN 0882-0139, 2015, vol. 44, no. 8, pp. 738-776., Registrované v: WOS
4. [1.1] KUMARESAN, Pappanaicken R. - DA SILVA, Thiago Aparecido - KONTOYIANNIS, Dimitrios P. Methods of Controlling Invasive Fungal Infections Using CD8(+) T Cells. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 8, no., pp., Registrované v: WOS
5. [1.1] MISME-AUCOUTURIER, Barbara - ALBASSIER, Marjorie - ALVAREZ-RUEDA, Nidia - LE PAPE, Patrice. Specific Human and *Candida* Cellular Interactions Lead to Controlled or Persistent Infection Outcomes during Granuloma-Like Formation. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2017, vol. 85, no. 1, pp., Registrované v: WOS
6. [1.1] MISME-AUCOUTURIER, Barbara - TOUAHRI, Adel - ALBASSIER, Marjorie - JOTEREAU, Francine - LE PAPE, Patrice - ALVAREZ-RUEDA, Nidia. Double positive CD4+CD8+T cells are part of the adaptive immune response against *Candida albicans*. In *HUMAN IMMUNOLOGY*. ISSN 0198-8859, 2019, vol. 80, no. 12, pp. 999-1005., Registrované v: WOS
7. [1.1] NAMI, Sanam - MOHAMMADI, Rasoul - VAKILI, Mahshid - KHEZRIPOUR, Kimia - MIRZAEI, Hamed - MOROVATI, Hamid. Fungal vaccines, mechanism of actions and immunology: A comprehensive review. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2019, vol. 109, no., pp. 333-344., Registrované v: WOS
8. [1.1] TIWARI, Urvashi - DAS, Shukla - TANDON, Mukta - RAMACHANDRAN, V. G. - SAHA, Rumpa. Vaccines for fungal infections. In

- ADCA1007 PAULOVÍČOVÁ, Ema - BUJDÁKOVÁ, Helena - CHUPÁČOVÁ, Jarmila - PAULOVÍČOVÁ, Lucia - KERTYS, Pavol - HRUBÍŠKO, Martin. Humoral immune responses to *Candida albicans* complement receptor 3-related protein in the atopic subjects with vulvovaginal candidiasis. Novel sensitive marker for *Candida* infection. In *FEMS Yeast Research*, 2015, vol. 15, p. 1-8. (2014: 2.818 - IF, Q2 - JCR, 1.076 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/fou001>
- Ohlasy:
1. [1.1] ARDIZZONI, Andrea - SALA, Arianna - COLOMBARI, Bruna - GIVA, Lavinia Beatrice - CERMELLI, Claudio - PEPPOLONI, Samuele - VECCHIARELLI, Anna - ROSELLETTI, Elena - BLASI, Elisabetta - WHEELER, Robert T. - PERICOLINI, Eva. Perinuclear Anti-Neutrophil Cytoplasmic Antibodies (pANCA) Impair Neutrophil Candidacidal Activity and Are Increased in the Cellular Fraction of Vaginal Samples from Women with Vulvovaginal Candidiasis. In *JOURNAL OF FUNGI*, 2020, vol. 6, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jof6040225>., Registrované v: WOS
 2. [1.1] HU, Yongxuan - LU, Sha - XI, Liyan. Murine Macrophage Requires CD11b to Recognize *Talaromyces marneffei*. In *INFECTION AND DRUG RESISTANCE*. ISSN 1178-6973, 2020, vol. 13, no., pp. 911-920. Dostupné na: <https://doi.org/10.2147/IDR.S237401>., Registrované v: WOS
 3. [1.1] MALDONADO-CARMONA, Nidia - VAZQUEZ-HERNANDEZ, Melissa - PATIRIO CHAVEZ, Osiris Jair - DANIELA RODRIGUEZ-LUNA, Stefany - JIMENEZ RODRIGUEZ, Omar - SANCHEZ, Sergio - DIANA CEAPA, Corina. Impact of similar to omics in the detection and validation of potential anti-infective drugs. In *CURRENT OPINION IN PHARMACOLOGY*. ISSN 1471-4892, 2019, vol. 48, no., pp. 1-7., Registrované v: WOS
 4. [1.1] MENG, Yanming - KANG, Mei - LI, Dongdong - WANG, Tingting - KUANG, Ziwei - MA, Ying. Performance of a new *Candida* anti-mannan IgM and IgG assays in the diagnosis of candidemia. In *REVISTA DO INSTITUTO DE MEDICINA TROPICAL DE SAO PAULO*. ISSN 0036-4665, 2020, vol. 62, no., pp. Dostupné na: <https://doi.org/10.1590/S1678-9946202062025>., Registrované v: WOS
 5. [1.1] TONG, Yiqing - TANG, Jianguo. *Candida albicans* infection and intestinal immunity. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2017, vol. 198, no., pp. 27-35., Registrované v: WOS
 6. [1.1] YASHUNSKY, D. V. - TSVETKOV, Yu. E. - NIFANTIEV, N. E. Synthesis of 3-aminopropyl glycosides of branched beta-(1→3)-glucooligosaccharides. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2015, vol. 64, no. 12, pp. 2922-2931., Registrované v: WOS
- ADCA1008 PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - BUJDÁKOVÁ, H. Immune responsiveness of a novel peptidoglycan conjugate prepared from surface *Candida* immunogens: mannan and CR3-related protein. In *FEMS Immunology and medical microbiology*, 2008, vol. 53, p.421-428. (2007: 1.928 - IF, Q3 - JCR). ISSN 0928-8244. Dostupné na: <https://doi.org/10.1111/j.1574-695X.2008.00442.x>

Ohlasy:

1. [1.1] TONG, Yiqing - TANG, Jianguo. Candida albicans infection and intestinal immunity. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2017, vol. 198, no., pp. 27-35., Registrované v: WOS

ADCA1009 PAULOVÍČOVÁ, Ema** - PAULOVÍČOVÁ, Lucia - FARKAŠ, Pavol
- KARELIN, Alexander A. - TSVETKOV, Yury E. - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E.**. Importance of Candida Antigenic Factors: Structure-Driven Immunomodulation Properties of Synthetically Prepared Mannooligosaccharides in RAW264.7 Macrophages. In *Frontiers in Cellular and Infection Microbiology*, 2019, vol. 9, article no. 378, p. 1-14. (2018: 3.518 - IF, Q2 - JCR, 1.541 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2235-2988. Dostupné na: <https://doi.org/10.3389/fcimb.2019.00378>

Ohlasy:

1. [1.1] YAN, Lufeng - XIA, Ke - YU, Yanlei - MILIAKOS, Anna - CHATURVEDI, Sudha - ZHANG, Fuming - CHEN, Shiguo - CHATURVEDI, Vishnu - LINHARDT, Robert J. Unique Cell Surface Mannan of Yeast Pathogen Candida auris with Selective Binding to IgG. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2020, vol. 6, no. 5, pp. 1018-1031. Dostupné na: <https://doi.org/10.1021/acsinfecdis.9b00450>., Registrované v: WOS

ADCA1010 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - BYSTRICKÝ, Slavomír - YASHUNSKY, Dmitri V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthetically prepared glycooligosaccharides mimicking Candida albicans cell wall glycan antigens - novel tools to study host-pathogen interactions. In *FEMS Yeast Research*, 2013, vol. 13, p. 659-673. (2012: 2.462 - IF, Q2 - JCR, 1.192 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1111/1567-1364.12065>

Ohlasy:

1. [1.1] CARNEIRO, Catarina - CORREIA, Alexandra - COLLINS, Tony - VILANOVA, Manuel - PAIS, Celia - GOMES, Andreia C. - OLIVEIRA, M. Elisabete C. D. Real - SAMPAIO, Paula. DODAB: monoolein liposomes containing Candida albicans cell wall surface proteins: A novel adjuvant and delivery system. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2015, vol. 89, no., pp. 190-200., Registrované v: WOS
2. [1.1] LIAO, Jun - PAN, Bo - LIAO, Guochao - ZHAO, Qingjie - GAO, Yun - CHAI, Xiaoyun - ZHUO, Xiaobin - WU, Qiuye - JIAO, Binghua - PAN, Weihua - GUO, Zhongwu. Synthesis and immunological studies of beta-1,2-mannan-peptide conjugates as antifungal vaccines. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2019, vol. 173, no., pp. 250-260., Registrované v: WOS
3. [1.1] MICOLI, Francesca - COSTANTINO, Paolo - ADAMO, Roberto. Potential targets for next generation antimicrobial glycoconjugate vaccines. In FEMS MICROBIOLOGY REVIEWS. ISSN 0168-6445, 2018, vol. 42, no. 3, pp. 388-423., Registrované v: WOS

ADCA1011 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - JANČINOVÁ, Viera - YASHUNSKY, Dmitry V. - KARELIN, Alexander

A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. The evaluation of beta-(1-3)-nonaglucoside as an anti-Candida albicans immune response inducer. In *Cellular Microbiology*, 2016, vol. 18, no. 9, p. 1294-1307. (2015: 4.460 - IF, Q1 - JCR, 2.949 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1462-5814. Dostupné na: <https://doi.org/10.1111/cmi.12631>

Ohlasy:

1. [1.1] BORCEA, Anca-Maria - MARC, Gabriel - VODNAR, Dan C. - VLASE, Laurian - ONIGA, Ovidiu. Synthesis of novel thiazolyl-phenyl-thiazole derivatives as promising anti-Candida agents. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 5, pp. 2085-2090., Registrované v: WOS

ADCA1012 PAULOVICHOVÁ, Ema - KOVÁČOVÁ, Elena - BYSTRICKÝ, Slavomír. Vibrio cholerae O1 Ogawa detoxified lipopolysaccharide structure as inducers of cytokines and oxidative species in macrophages. In *Journal of Medical Microbiology*, 2010, vol. 59, p. 158-164. (2009: 2.272 - IF, Q3 - JCR, 1.046 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0022-2615. Dostupné na: <https://doi.org/10.1099/jmm.0.013599-0>

Ohlasy:

1. [1.1] XIAO, Weihua - CHEN, Peijie - DONG, Jingmei - WANG, Ru - LUO, Beibei. Dietary Glutamine Supplementation Partly Reverses Impaired Macrophage Function Resulting From Overload Training in Rats. In *INTERNATIONAL JOURNAL OF SPORT NUTRITION AND EXERCISE METABOLISM*. ISSN 1526-484X, 2015, vol. 25, no. 2, pp. 179-187., Registrované v: WOS

ADCA1013 PAULOVICHOVÁ, Lucia** - PAULOVICHOVÁ, Ema - FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - JANČINOVÁ, Viera - TURÁNEK, J. - PERICOLINI, Eva - GABRIELLI, Elena - VECCHIARELLI, Anna - HRUBIŠKO, M. Bioimmunological activities of Candida glabrata cellular mannan. In *FEMS Yeast Research*, 2019, vol. 19, no. 2, art. no. foz009. (2018: 2.458 - IF, Q2 - JCR, 1.126 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/foz009>

Ohlasy:

1. [1.1] ANGRAND, G. - QUILLEVERE, A. - LOAEC, N. - DASKALOGIANNI, C. - GRANZHAN, A. - TEULADE-FICHO, M.P. - FAHRAEUS, R. - MARTINS, R.P. - BLONDEL, M. Sneaking Out for Happy Hour: Yeast-Based Approaches to Explore and Modulate Immune Response and Immune Evasion. In *GENES*. eISSN: 2073-4425, 2019, vol. 10, no. 9, art. no. 667., Registrované v: WOS

2. [1.1] PODOLAKOVA, K. - BARAK, L. - JANCOVA, E. - STANIK, J. - PODRACKA, L. Increasing incidence of type 1 diabetes mellitus in young children in Slovakia. In *BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY*. ISSN 0006-9248, 2020, vol. 121, no. 2, p. 129-132., Registrované v: WOS

3. [1.2] RASHEED, Mubashshir - BATTU, Anamika - KAUR, Rupinder. Host-pathogen interaction in Candida glabrata infection: current knowledge and implications for antifungal therapy. In *Expert Review of Anti-Infective Therapy*. ISSN 14787210, 2020-01-01, pp. 1-11., Registrované v: SCOPUS

ADCA1014 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, A.A. - TSVETKOV, Y.E - NIFANTIEV, N. E. - BYSTRICKÝ, Slavomír. Effect of Branched α -Oligomannoside Structures on Induction of Anti-Candida Humoral Immune Response. In *Scandinavian Journal of Immunology*, 2013, vol. 77, p. 431-441. (2012: 2.199 - IF, Q3 - JCR, 0.890 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0300-9475. Dostupné na: <https://doi.org/10.1111/sji.12044>

Ohlasy:

1. [1.1] LIMA-JUNIOR, Josue da Costa - MORGADO, Fernanda Nazare - CONCEICAO-SILVA, Fatima. How Can Elispot Add Information to Improve Knowledge on Tropical Diseases? In *CELLS*. ISSN 2073-4409, 2017, vol. 6, no. 4, pp., Registrované v: WOS
2. [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS
3. [1.1] TSO, Gloria Hoi Wan - REALES-CALDERON, Jose Antonio - PAVELKA, Norman. The Elusive Anti-Candida Vaccine: Lessons From the Past and Opportunities for the Future. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA1015 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. - BYSTRICKÝ, Slavomír. Humoral and cell-mediated immunity following vaccination with synthetic Candida cell wall mannan derived heptamannoside-protein conjugate immunomodulatory properties of heptamannoside-BSA conjugate. In *International Immunopharmacology*, 2012, vol. 14, p. 179-187. (2011: 2.376 - IF, Q2 - JCR, 0.828 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1567-5769. Dostupné na: <https://doi.org/10.1016/j.intimp.2012.07.004>

Ohlasy:

1. [1.1] CARNEIRO, Catarina - CORREIA, Alexandra - COLLINS, Tony - VILANOVA, Manuel - PAIS, Celia - GOMES, Andreia C. - OLIVEIRA, M. Elisabete C. D. Real - SAMPAIO, Paula. DODAB:monoolein liposomes containing Candida albicans cell wall surface proteins: A novel adjuvant and delivery system. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2015, vol. 89, no., pp. 190-200., Registrované v: WOS
2. [1.1] HUANG, Mia L. - FISHER, Christopher J. - GODULA, Kamil. Glycomaterials for probing host-pathogen interactions and the immune response. In *EXPERIMENTAL BIOLOGY AND MEDICINE*. ISSN 1535-3702, 2016, vol. 241, no. 10, pp. 1042-1053., Registrované v: WOS
3. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesa S. Preclinical Assessment of Glycoconjugate Vaccines. In *CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC*. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS
4. [1.2] SÁNCHEZ-NAVARRO, Macarena - DAVIS, Benjamin G. Sugar-protein hybrids for biomedical applications. In *Glychochemical Synthesis: Strategies and Applications*, 2015-01-01, pp. 509-534., Registrované v: SCOPUS

ADCA1016 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír. Immunological basis of anti-Candida vaccines focused on synthetically prepared cell wall mannan-derived manno-oligomers. In *Microbiology and immunology*, 2014, vol. 58, p. 545-551 (1.306-IF2013. (2013: 1.306 - IF, Q4 - JCR, 0.702 - SJR, Q3 - SJR). ISSN 1348-0421. Dostupné na: <https://doi.org/10.1111/1348-0421.12195>

Ohlasy:

1. [1.1] GUO, Can-Jie - LEUNG, Patrick S. C. - ZHANG, Weici - MA, Xiong - GERSHWIN, M. Eric. The immunobiology and clinical features of type 1 autoimmune polyglandular syndrome (APS-1). In *AUTOIMMUNITY REVIEWS*. ISSN 1568-9972, 2018, vol. 17, no. 1, pp. 78-85., Registrované v: WOS
2. [1.1] NIMRICHTER, Leonardo - DE SOUZA, Marcio M. - DEL POETA, Maurizio - NOSANCHUK, Joshua D. - JOFFE, Luna - TAVARES, Patricia de M. - RODRIGUES, Marcio L. Extracellular Vesicle-Associated Transitory Cell Wall Components and Their Impact on the Interaction of Fungi with Host Cells. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
3. [1.2] EL-GANINY, Amira M. - MOSBAH, Rasha A. - KADRY, Ashraf A. Generation of *Aspergillus nidulans* mutants with deleted GDP-mannose transporters by fusion PCR. In *International Journal of Pharmaceutical Sciences Review and Research*. ISSN 0976044X, 2015-01-01, 32, 1, pp. 217-222., Registrované v: SCOPUS

ADCA1017 PAULOVÍČOVÁ, Lucia - BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yuri E. - NIFANTIEV, Nikolay E. Model alfa-mannoside conjugates: immunogenicity and induction of candidacidal activity. In *FEMS Immunology and medical microbiology*, 2010, vol. 58, p. 307-313. (2009: 2.335 - IF, Q3 - JCR, Current Contents - CCC). (2010 - Current Contents). ISSN 0928-8244.

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS

ADCA1018 PAVLIAK, V. - BRISSON, J.R. - MICHON, F. - UHRÍN, Dušan - JENNINGS, H.J. Structure of the sialylated L3 lipopolysaccharide of *Neisseria meningitidis*. In *Journal of Biological Chemistry*, 1993, vol. 268, p. 14146-14152. (1992: 6.733 - IF, Current Contents - CCC). (1993 - Current Contents). ISSN 0021-9258.

Ohlasy:

1. [1.1] MUBAIWA, Tsitsi D. - SEMCHENKO, Evgeny A. - HARTLEY-TASSELL, Lauren E. - DAY, Christopher J. - JENNINGS, Michael P. - SEIB, Kate L. The sweet side of the pathogenic *Neisseria*: the role of glycan interactions in colonisation and disease. In *PATHOGENS AND DISEASE*. ISSN 2049-632X, 2017, vol. 75, no. 5, pp., Registrované v: WOS
2. [1.1] RAM, Sanjay - SHAUGHNESSY, Jutamas - DEOLIVEIRA,

- Rosane B. - LEWIS, Lisa A. - GULATI, Sunita - RICE, Peter A. Utilizing complement evasion strategies to design complement-based antibacterial immunotherapeutics: Lessons from the pathogenic *Neisseriae*. In IMMUNOBIOLOGY. ISSN 0171-2985, 2016, vol. 221, no. 10, pp. 1110-1123., Registrované v: WOS
3. [1.1] ZARIRI, Afshin - PUPO, Elder - VAN RIET, Elly - VAN PUTTEN, Jos P. M. - VAN DER LEY, Peter. Modulating endotoxin activity by combinatorial bioengineering of meningococcal lipopolysaccharide. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
4. [1.2] ABUKAR, Tasnim - BUENBRAZO, Nakita - JANESCH, Bettina - KELL, Laura - WAKARCHUK, Warren. Assay methods for the glycosyltransferases involved in synthesis of bacterial polysaccharides. In Methods in Molecular Biology. ISSN 10643745, 2019-01-01, 1954, pp. 215-235., Registrované v: SCOPUS
5. [1.2] LEE, Shwu Maan - TURULA, Vincent - POWELL, Bradford - NISSUM, Mikkel - PIZZA, Mariagrazia - MAGAGNOLI, Claudia - KUMAR, Niranjan M. Analytical control strategy of bacterial subunit vaccines. In Vaccine Analysis: Strategies, Principles, and Control, 2015-01-01, pp. 187-270., Registrované v: SCOPUS

ADCA1019 PAVLIAKOVÁ, Dana - CHU, C.Y. - BYSTRICKÝ, Slavomír - TOLSON, N.W. - SHILOACH, J. - KAUFMAN, J.B. - BRYLA, D.A. - ROBBINS, J.B. - SCHNEERSON, R. Treatment with succinic anhydride improves the immunogenicity of *Shigella flexneri* type 2a O-specific polysaccharide-protein conjugates in mice. In *Infection and Immunity*, 1999, vol. 67, p. 5526-5529. (1998: 4.034 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0019-9567.

Ohlasy:

1. [1.1] BAREL, Louis-Antoine - MULARD, Laurence A. Classical and novel strategies to develop a *Shigella* glycoconjugate vaccine: from concept to efficacy in human. In HUMAN VACCINES & IMMUNOTHERAPEUTICS. ISSN 2164-5515, 2019, vol. 15, no. 6, pp. 1338-1356., Registrované v: WOS
2. [1.1] RONDINI, S. - MICOLI, F. - LANZILAO, L. - GAVINI, M. - ALFINI, R. - BRANDT, C. - CLARE, S. - MASTROENI, P. - SAUL, A. - MACLENNAN, C. A. Design of Glycoconjugate Vaccines against Invasive African *Salmonella enterica* Serovar Typhimurium. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2015, vol. 83, no. 3, pp. 996-1007., Registrované v: WOS
3. [1.1] SEO, Hyesuk - DUAN, Qiangde - ZHANG, Weiping. Vaccines against gastroenteritis, current progress and challenges. In GUT MICROBES. ISSN 1949-0976, 2020, vol. 11, no. 6, pp. 1486-1517. Dostupné na: <https://doi.org/10.1080/19490976.2020.1770666>., Registrované v: WOS
4. [1.1] SEO, Hyesuk - DUAN, Qiangde - ZHANG, Weiping. Vaccines against gastroenteritis, current progress and challenges (Reprinted from Gut Microbes, vol 11, pg 1486-1517, 2020). In GUT MICROBES. ISSN 1949-0976, 2020, vol. 12, no., pp. Dostupné na: <https://doi.org/10.1080/19490976.2020.1770666>., Registrované v: WOS
5. [1.2] LIU, Ai Ping - REN, Zhen Yun - LIU, Jia - WANG, Xin Ru - WANG, Xi - LI, A. Ni - LI, Yan Ting - HU, Hao - WU, Bing - XIE, Gui Lin. Preparation and immunogenicity comparison of two conjugates of serotype 14

pneumococcal polysaccharides. In Chinese Journal of New Drugs. ISSN 10033734, 2016-12-15, 25, 23, pp. 2714-2719., Registrované v: SCOPUS

ADCA1020 PAWLACZYK, Izabela - CZERCHAWSKI, Leszek - KAŃSKA, Justyna - BIJAK, Joanna - CAPEK, Peter - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An acidic glycoside conjugate from *Lythrum salicaria* L. with controversial effects on haemostasis. In *Journal of Ethnopharmacology*, 2010, vol. 131, p. 63-69. (2009: 2.322 - IF, Q2 - JCR, 1.085 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0378-8741.

Ohlasy:

1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsipianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
2. [1.1] DIPPENAAR, J. M. Herbal and alternative medicine: the impact on anesthesia. In *SOUTHERN AFRICAN JOURNAL OF ANAESTHESIA AND ANALGESIA*. ISSN 2220-1181, 2015, vol. 21, no. 1, pp. 15-20., Registrované v: WOS
3. [1.1] EBRAHIMI, Fatemeh - MAHMOUDI, Javad - TORBATI, Mohammadali - KARIMI, Pouran - VALIZADEH, Hadi. Hemostatic activity of aqueous extract of *Myrtus communis* L. leaf in topical formulation: In vivo and in vitro evaluations. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2020, vol. 249, no., pp. Dostupné na: <https://doi.org/10.1016/j.jep.2019.112398>., Registrované v: WOS
4. [1.1] EBRAHIMI, Fatemeh - TORBATI, Mohammadali - MAHMOUDI, Javad - VALIZADEH, Hadi. Medicinal Plants as Potential Hemostatic Agents. In *JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES*. ISSN 1482-1826, 2020, vol. 23, no., pp. 10-23., Registrované v: WOS
5. [1.1] KOOK, Yeon Ji - TIAN, Jingwen - JEON, Yoo Shin - CHOI, Min Jung - SONG, Jeong Eun - PARK, Chan Hum - REIS, Rui L. - KHANG, Gilson. Nature-derived epigallocatechin gallate/duck's feet collagen/hydroxyapatite composite sponges for enhanced bone tissue regeneration. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2018, vol. 29, no. 7-9, pp. 984-996., Registrované v: WOS
6. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
7. [1.1] MENDES, Tatiane C. - DOS REIS LIVERO, Francislaina Aparecida - DE SOUZA, Priscila - GEBARA, Karimi S. - GASPAROTTO JUNIOR, Arquimedes. Cellular and Molecular Mechanisms of Antithrombogenic Plants: A Narrative Review. In *CURRENT PHARMACEUTICAL DESIGN*.

- ISSN 1381-6128, 2020, vol. 26, no. 1, pp. 176-190. Dostupné na:
<https://doi.org/10.2174/1381612825666191216125135>., Registrované v: WOS
8. [1.1] PIWOWARSKI, Jakub P. - GRANICA, Sebastian - KISS, Anna K. *Lythrum salicaria* L.-Underestimated medicinal plant from European traditional medicine. A review. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 170, no., pp. 226-250., Registrované v: WOS
9. [1.1] PIWOWARSKI, Jakub P. - KISS, Anna K. Contribution of C-glucosidic ellagitannins to *Lythrum salicaria* L. influence on pro-inflammatory functions of human neutrophils. In JOURNAL OF NATURAL MEDICINES. ISSN 1340-3443, 2015, vol. 69, no. 1, pp. 100-110., Registrované v: WOS
10. [1.1] SHAFEE, Wan Norshazwani Wan - YUSOF, Nur Yuzaiza - FAUZI, Hafizuddin Mohamed - VUANGHAO, Lim - KAMALALDIN, Nurulain Atikah - YAHAYA, Badrul Hisham. Anti-Coagulation Activities of Malaysian *Mikania cordata* Leaves. In INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. ISSN 1573-3149, 2019, vol. 25, no. 3, pp. 941-949., Registrované v: WOS
11. [1.1] SRECKOVIC, Nikola - STANKOVIC, Jelena S. Katanic - MATIC, Sanja - MIHAILOVIC, Nevena R. - IMBIMBO, Paola - MONTI, Daria Maria - MIHAILOVIC, Vladimir. *Lythrum salicaria* L. (Lythraceae) as a promising source of phenolic compounds in the modulation of oxidative stress: Comparison between aerial parts and root extracts. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na:
<https://doi.org/10.1016/j.indcrop.2020.112781>., Registrované v: WOS
12. [1.1] UDANGAWA, Ranodhi N. - MIKAEL, Paizy Esmat - MANCINELLI, Chiara - CHAPMAN, Caitlyn - WILLARD, Charles F. - SIMMONS, Trevor John - LINHARDT, Robert J. Novel Cellulose-Hyaluronate Hemostatic Nanocomposite Fibers with a Dramatic Reduction in Human Plasma Coagulation Time. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2019, vol. 11, no. 17, pp. 15447-15456., Registrované v: WOS
13. [1.1] UDOMBHORNPRABHA, Anan - KANCHANAKHAN, Naowarat - PHONGMANJIT, Pichai. A randomized, double-blinded, controlled trial of herbal medicine combination for leg symptoms due to chronic venous disease. In BIOMEDICAL RESEARCH AND THERAPY. ISSN 2198-4093, 2019, vol. 6, no. 2, pp. 3003-3015., Registrované v: WOS
14. [1.2] UPADHYAY, Ravi Kant. Nutritional, therapeutic, and pharmaceutical potential of plant gums: A review. In International Journal of Green Pharmacy. ISSN 09738258, 2017-01-01, 11, 1, pp. S30-S48., Registrované v: SCOPUS

ADCA1021 PAWLACZYK, Izabela - CAPEK, Peter - CZERCHAWSKI, Leszek - BIJAK, Joanna - LEWIK-TSIRIGOTIS, Marta - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An anticoagulant effect and chemical characterization of *Lythrum salicaria* L. glycoconjugates. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 86, p. 277-284. (2010: 3.463 - IF, Q1 - JCR, 1.370 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2011.04.048>

Ohlasy:

1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR,

- Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsypianthes chamaedrys* (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
2. [1.1] KUMAR, Pradeep - KUMAR, Vineet. Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from *Vitex negundo* Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS
3. [1.1] LAKHERA, Ajeet Kumar - KUMAR, Vineet. Monosaccharide composition of acidic gum exudates from Indian *Acacia tortilis* ssp *raddiana* (Savi) Brenan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 45-50., Registrované v: WOS
4. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reiew. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
5. [1.1] PIWOWARSKI, Jakub P. - GRANICA, Sebastian - KISS, Anna K. *Lythrum salicaria* L.-Underestimated medicinal plant from European traditional medicine. A review. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 170, no., pp. 226-250., Registrované v: WOS
6. [1.1] PIWOWARSKI, Jakub P. - KISS, Anna K. Contribution of C-glucosidic ellagitannins to *Lythrum salicaria* L. influence on pro-inflammatory functions of human neutrophils. In JOURNAL OF NATURAL MEDICINES. ISSN 1340-3443, 2015, vol. 69, no. 1, pp. 100-110., Registrované v: WOS
7. [1.1] POUR, Mandi Aalikhani - SARDARI, Soroush - ESLAMIFAR, Ali - REZVANI, Mohammad - AZHAR, Abid - NAZARI, Milad. Evaluating the anticoagulant effect of medicinal plants in vitro by cheminformatics methods. In JOURNAL OF HERBAL MEDICINE. ISSN 2210-8033, 2016, vol. 6, no. 3, pp. 128-136., Registrované v: WOS
8. [1.1] SOUZA, Racquel O. S. - ASSREUY, Ana M. S. - MADEIRA, Juliana C. - CHAGAS, Francisco D. S. - PARREIRAS, Luane A. - SANTOS, Gustavo R. C. - MOURAO, Paulo A. S. - PEREIRA, Maria G. Purified polysaccharides of *Geoffroea spinosa* barks have anticoagulant and antithrombotic activities devoid of hemorrhagic risks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 124, no., pp. 208-215., Registrované v: WOS
9. [1.1] SRECKOVIC, Nikola - STANKOVIC, Jelena S. Katanic - MATIC, Sanja - MIHAJLOVIC, Nevena R. - IMBIMBO, Paola - MONTI, Daria Maria - MIHAJLOVIC, Vladimir. *Lythrum salicaria* L. (Lythraceae) as a promising source of phenolic compounds in the modulation of oxidative stress: Comparison between aerial parts and root extracts. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112781>., Registrované v: WOS
10. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin -

GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS

ADCA1022 PAWLACZYK, Izabela - LEWIK-TSIRIGOTIS, Marta - CAPEK, Peter - MATULOVÁ, Mária - SASINKOVÁ, Vlasta - DABROWSKI, Pawel - WITKIEWICZ, Wojciech - GANCARZ, Roman. Effects of extraction condition on structural features and anticoagulant activity of *F. vesca* L. conjugates. In *Carbohydrate Polymers*, 2013, vol. 92, p. 741-750. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.10.011>

Ohlasy:

1. [1.1] ABD EL-HAMEIDR, Asmaa R. - HASABALLAH, A. A. - HELMY, Wafaa A. Antioxidant activity of moringa oleifera aqueous extract from leaves and seeds. In *BIOSCIENCE RESEARCH*. ISSN 1811-9506, 2018, vol. 15, no. 4, pp. 3373-3379., Registrované v: WOS
2. [1.1] BIJAK, Michal - SUT, Agnieszka - KOSIOREK, Anna - SALUK-BIJAK, Joanna - GOLANSKI, Jacek. Dual Anticoagulant/Antiplatelet Activity of Polyphenolic Grape Seeds Extract. In *NUTRIENTS*. ISSN 2072-6643, 2019, vol. 11, no. 1, pp., Registrované v: WOS
3. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsypianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
4. [1.1] DE MORAIS OLIVEIRA-TINTINO, Cicera Datiane - PESSOA, Renata Torres - MARTINS FERNANDES, Maria Neyze - ALCANTARA, Isabel Sousa - FERNANDES DA SILVA, Bruno Anderson - CORREIA DE OLIVEIRA, Maria Rayane - PEREIRA BEZERRA MARTINS, Anita Oliveira Brito - DA SILVA, Maria do Socorro - TINTINO, Saulo Relison - GALVAO RODRIGUES, Fabio Fernandes - MARTINS DA COSTA, Jose Galberto - DE LIMA, Sidney Goncalo - KERNTOPF, Marta Regina - DA SILVA, Teresinha Goncalves - ALENCAR DE MENEZES, Irwin Rose. Anti-inflammatory and anti-edematogenic action of the *Croton campestris* A.St.-Hil (Euphorbiaceae) essential oil and the compound beta-caryophyllene in in vivo models. In *PHYTOMEDICINE*. ISSN 0944-7113, 2018, vol. 41, no., pp. 82-95., Registrované v: WOS
5. [1.1] DIAS, Maria Ines - BARROS, Lillian - MORALES, Patricia - CAMARA, Montana - ALVES, Maria Jose - OLIVEIRA, M. Beatriz P. P. - SANTOS-BUELGA, Celestino - FERREIRA, Isabel C. F. R. Wild *Fragaria vesca* L. fruits: a rich source of bioactive phytochemicals. In *FOOD & FUNCTION*. ISSN 2042-6496, 2016, vol. 7, no. 11, pp. 4523-4532., Registrované v: WOS

6. [1.1] ELMOWAFY, Mohammed - SHALABY, Khaled - ALI, Hazim M. - ALRUWAILI, Nabil K. - SALAMA, Ayman - IBRAHIM, Mohamed F. - AKL, Mohamed A. - AHMED, Tarek A. Impact of nanostructured lipid carriers on dapsons delivery to the skin: in vitro and in vivo studies. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2019, vol. 572, no., pp., Registrované v: WOS
7. [1.1] KHOO, Li Teng - ABDULLAH, Janna Ong - ABAS, Faridah - TOHIT, Eusni Rahayu Mohd - HAMID, Muhajir. Bioassay-Guided Fractionation of Melastoma malabathricum Linn. Leaf Solid Phase Extraction Fraction and Its Anticoagulant Activity. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 3, pp. 3697-3715., Registrované v: WOS
8. [1.1] KRZYKOWSKI, Andrzej - DZIKI, Dariusz - RUDY, Stanislaw - GAWLIK-DZIKI, Urszula - JANISZEWSKA-TURAK, Emilia - BIERNACKA, Beata. Wild Strawberry *Fragaria vesca* L.: Kinetics of Fruit Drying and Quality Characteristics of the Dried Fruits. In PROCESSES, 2020, vol. 8, no. 10, pp. Dostupné na: <https://doi.org/10.3390/pr8101265>., Registrované v: WOS
9. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reievw. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
10. [1.1] MADEIRA, Juliana C. - DA SILVA, Gabriel V. L. - BATISTA, Jose Josenildo - SARAIVA, Gilberto Dantas - SANTOS, Gustavo R. C. - ASSREUY, Ana Maria S. - MOURAO, Paulo A. S. - PEREIRA, Maria G. An arabinogalactan-glycoconjugate from *Genipa americana* leaves present anticoagulant, antiplatelet and antithrombotic effects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 554-562., Registrované v: WOS
11. [1.1] POUR, Mandi Aalikhani - SARDARI, Soroush - ESLAMIFAR, Ali - REZVANI, Mohammad - AZHAR, Abid - NAZARI, Milad. Evaluating the anticoagulant effect of medicinal plants in vitro by cheminformatics methods. In JOURNAL OF HERBAL MEDICINE. ISSN 2210-8033, 2016, vol. 6, no. 3, pp. 128-136., Registrované v: WOS
12. [1.1] ROHLOFF, Jens. Analysis of Phenolic and Cyclic Compounds in Plants Using Derivatization Techniques in Combination with GC-MS-Based Metabolite Profiling. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 2, pp. 3431-3462., Registrované v: WOS
13. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS
14. [1.1] TSIRIGOTIS-MANIECKA, Marta - SZYK-WARSZYNSKA, Lilianna - MICHNA, Aneta - WARSZYNSKI, Piotr - WILK, Kazimiera A.

Colloidal characteristics and functionality of rationally designed esculin-loaded hydrogel microcapsules. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2018, vol. 530, no., pp. 444-458., Registrované v: WOS

15. [1.1] YANG, Xi - ZHANG, Jingtong - LEI, Zhongfang - YAN, Xuefei - HU, Xuansheng - CHENG, Delin - ZHANG, Zhenya. Adventitious root cultures from leaf explants of *Helicteres angustifolia* L. as a novel source for production of natural bioactive compounds. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2019, vol. 41, no. 10, pp., Registrované v: WOS

16. [1.1] YANG, X. - LEI, Z. - YU, Y. - XIAO, L. - CHENG, D. - ZHANG, Z. Phytochemical characteristics of callus suspension culture of *Helicteres angustifolia* L. and its in vitro antioxidant, antidiabetic and immunomodulatory activities. In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2019, vol. 121, no., pp. 178-185., Registrované v: WOS

17. [1.2] KHOUYA, Tarik - RAMCHOUN, Mhamed - HMIDANI, Abdelbassat - AMRANI, Souliman - HARNAFI, Hicham - BENLYAS, Mohamed - ZEGZOUTI, Younes Filali - ALEM, Chakib. Anti-inflammatory, anticoagulant and antioxidant effects of aqueous extracts from Moroccan thyme varieties. In Asian Pacific Journal of Tropical Biomedicine. ISSN 22211691, 2015-01-01, 5, 8, pp. 636-644., Registrované v: SCOPUS

18. [1.2] SIRISIDTHI, Kanjana - KOSAI, Piya - JIRAUNGKOORSKUL, Kanitta - JIRAUNGKOORSKUL, Wannee. Antithrombotic activity of turmeric (*Curcuma longa*): A review. In Indian Journal of Agricultural Research. ISSN 03678245, 2016-01-01, 50, 2, pp. 101-106., Registrované v: SCOPUS

ADCA1023 PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - MATULOVÁ, Mária - CAPEK, Peter - GANCZARZ, Roman.

Polyphenolic-polysaccharide conjugates of *Sanguisorba officinalis* L. with anticoagulant activity mediated by a heparin cofactor II. In *International Journal of Biological Macromolecules*, 2016, vol. 93, p. 1019-1029. (2015: 3.138 - IF, Q1 - JCR, 0.808 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2016.09.082>

Ohlasy:

1. [1.1] Budantsev, A. L.; Belenovskaya, L. M.; Bityukova, N. V. Advances in the Chemical Composition and Biological Activity Research of *Sanguisorba officinalis* (Rosaceae). In: Rastitel'nye Resursy Volume: 55 Issue: 3 Pages: 293-316, Registrované v: WOS

2. [1.1] BUNSE, Marek - LORENZ, Peter - STINTZING, Florian C. - KAMMERER, Dietmar R. Characterization of Secondary Metabolites in Flowers of *Sanguisorba officinalis* L. by HPLC-DAD-MSn and GC/MS. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2020, vol. 17, no. 4, pp. Dostupné na: <https://doi.org/10.1002/cbdv.201900724>., Registrované v: WOS

3. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsipianthes chamaedrys* (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145,

no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

4. [1.1] DAI, Qiong - GENG, Huimin - YU, Qun - HAO, Jingcheng - CUI, Jiwei. Polyphenol-Based Particles for Theranostics. In THERANOSTICS. ISSN 1838-7640, 2019, vol. 9, no. 11, pp. 3170-3190., Registrované v: WOS

5. [1.1] LIGOR, Magdalena - RATIU, Ileana-Andreea - KIELBASA, Anna - AL-SUOD, Hossam - BUSZEWSKI, Boguslaw. Extraction approaches used for the determination of biologically active compounds (cyclitols, polyphenols and saponins) isolated from plant material. In ELECTROPHORESIS. ISSN 0173-0835, 2018, vol. 39, no. 15, pp. 1860-1874., Registrované v: WOS

6. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reievw. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

7. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from *Hovenia dulcis*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.211>., Registrované v: WOS

8. [1.1] PEREZ-ESCALANTE, Emmanuel - GUILLERMO GONZALEZ-OLIVARES, Luis - ELIZABETH CRUZ-GUERRERO, Alma - ANDRES GALAN-VIDAL, Carlos - ELENA PAEZ-HERNANDEZ, Ma - ARTURO ALVAREZ-ROMERO, Giaan. Size exclusion chromatography (SEC-HPLC) as an alternative to study thrombin inhibition. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2018, vol. 1074, no., pp. 34-38., Registrované v: WOS

9. [1.1] PEREZ-ESCALANTE, Emmanuel - ELIZABETH CRUZ-GUERRERO, Alma - ARTURO ALVAREZ-ROMERO, Giaan - HUMBERTO MENDOZA-HUIZAR, Luis - FRANCISCO FLORES-AGUILAR, Juan - GUILLERMO GONZALEZ-OLIVARES, Luis. Urea as the best fibrin solubilizer in the thrombin inhibition analysis: Theoretical and experimental modeling of fibrinogen denaturation. In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, 2020, vol. 748, no., pp. Dostupné na: <https://doi.org/10.1016/j.cplett.2020.137352>., Registrované v: WOS

10. [1.1] SU, Xiang Dong - ALI, Irshad - AROOJ, Madeeha - KOH, Young Sang - YANG, Seo Young - KIM, Young Ho. Chemical constituents from *Sanguisorba officinalis* L. and their inhibitory effects on LPS-stimulated pro-inflammatory cytokine production in bone marrow-derived dendritic cells. In ARCHIVES OF PHARMACAL RESEARCH. ISSN 0253-6269, 2018, vol. 41, no. 5, pp. 497-505., Registrované v: WOS

11. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM,

Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS

12. [1.1] WANG, Lu - LI, Xiaoyu - WANG, Binbin. The cytotoxicity activity of *Hohenbuehelia serotina* polyphenols on HeLa cells via induction of cell apoptosis and cell cycle arrest. In *FOOD AND CHEMICAL TOXICOLOGY*. ISSN 0278-6915, 2019, vol. 124, no., pp. 239-248., Registrované v: WOS

ADCA1024 PAWLIKOWSKA, Ewelina** - JAMES, Steve A. - BREIEROVÁ, Emília - ANTOLAK, Hubert - KREGIEL, Dorota. Biocontrol capability of local *Metschnikowia* sp. isolates. In *Antonie van Leeuwenhoek*, 2019, vol. 112, p. 1425-1445. (2018: 1.934 - IF, Q3 - JCR, 0.819 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0003-6072. Dostupné na: <https://doi.org/10.1007/s10482-019-01272-w>

Ohlasy:

1. [1.1] BECKER, Regina - ULRICH, Kristina - BEHRENDT, Undine - KUBE, Michael - ULRICH, Andreas. Analyzing Ash Leaf-Colonizing Fungal Communities for Their Biological Control of *Hymenoscyphus fraxineus*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.590944>., Registrované v: WOS

2. [1.1] FERNANDEZ-SAN MILLAN, A. - FARRAN, I - LARRAYA, L. - ANCIN, M. - ARREGUI, L. M. - VERAMENDI, J. Plant growth-promoting traits of yeasts isolated from Spanish vineyards: benefits for seedling development. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2020, vol. 237, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126480>., Registrované v: WOS

3. [1.1] MELVYDAS, Vytautas - SVEDIENE, Jurgita - SKRIDLAITE, Grazina - VAICIUNIENE, Jurate - GARJONYTE, Rasa. In vitro inhibition of *Saccharomyces cerevisiae* growth by *Metschnikowia* spp. triggered by fast removal of iron via two ways. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2020, vol. 51, no. 4, pp. 1953-1964. Dostupné na: <https://doi.org/10.1007/s42770-020-00357-3>., Registrované v: WOS

4. [1.1] NARDI, Tiziana. Microbial Resources as a Tool for Enhancing Sustainability in Winemaking. In *MICROORGANISMS*, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8040507>., Registrované v: WOS

5. [1.1] ROJAS-JIMENEZ, Keilor - GROSSART, Hans-Peter - CORDES, Erik - CORTES, Jorge. Fungal Communities in Sediments Along a Depth Gradient in the Eastern Tropical Pacific. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.575207>., Registrované v: WOS

6. [1.1] SIPICZKI, Matthias. *Metschnikowia pulcherrima* and Related *Pulcherrimin*-Producing Yeasts: Fuzzy Species Boundaries and Complex Antimicrobial Antagonism. In *MICROORGANISMS*, 2020, vol. 8, no. 7, pp.

Dostupné na: <https://doi.org/10.3390/microorganisms8071029>., Registrované v: WOS

ADCA1025 PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOGIKH, Dmitry - ARGENTOVA, Victoria** - KATRLÍK, Jaroslav**. Influence of media composition on recombinant monoclonal IgA1 glycosylation analysed by lectin-based protein microarray and MALDI-MS. In *Journal of Biotechnology*, 2020, vol. 314-315, p. 34-40. (2019: 3.503 - IF, Q2 - JCR, 0.992 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.03.009>

Ohlasy:

1. [1.1] MAZALOVSKA, Milena - KOUOKAM, J. Calvin. Plant-Derived Lectins as Potential Cancer Therapeutics and Diagnostic Tools. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/1631394>., Registrované v: WOS

ADCA1026 PECIAROVÁ, Alena - BIELY, Peter. β -Xylosidases and nonspecific wall-bound β -glucosidase of the yeast *Cryptococcus albidus*. In *Biochimica et Biophysica Acta*, 1982, vol. 716, p. 391-399. Dostupné na: [https://doi.org/10.1016/0304-4165\(82\)90032-0](https://doi.org/10.1016/0304-4165(82)90032-0)

Ohlasy:

1. [1.1] MHETRAS, Nutan - LIDDELL, Susan - GOKHALE, Digambar. Purification and characterization of an extracellular beta-xylosidase from *Pseudozyma hubeiensis* NCIM 3574 (PhXyl), an unexplored yeast. In *AMB EXPRESS*. ISSN 2191-0855, 2016, vol. 6, no., pp., Registrované v: WOS
2. [1.1] MUKHERJEE, Soumya - KHOWALA, Suman. Unraveling the secretome of *Termitomyces clypeatus* grown on agroresidues as a potential source for bioethanol production. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2016, vol. 51, no. 11, pp. 1793-1807., Registrované v: WOS

ADCA1027 PEDERSEN, H.L. - FANGEL, J.U. - MCCLEARY, B. - RUZANSKI, C. - GRO RYDAHI, M. - RALET, M.C. - FARKAŠ, Vladimír - VON SCHANTZ, L. - MARCOS, S.E. - ANDERSEN, M.C.F. - FIELD, R. - OHLIN, M. - KNOX, J.P. - CLAUSEN, M.H. - WILLATS, W.G.T. Versatile high-resolution oligosaccharide microarrays for plant glycobiology and cell wall research. In *The Journal of Biological Chemistry*, 2012, vol.287, p.39429-39438. (2011: 4.773 - IF, Q1 - JCR, 3.544 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M112.396598>

Ohlasy:

1. [1.1] AHL, Louise Isager - MRAVEC, Jozef - JORGENSEN, Bodil - RUDALL, Paula J. - RONSTED, Nina - GRACE, Olwen M. Dynamics of intracellular mannan and cell wall folding in the drought responses of succulent Aloe species. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2019, vol. 42, no. 8, pp. 2458-2471., Registrované v: WOS
2. [1.1] BARTETZKO, Max P. - SCHUHMACHER, Frank - HAHM, Heung Sik - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated Glycan Assembly of Oligosaccharides Related to Arabinogalactan Proteins. In *ORGANIC LETTERS*. ISSN 1523-7060, 2015, vol. 17, no. 17, pp. 4344-4347.,

Registrované v: WOS

3. [1.1] BELLANDE, Kevin - BONO, Jean-Jacques - SAVELLI, Bruno - JAMET, Elisabeth - CANUT, Herve. Plant Lectins and Lectin Receptor-Like Kinases: How Do They Sense the Outside? In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 6, pp.,

Registrované v: WOS

4. [1.1] BETEKHTIN, Alexander - ROJEK, Magdalena - MILEWSKA-HENDEL, Anna - GAWECKI, Robert - KAR CZ, Jagna - KURCZYNSKA, Ewa - HASTEROK, Robert. Spatial Distribution of Selected Chemical Cell Wall Components in the Embryogenic Callus of *Brachypodium distachyon*. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp.,

Registrované v: WOS

5. [1.1] BETEKHTIN, Alexander - ROJEK, Magdalena - NOWAK, Katarzyna - PINSKI, Artur - MILEWSKA-HENDEL, Anna - KURCZYNSKA, Ewa - DOONAN, John H. - HASTEROK, Robert. Cell Wall Epitopes and Endoploidy as Reporters of Embryogenic Potential in *Brachypodium distachyon* Callus Culture. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS

6. [1.1] BETEKHTIN, Alexander - MILEWSKA-HENDEL, Anna - LUSINSKA, Joanna - CHAJEC, Lukasz - KURCZYNSKA, Ewa - HASTEROK, Robert. Organ and Tissue-Specific Localisation of Selected Cell Wall Epitopes in the Zygotic Embryo of *Brachypodium distachyon*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS

7. [1.1] BLENNOW, Andreas - SKRYHAN, Katsiaryna - TANACKOVIC, Vanja - KRUNIC, Susanne L. - SHAIK, Shahnoor S. - ANDERSEN, Mette S. - KIRK, Hanne-Grethe - NIELSEN, Kare L. Non-GMO potato lines, synthesizing increased amylose and resistant starch, are mainly deficient in isoamylase debranching enzyme. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2020, vol. 18, no. 10, pp. 2096-2108. Dostupné na: <https://doi.org/10.1111/pbi.13367>., Registrované v: WOS

8. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS

9. [1.1] DEHORS, Jeremy - MARECK, Alain - KIEFER-MEYER, Marie-Christine - MENU-BOUAOUICHE, Laurence - LEHNER, Arnaud - MOLLET, Jean-Claude. Evolution of Cell Wall Polymers in Tip-Growing Land Plant Gametophytes: Composition, Distribution, Functional Aspects and Their Remodeling. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS

10. [1.1] DENIAUD-BOUET, Estelle - HARDOUIN, Kevin - POTIN, Philippe - KLOAREG, Bernard - HERVE, Cecile. A review about brown algal cell walls and fucose-containing sulfated polysaccharides: Cell wall context, biomedical properties and key research challenges. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 395-408., Registrované v: WOS

11. [1.1] DJAJADI, Demi T. - HANSEN, Aleksander R. - JENSEN,

- Anders - THYGESEN, Lisbeth G. - PINELO, Manuel - MEYER, Anne S. - JORGENSEN, Henning. Surface properties correlate to the digestibility of hydrothermally pretreated lignocellulosic Poaceae biomass feedstocks. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
12. [1.1] DRAKAKAKI, Georgia. Polysaccharide deposition during cytokinesis: Challenges and future perspectives. In PLANT SCIENCE. ISSN 0168-9452, 2015, vol. 236, no., pp. 177-184., Registrované v: WOS
13. [1.1] FRANCIN-ALLAMI, Mathilde - ALVARADO, Camille - DANIEL, Sylviane - GEAIRON, Audrey - SAULNIER, Luc - GUILLON, Fabienne. Spatial and temporal distribution of cell wall polysaccharides during grain development of *Brachypodium distachyon*. In PLANT SCIENCE. ISSN 0168-9452, 2019, vol. 280, no., pp. 367-382., Registrované v: WOS
14. [1.1] FRANCOZ, Edith - RANOCHA, Philippe - LE RU, Aurelie - MARTINEZ, Yves - FOURQUAUX, Isabelle - JAUNEAU, Alain - DUNAND, Christophe - BURLAT, Vincent. Pectin Demethylesterification Generates Platforms that Anchor Peroxidases to Remodel Plant Cell Wall Domains. In DEVELOPMENTAL CELL. ISSN 1534-5807, 2019, vol. 48, no. 2, pp. 261-+., Registrované v: WOS
15. [1.1] GAVRIN, Aleksandr - REY, Thomas - TORODE, Thomas A. - TOULOTTE, Justine - CHATTERJEE, Abhishek - KAPLAN, Jonathan Louis - EVANGELISTI, Edouard - TAKAGI, Hiroki - CHAROENSAWAN, Varodom - RENGEL, David - JOURNET, Etienne-Pascal - DEBELLE, Frederic - DE CARVALHO-NIEBEL, Fernanda - TERAUCHI, Ryohei - BRAYBROOK, Siobhan - SCHORNACK, Sebastian. Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen. In CURRENT BIOLOGY. ISSN 0960-9822, 2020, vol. 30, no. 21, pp. 4165-+. Dostupné na: <https://doi.org/10.1016/j.cub.2020.08.011>., Registrované v: WOS
16. [1.1] GAWECKI, Robert - SALA, Katarzyna - KURCZYNSKA, Ewa U. - SWIATEK, Piotr - PLACHNO, Bartosz J. Immunodetection of some pectic, arabinogalactan proteins and hemicellulose epitopes in the micropylar transmitting tissue of apomictic dandelions (*Taraxacum*, Asteraceae, Lactuceae). In PROTOPLASMA. ISSN 0033-183X, 2017, vol. 254, no. 2, pp. 657-668., Registrované v: WOS
17. [1.1] GLADALA-KOSTARZ, Agnieszka - DOONAN, John H. - BOSCH, Maurice. Mechanical stimulation in *Brachypodium distachyon*: Implications for fitness, productivity, and cell wall properties. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2020, vol. 43, no. 5, pp. 1314-1330. Dostupné na: <https://doi.org/10.1111/pce.13724>., Registrované v: WOS
18. [1.1] GRUNDY, Myriam M-L - EDWARDS, Cathrina H. - MACKIE, Alan R. - GIDLEY, Michael J. - BUTTERWORTH, Peter J. - ELLIS, Peter R. Re-evaluation of the mechanisms of dietary fibre and implications for macronutrient bioaccessibility, digestion and postprandial metabolism. In BRITISH JOURNAL OF NUTRITION. ISSN 0007-1145, 2016, vol. 116, no. 5, pp. 816-833., Registrované v: WOS
19. [1.1] HENRY, Jason S. - LOPEZ, Renee A. - RENZAGLIA, Karen S. Differential localization of cell wall polymers across generations in the placenta of *Marchantia polymorpha*. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2020, vol. 133, no. 6, pp. 911-924. Dostupné na: <https://doi.org/10.1007/s10265-020-01232-w>., Registrované v: WOS

20. [1.1] HIRANO, Seiya - YAMAGISHI, Yusuke - NAKABA, Satoshi - KAJITA, Shinya - FUNADA, Ryo - HORIKAWA, Yoshiki. Artificially lignified cell wall catalyzed by peroxidase selectively localized on a network of microfibrils from cultured cells. In *PLANTA*. ISSN 0032-0935, 2020, vol. 251, no. 6, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03396-0>., Registrované v: WOS
21. [1.1] HUANG, Gangliang - TANG, Qilin - LI, Ping - LI, Min - ZHANG, Xueqin - LIU, Zhangmei - LUO, Deqi - MEI, Xinya. Preparation of Saccharide Microarrays. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2015, vol. 12, no. 2, pp. 136-139., Registrované v: WOS
22. [1.1] IBRAGIMOVA, Nadezda - MOKSHINA, Natalia - AGEEVA, Marina - GURJANOV, Oleg - MIKSHINA, Polina. Rearrangement of the Cellulose-Enriched Cell Wall in Flax Phloem Fibers over the Course of the Gravitropic Reaction. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 15, pp. Dostupné na: <https://doi.org/10.3390/ijms21155322>., Registrované v: WOS
23. [1.1] JEMMAT, Achraf M. - RANOCHA, Philippe - LE RU, Aurelie - NEEL, Maxime - JAUNEAU, Alain - RAGGI, Sara - FERRARI, Simone - BURLAT, Vincent - DUNAND, Christophe. Coordination of five class III peroxidase-encoding genes for early germination events of *Arabidopsis thaliana*. In *PLANT SCIENCE*. ISSN 0168-9452, 2020, vol. 298, no., pp. Dostupné na: <https://doi.org/10.1016/j.plantsci.2020.110565>., Registrované v: WOS
24. [1.1] KOZLOVA, Liudmila V. - NAZIPOVA, Alsu R. - GORSHKOV, Oleg V. - PETROVA, Anna A. - GORSHKOVA, Tatyana A. Elongating maize root: zone-specific combinations of polysaccharides from type I and type II primary cell walls. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-67782-0>., Registrované v: WOS
25. [1.1] LIU, Yan - PALMA, Angelina S. - TEN FEIZI - CHAI, Wengang. Insights Into Glucan Polysaccharide Recognition Using Glucopolysaccharide Microarrays With Oxime-Linked Neoglycolipid Probes. In *CHEMICAL GLYCOBIOLOGY, PT B: MONITORING GLYCANS AND THEIR INTERACTIONS*. ISSN 0076-6879, 2018, vol. 598, no., pp. 139-167., Registrované v: WOS
26. [1.1] LOPEZ, Renee A. - MANSOURI, Katayoun - HENRY, Jason S. - FLOWERS, Nicholas D. - VAUGHN, Kevin C. - RENZAGLIA, Karen Sue. Immunogold Localization of Molecular Constituents Associated with Basal Bodies, Flagella, and Extracellular Matrices in Male Gametes of Land Plants. In *BIO-PROTOCOL*, 2017, vol. 7, no. 21, pp., Registrované v: WOS
27. [1.1] LOPEZ, Renee A. - RENZAGLIA, Karen S. The Ceratopteris (fern) developing motile gamete walls contain diverse polysaccharides, but not pectin. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 2, pp. 393-404., Registrované v: WOS
28. [1.1] MAROLI, Amith S. - GAINES, Todd A. - FOLEY, Michael E. - DUKE, Stephen O. - DOGRAMACI, Munevver - ANDERSON, James V. - HORVATH, David P. - CHAO, Wun S. - THARAYIL, Nishanth. Omics in Weed Science: A Perspective from Genomics, Transcriptomics, and Metabolomics Approaches. In *WEED SCIENCE*. ISSN 0043-1745, 2018, vol. 66, no. 6, pp. 681-695., Registrované v: WOS
29. [1.1] MEIDANI, Christianna - NTALLI, Nikoletta G. -

- GIANNOUTSOU, Eleni - ADAMAKIS, Ioannis-Dimosthenis S. Cell Wall Modifications in Giant Cells Induced by the Plant Parasitic Nematode *Meloidogyne incognita* in Wild-Type (Col-0) and the *fra2* *Arabidopsis thaliana* Katanin Mutant. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 21, pp., Registrované v: WOS
30. [1.1] MEI, Xuanwei - CHANG, Yaoguang - SHEN, Jingjing - ZHANG, Yuying - XUE, Changhu. Expression and characterization of a novel alginate-binding protein: A promising tool for investigating alginate. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116645>., Registrované v: WOS
31. [1.1] MENDE, Marco - BORDONI, Vittorio - TSOUKA, Alexandra - LOEFFLER, Felix F. - DELBIANCO, Martina - SEEBERGER, Peter H. Multivalent glycan arrays. In *FARADAY DISCUSSIONS*. ISSN 1359-6640, 2019, vol. 219, no., pp. 9-32., Registrované v: WOS
32. [1.1] MOUSSU, Steven - AUGUSTIN, Sebastian - ROMAN, Andra-Octavia - BROYART, Caroline - SANTIAGO, Julia. Crystal structures of two tandem malectin-like receptor kinases involved in plant reproduction. In *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*. ISSN 2059-7983, 2018, vol. 74, no., pp. 671-680., Registrované v: WOS
33. [1.1] MYSTKOWSKA, Agata Anna - ROBB, Craig - VIDAL-MELGOSA, Silvia - VANNI, Chiara - FERNANDEZ-GUERRA, Antonio - HOEHNE, Matthias - HEHEMANN, Jan-Hendrik. Molecular recognition of the beta-glucans laminarin and pustulan by a SusD-like glycan-binding protein of a marine Bacteroidetes. In *FEBS JOURNAL*. ISSN 1742-464X, 2018, vol. 285, no. 23, pp. 4465-4481., Registrované v: WOS
34. [1.1] NEUMANN, Ulla - HAY, Angela. Seed coat development in explosively dispersed seeds of *Cardamine hirsuta*. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2020, vol. 126, no. 1, pp. 39-59. Dostupné na: <https://doi.org/10.1093/aob/mcz190>., Registrované v: WOS
35. [1.1] PALMA, Angelina S. - LIU, Yan - ZHANG, Hongtao - ZHANG, Yibing - MCCLEARY, Barry V. - YU, Guangli - HUANG, Qilin - GUIDOLIN, Leticia S. - CIOCCHINI, Andres E. - TOROSANTUCCI, Antonella - WANG, Denong - CARVALHO, Ana Luisa - FONTES, Carlos M. G. A. - MULLOY, Barbara - CHILDS, Robert A. - FEIZI, Ten - CHAI, Wengang. Unravelling Glucan Recognition Systems by Glycome Microarrays Using the Designer Approach and Mass Spectrometry. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2015, vol. 14, no. 4, pp. 974-988., Registrované v: WOS
36. [1.1] PANDEIRADA, Carolina O. - MARICATO, Elia - FERREIRA, Sonia S. - CORREIA, Viviana G. - PINHEIRO, Benedita A. - EVTUGUIN, Dmitry V. - PALMA, Angelina S. - CORREIA, Alexandra - VILANOVA, Manuel - COIMBRA, Manuel A. - NUNES, Claudia. Structural analysis and potential immunostimulatory activity of *Nannochloropsis oculata* polysaccharides. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 222, no., pp., Registrované v: WOS
37. [1.1] PEDERSEN, Ninfa Rangel - RAVN, Jonas Laukonnen - PETTERSSON, Dan. A multienzyme NSP product solubilises and degrades NSP structures in canola and mediates protein solubilisation and degradation in vitro. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2017,

vol. 234, no., pp. 244-252., Registrované v: WOS

38. [1.1] PERZON, Alixander - KRACUN, Stjepan Kresimir - JORGENSEN, Bodil - ULVSKOV, Peter. Array-based microfibril surface assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 15, pp. 8635-8651. Dostupné na: <https://doi.org/10.1007/s10570-020-03398-x>, Registrované v: WOS

39. [1.1] PFRENGLE, Fabian. Automated Glycan Assembly of Plant Cell Wall Oligosaccharides. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 503-512. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_28, Registrované v: WOS

40. [1.1] PFRENGLE, Fabian. Synthetic plant glycans. In CURRENT OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2017, vol. 40, no., pp. 145-151., Registrované v: WOS

41. [1.1] PLANCOT, Barbara - GUGI, Bruno - MOLLET, Jean-Claude - LOUTELIER-BOURHIS, Corinne - GOVIND, Sharathchandra Ramasandra - LEROUGE, Patrice - FOLLET-GUEYE, Marie-Laure - VICRE, Maite - ALFONSO, Carlos - NGUEMA-ONA, Eric - BARDOR, Muriel - DRIOUICH, Azeddine. Desiccation tolerance in plants: Structural characterization of the cell wall hemicellulosic polysaccharides in three Selaginella species. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 208, no., pp. 180-190., Registrované v: WOS

42. [1.1] POPIELARSKA-KONIECZNA, Marzena - SALA, Katarzyna - ABDULLAH, Mohib - TULEJA, Monika - KURCZYNSKA, Ewa. Extracellular matrix and wall composition are diverse in the organogenic and non-organogenic calli of Actinidia arguta. In PLANT CELL REPORTS. ISSN 0721-7714, 2020, vol. 39, no. 6, pp. 779-798. Dostupné na: <https://doi.org/10.1007/s00299-020-02530-2>, Registrované v: WOS

43. [1.1] RAGUIN, Adelaide - EBENHOEH, Oliver. Design starch: stochastic modeling of starch granule biogenesis. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2017, vol. 45, no., pp. 885-893., Registrované v: WOS

44. [1.1] RASOOL, Brwa - MCGOWAN, Jack - PASTOK, Daria - MARCUS, Sue E. - MORRIS, Jenny A. - VERRALL, Susan R. - HEDLEY, Peter E. - HANCOCK, Robert D. - FOYER, Christine H. Redox Control of Aphid Resistance through Altered Cell Wall Composition and Nutritional Quality. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2017, vol. 175, no. 1, pp. 259-271., Registrované v: WOS

45. [1.1] RENZAGLIA, Karen S. - LOPEZ, Renee A. - WELSH, Ryan D. - OWEN, Heather A. - MERCED, Amelia. Callose in sporogenesis: novel composition of the inner spore wall in hornworts. In PLANT SYSTEMATICS AND EVOLUTION. ISSN 0378-2697, 2020, vol. 306, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00606-020-01631-5>, Registrované v: WOS

46. [1.1] REN, Guangxi - ROSQUETE, Michel Ruiz - PERALTA, Angelo G. - PATTATHIL, Sivakumar - HAHN, Michael G. - WILKOP, Thomas - DRAKAKAKI, Georgia. Isolation and Glycomic Analysis of Trans-Golgi Network Vesicles in Plants. In PLANT ENDOSOMES, 2 EDITION. ISSN 1064-3745, 2020, vol. 2177, no., pp. 153-167. Dostupné na: https://doi.org/10.1007/978-1-0716-0767-1_13, Registrované v: WOS

47. [1.1] ROPITAUX, Marc - BERNARD, Sophie - SCHAPMAN,

- Damien - FOLLET-GUEYE, Marie-Laure - VICRE, Maite - BOULOGNE, Isabelle - DRIOUICH, Azeddine. Root Border Cells and Mucilage Secretions of Soybean, *Glycine Max* (Merr) L.: Characterization and Role in Interactions with the Oomycete *Phytophthora Parasitica*. In *CELLS*, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102215>., Registrované v: WOS
48. [1.1] RUPRECHT, Colin - GEISSNER, Andreas - SEEBERGER, Peter H. - PFRENGLE, Fabian. Practical considerations for printing high-density glycan microarrays to study weak carbohydrate-protein interactions. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 481, no., pp. 31-35., Registrované v: WOS
49. [1.1] SATO-IZAWA, Kanna - ITO, Miyuki - NUOENDAGULA - KAJITA, Shinya - NAKAMURA, Shin-ichi - MATSUMOTO, Takashi - EZURA, Hiroshi. Distinct deposition of ester-linked ferulic and p-coumaric acids to the cell wall of developing sorghum internodes. In *PLANT BIOTECHNOLOGY*. ISSN 1342-4580, 2020, vol. 37, no. 1, pp. 15-23. Dostupné na: <https://doi.org/10.5511/plantbiotechnology.19.1125a>., Registrované v: WOS
50. [1.1] SECHET, Julien - FREY, Anne - EFFROY-CUZZI, Delphine - BERGER, Adeline - PERREAU, Francois - CUEFF, Gwendal - CHARIF, Delphine - RAJJOU, Loic - MOUILLE, Gregory - NORTH, Helen M. - MARION-POLL, Annie. Xyloglucan Metabolism Differentially Impacts the Cell Wall Characteristics of the Endosperm and Embryo during Arabidopsis Seed Germination. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2016, vol. 170, no. 3, pp. 1367-1380., Registrované v: WOS
51. [1.1] SHTEIN, Ilana - KOYFMAN, Alex - SCHWARTZ, Amnon - POPPER, Zoe A. - BAR-ON, Benny. Solanales Stem Biomechanical Properties Are Primarily Determined by Morphology Rather Than Internal Structural Anatomy and Cell Wall Composition. In *PLANTS-BASEL*, 2020, vol. 9, no. 6, pp. Dostupné na: <https://doi.org/10.3390/plants9060678>., Registrované v: WOS
52. [1.1] SCHMIDT, Deborah - SCHUHMACHER, Frank - GEISSNER, Andreas - SEEBERGER, Peter H. - PFRENGLE, Fabian. Automated Synthesis of Arabinoxylan-Oligosaccharides Enables Characterization of Antibodies that Recognize Plant Cell Wall Glycans. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2015, vol. 21, no. 15, pp. 5709-5713., Registrované v: WOS
53. [1.1] SCHUMANN, Christine - WINKLER, Andreas - BRUEGGENWIRTH, Martin - KOEPCKE, Kevin - KNOCHE, Moritz. Crack initiation and propagation in sweet cherry skin: A simple chain reaction causes the crack to 'run'. In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 7, pp., Registrované v: WOS
54. [1.1] STAACK, Larissa - DELLA PIA, Eduardo Antonio - JORGENSEN, Bodil - PETTERSSON, Dan - PEDERSEN, Ninfa Rangel. Cassava cell wall characterization and degradation by a multicomponent NSP-targeting enzyme (NSPase). In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
55. [1.1] TUCKER, Matthew R. - LOU, Haoyu - AUBERT, Matthew K. - WILKINSON, Laura G. - LITTLE, Alan - HOUSTON, Kelly - PINTO, Sara C. - SHIRLEY, Neil J. Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. In *PLANTS-BASEL*. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS
56. [1.1] VAN MUNSTER, Jolanda M. - THOMAS, Baptiste - RIESE,

- Michel - DAVIS, Adrienne L. - GRAY, Christopher J. - ARCHER, David B. - FLITSCH, Sabine L. Application of carbohydrate arrays coupled with mass spectrometry to detect activity of plant-polysaccharide degradative enzymes from the fungus *Aspergillus niger*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
57. [1.1] VOINICIUC, Catalin - PAULY, Markus - USADEL, Bjoern. Monitoring Polysaccharide Dynamics in the Plant Cell Wall. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 4, pp. 2590-2600., Registrované v: WOS
58. [1.1] WILKOP, Thomas - PATTATHIL, Sivakumar - REN, Guangxi - DAVIS, Destiny J. - BAO, Wenlong - DUAN, Dechao - PERALTA, Angelo G. - DOMOZYCH, David S. - HAHN, Michael G. - DRAKAKAKI, Georgia. A Hybrid Approach Enabling Large-Scale Glycomic Analysis of Post-Golgi Vesicles Reveals a Transport Route for Polysaccharides. In PLANT CELL. ISSN 1040-4651, 2019, vol. 31, no. 3, pp. 627-644., Registrované v: WOS
59. [1.1] YANG, Weibing - SCHUSTER, Christoph - BEAHAN, Cherie T. - CHAROENSAWAN, Varodom - PEAUCELLE, Alexis - BACIC, Antony - DOBLIN, Monika S. - WIGHTMAN, Raymond - MEYEROWITZ, Elliot M. Regulation of Meristem Morphogenesis by Cell Wall Synthases in Arabidopsis. In CURRENT BIOLOGY. ISSN 0960-9822, 2016, vol. 26, no. 11, pp. 1404-1415., Registrované v: WOS
60. [1.1] ZAKHAROVA, Alexandra N. - AWAN, Shahid I. - NAMI, Faranak - GOTFREDSEN, Charlotte H. - MADSEN, Robert - CLAUSEN, Mads H. Synthesis of Two Tetrasaccharide Pentenyl Glycosides Related to the Pectic Rhamnogalacturonan I Polysaccharide. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
61. [1.1] ZHANG, Heng - LOPEZ, Pau Cabaneros - HOLLAND, Claire - LUNDE, Alan - AMBYE-JENSEN, Morten - FELBY, Claus - THOMSEN, Sune Tjalfe. The multi-feedstock biorefinery Assessing the compatibility of alternative feedstocks in a 2G wheat straw biorefinery process. In GLOBAL CHANGE BIOLOGY BIOENERGY. ISSN 1757-1693, 2018, vol. 10, no. 12, pp. 946-959., Registrované v: WOS
62. [1.1] ZHANG, Hongtao - PALMA, Angelina S. - ZHANG, Yibing - CHILDS, Robert A. - LIU, Yan - MITCHELL, Daniel A. - GUIDOLIN, Leticia S. - WEIGEL, Wilfried - MULLOY, Barbara - CIOCCHINI, Andres E. - FEIZI, Ten - CHAI, Wengang. Generation and characterization of beta 1,2-gluco-oligosaccharide probes from *Brucella abortus* cyclic beta-glucan and their recognition by C-type lectins of the immune system. In GLYCOBIOLOGY. ISSN 0959-6658, 2016, vol. 26, no. 10, pp. 1086-1096., Registrované v: WOS
63. [1.1] ZHAO, Feng - CHEN, Wenqian - SECHET, Julien - MARTIN, Marjolaine - BOVIO, Simone - LIONNET, Claire - LONG, Yuchen - BATTU, Virginie - MOUILLE, Gregory - MONEGER, Francoise - TRAAS, Jan. Xyloglucans and Microtubules Synergistically Maintain Meristem Geometry and Phyllotaxis. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2019, vol. 181, no. 3, pp. 1191-1206., Registrované v: WOS
64. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - RICHARDSON, Elizabeth A. - YE, Zheng-Hua. A Group of O-Acetyltransferases Catalyze Xyloglucan Backbone Acetylation and Can Alter Xyloglucan Xylosylation Pattern and Plant Growth When Expressed in Arabidopsis. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2020,

vol. 61, no. 6, pp. 1064-1079. Dostupné na: <https://doi.org/10.1093/pcp/pcaa031>.,
Registrované v: WOS

65. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174.,
Registrované v: WOS

66. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 159-176.,
Registrované v: SCOPUS

67. [1.2] WU, Chung Yi - CHANG, Shih Huang. Discoveries and applications of glycan arrays. In *Glycochemical Synthesis: Strategies and Applications*, 2015-01-01, pp. 407-424., Registrované v: SCOPUS

ADCA1028 PERI, F. - MARINZI, C. - BARÁTH, Marek - GRANUCCI, F. - URBANO, M. - NICOTRA, F. Synthesis and biological evaluation of novel lipid A antagonists. In *Bioorganic & Medicinal Chemistry*, 2006, vol. 14, p. 190-199. (2005: 2.286 - IF, Q2 - JCR, 0.894 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0968-0896. Dostupné na: <https://doi.org/10.1016/j.bmc.2005.08.047>

Ohlasy:

1. [1.1] BAI, Shao-Tao - XIONG, De-Cai - NIU, Youhong - WU, Yan-Fen - YE, Xin-Shan. Synthesis of novel N-glycoside derivatives via CuSCN-catalyzed reactions and their SGLT2 inhibition activities. In *TETRAHEDRON*. ISSN 0040-4020, 2015, vol. 71, no. 30, pp. 4909-4919.,
Registrované v: WOS

2. [1.1] CHEN, N. - XIE, J. N-O linkage in carbohydrates and glycoconjugates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2016, vol. 14, no. 47, pp. 11028-11047., Registrované v: WOS

3. [1.1] PIFFERI, Carlo - DASKHAN, Gour Chand - FIORE, Michele - SHIAO, Tze Chieh - ROY, Rene - RENAUDET, Olivier. Aminooxylated Carbohydrates: Synthesis and Applications. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 9839-9873., Registrované v: WOS

4. [1.1] VILLADSEN, Klaus - MARTOS-MALDONADO, Manuel C. - JENSEN, Knud J. - THYGESEN, Mikkel B. Chemoselective Reactions for the Synthesis of Glycoconjugates from Unprotected Carbohydrates. In *CHEMBIOCHEM*. ISSN 1439-4227, 2017, vol. 18, no. 7, pp. 574-612.,
Registrované v: WOS

5. [1.1] WIPF, Peter - EYER, Benjamin R. - YAMAGUCHI, Yukihiro - ZHANG, Feng - NEAL, Matthew D. - SODHI, Chhinder P. - GOOD, Misty - BRANCA, Maria - PRINDLE, Thomas - LU, Peng - BRODSKY, Jeffrey L. - HACKAM, David J. Synthesis of anti-inflammatory alpha-and beta-linked acetamidopyranosides as inhibitors of toll-like receptor 4 (TLR4). In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2015, vol. 56, no. 23, pp. 3097-3100., Registrované v: WOS

6. [1.2] SUN, Shuang - LIU, Yanyan - CAO, Yafei - NIU, Youhong - LI, Qin - YE, Xin Shan. Synthesis of N(OMe)-linked TF antigen analogue. In

- ADCA1029 PERI, F. - JIMÉNEZ-BARBERO, J. - GARCIA-APARICIO, V. -
TVAROŠKA, Igor - NICOTRA, F. Synthesis and conformational analysis of novel
N(OCH₃)-linked disaccharide analogues. In *Chemistry - A European Journal*, 2004,
vol. 10, p. 1433-1444. Dostupné na: <https://doi.org/10.1002/chem.200305587>
Ohlasy:
1. [1.1] BADDELEY, Kate L. - COOK, Matthew J. A highly selective
Bi(OTf)₃ mediated fragmentation-contraction of delta-ortholactones. A facile
route to functionalized gamma-lactones. In *TETRAHEDRON*. ISSN 0040-4020,
2018, vol. 74, no. 38, pp. 5172-5182., Registrované v: WOS
 2. [1.1] BAI, Shao-Tao - XIONG, De-Cai - NIU, Youhong - WU,
Yan-Fen - YE, Xin-Shan. Synthesis of novel N-glycoside derivatives via
CuSCN-catalyzed reactions and their SGLT2 inhibition activities. In
TETRAHEDRON. ISSN 0040-4020, 2015, vol. 71, no. 30, pp. 4909-4919.,
Registrované v: WOS
 3. [1.1] HACKBUSCH, Sven - WATSON, Amelia - FRANZ, Andreas
H. Synthesis and conformational analysis of D-gluco-pyranosyl-(6,6
'-)-D-gluco-pyranuronate, a model compound for the inter-glycan 6,6 '-ester
linkage. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 458,
no., pp. 1-12., Registrované v: WOS
 4. [1.1] HUO, Chang-Xin - ZHENG, Xiu-Jing - XIAO, An - LIU,
Chang-Cheng - SUN, Shuang - LV, Zhuo - YE, Xin-Shan. Synthetic and
immunological studies of N-acyl modified S-linked STn derivatives as anticancer
vaccine candidates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN
1477-0520, 2015, vol. 13, no. 12, pp. 3677-3690., Registrované v: WOS
 5. [1.1] CHENG, Shuihong - WU, Peixing - HAN, Jing - WANG, Yiren
- CUI, Yuting - ZHANG, Zhenxing - YAMAGATA, Tatsuya - LI, Xuebing.
Synthesis and biological evaluation of neoglycosphingolipids. In *EUROPEAN
JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2017, vol. 134,
no., pp. 43-51., Registrované v: WOS
 6. [1.1] CHEN, N. - XIE, J. N-O linkage in carbohydrates and
glycoconjugates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN
1477-0520, 2016, vol. 14, no. 47, pp. 11028-11047., Registrované v: WOS
 7. [1.1] JIMENEZ-CASTELLS, Carmen - STANTON, Rhiannon -
YAN, Shi - KOSMA, Paul - WILSON, Iain B. H. Development of a
multifunctional aminoxy-based fluorescent linker for glycan immobilization and
analysis. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2016, vol. 26, no. 12, pp.
1297-1307., Registrované v: WOS
 8. [1.1] LANGENHAN, Joseph M. - MCLAUGHLIN, Ryan P. -
LOSKOT, Steven A. - ROZAL, Leonardo M. - CLAY, Mackenzie S. -
ALAIMO, Peter J. Using density functional theory to calculate the anomeric
effect in hydroxylamine and hydrazide derivatives of tetrahydropyran. In
JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2016, vol.
35, no. 2, pp. 106-117., Registrované v: WOS
 9. [1.1] MUNNEKE, Stefan - HILL, Jaime C. - TIMMER, Mattie S. M.
- STOCKER, Bridget L. Synthesis and Hydrolytic Stability of N- and
O-Methyloxyamine Linkers for the Synthesis of Glycoconjugates. In
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2017,

vol., no. 25, pp. 3722-3728., Registrované v: WOS

10. [1.1] MUNNEKE, Stefan - PREVOST, Julien R. C. - PAINTER, Gavin F. - STOCKER, Bridget L. - TIMMER, Mattie S. M. The Rapid and Facile Synthesis of Oxyamine Linkers for the Preparation of Hydrolytically Stable Glycoconjugates. In ORGANIC LETTERS. ISSN 1523-7060, 2015, vol. 17, no. 3, pp. 624-627., Registrované v: WOS

11. [1.1] PIFFERI, Carlo - DASKHAN, Gour Chand - FIORE, Michele - SHIAO, Tze Chieh - ROY, Rene - RENAUDET, Olivier. Aminooxylated Carbohydrates: Synthesis and Applications. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 9839-9873., Registrované v: WOS

12. [1.1] VILLADSEN, Klaus - MARTOS-MALDONADO, Manuel C. - JENSEN, Knud J. - THYGESEN, Mikkel B. Chemoselective Reactions for the Synthesis of Glycoconjugates from Unprotected Carbohydrates. In CHEMBIOCHEM. ISSN 1439-4227, 2017, vol. 18, no. 7, pp. 574-612., Registrované v: WOS

13. [1.2] SUN, Shuang - LIU, Yanyan - CAO, Yafei - NIU, Youhong - LI, Qin - YE, Xin Shan. Synthesis of N(OMe)-linked TF antigen analogue. In Journal of Chinese Pharmaceutical Sciences. ISSN 10031057, 2015-01-01, 24, 6, pp. 356-363., Registrované v: SCOPUS

ADCA1030 PERIASAMY, Agalya - SHADIAC, Nadim - AMALRAJ, Amritha - GARAJOVÁ, Soňa - NAGARAJAN, Yagnesh - WATERS, Shane - MERTENS, Haydyn D.T. - HRMOVÁ, Mária. Cell-free protein synthesis of membrane (1,3)-beta-D-glucan (curdlan) synthase: Co-translational insertion in liposomes and reconstitution in nanodiscs. In *Biochimica et Biophysica Acta : Biomembranes*, 2013, vol. 1828, p. 743-757. (2012: 3.389 - IF, Q2 - JCR, 1.860 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0005-2736. Dostupné na: <https://doi.org/10.1016/j.bbamem.2012.10.003>

Ohlasy:

1. [1.1] ADIR, Omer - SHARF-PAUKER, Noga - CHEN, Gal - KADURI, Maya - KRINSKY, Nitzan - SHAINSKY-ROITMAN, Janna - SHKLOVER, Jeny - SCHROEDER, Avi. Preparing Protein Producing Synthetic Cells using Cell Free Bacterial Extracts, Liposomes and Emulsion Transfer. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, 2020, vol., no. 158, pp. Dostupné na: <https://doi.org/10.3791/60829>., Registrované v: WOS

2. [1.1] ARENAS, Rodrigo Cuevas - KLINGLER, Johannes - VARGAS, Carolyn - KELLER, Sandro. Influence of lipid bilayer properties on nanodisc formation mediated by styrene/maleic acid copolymers. In NANOSCALE. ISSN 2040-3364, 2016, vol. 8, no. 32, pp. 15016-15026., Registrované v: WOS

3. [1.1] AYOUBI-JOSHAGHANI, Mohammad H. - DIANAT-MOGHADAM, Hassan - SEIDI, Khaled - JAHANBAN-ESFAHALAN, Ali - ZARE, Peyman - JAHANBAN-ESFAHLAN, Rana. Cell-free protein synthesis: The transition from batch reactions to minimal cells and microfluidic devices. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2020, vol. 117, no. 4, pp. 1204-1229. Dostupné na: <https://doi.org/10.1002/bit.27248>., Registrované v: WOS

4. [1.1] DANIELCZAK, B. - ARENAS, R. Cuevas - MARTEL, A. - PORCAR, L. - BREYTON, C. - EBEL, C. - KELLER, S. Fast collisional lipid

transfer among polymer-bounded nanodiscs. In EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS. ISSN 0175-7571, 2017, vol. 46, no., pp. S301-S301., Registrované v: WOS

5. [1.1] DENISOV, Ilia G. - SLIGAR, Stephen G. Nanodiscs for structural and functional studies of membrane proteins. In NATURE STRUCTURAL & MOLECULAR BIOLOGY. ISSN 1545-9993, 2016, vol. 23, no. 6, pp. 481-486., Registrované v: WOS

6. [1.1] DENISOV, Ilia G. - SLIGARI, Stephen G. Nanodiscs in Membrane Biochemistry and Biophysics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 6, pp. 4669-4713., Registrované v: WOS

7. [1.1] FRACASSO, Giorgio - KOERNER, Yvonne - GONZALES, David Thomas T. - TANG, T-Y Dora. In vitro gene expression and detergent-free reconstitution of active proteorhodopsin in lipid vesicles. In EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 1535-3702, 2019, vol. 244, no. 4, pp. 314-322., Registrované v: WOS

8. [1.1] HENRICH, Erik - HEIN, Christopher - DOETSCH, Volker - BERNHARD, Frank. Membrane protein production in Escherichia coli cell-free lysates. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 15, pp. 1713-1722., Registrované v: WOS

9. [1.1] HSIEH, Wen-Chuan - HSU, Chia-Chi - SHIU, Li-Yen - ZENG, Yu-Jing. Biocompatible testing and physical properties of curdlan-grafted poly(vinyl alcohol) scaffold for bone tissue engineering. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1341-1348., Registrované v: WOS

10. [1.1] INAGAKI, Sayaka - GHIRLANDO, Rodolfo. Nanodisc characterization by analytical ultracentrifugation. In NANOTECHNOLOGY REVIEWS. ISSN 2191-9089, 2017, vol. 6, no. 1, pp. 3-14., Registrované v: WOS

11. [1.1] JIN, Xing - HONG, Seok Hoon. Cell-free protein synthesis for producing 'difficult-to-express' proteins. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 138, no., pp. 156-164., Registrované v: WOS

12. [1.1] LACABANNE, Denis - FOGERON, Marie-Laure - WIEGAND, Thomas - CADALBERT, Riccardo - MEIER, Beat H. - BOCKMANN, Anja. Protein sample preparation for solid-state NMR investigations. In PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. ISSN 0079-6565, 2019, vol. 110, no., pp. 20-33., Registrované v: WOS

13. [1.1] LI, Yi - STERN, David - LOCK, Lye Lin - MILLS, Jason - OU, Shih-Hao - MORROW, Marina - XU, Xuankuo - GHOSE, Sanchayita - LI, Zheng Jian - CUI, Honggang. Emerging biomaterials for downstream manufacturing of therapeutic proteins. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2019, vol. 95, no., pp. 73-90., Registrované v: WOS

14. [1.1] LOUGHRAN, Sinead T. - WALLS, Dermot. Tagging Recombinant Proteins to Enhance Solubility and Aid Purification. In PROTEIN CHROMATOGRAPHY: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2017, vol. 1485, no., pp. 131-156., Registrované v: WOS

15. [1.1] LU, Mei - ZHAO, Xiaoyun - XING, Haonan - XUN, Zhe - YANG, Tianzhi - CAI, Cuifang - WANG, Dongkai - DING, Pingtian. Liposome-chaperoned cell-free synthesis for the design of proteoliposomes: Implications for therapeutic delivery. In ACTA BIOMATERIALIA. ISSN

- 1742-7061, 2018, vol. 76, no., pp. 1-20., Registrované v: WOS
16. [1.1] LU, Mei - ZHAO, Xiaoyun - XING, Haonan - LIU, Hui - LANG, Lang - YANG, Tianzhi - XUN, Zhe - WANG, Dongkai - DING, Pingtian. Cell-free synthesis of connexin 43-integrated exosome-mimetic nanoparticles for siRNA delivery. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2019, vol. 96, no., pp. 517-536., Registrované v: WOS
17. [1.1] MARTY, Michael T. Nanodiscs and mass spectrometry: Making membranes fly. In INTERNATIONAL JOURNAL OF MASS SPECTROMETRY. ISSN 1387-3806, 2020, vol. 458, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijms.2020.116436>., Registrované v: WOS
18. [1.1] MISHRA, Vibhor. Affinity Tags for Protein Purification. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2020, vol. 21, no. 8, pp. 821-830. Dostupné na: <https://doi.org/10.2174/1389203721666200606220109>., Registrované v: WOS
19. [1.1] PANDEY, Aditya - SHIN, Kyungsoo - PATTERSON, Robin E. - LIU, Xiang-Qin - RAINEY, Jan K. Current strategies for protein production and purification enabling membrane protein structural biology. In BIOCHEMISTRY AND CELL BIOLOGY. ISSN 0829-8211, 2016, vol. 94, no. 6, pp. 507-527., Registrované v: WOS
20. [1.1] POPOT, Jean-Luc. Alternatives to Detergents for Handling Membrane Proteins in Aqueous Solutions. In MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS. ISSN 1618-7210, 2018, vol., no., pp. 97-149., Registrované v: WOS
21. [1.1] POPOT, Jean-Luc. Amphipol-Assisted Folding of Membrane Proteins. In MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS. ISSN 1618-7210, 2018, vol., no., pp. 333-379., Registrované v: WOS
22. [1.1] POPOT, Jean-Luc. Formation and Properties of Membrane Protein/Amphipol Complexes. In MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS. ISSN 1618-7210, 2018, vol., no., pp. 237-332., Registrované v: WOS
23. [1.1] ROUCK, John E. - KRAPP, John E. - ROY, Jahnabi - HUFF, Hannah C. - DAS, Aditi. Recent advances in nanodisc technology for membrane protein studies (2012-2017). In FEBS LETTERS. ISSN 1873-3468, 2017, vol. 591, no. 14, pp. 2057-2088., Registrované v: WOS
24. [1.1] SCHMID, Jochen - SIEBER, Volker - REHM, Bernd. Bacterial exopolysaccharides: biosynthesis pathways and engineering strategies. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS
25. [1.1] SCHOBORG, Jennifer A. - HERSHEWE, Jasmine M. - STARK, Jessica C. - KIGHTLINGER, Weston - KATH, James E. - JAROENTOMECHAI, Thapakorn - NATARAJAN, Aravind - DELISA, Matthew P. - JEWETT, Michael C. A cell-free platform for rapid synthesis and testing of active oligosaccharyltransferases. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2018, vol. 115, no. 3, pp. 739-750., Registrované v: WOS
26. [1.1] SORANZO, Thomas - CORTES, Sandra - GILDE, Flora - KREIR, Mohamed - PICART, Catherine - LENORMAND, Jean-Luc. Functional characterization of p7 viroporin from hepatitis C virus produced in a cell-free expression system. In PROTEIN EXPRESSION AND PURIFICATION. ISSN

- 1046-5928, 2016, vol. 118, no., pp. 83-91., Registrované v: WOS
27. [1.1] TU, Xiongbing - WANG, Jie - HAO, Kun - WHITMAN, Douglas W. - FAN, Yaoli - CAO, Guangchun - ZHANG, Zehua. Transcriptomic and proteomic analysis of pre-diapause and non-diapause eggs of migratory locust, *Locusta migratoria* L. (Orthoptera: Acridoidea). In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
28. [1.1] WOJCIK, Magdalena - TELZEROW, Aline - QUAX, Wim J. - BOERSMA, Ykelien L. High-Throughput Screening in Protein Engineering: Recent Advances and Future Perspectives. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2015, vol. 16, no. 10, pp. 24918-24945., Registrované v: WOS
29. [1.1] YADAV, Dinesh K. - YADAV, Neelam - YADAV, Sarika - HAQUE, Shafiul - TUTEJA, Narendra. An insight into fusion technology aiding efficient recombinant protein production for functional proteomics. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2016, vol. 612, no., pp. 57-77., Registrované v: WOS
30. [1.1] ZOGHBI, Maria E. - ALTENBERG, Guillermo A. Membrane protein reconstitution in nanodiscs for luminescence spectroscopy studies. In NANOTECHNOLOGY REVIEWS. ISSN 2191-9089, 2017, vol. 6, no. 1, pp. 33-46., Registrované v: WOS
31. [1.2] LI, Yumei - LI, Qiang - LI, Yamei - GAO, Juan - FAN, Xiangyu. Draft genome sequence of *Paenibacillus polymyxa* KF-1, an excellent producer of microbicides. In Genome Announcements, 2016-01-01, 4, 4, pp., Registrované v: SCOPUS

ADCA1031 PETRÁKOVÁ, Eva - SCHRAML, J. NMR spectra (1H, 13C) of the methyl mono-, di-, and tri-O-acetyl- β -D-xylopyranosides, and additivity effects. In *Carbohydrate Research*, 1983, vol. 117, p. 285-290. ISSN 0008-6215.

Ohlasy:

1. [1.2] VITNIK, Željko J. - FABIAN, Walter M.F. Ring- and side-group conformational properties of di-O-acylated xylopyranosides: A computational study. In Computational and Theoretical Chemistry. ISSN 2210271X, 2015-01-01, 1051, pp. 104-109., Registrované v: SCOPUS

ADCA1032 PETRÁKOVÁ, Eva - SCHRAML, J. NMR spectra (1H, 13C) of the methyl mono-, di-, and tri-O-acetyl- β -D-xylopyranosides, and additivity effects. In *Carbohydrate Research*, 1983, vol. 117, p. 285-290. ISSN 0008-6215.

Ohlasy:

1. [1.1] DOYLE, Lisa M. - MEANY, Fiach B. - MURPHY, Paul V. Lewis acid promoted anomerisation of alkyl O- and S-xylo-, arabino- and fucopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 471, no., pp. 85-94., Registrované v: WOS

ADCA1033 PETRÁKOVÁ, Eva - KRUPOVÁ, I. - SCHRAML, J. - HIRSCH, Ján. Synthesis and 13C NMR spectra of disaccharides related to glucoxylans and xyloglucans. In *Collection of Czechoslovak Chemical Communications*, 1991, vol. 56, p. 1300-1308. ISSN 0010-0765.

Ohlasy:

1. [1.1] LITTLE, Alan - LAHNSTEIN, Jelle - JEFFERY, David W. - KHOR, Shi F. - SCHWERDT, Julian G. - SHIRLEY, Neil J. - HOOL, Michelle -

XING, Xiaohui - BURTON, Rachel A. - BULONE, Vincent. A Novel (1,4)-beta-Linked Glucoxyran Is Synthesized by Members of the Cellulose Synthase-Like F Gene Family in Land Plants. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2019, vol. 5, no. 1, pp. 73-84., Registrované v: WOS

ADCA1034 PETRAKOVA, E. - KOVÁČ, Pavol. Synthesis of new methyl O-acetyl- α - and β -D-xylopyranoside. In *Carbohydrate Research*, 1982, vol. 101, p. 141-147. ISSN 0008-6215.

Ohlasy:

1. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHANSSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS

ADCA1035 PETRÍK, Igor** - JANÁK, Marian - KLONOWSKA, I. - MAJKA, Jarosław - FROITZHEIM, Nikolaus - YOSHIDA, Kenji - SASINKOVÁ, Vlasta - KONEČNÝ, Patrik - VACULOVIČ, T. Monazite behaviour during metamorphic evolution of a diamond-bearing gneiss: a case study from the Seve Nappe Complex, Scandinavian Caledonides. In *Journal of Petrology*, 2019, vol. 60, no. 9, p. 1773-1796. (2018: 3.380 - IF, Q2 - JCR, 2.435 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0022-3530. Dostupné na: <https://doi.org/10.1093/petrology/egz051>

Ohlasy:

1. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. - DARLING, James - ANDERSON, Mark W. Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides. In TECTONICS. ISSN 0278-7407, 2020, vol. 39, no. 9, pp. Dostupné na: <https://doi.org/10.1029/2020TC006267>., Registrované v: WOS

ADCA1036 PETRÍK, Igor - JANÁK, Marian - FROITZHEIM, Nikolaus - GEORGIEV, N. - YOSHIDA, Kenji - SASINKOVÁ, Vlasta - KONEČNÝ, Patrik - MILOVSKÁ, Stanislava. Triassic to Early Jurassic (c. 200 Ma) UHP metamorphism in the Central Rhodopes: evidence from U-Pb-Th dating of monazite in diamond-bearing gneiss from Chepelare (Bulgaria). In *Journal of Metamorphic Geology*, 2016, vol. 34, no. 3, p. 265-291. (2015: 3.673 - IF, Q1 - JCR, 3.229 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0263-4929. Dostupné na: <https://doi.org/10.1111/jmg.12181>

Ohlasy:

1. [1.1] KOUNOV, Alexandre - SEWARD, Diane - BURG, Jean-Pierre - STOCKLI, Daniel - WUTHRICH, Eliane. Cenozoic thermal evolution of the Central Rhodope Metamorphic Complex (Southern Bulgaria). In INTERNATIONAL JOURNAL OF EARTH SCIENCES. ISSN 1437-3254, 2020, vol. 109, no. 5, pp. 1589-1611. Dostupné na: <https://doi.org/10.1007/s00531-020-01862-4>., Registrované v: WOS

2. [1.1] SCHMID, Stefan M. - FUEGENSCHUH, Bernhard - KOUNOV, Alexandre - MATENCO, Liviu - NIEVERGELT, Peter - OBERHAENSLI, Roland - PLEUGER, Jan - SCHEFER, Senecio - SCHUSTER, Ralf - TOMLJENOVIC, Bruno - USTASZEWSKI, Kamil - VAN HINSBERGEN, Douwe J. J. Tectonic units of the Alpine collision zone between

Eastern Alps and western Turkey. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 78, no., pp. 308-374. Dostupné na:

<https://doi.org/10.1016/j.gr.2019.07.005>., Registrované v: WOS

3. [1.1] VAN HINSBERGEN, Douwe J. J. - TORSVIK, Trond H. - SCHMID, Stefan M. - MATENCO, Liviu C. - MAFFIONE, Marco - VISSERS, Reinoud L. M. - GURER, Derya - SPAKMAN, Wim. Orogenic architecture of the Mediterranean region and kinematic reconstruction of its tectonic evolution since the Triassic. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 81, no., pp. 79-229. Dostupné na: <https://doi.org/10.1016/j.gr.2019.07.009>., Registrované v: WOS

4. [1.2] GAUTIER, Pierre - BOSSE, Valérie - CHERNEVA, Zlatka - DIDIER, Amélie - GERDJKOV, Ianko - TIEPOLO, Massimo. Polycyclic alpine orogeny in the Rhodope metamorphic complex: The record in migmatites from the Nestos shear zone (N. Greece). In Bulletin de la Societe Geologique de France. ISSN 00379409, 2017-01-01, 188, 6, pp., Registrované v: SCOPUS

5. [3.2] GEORGIEVA, M.; VLADINOVA, T. Exotic garnet-clinopyroxene-K-feldspar granulites from the Chepelare shear zone, Central Rhodope massif, Bulgaria: implications for high-pressure granulite facies metamorphism. IN Geologica Balcanica, 2019, vol. 48, iss. 3, p. 49-63. ISSN 0324-0894., Registrované v: BIOSIS Citation Index

ADCA1037 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - PHAM-HUU, D.P. - LATTOVÁ, Erika - PRIBULOVÁ, Božena - TURJAN, Jozef. Conversions of nitroalkyl to carbonyl groups in carbohydrates. In *Monatshefte für Chemie*, 2002, vol. 133, p. 383-392. ISSN 0026-9247.

Ohlasy:

1. [1.1] CERISOLI, Lucia - LOMBARDO, Marco - TROMBINI, Claudio - QUINTAVALLA, Arianna. The First Enantioselective Organocatalytic Synthesis of 3-Spiro-alpha-Alkylidene-gamma-Butyrolactone Oxindoles. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 11, pp. 3865-3872., Registrované v: WOS

2. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In ARKIVOC. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS

ADCA1038 PETRUŠ, Ladislav - GRAY, D.G. - BEMILLER, J.N. Homogeneous alkylation of cellulose in lithium chloride-dimethyl sulfoxide solvent with dimsyl sodium activation - a proposal for the mechanism of cellulose dissolution in LiCl/Me₂SO. In *Carbohydrate Research*, 1995, vol. 268, p. 319-323. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00330-I](https://doi.org/10.1016/0008-6215(94)00330-I)

Ohlasy:

1. [1.1] ADOLFSSON, Karin H. - MELILLI, Giuseppe - HAKKARAINEN, Minna. Oxidized Carbonized Cellulose-Coated Filters for Environmental Contaminant Adsorption and Detection. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 30, pp. 13578-13587. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c01973>., Registrované v: WOS

2. [1.1] BROXTERMAN, Suzanne E. - VAN ERVEN, Gijb - SCHOLS, Henk A. The solubility of primary plant cell wall polysaccharides in LiCl-DMSO. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 200, no., pp. 332-340., Registrované v: WOS
3. [1.1] CAO, Tingyue - JIANG, Bo - GU, Feng - WU, Wenjuan - JIN, Yongcan. Characterization of Lignin Isolated from Wheat Leaf Based on LiCl/DMSO Dissolution and Regeneration. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 9676-9685., Registrované v: WOS
4. [1.1] GU, Feng - WU, Wenjuan - WANG, Zhiguo - YOKOYAMA, Toyoma - JIN, Yongcan - MATSUMOTO, Yuji. Effect of complete dissolution in LiCl/DMSO on the isolation and characteristics of lignin from wheat straw internode. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2015, vol. 74, no., pp. 703-711., Registrované v: WOS
5. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Principles of Cellulose Derivatization. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 259-292., Registrované v: WOS
6. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Cellulose Activation and Dissolution. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 173-257., Registrované v: WOS
7. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS
8. [1.1] HUANG, Yu - WANG, Zhiguo - WANG, Linshan - CHAO, Yuesheng - AKIYAMA, Takuya - YOKOYAMA, Tomoya - MATSUMOTO, Yuji. HEMICELLULOSE COMPOSITION IN DIFFERENT CELL WALL FRACTIONS OBTAINED USING A DMSO/LICL WOOD SOLVENT SYSTEM AND ENZYME HYDROLYSIS. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2015, vol. 36, no. 1, pp. 56-62., Registrované v: WOS
9. [1.1] KOSTAG, Marc - GERICKE, Martin - HEINZE, Thomas - EL SEOUD, Omar A. Twenty-five years of cellulose chemistry: innovations in the dissolution of the biopolymer and its transformation into esters and ethers. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 139-184., Registrované v: WOS
10. [1.1] LIU, Zhulan - CAO, Yunfeng - WANG, Zhiguo - REN, Hao - AMIDON, Thomas E. - LAI, Yuanzong. The Utilization of Soybean Straw. I. Fiber Morphology and Chemical Characteristics. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 2, pp. 2266-2280., Registrované v: WOS
11. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo Phyllostachys aurea. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS
12. [1.1] PEREZ RECALDE, Mercedes - CANELON, Dilsia J. - COMPAGNONE, Reinaldo S. - MATULEWICZ, Maria C. - CEREZO, Alberto S. - CIANCIA, Marina. Carrageenan and agaran structures from the red seaweed

- Gymnogongrus tenuis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 1370-1378., Registrované v: WOS
13. [1.1] SHAO, Changyou - YANG, Jun. Dynamics in Cellulose-Based Hydrogels with Reversible Cross-Links. In SELF-HEALING AND SELF-RECOVERING HYDROGELS. ISSN 0065-3195, 2020, vol. 285, no., pp. 319-354. Dostupné na: https://doi.org/10.1007/12_2019_58., Registrované v: WOS
14. [1.1] SHEN, Xiaoping - SHAMSHINA, Julia L. - BERTON, Paula - GURAU, Gabriela - ROGERS, Robin D. Hydrogels based on cellulose and chitin: fabrication, properties, and applications. In GREEN CHEMISTRY. ISSN 1463-9262, 2016, vol. 18, no. 1, pp. 53-75., Registrované v: WOS
15. [1.1] SIMS, Ian M. - CARNACHAN, Susan M. - BELL, Tracey J. - HINKLEY, Simon F. R. Methylation analysis of polysaccharides: Technical advice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 188, no., pp. 1-7., Registrované v: WOS
16. [1.1] VIRGINIA FERNANDEZ, Paula - MARTIN ZELAYA, Victor - COBELLO, Lucila - SUSANA VEGA, Andrea - CIANCIA, Marina. Glucuronoarabinoxylans and other cell wall polysaccharides from shoots of Guadua chacoensis obtained by extraction in different conditions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 226, no., pp., Registrované v: WOS
17. [1.1] XIE, Di - GAN, Tao - SU, Chen - HAN, Yin - LIU, Zhulan - CAO, Yunfeng. Structural characterization and antioxidant activity of water-soluble lignin-carbohydrate complexes (LCCs) isolated from wheat straw. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 315-324. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.049>., Registrované v: WOS
18. [1.2] HUANG, Yu - WANG, Zhiguo - WANG, Linshan - CHAO, Yuesheng - AKIYAMA, Takuya - YOKOYAMA, Tomoya - MATSUMOTO, Yuji. Hemicellulose Composition in Different Cell Wall Fractions Obtained using a DMSO/LiCl Wood Solvent System and Enzyme Hydrolysis. In Journal of Wood Chemistry and Technology. ISSN 02773813, 2016-01-01, 36, 1, pp. 56-62., Registrované v: SCOPUS
19. [1.2] SHEN, Xiaoping - SHAMSHINA, Julia L. - BERTON, Paula - GURAU, Gabriela - ROGERS, Robin D. Hydrogels based on cellulose and chitin: Fabrication, properties, and applications. In Green Chemistry. ISSN 14639262, 2015-11-16, 18, 1, pp. 53-75., Registrované v: SCOPUS
20. [1.2] YANG, Yan - REN, Hao - ZHAI, Huamin. Evaluation Method of Solubility of Wheat Straw in LiCl/DMSO Solvent. In Chemistry and Industry of Forest Products. ISSN 02532417, 2018-08-28, 38, 4, pp. 9-12., Registrované v: SCOPUS

ADCA1039 PETRUŠOVÁ, Mária - VOJTECH, Michal - PRIBULOVÁ, Božena - LATTOVÁ, Erika - MATULOVÁ, Mária - POLÁKOVÁ, Monika - BEMILLER, J.N. - KŘEN, V. - PETRUŠ, Ladislav. Extension of the Nef reaction to C-glycosylnitromethanes. In *Carbohydrate Research*, 2006, vol. 341, p. 2019-2025. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.04.050>

Ohlasy:

1. [1.1] BALLINI, Roberto - PETRINI, Marino. The Nitro to Carbonyl Conversion (Nef Reaction): New Perspectives for a Classical Transformation. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2015, vol. 357, no. 11, pp. 2371-2402., Registrované v: WOS
2. [1.1] YANG, Lin - HONG, Ran. Integration of novel strategy and methods: total synthesis of antitumor lasonolide A. In *STRATEGIES AND TACTICS IN ORGANIC SYNTHESIS*, VOL 14. ISSN 1874-4818, 2019, vol. 14, no., pp. 107-138., Registrované v: WOS
3. [1.1] YANG, Lin - LIN, Zuming - ZHENG, Kuan - KONG, Luyao - HONG, Ran. A Modular Synthesis of Antitumor Macrolide (-)-Lasonolide A(dagger). In *CHINESE JOURNAL OF CHEMISTRY*. ISSN 1001-604X, 2020, vol. 38, no. 7, pp. 725-736. Dostupné na: <https://doi.org/10.1002/cjoc.202000026>., Registrované v: WOS
4. [1.2] Goekjian, P., Haudrechy, A., Menhour, B., & Coiffier, C. (2017). In *C-Furanosides: Synthesis and Stereochemistry*. (Elsevier, pp. 1-771), Registrované v: SCOPUS

ADCA1040 PETRUŠOVÁ, Mária - SMRTIČOVÁ, Hana - PRIBULOVÁ, Božena - VLČKOVÁ, Silvia - UHLIARIKOVÁ, Iveta - DOSCA, Tibor - SOMSÁK, László - PETRUŠ, Ladislav. One pot InCl₃-catalyzed synthesis of 1-glycosylmethyl-1H-imidazoles. In *Tetrahedron*, 2016, vol. 72, no. 17, p. 2116-2121. (2015: 2.645 - IF, Q2 - JCR, 0.941 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2016.03.010>

Ohlasy:

1. [1.1] DAGLI, Meltem - ER, Mustafa - KARAKURT, Tuncay - ONARAN, Abdurrahman - ALICI, Hakan - TAHTACI, Hakan. Synthesis, Characterization, Antimicrobial Evaluation, and Computational Investigation of Substituted Imidazo[2,1-b][1,3,4]Thiadiazole Derivatives. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2020, vol. 5, no. 38, pp. 11753-11763. Dostupné na: <https://doi.org/10.1002/slct.202002821>., Registrované v: WOS
2. [1.1] MARZOUK, Adel A. - ABU-DIEF, Ahmed M. - ABDELHAMID, Antar A. Hydrothermal preparation and characterization of ZnFe₂O₄ magnetic nanoparticles as an efficient heterogeneous catalyst for the synthesis of multi-substituted imidazoles and study of their anti-inflammatory activity. In *APPLIED ORGANOMETALLIC CHEMISTRY*. ISSN 0268-2605, 2018, vol. 32, no. 1, pp., Registrované v: WOS
3. [1.1] MARZOUK, Adel A. - MOHAMED, Shaaban K. - ALJOHANI, Enas T. - ABDELHAMID, Antar A. New Method for Synthesis of Multi-substituted Imidazoles. In *JOURNAL OF HETEROCYCLIC CHEMISTRY*. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1775-1782., Registrované v: WOS
4. [1.1] NEHA - DWIVEDI, Ashish Ranjan - KUMAR, Rakesh - KUMAR, Vinod. Recent Synthetic Strategies for Monocyclic Azole Nucleus and Its Role in Drug Discovery and Development. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2018, vol. 15, no. 3, pp. 321-340., Registrované v: WOS
5. [1.1] TAHTACI, Hakan - KARACIK, Hatice - ECE, Abdulilah - ER, Mustafa - SEKER, Mine Gul. Design, Synthesis, SAR and Molecular Modeling

Studies of Novel Imidazo[2,1-b][1,3,4]Thiadiazole Derivatives as Highly Potent Antimicrobial Agents. In MOLECULAR INFORMATICS. ISSN 1868-1743, 2018, vol. 37, no. 3, pp., Registrované v: WOS

6. [1.2] ZUO, Zhenyu - SONG, Xiaomei - GUO, Dongyan - ZHANG, Guanghui - YAN, Hao - HUANG, Xi - YIN, Xiaogang. One-pot synthesis of 1,2,4,5-imidazole derivatives. In Speciality Petrochemicals. ISSN 10039384, 2019-03-18, 36, 2, pp. 35-40., Registrované v: SCOPUS

ADCA1041 PETRUŠOVÁ, Mária - BEMILLER, J.N. - KRIHOVÁ, A. - PETRUŠ, Ladislav. Synthesis of 2-(β -D-glycopyranosyl)nitroethenes and nitroethanes via aldehydo derivatives. In *Carbohydrate Research*, 1996, vol.346, p. 57-67. (1995: 1.506 - IF). ISSN 0008-6215.

Ohlasy:

1. [1.1] GUILOT, Nicolas E. S. - OBAME, Idriss Ella - IREDDY, Prathap - NOURRY, Arnaud - SALUZZO, Christine - DUJARDIN, Gilles - DUBREUIL, Didier - PIPELIER, Muriel - GUILLARME, Stephane. Reaction of Glyconitriles with Organometallic Reagents: Access to Acyl β -C-Glycosides. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2016, vol. 81, no. 6, pp. 2364-2371., Registrované v: WOS

ADCA1042 PETRÝDESOVÁ, Jana - KUČERA, Jaromír - BACIGÁLOVÁ, Kamila - VADKERTIOVÁ, Renáta - LOPANDIC, Ksenija - VĎAČNÝ, P. - SLOVÁK, Marek. Disentangling identity of species of the genus *Taphrina* parasitizing herbaceous Rosaceae, with proposal of *Taphrina gei-monrani* sp. nov. In *International Journal of Systematic and Evolutionary Microbiology*, 2016, vol. 66, p. 2540-2549. (2015: 2.439 - IF, Q3 - JCR, 1.098 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1466-5026. Dostupné na: <https://doi.org/10.1099/ijsem.0.001095>

Ohlasy:

1. [1.1] DE MESQUITA, Clifton P. Bueno - SCHMIDT, Steven K. - SUDING, Katharine N. Litter-driven feedbacks influence plant colonization of a high elevation early successional ecosystem. In PLANT AND SOIL. ISSN 0032-079X, 2019, vol. 444, no. 1-2, pp. 71-85., Registrované v: WOS

ADCA1043 PHAM-HUU, D.P. - GIZAW, Y. - BEMILLER, J.N. - PETRUŠ, Ladislav. New synthesis of 1,4-dideoxy-1,4-imino-D-galactitol from D-glucose propane-1,3-diyl dithioacetal. In *Tetrahedron Letters*, 2002, vol. 43, p. 383-385. ISSN 0040-4039.

Ohlasy:

1. [1.1] RIGHI, Giuliana - MANDIC, Emanuela - SAPPINO, Carla - DEMA, Ergys - BOVICELLI, Paolo. Asymmetric routes toward polyhydroxylated pyrrolidines: Synthesis of 1,4-dideoxy-1,4-imino-D-galactitol and 1,4-dideoxy-1,4-imino-D-glucitol. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 435, no., pp. 100-105., Registrované v: WOS

ADCA1044 PIGNATARO, Luca - LYNKAITE, Benita - COLOMBO, Raffaele - CARBONI, Stefano - KRUPÍČKA, Martin - PIARULLI, Umberto - GENNARI, Cesare. Combination of a binaphthol-derived phosphite and a C1-symmetric phosphinamine generators heteroleptic catalysts in Rh- and Pd-mediated reactions. Raffaele Colombo, Stefano Carboni, Martin Krupička, Umberto Piarulli, Cesare

Gennari. In *Chemical Communication*, 2009, pp.3539-3541. Dostupné na:
<https://doi.org/10.1039/b908167d>

Ohlasy:

1. [1.1] DAUBIGNARD, Julien - DETZ, Remko J. - DE BRUIN, Bas - REEK, Joost N. H. Phosphine Oxide Based Supramolecular Ligands in the Rhodium-Catalyzed Asymmetric Hydrogenation. In *ORGANOMETALLICS*. ISSN 0276-7333, 2019, vol. 38, no. 20, pp. 3961-3969., Registrované v: WOS
2. [1.1] SHIBATA, Takanori - FUKAI, Miku - SEKINE, Ryosuke - HAZRA, Madhurima - KANYIVA, Kyalo Stephen. Enantioselective Synthesis of Planar-Chiral 1,n-Dioxan[paracyclophane]-Based Phosphites and Their Application as Chiral Ligands. In *SYNTHESIS-STUTTGART*. ISSN 0039-7881, 2016, vol. 48, no. 16, pp. 2664-2670., Registrované v: WOS
3. [1.2] LI, Yang - WANG, Zheng - DING, Kuiling. Minimizing Aryloxy Elimination in Rh^{sup}/sup-Catalyzed Asymmetric Hydrogenation of β -Aryloxyacrylic Acids using a Mixed-Ligand Strategy. In *Chemistry A European Journal*. ISSN 09476539, 2015-11-01, 21, 46, pp. 16387-16390., Registrované v: SCOPUS
4. [1.2] LYUBIMOV, S. E. - OZOLIN, D. V. - PAVLOV, A. A. - IVANOV, P. Yu - MAYOROV, K. B. - VELEZHEVA, V. S. - DAVANKOV, V. A. - NIKONENKO, B. V. The use of mixtures of ligands in the Ir-catalyzed asymmetric reductive amination of 6-methyl-2,3,4,9-tetrahydro-1H-carbazol-1-one. In *Russian Chemical Bulletin*. ISSN 10665285, 2015-07-01, 64, 7, pp. 1591-1594., Registrované v: SCOPUS

ADCA1045 GAJDOŠOVÁ, Veronika* - LORENCOVÁ, Lenka* - PROCHÁZKA, Michal - MÍČUŠÍK, Matej - OMASTOVÁ, Mária - PROCHÁZKOVÁ, Simona - KVĚTONĚ, Filip - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - TKÁČ, Ján**. Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH₃)₆³⁺ of electrode interfaces modified with HF or LiF-HCl etched Ti₃C₂T_x MXene. In *Microchimica Acta*, 2020, vol. 187, no. 1, art. no. 52, [8] p. (2019: 6.232 - IF, Q1 - JCR, 1.300 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0026-3672. Dostupné na:
<https://doi.org/10.1007/s00604-019-4049-6>

Ohlasy:

1. [1.1] SHAHZAD, Faisal - ZAIDI, Shabi Abbas - NAQVI, Rizwan Ali. 2D Transition Metal Carbides (MXene) for Electrochemical Sensing: A Review. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2020, vol., no., pp. Dostupné na:
<https://doi.org/10.1080/10408347.2020.1836470>., Registrované v: WOS
2. [1.1] ZHANG, C. - MA, B. - ZHOU, Y.K. - WANG, C. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, MAY 15 2020, vol. 865., Registrované v: WOS

ADCA1046 POKKULURI, Phani Raj - DUKE, Norma E.C. - WOOD, Stephen J. - COTTA, Michael A. - LI, Xin-Liang - BIELY, Peter - SCHIFFER, Marianne. Structure of the catalytic domain of glucuronoyl esterase Cip2 from *Hypocrea jecorina*. In *Proteins : Structure Function and Bioinformatics*, 2011, vol. 79, p. 2588-2592. (2010: 2.813 - IF, Q2 - JCR, 1.934 - SJR, Q1 - SJR, Current Contents -

CCC). (2011 - Current Contents). ISSN 0887-3585. Dostupné na:
<https://doi.org/10.1002/prot.23088>

Ohlasy:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
3. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
4. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer *Trichoderma reesei*. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
5. [1.1] CAO JING - WANG MIAO - CHEN WEIHUA - SHE YONGXIN - WANG JING - WANG FENGZHONG - LAO SHUIBING. Artificial Esterase Based on Self-assembly Gel Microspheres Constructed from Chitosan and Amino Acids. In CHEMICAL RESEARCH IN CHINESE UNIVERSITIES. ISSN 1005-9040, 2019, vol. 35, no. 3, pp. 504-508., Registrované v: WOS
6. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
7. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
8. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
9. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and

- biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
10. [1.1] D'ERRICO, Clotilde - JORGENSEN, Jonas O. - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Enzymatic Degradation of Lignin-Carbohydrate Complexes (LCCs): Model Studies Using a Fungal Glucuronoyl Esterase from *Cerrena Unicolor*. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol. 112, no. 5, pp. 914-922., Registrované v: WOS
11. [1.1] D'ERRICO, Clotilde - BORJESSON, Johan - DING, Hanshu - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Improved biomass degradation using fungal glucuronoyl-esterases-hydrolysis of natural corn fiber substrate. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 219, no., pp. 117-123., Registrované v: WOS
12. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
13. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS
14. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
15. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
16. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS
17. [1.1] KRŠKA, Daniel - LARSBRINK, Johan. Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01709-9>., Registrované v: WOS
18. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In APPLIED MICROBIOLOGY AND

- BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
19. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS
20. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
21. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS
22. [1.1] NYLANDER, Filip - SUNNER, Hampus - OLSSON, Lisbeth - CHRISTAKOPOULOS, Paul - WESTMAN, Gunnar. Synthesis and enzymatic hydrolysis of a diaryl benzyl ester model of a lignin-carbohydrate complex (LCC). In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 5, pp. 385-391., Registrované v: WOS
23. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. An extended loop in CE7 carbohydrate esterase family is dispensable for oligomerization but required for activity and thermostability. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, 2016, vol. 194, no. 3, pp. 434-445., Registrované v: WOS
24. [1.1] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable α/β hydrolase fold esterase. In PROTEIN ENGINEERING DESIGN & SELECTION. ISSN 1741-0126, 2017, vol. 30, no. 8, pp. 559-570., Registrované v: WOS
25. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS
26. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
27. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
28. [1.2] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable α/β hydrolase

fold esterase. In Protein Engineering, Design and Selection. ISSN 17410126, 2016-08-01, 30, 8, pp. 559-570., Registrované v: SCOPUS
29. [3.2] Group Author(s). Uniprot Consortium. G0RV93. IN UniProt Knowledgebase, 2017. Dostupné na internete:
<http://www.uniprot.org/uniprot/G0RV93>, Registrované v: Data Citation Index

- ADCA1047 POLÁKOVÁ, Monika - ŠESTÁK, Sergej - LATTOVÁ, Erika - PETRUŠ, Ladislav - MUCHA, Ján - TVAROŠKA, Igor - KÓŇA, Juraj.
Alfa-D-Mannose derivatives as models designed for selective inhibition of Golgi alfa-mannosidase II. In *European Journal of Medicinal Chemistry*, 2011, vol. 46, p. 944-952. (2010: 3.193 - IF, Q1 - JCR, 0.887 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0223-5234.
- Ohlasy:
1. [1.1] ALEXANDER, Stewart R. - WATSON, Andrew J. A. - FAIRBANKS, Antony J. Direct aqueous synthesis of non-protected glycosyl sulfoxides; weak inhibitory activity against glycosidases. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 413, no., pp. 123-128., Registrované v: WOS
 2. [1.1] CHITTELA, Sravanthi - REDDY, Thurpu Raghavender - KRISHNA, Palakodety Radha - KASHYAP, Sudhir. Ruthenium Catalyzed Stereo/Chemo/Regioselective One-Pot Synthesis of C(2)-C(3) Unsaturated and alpha-D-Mannopyranosyl Sulfones. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 14, pp. 7108-7116., Registrované v: WOS
 3. [1.1] LIAO, Jun - PAN, Bo - LIAO, Guochao - ZHAO, Qingjie - GAO, Yun - CHAI, Xiaoyun - ZHUO, Xiaobin - WU, Qiuye - JIAO, Binghua - PAN, Weihua - GUO, Zhongwu. Synthesis and immunological studies of beta-1,2-mannan-peptide conjugates as antifungal vaccines. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2019, vol. 173, no., pp. 250-260., Registrované v: WOS
 4. [1.1] LI, Jianfei - ZHANG, Jiangye - LAI, Bi - ZHAO, Ying - LI, Qinfan. Cloning, Expression, and Characterization of Capra hircus Golgi alpha-Mannosidase II. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2015, vol. 177, no. 6, pp. 1241-1251., Registrované v: WOS
 5. [1.1] RISQUEZ-CUADRO, Rocio - MATSUMOTO, Reimi - ORTEGA-CABALLERO, Fernando - NANBA, Eiji - HIGAKI, Katsumi - GARCIA FERNANDEZ, Jose Manuel - ORTIZ MELLET, Carmen. Pharmacological Chaperones for the Treatment of alpha-Mannosidosis. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2019, vol. 62, no. 12, pp. 5832-5843., Registrované v: WOS
 6. [1.1] RUSTLER, Karin - MICKERT, Matthias J. - NAZET, Julian - MERKL, Rainer - GORRIS, Hans H. - KOENIG, Burkhard. Development of photoswitchable inhibitors for beta-galactosidase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 40, pp. 7430-7437., Registrované v: WOS

- ADCA1048 POLÁKOVÁ, Monika - JANKOVIČ, Ľuboš - KUCKOVÁ, Lenka - KOŽIŠEK, Jozef. Application of oxone immobilized on montmorillonite for an efficient oxidation of mannose thioglycoside. In *Monatshefte für Chemie*, 2013, vol.

144, p. 969-973. (2012: 1.629 - IF, Q2 - JCR, 0.533 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-013-0964-0>

Ohlasy:

1. [1.1] DIMITRIOU, Eleni - MILLER, Gavin J. Synthesis and Isolation of Diastereomeric Anomeric Sulfoxides from a d-Mannuronate Thioglycoside Building Block. In MOLBANK, 2020, vol. 2020, no. 1, pp. Dostupné na: <https://doi.org/10.3390/M11111>., Registrované v: WOS
2. [1.2] DING, Zhao Xia - YUAN, Chen - MAI, Zheng Jun - LIU, Jie - LONG, Tian Yu. Microwave Advanced Oxidation Technologies Using Oxidizer Persulfate and their Application in Sterilization. In Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities. ISSN 10039015, 2017-10-01, 31, 5, pp. 1225-1231., Registrované v: SCOPUS

ADCA1049 POLÁKOVÁ, Monika - HORÁK, Radim - ŠESTÁK, Sergej - HOLKOVÁ, Ivana. Synthesis of modified D-mannose core derivatives and their impact on GH38 α -mannosidases. In *Carbohydrate Research*, 2016, vol. 428, p. 62-71. (2015: 1.817 - IF, Q2 - JCR, 0.588 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2016.04.004>

Ohlasy:

1. [1.1] BOBOVSKA, Adela - TVAROSKA, Igor - KONA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi alpha-Mannosidase II. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2016, vol. 66, no., pp. 47-57., Registrované v: WOS
2. [1.1] KOYAMA, Ryosuke - KANO, Yui - KIKUSHIMA, Kaori - MIZUTANI, Ayaka - SOEDA, Yuta - MIURA, Kazuki - HIRANO, Takako - NISHIO, Toshiyuki - HAKAMATA, Wataru. A novel Golgi mannosidase inhibitor: Molecular design, synthesis, enzyme inhibition, and inhibition of spheroid formation. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2020, vol. 28, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115492>., Registrované v: WOS
3. [1.1] LIAO, Jun - PAN, Bo - LIAO, Guochao - ZHAO, Qingjie - GAO, Yun - CHAI, Xiaoyun - ZHUO, Xiaobin - WU, Qiuye - JIAO, Binghua - PAN, Weihua - GUO, Zhongwu. Synthesis and immunological studies of beta-1,2-mannan-peptide conjugates as antifungal vaccines. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2019, vol. 173, no., pp. 250-260., Registrované v: WOS

ADCA1050 POLÁKOVÁ, Monika - ROSLUND, Mattias U. - EKHOLM, Filip S. - SALORANTA, Tiina - LEINO, Reko. Synthesis of beta-(1-2)-Linked Oligomannosides. Filip S. Ekholm, Tiina Saloranta, Reko Leino. In *European Journal of Organic Chemistry*, 2009, pp.870-888. Dostupné na: <https://doi.org/10.1002/ejoc.200801024>

Ohlasy:

1. [1.1] ADAK, Taniya - MORALES, Daniela L. - COOK, Alina J. - GRIGG, Jason C. - MURPHY, Michael E. P. - TANNER, Martin E. ArnD is a deformylase involved in polymyxin resistance. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 50, pp. 6830-6833.

Dostupné na: <https://doi.org/10.1039/d0cc02241a>., Registrované v: WOS

2. [1.1] BAI, Chaolumen - BUDRAGCHAA, Davaanyam - YOSHIDA, Takashi. Ring-opening polymerization of new 3-O-branched 1, 6-anhydro glucopyranose di- and trisaccharide monomers. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 446, no., pp. 52-60., Registrované v: WOS

3. [1.1] KARELIN, Alexander A. - TSVETKOV, Yury E. - PAULOVICOVA, Ema - PAULOVICOVA, Lucia - NIFANTIEV, Nikolay E. A Blockwise Approach to the Synthesis of (1> 2)-Linked Oligosaccharides Corresponding to Fragments of the Acid-Stable beta-Mannan from the Candida albicans Cell Wall. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2016, vol., no. 6, pp. 1173-1181., Registrované v: WOS

4. [1.1] KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthesis of oligosaccharides related to cell wall polysaccharides of the fungi Candida and Aspergillus. In RUSSIAN CHEMICAL REVIEWS. ISSN 0036-021X, 2017, vol. 86, no. 11, pp. 1073-1126., Registrované v: WOS

5. [1.1] KARELIN, A. A. - TSVETKOV, Yu. E. - PAULOVICOVA, E. - PAULOVICOVA, L. - NIFANTIEVA, N. E. Blockwise synthesis of a pentasaccharide structurally related to the mannan fragment from the Candida albicans cell wall corresponding to the antigenic factor 6. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2015, vol. 64, no. 12, pp. 2942-2948., Registrované v: WOS

6. [1.1] Kollmann, C (Koellmann, Christoph); Jones, PG (Jones, Peter G.); Werz, DB (Werz, Daniel B.). Synthesis of 5-&ITC&IT-Methylated D-Mannose, D-Galactose, L-Gulose, and L-Altrose and Their Structural Elucidation by NMR Spectroscopy. In ORGANIC LETTERS, 2018, vol. 20, iss. 4, p. 1220-1223., Registrované v: WOS

7. [1.1] KURFIRT, Martin - ST'ASTNA, Lucie Cervenкова - DRACINSKY, Martin - MULLEROVA, Monika - HAMALA, Vojtech - CURINOVA, Petra - KARBAN, Jindrich. Stereoselectivity in Glycosylation with Deoxofluorinated Glucosazide and Galactosazide Thiodonors. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2019, vol. 84, no. 10, pp. 6405-6431., Registrované v: WOS

8. [1.1] LIU, Bo - LIU, Xue - ZHANG, Jing-Ren - LIU, Gang. A Natural Lipotrisaccharide and Its Derivatives Selectively Lyse Streptococcus pneumoniae via Interaction with Cell Membrane. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2017, vol. 3, no. 6, pp. 438-453., Registrované v: WOS

9. [1.1] MAKI, Yuta - NOMURA, Kota - OKAMOTO, Ryo - IZUMI, Masayuki - MIZUTANI, Yasuhisa - KAJIHARA, Yasuhiro. Acceleration and Deceleration Factors on the Hydrolysis Reaction of 4,6-O-Benzylidene Acetal Group. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15849-15856. Dostupné na:

<https://doi.org/10.1021/acs.joc.0c00395>., Registrované v: WOS

10. [1.1] MENDE, Marco - NIEGER, Martin - BRAESE, Stefan. Chemical Synthesis of Modified Hyaluronic Acid Disaccharides. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 50, pp. 12283-12296., Registrované v: WOS

11. [1.1] SAIKAM, Varma - DARA, Saidulu - YADAV, Mahipal -

SINGH, Parvinder Pal - VISHWAKARMA, Ram A. Dimethyltin Dichloride Catalyzed Regioselective Alkylation of cis-1,2-Diols at Room Temperature. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 24, pp. 11916-11925., Registrované v: WOS

12. [1.1] VAN DER VORM, S. - HANSEN, T. - OVERKLEEF, H. S. - VAN DER MAREL, G. A. - CODEE, J. D. C. The influence of acceptor nucleophilicity on the glycosylation reaction mechanism. In CHEMICAL SCIENCE. ISSN 2041-6520, 2017, vol. 8, no. 3, pp. 1867-1875., Registrované v: WOS

- ADCA1051 POLÁKOVÁ, Monika - BELÁŇOVÁ, Martina - MIKUŠOVÁ, Katarína - LATTOVÁ, Erika - PERREAULT, Héléne. Synthesis of 1,2,3-tiazolo-linked octyl (1-6)-alfa-D-oligomannosides and their evaluation in mycobacterial mannosyltransferase assay. In *Bioconjugate chemistry*, 2011, vol. 22, p. 289-298. (2010: 5.002 - IF, Q1 - JCR, 2.273 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1043-1802. Dostupné na: <https://doi.org/10.1021/bc100421g>
- Ohlasy:
1. [1.1] BOFF, L. - MUNKERT, J. - OTTONI, F. M. - ZANCHETT SCHNEIDER, N. F. - RAMOS, G. S. - KREIS, W. - DE ANDRADE, S. F. - DIAS DE SOUZA FILHO, J. - CASTRO BRAGA, F. - ALVES, R. J. - MAIA DE PADUA, R. - OLIVEIRA SIMOES, C. M. Potential anti-herpes and cytotoxic action of novel semisynthetic digitoxigenin-derivatives. In PLANTA MEDICA. ISSN 0032-0943, 2019, vol. 85, no. 18, pp. 1417-1417., Registrované v: WOS
 2. [1.1] CATTIAUX, Laurent - PORKOLAB, Vanessa - FIESCHI, Franck - MALLET, Jean-Maurice. New branched amino acids for high affinity dendrimeric DC-SIGN ligands. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2018, vol. 26, no. 5, pp. 1006-1015., Registrované v: WOS
 3. [1.1] COLLIER, Alice - WAGNER, Gerd K. Base-modified GDP-mannose derivatives and their substrate activity towards a yeast mannosyltransferase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 91-96., Registrované v: WOS
 4. [1.1] CUTRONE, Giovanna - BENKOVICS, Gabor - MALANGA, Milo - MANUEL CASAS-SOLVAS, Juan - FENYVESI, Eva - SORTINO, Salvatore - GARCIA-FUENTES, Luis - VARGAS-BERENGUEL, Antonio. Mannoside and 1,2-mannobioside beta-cyclodextrin-scaffolded NO-photodonors for targeting antibiotic resistant bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 649-660., Registrované v: WOS
 5. [1.1] CUTRONE, Giovanna - LI, Xue - CASAS-SOLVAS, Juan M. - MENENDEZ-MIRANDA, Mario - QIU, Jingwen - BENKOVICS, Gabor - CONSTANTIN, Doru - MALANGA, Milo - MOREIRA-ALVAREZ, Borja - COSTA-FERNANDEZ, Jose M. - GARCIA-FUENTES, Luis - GREF, Ruxandra - VARGAS-BERENGUEL, Antonio. Design of Engineered Cyclodextrin Derivatives for Spontaneous Coating of Highly Porous Metal-Organic Framework Nanoparticles in Aqueous Media. In NANOMATERIALS, 2019, vol. 9, no. 8, pp., Registrované v: WOS
 6. [1.1] HAIN, Julia - DESPRAS, Guillaume. A two-step approach to a glycoazobenzene macrocycle with remarkable photoswitchable features. In

CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 62, pp. 8563-8566., Registrované v: WOS

7. [1.1] HAIN, Julia - CHANDRASEKARAN, Vijayanand - LINDHORST, Thisbe K. Joining Hydroxyazobenzene and Mannose under Mitsunobu Conditions. In ISRAEL JOURNAL OF CHEMISTRY. ISSN 0021-2148, 2015, vol. 55, no. 3-4, pp. 383-386., Registrované v: WOS

8. [1.1] HE, Xiao-Peng - ZENG, Ya-Li - ZANG, Yi - LI, Jia - FIELD, Robert A. - CHEN, Guo-Rong. Carbohydrate CuAAC click chemistry for therapy and diagnosis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 429, no., pp. 1-22., Registrované v: WOS

9. [1.1] HOJNIK, Cornelia - MUELLER, Anne - GLOE, Tobias-Elias - LINDHORST, Thisbe K. - WRODNIGG, Tanja M. The Amadori Rearrangement for Carbohydrate Conjugation: Scope and Limitations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2016, vol., no. 25, pp. 4328-4337., Registrované v: WOS

10. [1.1] HU, Xi-Le - LI, Dan - SHAO, Lei - DONG, Xiaojing - HE, Xiao-Peng - CHEN, Guo-Rong - CHEN, Daijie. Triazole-Linked Glycolipids Enhance the Susceptibility of MRSA to beta-Lactam Antibiotics. In ACS MEDICINAL CHEMISTRY LETTERS. ISSN 1948-5875, 2015, vol. 6, no. 7, pp. 793-797., Registrované v: WOS

11. [1.1] CHEN, Shiguang - FANG, Yanfen - ZHU, Qiwen - ZHANG, Wanli - ZHANG, Xiongwen - LU, Wei. NIR fluorescent DCPO glucose analogues and their application in cancer cell imaging. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 85, pp. 81894-81901., Registrované v: WOS

12. [1.1] KAYET, Anirban - GANGULY, Arghya - PATHAK, Tanmaya. Vinyl sulfone modified-azidofuranoside building-blocks:

1,4-/1,5-disubstituted-1,2,3-triazole linked trisaccharides via an aqueous/ionic-liquid route and "Click" chemistry. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 10, pp. 7977-7981., Registrované v: WOS

13. [1.1] KOPECNA, Monika - MACHACEK, Miloslav - PRCHALOVA, Eva - STEPANEK, Petr - DRASAR, Pavel - KOTORA, Martin - VAVROVA, Katerina. Dodecyl Amino Glucoside Enhances Transdermal and Topical Drug Delivery via Reversible Interaction with Skin Barrier Lipids. In PHARMACEUTICAL RESEARCH. ISSN 0724-8741, 2017, vol. 34, no. 3, pp. 640-653., Registrované v: WOS

14. [1.1] LIN, Cin-Hao - WEN, Hsin-Chuan - CHIANG, Cheng-Chin - HUANG, Jen-Sheng - CHEN, Yunching - WANG, Sheng-Kai. Polyproline Tri-Helix Macrocycles as Nanosized Scaffolds to Control Ligand Patterns for Selective Protein Oligomer Interactions. In SMALL. ISSN 1613-6810, 2019, vol. 15, no. 20, pp., Registrované v: WOS

15. [1.1] TIWARI, Vinod K. - MISHRA, Bhuwan B. - MISHRA, Kunj B. - MISHRA, Nidhi - SINGH, Anoop S. - CHEN, Xi. Cu-Catalyzed Click Reaction in Carbohydrate Chemistry. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 5, pp. 3086-3240., Registrované v: WOS

16. [1.1] TYAGI, Mohit - KARTHA, K. P. Ravindranathan. Synthesis of glycotriazololipids and observations on their self-assembly properties. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 413, no., pp. 85-92., Registrované v: WOS

17. [1.1] TYAGI, Mohit - TAXAK, Nikhil - BHARATAM, Prasad V. - NANDANWAR, Hemraj - KARTHA, K. P. Ravindranathan. Mechanochemical

- click reaction as a tool for making carbohydrate-based triazole-linked self-assembling materials (CTSAMs). In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 407, no., pp. 137-147., Registrované v: WOS
18. [1.1] ZHANG, Shu - XU, Zhi - GAO, Chuan - REN, Qing-Cheng - CHANG, Le - LV, Zao-Sheng - FENG, Lian-Shun. Triazole derivatives and their anti-tubercular activity. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2017, vol. 138, no., pp. 501-513., Registrované v: WOS
19. [1.2] PORE, Vandana S. - DIVSE, Jaisingh M. - CHAROLKAR, Chaitanya R. - NAWALE, Laxman U. - KHEDKAR, Vijay M. - SARKAR, Dhiman. Design and synthesis of 11 α -substituted bile acid derivatives as potential anti-tuberculosis agents. In *Bioorganic and Medicinal Chemistry Letters*. ISSN 0960894X, 2015-10-01, 25, 19, pp. 4185-4190., Registrované v: SCOPUS
20. [1.2] SINGH, Anoop S. - MISHRA, Kunj B. - MISHRA, Amrita - TIWARI, Vinod K. Synthesis of Diverse Carbohydrate-Based Molecules using Click Chemistry. In *Click Reactions in Organic Synthesis*, 2016-08-29, pp. 161-201., Registrované v: SCOPUS

ADCA1052 POLÁKOVÁ, Monika - JONIAK, Dušan - ĎURIŠ, M.. Synthesis and acid-catalyzed hydrolysis of some 3-(4-methoxyphenyl)propyl glucuronates. In *Collection of Czechoslovak Chemical Communications*, 2000, vol. 65, p. 1609-1618. (2000 - Current Contents). ISSN 0010-0765. Dostupné na: <https://doi.org/10.1135/cccc20001609>

Ohlasy:

1. [1.1] LOPATKIEWICZ, Grzegorz - MLYNARSKI, Jacek. Synthesis of L-Pyranosides by Hydroboration of Hex-5-enopyranosides Revisited. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2016, vol. 81, no. 17, pp. 7545-7556., Registrované v: WOS
2. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS

ADCA1053 POLÁKOVÁ, Monika - BELÁŇNOVÁ, M. - PETRUŠ, Ladislav - MIKUŠOVÁ, K. Synthesis of alkyl and cycloalkyl alfa-D-mannopyranosides and derivates there of and their evaluation in the mycobacterial mannosyltransferase assay. In *Carbohydrate Research*, 2010, vol. 345, p. 1339-1347. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2010.03.011>

Ohlasy:

1. [1.1] ARIPIN, Nurul Fadhilah Kamalul - HEAP, Jonathan Maclean - PINOL, Rafael - MANICKAM-ACHARI, Vijayan - MARTINEZ-FELIPE, Alfonso. Unveiling the hydrogen bonding network in liquid crystalline natural-based glycosides containing polymeric complexes: Experimental and theoretical assessment. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*. ISSN 0927-7757, 2020, vol. 596, no., pp. Dostupné na:

- <https://doi.org/10.1016/j.colsurfa.2020.124685>., Registrované v: WOS
2. [1.1] LEGENTIL, Laurent - CABEZAS, Yari - TASSEAU, Olivier - TELLIER, Charles - DALIGAULT, Franck - FERRIERES, Vincent. Regioselective Galactofuranosylation for the Synthesis of Disaccharide Patterns Found in Pathogenic Microorganisms. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 14, pp. 7114-7122., Registrované v: WOS
3. [1.1] MANHAS, Sanjay - TAYLOR, Mark S. Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 21, pp. 11406-11417., Registrované v: WOS
4. [1.1] PATRICK, Melonney - ZAHID, N. Idayu - KRIECHBAUM, Manfred - HASHIM, Rauzah. Guerbet glycolipids from mannose: liquid crystals properties. In LIQUID CRYSTALS. ISSN 0267-8292, 2018, vol. 45, no. 13-15, pp. 1970-1986., Registrované v: WOS
5. [1.1] SLAVKO, Ekaterina - TAYLOR, Mark S. Site-Selective, Organoboron-Catalyzed Polymerization of Pyranosides: Access to Sugar-Derived Polyesters with Tunable Properties. In MACROMOLECULES. ISSN 0024-9297, 2020, vol. 53, no. 19, pp. 8192-8201. Dostupné na: <https://doi.org/10.1021/acs.macromol.0c01686>., Registrované v: WOS
6. [1.1] ZHANG, Yanhua - CHEN, Langqiu - WU, Xiubing. Thermotropic liquid crystalline and surface-active properties of n-alkyl alpha-D-mannopyranosides. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2018, vol. 269, no., pp. 947-955., Registrované v: WOS

ADCA1054 POLÁKOVÁ, Monika - STANTON, Rhiannon - WILSON, Iain B.H. - HOLKOVÁ, Ivana - ŠESTÁK, Sergej - MACHOVÁ, Eva - JANDOVÁ, Zuzana - KÓŇA, Juraj. „Click chemistry” synthesis of 1-(α -D-mannopyranosyl)-1,2,3-triazoles for inhibition of α -mannosidases. In *Carbohydrate Research*, 2015, vol.406, p. 34-40. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2015.01.004>

Ohlasy:

1. [1.1] AY, Kadir - ISPARTALOGLU, Beyza - HALAY, Erkan - AY, Emriye - YASA, Ihsan - KARAYILDIRIM, Tamer. Synthesis and antimicrobial evaluation of sulfanilamide- and carbohydrate-derived 1,4-disubstitued-1,2,3-triazoles via click chemistry. In MEDICINAL CHEMISTRY RESEARCH. ISSN 1054-2523, 2017, vol. 26, no. 7, pp. 1497-1505., Registrované v: WOS
2. [1.1] BALBAA, Mahmoud - AWAD, Doaa - ABD ELAAL, Ahmad - MAHSOUB, Shima - MOHARRAM, Mayssaa - SADEK, Omayma - REZKI, Nadjat - AOUAD, Mohamed Reda - BADAWY, Mohamed El-Taher Ibrahim - EL ASHRY, El Sayed Helmy. Action of Thioglycosides of 1,2,4-Triazoles and Imidazoles on the Oxidative Stress and Glycosidases in Mice with Molecular Docking. In LETTERS IN DRUG DESIGN & DISCOVERY. ISSN 1570-1808, 2019, vol. 16, no. 6, pp. 696-710., Registrované v: WOS
3. [1.1] DANTAS, Rafael F. - SENGGER, Mario R. - CARDOSO, Mariana F. C. - FERREIRA, Vitor F. - DE SOUZA, Maria Cecilia B. - SILVA, Fernando de C. - SILVA JR, Floriano P. Screening of 1,2-furanonaphthoquinones 1,2,3-1H-triazoles for glycosidases inhibitory activity and free radical scavenging

potential: an insight in anticancer activity. In MEDICINAL CHEMISTRY RESEARCH. ISSN 1054-2523, 2019, vol. 28, no. 9, pp. 1579-1588.,

Registrované v: WOS

4. [1.1] HE, Xiao-Peng - ZENG, Ya-Li - ZANG, Yi - LI, Jia - FIELD, Robert A. - CHEN, Guo-Rong. Carbohydrate CuAAC click chemistry for therapy and diagnosis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 429, no., pp. 1-22., Registrované v: WOS

5. [1.1] CHITTELA, Sravanthi - REDDY, Thurpu Raghavender - KRISHNA, Palakodety Radha - KASHYAP, Sudhir. Ruthenium Catalyzed Stereo/Chemo/Regioselective One-Pot Synthesis of C(2)-C(3) Unsaturated and alpha-D-Mannopyranosyl Sulfones. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 14, pp. 7108-7116.,

Registrované v: WOS

6. [1.1] TIWARI, Vinod K. - MISHRA, Bhuwan B. - MISHRA, Kunj B. - MISHRA, Nidhi - SINGH, Anoop S. - CHEN, Xi. Cu-Catalyzed Click Reaction in Carbohydrate Chemistry. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 5, pp. 3086-3240., Registrované v: WOS

7. [1.2] SINGH, Anoop S. - MISHRA, Kunj B. - MISHRA, Amrita - TIWARI, Vinod K. Synthesis of Diverse Carbohydrate-Based Molecules using Click Chemistry. In Click Reactions in Organic Synthesis, 2016-08-29, pp. 161-201., Registrované v: SCOPUS

ADCA1055 POLAKOVIČ, Milan - ŠVITEL, Juraj - BUČKO, Marek - FILIP, Jaroslav - NEDĚLA, Vilém - ANSORGE-SCHUMACHER, Marion B. - GEMEINER, Peter. Progress in biocatalysis with immobilized viable whole cells: systems development, reaction engineering and applications. In *Biotechnology Letters*, 2017, vol. 39, p. 667-683. (2016: 1.730 - IF, Q3 - JCR, 0.628 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0141-5492.
Dostupné na: <https://doi.org/10.1007/s10529-017-2300-y>

Ohlasy:

1. [1.1] DE VITIS, Valerio - DALL'OGGIO, Federica - TENTORI, Francesca - CONTENTE, Martina Letizia - ROMANO, Diego - BRENNIA, Elisabetta - TAMBORINI, Lucia - MOLINARI, Francesco. Bioprocess Intensification Using Flow Reactors: Stereoselective Oxidation of Achiral 1,3-diols with Immobilized *Acetobacter Aceti*. In CATALYSTS. ISSN 2073-4344, 2019, vol. 9, no. 3, pp., Registrované v: WOS

2. [1.1] FOLEY, Aoife M. - MAGUIRE, Anita R. The Impact of Recent Developments in Technologies which Enable the Increased Use of Biocatalysts. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2019, vol. 2019, no. 23, pp. 3713-3734., Registrované v: WOS

3. [1.1] FUKUZUMI, Shunichi - LEE, Yong-Min - NAM, Wonwoo. Catalytic recycling of NAD(P)H. In JOURNAL OF INORGANIC BIOCHEMISTRY. ISSN 0162-0134, 2019, vol. 199, no., pp., Registrované v: WOS

4. [1.1] GARZON-POSSE, Fabian - BECERRA-FIGUEROA, Liliana - HERNANDEZ-ARIAS, Jose - GAMBA-SANCHEZ, Diego. Whole Cells as Biocatalysts in Organic Transformations. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 6, pp., Registrované v: WOS

5. [1.1] GERARDY, Romaric - DEBECKER, Damien P. - ESTAGER, Julien - LUIS, Patricia - MONBALIU, Jean-Christophe M. Continuous Flow

Upgrading of Selected C-2-C(6) Platform Chemicals Derived from Biomass. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 15, pp. 7219-7347. Dostupné na: <https://doi.org/10.1021/acs.chemrev.9b00846>., Registrované v: WOS

6. [1.1] CHANG, Ya-Wen - ZHANG, Jian-Dong - YANG, Xiao-Xiao - LI, Jing - GAO, Li-Li - HUANG, Shuang-Ping - GUO, Xing-Mei - ZHANG, Cao-Feng - CHANG, Hong-Hong - XU, Jian-He. High throughput solid-phase screening of bacteria with cyclic amino alcohol deamination activity for enantioselective synthesis of chiral cyclic beta-amino alcohols. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1501-1511. Dostupné na: <https://doi.org/10.1007/s10529-020-02869-2>., Registrované v: WOS

7. [1.1] KAZEMZADEH, Somayeh - NAGHAVI, Nafiseh Sadat - EMAMI-KARVANI, Zarrindokht - FOULADGAR, Masoud - EMTIAZI, Giti. Gas chromatography-mass spectrometry analyses of crude oil bioremediation by the novel *Klebsiella variicola* SKV(2) immobilized in polyurethane polymer scaffold and two-layer microcapsulation. In BIOREMEDIATION JOURNAL. ISSN 1088-9868, 2020, vol. 24, no. 2-3, pp. 129-149. Dostupné na: <https://doi.org/10.1080/10889868.2020.1793722>., Registrované v: WOS

8. [1.1] MIRANDA-MOLINA, Alfonso - XOLALPA, Wendy - STROMPEN, Simon - ARREOLA-BARROSO, Rodrigo - OLVERA, Leticia - LOPEZ-MUNGUIA, Agustin - CASTILLO, Edmundo - SAAB-RINCON, Gloria. Deep Eutectic Solvents as New Reaction Media to Produce Alkyl-Glycosides Using Alpha-Amylase from *Thermotoga maritima*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 21, pp., Registrované v: WOS

9. [1.1] OU, Xiao-Yang - WU, Xiao-Ling - PENG, Fei - XU, Pei - ZHANG, Shi-Yu - ZONG, Min-Hua - LOU, Wen-Yong. Highly efficient asymmetric reduction of 2-octanone in biphasic system by immobilized *Acetobacter* sp. CCTCC M209061 cells. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2019, vol. 299, no., pp. 37-43., Registrované v: WOS

10. [1.1] PEREIRA GONCALVES, Maria Carolina - KIECKBUSCH, Theo Guenter - PERNA, Rafael Firmani - FUJIMOTO, Jaqueline Tomie - MORALES, Sergio Andres Villalba - ROMANELLI, Joao Paulo. Trends on enzyme immobilization researches based on bibliometric analysis. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 76, no., pp. 95-110., Registrované v: WOS

11. [1.1] PINTO, Andrea - CONTENTE, Martina Letizia - TAMBORINI, Lucia. Advances on whole-cell biocatalysis in flow. In CURRENT OPINION IN GREEN AND SUSTAINABLE CHEMISTRY. ISSN 2452-2236, 2020, vol. 25, no., pp. Dostupné na: <https://doi.org/10.1016/j.cogsc.2020.04.004>., Registrované v: WOS

12. [1.1] SAKKOS, Jonathan K. - WACKETT, Lawrence P. - AKSAN, Alptekin. Enhancement of biocatalyst activity and protection against stressors using a microbial exoskeleton. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

13. [1.1] SANTILLAN, Julia Yamila - ROJAS, Natalia Lorena - GHIRINGHELLI, Pablo Daniel - NOBILE, Matias Leonardo - LEWKOWICZ, Elizabeth Sandra - IRIBARREN, Adolfo Marcelo. Organophosphorus compounds biodegradation by novel bacterial isolates and their potential

- application in bioremediation of contaminated water. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 317, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.124003>., Registrované v: WOS
14. [1.1] SANTILLAN, J. Y. - MUZLERA, A. - MOLINA, M. - LEWKOWICZ, E. S. - IRIBARREN, A. M. Microbial degradation of organophosphorus pesticides using whole cells and enzyme extracts. In BIODEGRADATION. ISSN 0923-9820, 2020, vol. 31, no. 4-6, pp. 423-433. Dostupné na: <https://doi.org/10.1007/s10532-020-09918-7>., Registrované v: WOS
15. [1.1] SHEMSHEDINOVA, E. Sh. - ABDURAMANOVA, E. R. - MOROZKINA, E. V. - KATSEV, A. M. Luminescent whole-cell biosensors in detection of environmental contaminants (review). In THEORETICAL AND APPLIED ECOLOGY. ISSN 1995-4301, 2020, vol., no. 2, pp. 6-13. Dostupné na: <https://doi.org/10.25750/1995-4301-2020-2-006-013>., Registrované v: WOS
16. [1.1] STOJKOVIC, Gorazd - ZNIDARSIC-PLAZL, Polona. Covalent Immobilization of Microbial Cells on Microchannel Surfaces. In IMMOBILIZATION OF ENZYMES AND CELLS: METHODS AND PROTOCOLS, 4TH EDITION. ISSN 1064-3745, 2020, vol. 2100, no., pp. 417-426. Dostupné na: https://doi.org/10.1007/978-1-0716-0215-7_28., Registrované v: WOS
17. [1.1] TAMBORINI, Lucia - FERNANDES, Pedro - PARADISI, Francesca - MOLINARI, Francesco. Flow Bioreactors as Complementary Tools for Biocatalytic Process Intensification. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 1, pp. 73-88., Registrované v: WOS
18. [1.1] WILTSCHI, Birgit - CERNAVA, Tomislav - DENNIG, Alexander - CASAS, Meritxell Galindo - GEIER, Martina - GRUBER, Steffen - HABERBAUER, Marianne - HEIDINGER, Petra - ACERO, Enrique Herrero - KRATZER, Regina - LULEY-GOEDL, Christiane - MUELLER, Christina A. - PITZER, Julia - RIBITSCH, Doris - SAUER, Michael - SCHMOELZER, Katharina - SCHNITZHOFFER, Wolfgang - SENSEN, Christoph W. - SOH, Jung - STEINER, Kerstin - WINKLER, Christoph K. - WINKLER, Margit - WRIESSNEGGER, Tamara. Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 40, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107520>., Registrované v: WOS
19. [1.1] ZVULUNOV, Yael - BEN-BARAK-ZELAS, Zohar - FISHMAN, Ayelet - RADIAN, Adi. A self-regenerating clay-polymer-bacteria composite for formaldehyde removal from water. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2019, vol. 374, no., pp. 1275-1285., Registrované v: WOS
20. [1.2] NAGY-GYÖR, László - LĂCĂTUȘ, Mihai - BALOGH-WEISER, Diána - CSUKA, Pál - BÓDAI, Viktória - ERDÉLYI, Balázs - MOLNÁR, Zsófia - HORNYÁNSZKY, Gábor - PAIZS, Csaba - POPPE, László. How to Turn Yeast Cells into a Sustainable and Switchable Biocatalyst? On-Demand Catalysis of Ketone Bioreduction or Acyloin Condensation. In ACS Sustainable Chemistry and Engineering, 2019-12-16, 7, 24, pp. 19375-19383., Registrované v: SCOPUS
21. [1.2] XU, Ting Ting - XIANG, Meng - PAN, Yang - WU, Xue Ming. Synthesis of puerarin glycoside over immobilized *Acinetobacter johnsonii* G2

cell in a non-aqueous media. In Xiandai Huagong/Modern Chemical Industry. ISSN 02534320, 2018-04-20, 38, 4, pp. 131-134., Registrované v: SCOPUS 22. [3.1] Pörtner, R (Pörtner, Ralf); Faschian, R (Faschian, Rebecca). Design and Operation of Fixed-Bed Bioreactors for Immobilized Bacterial Culture. In: GROWING AND HANDLING OF BACTERIAL CULTURES (2019), p. 3-13

ADCA1056 POSPÍŠIL, M. - ŠANDULA, Jozef - PÍPALOVÁ, I. - HOFER, M. - VIKLICKÁ, Š. Hemopoiesis stimulating and radioprotective effects of carboxymethylglucan. In *Physiological Research*, 1991, vol. 40, p. 377-380. ISSN 0862-8408.

Ohlasy:

1. [1.1] DA SILVA ARAUJO, Vilma Barbosa - FERREIRA DE MELO, Adma Nadja - DE SOUZA, Neyrijane Targino - BARBOZA DA SILVA, Vania Maria - CASTRO-GOMEZ, Raul H. - SILVA, Alexandre Sergio - DE SOUZA, Evandro Leite - MAGNANI, Marciane. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 8, pp. 14950-14958., Registrované v: WOS

2. [1.1] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 572-579., Registrované v: WOS

ADCA1057 POSPÍŠIL, M. - HOFER, M. - PÍPALOVÁ, I. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Radioprotective effects of glucan can be enhanced by the joint administration of diclofenac. In *Folia biologica*, 1992, vol. 38, supplement, p. S22-S23. ISSN 0015-5500.

Ohlasy:

1. [1.1] CHEKI, Mohsen - YAHYAPOUR, Rasoul - FARHOOD, Bagher - REZAEYAN, Abolhassan - SHABEEB, Dheyauldeen - AMINI, Peyman - REZAPOOR, Saeed - NAJAFI, Masoud. COX-2 in Radiotherapy: A Potential Target for Radioprotection and Radiosensitization. In *CURRENT MOLECULAR PHARMACOLOGY*. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 173-183., Registrované v: WOS

ADCA1058 POSPÍŠIL, M. - HOFER, M. - PÍPALOVÁ, I. - VIKLICKÁ, S. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Enhancement of hematopoietic recovery in gamma-irradiated mice by the joint use of diclofenac, an inhibitor of prostaglandin production, and glucan, a macrophage activator. In *Experimental Hematology*, 1992, vol. 20, p. 891-895. ISSN 0301-472X.

Ohlasy:

1. [1.1] CHEKI, Mohsen - YAHYAPOUR, Rasoul - FARHOOD, Bagher - REZAEYAN, Abolhassan - SHABEEB, Dheyauldeen - AMINI, Peyman - REZAPOOR, Saeed - NAJAFI, Masoud. COX-2 in Radiotherapy: A Potential Target for Radioprotection and Radiosensitization. In *CURRENT MOLECULAR PHARMACOLOGY*. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 173-183., Registrované v: WOS

ADCA1059 POTERYAEVA, O.N. - FALAMEYEVA, O.V. - KOROLENKO, T.A. - KALEDIN, V.I. - DJANAYEVA, S.J. - NOWICKY, J. - ŠANDULA, Jozef. Cysteine proteinase inhibitor level in tumor and normal tissues in control and cured mice. In *Drugs under Experimental and Clinical Research*, 2000, vol. 26, p. 301-306. (2000 - Current Contents). ISSN 0378-6501.

Ohlasy:

1. [1.1] HOLLOWAY, Alex J. - YU, JiehJuen - ARULANANDAM, Bernard P. - HOSKINSON, Sarah M. - EAVES-PYLES, Tonyia. Cystatins 9 and C as a Novel Immunotherapy Treatment That Protects against Multidrug-Resistant New Delhi Metallo-Beta-Lactamase-1-Producing *Klebsiella pneumoniae*. In *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*. ISSN 0066-4804, 2018, vol. 62, no. 3, pp., Registrované v: WOS
2. [1.1] HOLLOWAY, Alex J. - YU, JiehJuen - ARULANANDAM, Bernard P. - MILLIGAN, Gregg N. - EAVES-PYLES, Tonyia D. Combination of Cystatins 9 and C Modulates Serum Biomarkers Associated with Inflammation and Provides Prophylactic as Well as Long-Term Protection against Multidrug-Resistant *Klebsiella pneumoniae*. In *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*. ISSN 0066-4804, 2019, vol. 63, no. 5, pp., Registrované v: WOS

ADCA1060 PRIBULOVÁ, Božena - PETRUŠOVÁ, Mária - PÄTOPRSTÝ, Vladimír - PETRUŠ, Ladislav. Improved method of preparation of glycosylmethylamines. In *Chemical Papers - Chemické zvesti*, 2003, vol. 57, p. 287-291. ISSN 0366-6352.

Ohlasy:

1. [1.1] SOMMER, Roman - HAUCK, Dirk - VARROT, Annabelle - WAGNER, Stefanie - AUDFRAY, Aymeric - PRESTEL, Andreas - MOELLER, Heiko M. - IMBERTY, Anne - TITZ, Alexander. Cinnamide Derivatives of D-Mannose as Inhibitors of the Bacterial Virulence Factor LecB from *Pseudomonas aeruginosa*. In *CHEMISTRYOPEN*. ISSN 2191-1363, 2015, vol. 4, no. 6, pp. 756-767., Registrované v: WOS

ADCA1061 PRISENŽŇÁKOVÁ, Lubica - NOSÁLOVÁ, Gabriela - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. The pharmacological activity of wheat bran polysaccharides. In *Fitoterapia*, 2010, vol. 81, p. 1037-1044. Dostupné na: <https://doi.org/10.1016/j.fitote.2010.06.027>

Ohlasy:

1. [1.1] AKHTAR, Masood - HAMAYUN, Muteen - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. Evaluation of biological response modification and immunotherapeutic activities of barley-derived arabinoxylans against coccidiosis in commercial broilers. In *TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES*. ISSN 1300-0128, 2018, vol. 42, no. 1, pp. 55-64., Registrované v: WOS
2. [1.1] ATTIA, Y. A. - AL-KHALAIFAH, H. - ABD EL-HAMID, H. S. - AL-HARTHI, M. A. - EL-SHAFFEY, A. A. Growth performance, digestibility, intestinal morphology, Carcass traits and meat quality of broilers fed marginal nutrients deficiency-diet supplemented with different levels of active Yeast. In *LIVESTOCK SCIENCE*. ISSN 1871-1413, 2020, vol. 233, no., pp. Dostupné na: <https://doi.org/10.1016/j.livsci.2020.103945>., Registrované v: WOS
3. [1.1] CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi -

- PALANISAMY, Subramanian - TALAPPET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>, Registrované v: WOS
4. [1.1] CILERDZIC, Jasmina - STAJIC, Mirjana - VUKOJEVIC, Jelena - MILOVANOVIC, Ivan - MUZGONJA, Nikolina. Antioxidant and Antifungal Potential of *Pleurotus ostreatus* and *Agrocybe cylindracea* Basidiocarps and Mycelia. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2015, vol. 16, no. 2, pp. 179-186., Registrované v: WOS
5. [1.1] GUO, Xiao - JIN, Yuhong - DU, Jinhua. Extraction and purification of an endo-1,4-beta-xylanase from wheat malt. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 74, no., pp. 218-223., Registrované v: WOS
6. [1.1] CHIMPHANGO, Annie F. A. - MATAVIRE, Thokozani O. Performance and structural comparison of hydrogels made from wheat bran arabinoxylan using enzymatic and coacervation methods as micro-and nano-encapsulation and delivery devices. In BIOMEDICAL MICRODEVICES. ISSN 1387-2176, 2019, vol. 21, no. 4, pp., Registrované v: WOS
7. [1.1] KATILEVICIUTE, Agne - PLAKYS, Gediminas - BUDREVICIUTE, Aida - ONDER, Kamil - DAMIATI, Samar - KODZIUS, Rimantas. A Sight to Wheat Bran: High Value-Added Products. In BIOMOLECULES, 2019, vol. 9, no. 12, pp., Registrované v: WOS
8. [1.1] SUTOVSKA, Martina - CAPEK, Peter - KAZIMIEROVA, Ivana - PAPPOVA, Lenka - JOSKOVA, Marta - MATULOVA, Maria - FRANOVA, Sona - PAWLACZYK, Izabela - GANCARZ, Roman. Echinacea complex chemical view and anti-asthmatic profile. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 175, no., pp. 163-171., Registrované v: WOS
9. [1.1] UCAR, Ruhan C. - SENGUL, Aslihan - CELIKTAS, Melih S. Biorefineries for wheat bran: sustainable utilization and market potential. In SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS. ISSN 2042-8049, 2018, vol., no., pp. 87-124., Registrované v: WOS
10. [1.1] WANG, Rui-Fang - AN, Xiao-Ping - WANG, Yuan - QI, Jing-Wei - ZHANG, Jun - LIU, Yu-Hui - WENG, Mei-Qi - YANG, Yan-Ping - GAO, Ai-Qin. Effects of polysaccharide from fermented wheat bran on growth performance, muscle composition, digestive enzyme activities and intestinal microbiota in juvenile common carp. In AQUACULTURE NUTRITION. ISSN 1353-5773, 2020, vol. 26, no. 4, pp. 1096-1107. Dostupné na: <https://doi.org/10.1111/anu.13067>, Registrované v: WOS
11. [1.1] YAN, Xiaoguang - YE, Ran - CHEN, Ye. Blasting extrusion processing: The increase of soluble dietary fiber content and extraction of soluble-fiber polysaccharides from wheat bran. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 180, no., pp. 106-115., Registrované v: WOS

analysis, 1991, vol. 2, p. 74-76. Dostupné na:
<https://doi.org/10.1002/pca.2800020206>

Ohlasy:

1. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. Treatment of Vinca minor Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS
2. [1.1] ABOUZEID, Sara - HIJAZIN, Tahani - LEWERENZ, Laura - HAENSCH, Robert - SELMAR, Dirk. The genuine localization of indole alkaloids in Vinca minor and Catharanthus roseus. In PHYTOCHEMISTRY. ISSN 0031-9422, 2019, vol. 168, no., pp., Registrované v: WOS
3. [1.1] AHMED, Amal B. - ABDELRAHMAN, Mafia M. - ABDELWAHAB, Nada S. - SALAMA, Fathy M. Stability-Indicating TLC-Densitometric and HPLC Methods for the Simultaneous Determination of Piracetam and Vincamine in the Presence of Their Degradation Products. In JOURNAL OF AOAC INTERNATIONAL. ISSN 1060-3271, 2016, vol. 99, no. 6, pp. 1490-1498., Registrované v: WOS
4. [1.2] PÁLYI, Gyula. Biological chirality. In Biological Chirality, 2019-01-01, pp. 1-257., Registrované v: SCOPUS
5. [1.2] SELMAR, Dirk - KLEINWÄCHTER, Maik - ABOUZEID, Sara - YAHYAZADEH, Mahdi - NOWAK, Melanie. The impact of drought stress on the quality of spice and medicinal plants. In Medicinal Plants and Environmental Challenges, 2017-10-31, pp. 159-175., Registrované v: SCOPUS

ADCA1063 PROKSA, Bohumil - UHRÍNOVÁ, Stanislava - ADAMCOVÁ, J. - FUSKA, J. Hydrogenation of Vermistatin. In *Monatshefte für Chemie*, 1992, vol. 123, p. 251-256. ISSN 0026-9247. Dostupné na:
<https://doi.org/10.1007/BF00810473>

Ohlasy:

1. [1.1] SICIGNANO, Marina - SCHETTINI, Rosaria - SICA, Luisa - PIERRI, Giovanni - DE RICCARDIS, Francesco - IZZO, Irene - MAITY, Bholanath - MINENKOV, Yury - CAVALLO, Luigi - DELLA SALA, Giorgio. Unprecedented Diastereoselective Arylogous Michael Addition of Unactivated Phthalides. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2019, vol. 25, no. 29, pp. 7131-7141., Registrované v: WOS

ADCA1064 PROKSA, Bohumil - UHRÍN, Dušan - KOVÁČIK, Vladimír - VOTICKÝ, Zdeno - BETINA, V. Identity of the antibiotic ramihyphin A and cyclosporin A. In *Folia microbiologica*, 1991, vol. 36, p. 141-143. (1990: 0.545 - IF, Current Contents - CCC). (1991 - Current Contents). ISSN 0015-5632.

Ohlasy:

1. [1.2] TSAI, Ya Chu - TSAI, Tsen Fang. A review of antibiotics and psoriasis: induction, exacerbation, and amelioration. In Expert Review of Clinical Pharmacology. ISSN 17512433, 2019-10-03, 12, 10, pp. 981-989., Registrované v: SCOPUS

ADCA1065 PROKSA, Bohumil - UHRÍN, Dušan - GROSSMANN, E. - VOTICKÝ, Zdeno. New quarternary alkaloids from Vinca minor L. In *Planta*

Medica : an international journal of natural products and medicinal plant research, 1989, vol.55, no., p.188-190. ISSN 0032-0943.

Ohlasy:

1. [1.1] AHMED, Abrar - LI, Wei - CHEN, Fang-Fang - ZHANG, Jun-Sheng - TANG, Ya-Qi - CHEN, Lin - TANG, Gui-Hua - YIN, Sheng. Monoterpene indole alkaloids from *Rhazya stricta*. In *FITOTERAPIA*. ISSN 0367-326X, 2018, vol. 128, no., pp. 1-6., Registrované v: WOS
2. [1.1] BENIDDIR, Mehdi A. - GENTA-JOUE, Gregory - LEWIN, Guy. Resolving the (19R) Absolute Configuration of Lanciferine, a Monoterpene Indole Alkaloid from *Alstonia boullindaensis*. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2018, vol. 81, no. 4, pp. 1075-1078., Registrované v: WOS

ADCA1066 PROKSA, Bohumil - UHRÍN, Dušan - GROSSMANN, E. - VOTICKÝ, Zdeno - FUSKA, J. Relative configuration and cytotoxic activity of vincarubine, a novel bisindole alkaloid from *Vinca minor* L. In *Planta Medica : an international journal of natural products and medicinal plant research*, 1988, vol. 54, p. 214-218. ISSN 0032-0943.

Ohlasy:

1. [1.1] DI PIETRO, Paola. BIOLOGICAL CHIRALITY Foreword (President of the Academy). In *BIOLOGICAL CHIRALITY*, 2020, vol., no., pp. VII-+, Registrované v: WOS
2. [1.1] STANDER, Emily Amor - SEPULVEDA, Liuda Johana - DUGE DE BERNONVILLE, Thomas - CARQUEIJEIRO, Ines - KOUDOUNAS, Konstantinos - LEMOS CRUZ, Pamela - BESSEAU, Sebastien - LANOUE, Arnaud - PAPON, Nicolas - GIGLIOLI-GUIVARC'H, Nathalie - DIRKS, Ron - O'CONNOR, Sarah Ellen - ATEHORTUA, Lucia - OUDIN, Audrey - COURDAVAULT, Vincent. Identifying Genes Involved in Alkaloid Biosynthesis in *Vinca minor* through Transcriptomics and Gene Co-Expression Analysis. In *BIOMOLECULES*, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/biom10121595>., Registrované v: WOS
3. [1.2] PÁLYI, Gyula. Biological chirality. In *Biological Chirality*, 2019-01-01, pp. 1-257., Registrované v: SCOPUS

ADCA1067 PROKSA, Bohumil - UHRÍN, Dušan - ADAMCOVÁ, J. - MÚČKOVÁ, M. - FUSKA, J. Vermiculin derivatives. 1. Synthesis of vermiculin derivatives. In *Pharmazie*, 1993, vol. 48, p. 738-740. ISSN 0031-7144.

Ohlasy:

1. [1.1] STEIB, Philip - BREIT, Bernhard. Enantioselective Rhodium-Catalyzed Dimerization of omega-Alkenyl Carboxylic Acids: Straightforward Synthesis of C-2-Symmetric Macrodilides. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 22, pp. 6572-6576., Registrované v: WOS

ADCA1068 PROKSA, Bohumil - UHRÍN, Dušan - ADAMCOVÁ, J. - FUSKA, J. Vermixocins A and B, two novel metabolites from *Penicillium vermiculatum*. In *Journal of Antibiotics*, 1992, vol. 45, p. 1268-1272. ISSN 0021-8820. Dostupné na: <https://doi.org/10.7164/antibiotics.45.1268>

Ohlasy:

1. [1.1] KOUL, Mytre - SINGH, Shashank. *Penicillium* spp.: prolific

- producer for harnessing cytotoxic secondary metabolites. In ANTI-CANCER DRUGS. ISSN 0959-4973, 2017, vol. 28, no. 1, pp. 11-30., Registrované v: WOS
2. [1.1] WU, Bin - OHLENDORF, Birgit - OESKER, Vanessa - WIESE, Jutta - MALIEN, Susann - SCHMALJOHANN, Rolf - IMHOFF, Johannes F. Acetylcholinesterase Inhibitors from a Marine Fungus *Talaromyces* sp Strain LF458. In MARINE BIOTECHNOLOGY. ISSN 1436-2228, 2015, vol. 17, no. 1, pp. 110-119., Registrované v: WOS
3. [1.1] WU, Chongming - ZHAO, Yang - CHEN, Ran - LIU, Dong - LIU, Mingyue - PROKSCH, Peter - GUO, Peng - LIN, Wenhan. Phenolic metabolites from mangrove-associated *Penicillium pinophilum* fungus with lipid-lowering effects. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 26, pp. 21969-21978., Registrované v: WOS
4. [1.1] YILMAZ, Neriman - LOPEZ-QUINTERO, Carlos A. - MARCELA VASCO-PALACIOS, Aida - FRISVAD, Jens C. - THEELEN, Bart - BOEKHOUT, Teun - SAMSON, Robert A. - HOUBRAKEN, Jos. Four novel *Talaromyces* species isolated from leaf litter from Colombian Amazon rain forests. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2016, vol. 15, no. 10-11, pp. 1041-1056., Registrované v: WOS
5. [1.1] ZHANG, Yao - ZHAO, Lijuan - GUO, Xiaojiang - LI, Chao - LI, Haizhen - LOU, Hongxiang - REN, Dongmei. Chemical constituents from *Phyllanthus emblica* and the cytoprotective effects on H₂O₂-induced PC12 cell injuries. In ARCHIVES OF PHARMACAL RESEARCH. ISSN 0253-6269, 2016, vol. 39, no. 9, pp. 1202-1211., Registrované v: WOS

ADCA1069 PROKSA, Bohumil - UHRÍN, Dušan - GROSSMANN, E. - VOTICKÝ, Zdeno. Vincarubine, a novel bisindole alkaloid from *Vinca minor* L. In *Tetrahedron Letters*, 1986, vol. 27, p. 5413-5416. ISSN 0040-4039.

Ohlasy:

1. [1.1] DEY, Aniruddha - AGASTI, Soumitra - MAITI, Debabrata. Palladium catalysed meta-C-H functionalization reactions. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 24, pp. 5440-5453., Registrované v: WOS
2. [1.1] DI PIETRO, Paola. BIOLOGICAL CHIRALITY Foreword (President of the Academy). In BIOLOGICAL CHIRALITY, 2020, vol., no., pp. VII-+, Registrované v: WOS
3. [1.2] PÁLYI, Gyula. Biological chirality. In Biological Chirality, 2019-01-01, pp. 1-257., Registrované v: SCOPUS

ADCA1070 PROKSA, Bohumil - UHRÍN, Dušan - BATSUREN, D. - BATBAIAR, N. - SELENGE, D. 11-Acetyl-1,19-epoxydenudatine: A new alkaloid from *Aconitum barbatum*. In *Planta medica*, 1990, vol. 56, p. 461-463. ISSN 0032-0943.

Ohlasy:

1. [1.2] ZHANG, Jiao - BAI, Wei - LI, Yu Ze - ZHANG, Li - SONG, Xiao Mei. One new diterpenoid alkaloid from roots of *Aconitum sinomontanum*. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-08-12, 49, 15, pp. 3562-3566., Registrované v: SCOPUS

ADCA1071 PROKSA, Bohumil - UHRÍN, Dušan - ŠTURDÍKOVÁ, M. - FUSKA, J. 1-acetyl-beta-carboline, a new metabolite of *Streptomyces kasugaensis*. In *Acta Biotechnologica*, 1990, vol. 10, p.337-340.

Ohlasy:

1. [1.1] ALBERDI-CEDENO, Jon - IBARGOITIA, Maria L. - GUILLEN, Maria D. Bioactive compounds detected for the first time in corn oil: Cyclic dipeptides and other nitrogenated compounds. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2017, vol. 62, no., pp. 197-204., Registrované v: WOS
2. [1.1] BROBERG, Anders - BJERKETORP, Joakim - ANDERSSON, Pierre - SAHLBERG, Christer - LEVENFORS, Jolanta J. Labradorins with Antibacterial Activity Produced by Pseudomonas sp. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS
3. [1.1] KIM, Yun Sook - SON, Hong-Joo - JEONG, Seong-Yun. Isolation of an algicide from a marine bacterium and its effects against the toxic dinoflagellate Alexandrium catenella and other harmful algal bloom species. In JOURNAL OF MICROBIOLOGY. ISSN 1225-8873, 2015, vol. 53, no. 8, pp. 511-517., Registrované v: WOS
4. [1.1] NASFI, Zina - BUSCH, Henrik - KEHRAUS, Stefan - LINARES-OTOYA, Luis - KOENIG, Gabriele M. - SCHAEBERLE, Till F. - BACHOUAL, Rafik. Soil Bacteria Isolated From Tunisian Arid Areas Show Promising Antimicrobial Activities Against Gram-Negatives. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA1072 PROKSA, B. - UHRÍN, Dušan - ADAMCOVÁ, J. - FUSKA, J.

Oxidation of brefeldin A. In *Pharmazie*, 1992, vol. 47, p. 582-584. ISSN 0031-7144.

Ohlasy:

1. [1.1] PAEK, Seung-Mann. Recent Synthesis and Discovery of Brefeldin A Analogs. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 4, pp., Registrované v: WOS

ADCA1073 PRUSSE, U. - BILANCETTI, L. - BUČKO, Marek - BUGARSKI, B. - BUKOWSKI, J. - GEMEINER, Peter - LEWINSKA, D. - MANOJLOVIC, V. - MASSART, B. - NASTRUZZI, C. - NEDOVIC, V. - PONCELET, D. - SIEBENHAAR, S. - TOBLER, L. - TOSI, A. - VIKARTOVSKÁ, Alica -

VORLOP, K.D. Comparison of different technologies for alginate beads production. In *Chemical papers*, 2008, vol. 62, p. 364-374. (2007: 0.367 - IF, Q4 - JCR, 0.176 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-008-0035-x>

Ohlasy:

1. [1.1] AURIEMMA, Giulia - RUSSO, Paola - DEL GAUDIO, Pasquale - GARCIA-GONZALEZ, Carlos A. - LANDIN, Mariana - AQUINO, Rita Patrizia. Technologies and Formulation Design of Polysaccharide-Based Hydrogels for Drug Delivery. In MOLECULES, 2020, vol. 25, no. 14, pp. Dostupné na: <https://doi.org/10.3390/molecules25143156>., Registrované v: WOS
2. [1.1] BOUHLEL, Wafa - NAGHIB, S. Danial - BIBETTE, Jerome - BREMOND, Nicolas. Convective dispersion of particles in a segmented flow. In PHYSICAL REVIEW FLUIDS. ISSN 2469-990X, 2019, vol. 4, no. 10, pp., Registrované v: WOS
3. [1.1] CALIJA, Bojan - CEKIC, Nebojsa - MILIC, Jela. Influence of Polycation Functional Properties on Polyanion Micro/Nanoparticles for NSAIDs Reinforced Via Polyelectrolyte Complexation: Alginate-Chitosan Case Study. In

- MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS, 2017, vol., no., pp. 133-160., Registrované v: WOS
4. [1.1] CUJIC, Nada - KARDUM, Nevena - SAVIKIN, Katarina - ZDUNIC, Gordana - JANKOVIC, Teodora - MENKOVIC, Nebojsa. Potential of Chokeberry (*Aronia Melanocarpa* L.) as a Therapeutic Food. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 209-237., Registrované v: WOS
 5. [1.1] DARADMARE, Sneha - CHOI, Kyu Hwan - KIM, Jinsoo - PARK, Bum Jun. Preparation of eco-friendly alginate-based Pickering stabilizers using a dual ultrasonic nebulizer spray method. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2020, vol. 84, no., pp. 96-105. Dostupné na: <https://doi.org/10.1016/j.jiec.2019.12.025>., Registrované v: WOS
 6. [1.1] DEL GAUDIO, Pasquale - DE CICCIO, Felicetta - SANSONE, Francesca - AQUINO, Rita Patrizia - ADAMI, Renata - RICCI, Maurizio - GIOVAGNOLI, Stefano. Alginate beads as a carrier for omeprazole/SBA-15 inclusion compound: A step towards the development of personalized paediatric dosage forms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 133, no., pp. 464-472., Registrované v: WOS
 7. [1.1] DEMONT, Aurelie - MARISON, Ian W. Encapsulation via Spinning Disk Technology. In HANDBOOK OF ENCAPSULATION AND CONTROLLED RELEASE, 2016, vol., no., pp. 89-109., Registrované v: WOS
 8. [1.1] DEMONT, Aurelie - MARISON, Ian W. Microencapsulation by Dripping and Jet Break-Up. In HANDBOOK OF ENCAPSULATION AND CONTROLLED RELEASE, 2016, vol., no., pp. 177-199., Registrované v: WOS
 9. [1.1] DHAMECHA, Dinesh - MOVSAS, Rachel - SANO, Ugene - MENON, Jyothi U. Applications of alginate microspheres in therapeutics delivery and cell culture: Past, present and future. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2019, vol. 569, no., pp., Registrované v: WOS
 10. [1.1] DOMEJEAN, Hugo - SAINT PIERRE, Mathieu de la Motte - FUNFAK, Anette - ATRUX-TALLAU, Nicolas - ALESSANDRI, Kevin - NASSOY, Pierre - BIBETTE, Jerome - BREMOND, Nicolas. Controlled production of sub-millimeter liquid core hydrogel capsules for parallelized 3D cell culture. In LAB ON A CHIP. ISSN 1473-0197, 2017, vol. 17, no. 1, pp. 110-119., Registrované v: WOS
 11. [1.1] DURUKSU, Gokhan - POLAT, Selen - KAYIS, Leyla - EKIMCI GURCAN, Nur - GACAR, Gulcin - YAZIR, Yusufhan. Improvement of the insulin secretion from beta cells encapsulated in alginate/poly-L-histidine/alginate microbeads by platelet-rich plasma. In TURKISH JOURNAL OF BIOLOGY. ISSN 1300-0152, 2018, vol. 42, no. 4, pp. 297-306., Registrované v: WOS
 12. [1.1] FILIPPINO, Katherine C. - MULHOLLAND, Margaret R. - BOTT, Charles B. Phycoremediation strategies for rapid tertiary nutrient removal in a waste stream. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2015, vol. 11, no., pp. 125-133., Registrované v: WOS
 13. [1.1] GANESAN, Kathirvel - BUDTOVA, Tatiana - RATKE, Lorenz - GURIKOV, Pavel - BAUDRON, Victor - PREIBISCH, Imke - NIEMEYER, Philipp - SMIRNOVA, Irina - MILOW, Barbara. Review on the Production of

- Polysaccharide Aerogel Particles. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 11, pp., Registrované v: WOS
14. [1.1] GOMEZ-MASCARAQUE, Laura G. - MARTINEZ-SANZ, Marta - JOSE FABRA, Maria - LOPEZ-RUBIO, Amparo. Development of gelatin-coated iota-carrageenan hydrogel capsules by electric field-aided extrusion. Impact of phenolic compounds on their performance. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 90, no., pp. 523-533., Registrované v: WOS
15. [1.1] HSU, Bryan B. - PLANT, Isaac N. - LYON, Lorena - ANASTASSACOS, Frances M. - WAY, Jeffrey C. - SILVER, Pamela A. In situ reprogramming of gut bacteria by oral delivery. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18614-2>., Registrované v: WOS
16. [1.1] HUMBERT, Pascal - PRZYKLENK, Michael - VEMMER, Marina - SCHUMANN, Mario - VIDAL, Stefan - PATEL, Anant V. Technical scale production of encapsulated *Saccharomyces cerevisiae* and *Metarhizium brunneum* attractive to wireworms. In BIOCONTROL SCIENCE AND TECHNOLOGY. ISSN 0958-3157, 2017, vol. 27, no. 9, pp. 1049-1070., Registrované v: WOS
17. [1.1] CHING, Su Hung - BANSAL, Nidhi - BHANDARI, Bhesh. Alginate gel particles-A review of production techniques and physical properties. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 6, pp. 1133-1152., Registrované v: WOS
18. [1.1] CHOLEWINSKI, Aleksander - YANG, Fut K. - ZHAO, Boxin. Underwater Contact Behavior of Alginate and Catechol-Conjugated Alginate Hydrogel Beads. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 34, pp. 8353-8361., Registrované v: WOS
19. [1.1] IACOVACCI, Veronica - RICOTTI, Leonardo - MENCIASSI, Arianna - DARIO, Paolo. The bioartificial pancreas (BAP): Biological, chemical and engineering challenges. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2016, vol. 100, no., pp. 12-27., Registrované v: WOS
20. [1.1] KAMALDEEN, O. S. - ARIAHU, C. C. - YUSUFU, M. Application of soy protein isolate and cassava starch based film solutions as matrix for ionic encapsulation of carrot powders. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2020, vol. 57, no. 11, pp. 4171-4181. Dostupné na: <https://doi.org/10.1007/s13197-020-04455-w>., Registrované v: WOS
21. [1.1] KAMPERMAN, Tom - KARPERIEN, Marcel - LE GAC, Severine - LEIJTEN, Jeroen. Single-Cell Microgels: Technology, Challenges, and Applications. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 8, pp. 850-865., Registrované v: WOS
22. [1.1] KANG, Sung-Min - RETHINASABAPATHY, Muruganantham - LEE, Go-Woon - KWAK, Cheol Hwan - PARK, Bumjun - KIM, Woo-Sik - HUH, Yun Suk. Generation of multifunctional encoded particles using a tetrapod microneedle injector. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2019, vol. 74, no., pp. 164-171., Registrované v: WOS
23. [1.1] KLAUS, Anita - KOZARSKI, Maja - VUNDUK, Jovana - TODOROVIC, Nina - JAKOVLJEVIC, Dragica - ZIZAK, Zeljko - PAVLOVIC, Vladimir - LEVIC, Steva - NIKSIC, Miomir - VAN GRIENSVEN, Leo J. L. D.

- Biological potential of extracts of the wild edible Basidiomycete mushroom *Grifola frondosa*. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2015, vol. 67, no., pp. 272-283., Registrované v: WOS
24. [1.1] KRAJISNIK, Danina - CALIJA, Bojan - CEKIC, Nebojsa. Polymeric Microparticles and Inorganic Micro/Nanoparticulate Drug Carriers: An Overview and Pharmaceutical Application. In *MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS*, 2017, vol., no., pp. 31-67., Registrované v: WOS
25. [1.1] LAPORTE, Camille - TUBBS, Emily - PIERRON, Maxime - GALLEGO, Amanda - MOISAN, Anaick - LAMARCHE, Frederic - LOZANO, Tamara - HERNANDEZ, Andrea - COTTET-ROUSSELLE, Cecile - GAUCHEZ, Anne-Sophie - PERSONS, Virginie - BOTTAUSCI, Frederic - FONTELAYE, Caroline - BOIZOT, Francois - LABLANCHE, Sandrine - RIVERA, Florence. Improved human islets' viability and functionality with mesenchymal stem cells and arg-gly-asp tripeptides supplementation of alginate micro-encapsulated islets in vitro. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2020, vol. 528, no. 4, pp. 650-657. Dostupné na: <https://doi.org/10.1016/j.bbrc.2020.05.107>., Registrované v: WOS
26. [1.1] LEE, Boon-Beng - BHANDARI, Bhesh R. - HOWES, Tony. Air Extrusion System for Ionotropic Alginate Microgel Particle Formation: A Review. In *CHEMICAL ENGINEERING & TECHNOLOGY*. ISSN 0930-7516, 2016, vol. 39, no. 12, pp. 2355-2369., Registrované v: WOS
27. [1.1] LI, Qian - XUE, Fangfang - QU, Junle - LIU, Liwei - HU, Rui - LIU, Chenguang. Nano-in-Micro Delivery System Prepared by Co-Axial Air Flow for Oral Delivery of Conjugated Linoleic Acid. In *MARINE DRUGS*. ISSN 1660-3397, 2019, vol. 17, no. 1, pp., Registrované v: WOS
28. [1.1] MARRA, Francesco - DE VIVO, Angela - SARGHINI, Fabrizio. Virtualization of fluid-dynamics in micro-air assisted extruders for food microfluidic based encapsulation. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2017, vol. 213, no., pp. 89-98., Registrované v: WOS
29. [1.1] MILIC, Jela - CALIJA, Bojan - DORDEVIC, Sanela M. Diversity and Functionality of Excipients for Micro/Nanosized Drug Carriers. In *MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS*, 2017, vol., no., pp. 95-132., Registrované v: WOS
30. [1.1] NEMETHOVA, Veronika - LACIK, Igor - RAZGA, Filip. Vibration technology for cell encapsulation: viscosity as the Achilles heel. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 9, pp. 1563-1567., Registrované v: WOS
31. [1.1] PAULO, Bruna Barbon - RAMOS, Fernanda de Melo - PRATA, Ana Silvia. An investigation of operational parameters of jet cutting method on the size of Ca-alginate beads. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2017, vol. 40, no. 6, pp., Registrované v: WOS
32. [1.1] PREIBISCH, Imke - NIEMEYER, Philipp - YUSUFOGLU, Yusuf - GURIKOV, Pavel - MILOW, Barbara - SMIRNOVA, Irina. Polysaccharide-Based Aerogel Bead Production via Jet Cutting Method. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 8, pp., Registrované v: WOS

33. [1.1] RUEDINGER, Ferdinand - LAVRENTIEVA, Antonina - BLUME, Cornelia - PEPELANOVA, Iliyana - SCHEPER, Thomas. Hydrogels for 3D mammalian cell culture: a starting guide for laboratory practice. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 2, pp. 623-636., Registrované v: WOS
34. [1.1] SHIN, Bom Yi - KIM, Jaeyun. Controlled Remodeling of Hydrogel Networks and Subsequent Crosslinking: A Strategy for Preparation of Alginate Hydrogels with Ultrahigh Density and Enhanced Mechanical Properties. In *MACROMOLECULAR CHEMISTRY AND PHYSICS*. ISSN 1022-1352, 2015, vol. 216, no. 8, pp. 914-921., Registrované v: WOS
35. [1.1] SHISHIR, Mohammad Rezaul Islam - XIE, Lianghua - SUN, Chongde - ZHENG, Xiaodong - CHEN, Wei. Advances in micro and nano-encapsulation of bioactive compounds using biopolymer and lipid-based transporters. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2018, vol. 78, no., pp. 34-60., Registrované v: WOS
36. [1.1] SOTOMAYOR-GERDING, Daniela - MIGUEL TRONCOSO, Jose - PINO, Alejandro - ALMENDRAS, Felipe - RUBILAR DIAZ, Monica. Assessing the Immune Response of Atlantic Salmon (*Salmo salar*) after the Oral Intake of Alginate-Encapsulated *Piscirickettsia salmonis* Antigens. In *VACCINES*, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/vaccines8030450>., Registrované v: WOS
37. [1.1] STROBEL, Scott A. - KNOWLES, Lucille - NITIN, Nitin - SCHER, Herbert B. - JEOH, Tina. Comparative technoeconomic process analysis of industrial-scale microencapsulation of bioactives in cross-linked alginate. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2020, vol. 266, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfoodeng.2019.109695>., Registrované v: WOS
38. [1.1] SWIOKLO, Stephen - CONSTANTINESCU, Andrei - CONNON, Che J. Alginate-Encapsulation for the Improved Hypothermic Preservation of Human Adipose-Derived Stem Cells. In *STEM CELLS TRANSLATIONAL MEDICINE*. ISSN 2157-6564, 2016, vol. 5, no. 3, pp. 339-349., Registrované v: WOS
39. [1.1] VISSER, Claas Willem - KAMPERMAN, Tom - KARBAAT, Lisanne P. - LOHSE, Detlef - KARPERIEN, Marcel. In-air microfluidics enables rapid fabrication of emulsions, suspensions, and 3D modular (bio)materials. In *SCIENCE ADVANCES*. ISSN 2375-2548, 2018, vol. 4, no. 1, pp., Registrované v: WOS
40. [1.1] WU, Qionglin - ZHANG, Tao - XUE, Yong - XUE, Changhu - WANG, Yuming. Preparation of alginate core shell beads with different M/G ratios to improve the stability of fish oil. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 80, no., pp. 304-310., Registrované v: WOS
41. [1.1] ZHU, Haitao - YU, Liang - HE, Yayi - LYU, Yi - WANG, Bo. Microencapsulated Pig Islet Xenotransplantation as an Alternative Treatment of Diabetes. In *TISSUE ENGINEERING PART B-REVIEWS*. ISSN 1937-3368, 2015, vol. 21, no. 5, pp. 474-489., Registrované v: WOS
42. [1.2] BERNINGER, Teresa - MITTER, Birgit - PREININGER, Claudia. The smaller, the better? the size effect of alginate beads carrying plant growth-promoting bacteria for seed coating. In *Journal of Microencapsulation*. ISSN 02652048, 2016-02-17, 33, 2, pp. 127-136., Registrované v: SCOPUS

43. [1.2] ČUJIĆ, Nada - TRIFKOVIĆ, Kata - BUGARSKI, Branko - IBRIĆ, Svetlana - PLJEVLJAKUŠIĆ, Dejan - ŠAVIKIN, Katarina. Chokeberry (*Aronia melanocarpa* L.) extract loaded in alginate and alginate/inulin system. In *Industrial Crops and Products*. ISSN 09266690, 2016-08-01, 86, pp. 120-131., Registrované v: SCOPUS
44. [1.2] CHA, Thye San - CHEE, Jeng Yang - LOH, Saw Hong - JUSOH, Malinna. Oil production and fatty acid composition of *Chlorella vulgaris* cultured in nutrient-enriched solid-agar-based medium. In *Bioresource Technology Reports*, 2018-09-01, 3, pp. 218-223., Registrované v: SCOPUS
45. [1.2] Microencapsulation of probiotics. In *Encapsulation and Controlled Release Technologies in Food Systems: Second Edition*, 2016-03-11, pp. 97-128., Registrované v: SCOPUS
46. [1.2] TIAN, Wenjing - ZHU, Yingdan - YUE, Linfang - ZHANG, Heping - WANG, Junguo. Research status on microcapsulation technology of probiotics. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2016-08-30, 16, 8, pp. 186-194., Registrované v: SCOPUS

ADCA1074 PŘIBYLOVÁ, L. - FARKAŠ, Vladimír - SLANINOVÁ, I. - DE MONTIGNY, J. - SYCHROVÁ, H. Differences in osmotolerant and cell-wall properties of two *Zygosaccharomyces rouxii* strains. In *Folia microbiologica*, 2007, vol. 52, p. 241-245. (2006: 0.963 - IF, Q3 - JCR, 0.382 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02931305>

Ohlasy:

1. [1.2] LEONG, Su lin L. - LANTZ, Henrik - PETTERSSON, Olga V. - FRISVAD, Jens C. - THRANE, Ulf - HEIPIEPER, Hermann J. - DIJKSTERHUIS, Jan - GRABHERR, Manfred - PETTERSSON, Mats - TELLGREN-ROTH, Christian - SCHNÜRER, Johan. Genome and physiology of the ascomycete filamentous fungus *Xeromyces bisporus*, the most xerophilic organism isolated to date. In *Environmental Microbiology*. ISSN 14622912, 2015-01-01, 17, 2, pp. 496-513., Registrované v: SCOPUS
2. [1.2] SHARMA, Akshya - SHARMA, Sukesh Chander. Physiological Basis for the Tolerance of Yeast *Zygosaccharomyces bisporus* to Salt Stress. In *HAYATI Journal of Biosciences*. ISSN 19783019, 2017-01-01, 24, 4, pp. 176-181., Registrované v: SCOPUS

ADCA1075 PUCHART, Vladimír - BIELY, Peter. A simple enzymatic synthesis of 4-nitrophenyl beta-1,4-D-xylobioside a chromogenic substrate for assay and differentiation. In *Journal of Biotechnology*, 2007, vol. 128, p. 576-586. (2006: 2.600 - IF, Q2 - JCR, 1.109 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2006.12.011>

Ohlasy:

1. [1.1] XIA, Wei - SHI, Pengjun - XU, Xinxin - QIAN, Lichun - CUI, Ying - XIA, Mengjuan - YAO, Bin. High Level Expression of a Novel Family 3 Neutral beta-Xylosidase from *Humicola insolens* Y1 with High Tolerance to D-Xylose. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 2, pp., Registrované v: WOS

ADCA1076 PUCHART, Vladimír - BERRIN, Jean-Guy - HAON, Mireille - BIELY, Peter. A unique CE16 acetyl esterase from *Podospora anserina* active on

polymeric xylan. In *Applied Microbiology and Biotechnology*, 2015, vol. 99, p. 10515-10526. (2014: 3.337 - IF, Q1 - JCR, 1.332 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-015-6934-1>

Ohlasy:

1. [1.1] HE, Z. - CHEN, H. - LIANG, L. - DONG, J. - LIANG, Z. - ZHAO, L. Alteration of crop rotation in continuous Pinellia ternate cropping soils profiled via fungal ITS amplicon sequencing. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2019, vol. 68, no. 6, pp. 522-529.,

Registrované v: WOS

2. [1.1] KOUTANIEMI, Sanna - TENKANEN, Maija. Action of three GH51 and one GH54 alpha-arabinofuranosidases on internally and terminally located arabinofuranosyl branches. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2016, vol. 229, no., pp. 22-30., Registrované v: WOS

3. [1.1] LIU, Shiping - DING, Shaojun. Replacement of carbohydrate binding modules improves acetyl xylan esterase activity and its synergistic hydrolysis of different substrates with xylanase. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2016, vol. 16, no., pp., Registrované v: WOS

4. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

5. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospira anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS

6. [1.1] NAGAO, Tatsuhiko - KUMABE, Ayako - KOMATSU, Fumika - YAGI, Hisashi - SUZUKI, Hirokazu - OHSHIRO, Takashi. Gene identification and characterization of fucoidan deacetylase for potential application to fucoidan degradation and diversification. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2017, vol. 124, no. 3, pp. 277-282., Registrované v: WOS

7. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

8. [1.2] KUMAR, Santhosh - ARUMUGAM, Nanthakumar - PERMAUL, Kugenthiren - SINGH, Suren. Thermostable enzymes and their industrial applications. In *Microbial Biotechnology: An Interdisciplinary Approach*, 2016-12-01, pp. 115-162., Registrované v: SCOPUS

ADCA1077 PUCHART, Vladimír - FRAŇOVÁ, Lucia - MORKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter**. Action of different types of endoxylanases on eucalyptus xylan in situ. In *Applied Microbiology and Biotechnology*, 2018, vol. 102, p. 1725-1736. (2017: 3.340 - IF, Q2 - JCR, 1.182 -

SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-017-8722-6>

Ohlasy:

1. [1.1] ARNAUD, B. - DURAND, S. - FANUEL, M. - GUILLON, F. - MECHIN, V - ROGNIAUX, H. Imaging Study by Mass Spectrometry of the Spatial Variation of Cellulose and Hemicellulose Structures in Corn Stalks. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 13, pp. 4042-4050. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b07579>., Registrované v: WOS
2. [1.1] BHARDWAJ, Nisha - KUMAR, Bikash - VERMA, Pradeep. A detailed overview of xylanases: an emerging biomolecule for current and future prospective. In BIORESOURCES AND BIOPROCESSING, 2019, vol. 6, no. 1, pp., Registrované v: WOS
3. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS
4. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
5. [1.1] LI, Shuli - HUANG, Weiwei - CHANG, Juan - WANG, Ping - YIN, Qingqiang - LIU, Chaoqi - WANG, Erzhu - LU, Fushan. XYLANASE GENE MUTATION BY ERROR-PRONE PCR AND EXPRESSION IN *Pichia pastoris*. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2018, vol. 34, no. 3, pp. 1369-1377., Registrované v: WOS

ADCA1078 PUCHART, Vladimír - AGGER, Jane W. - BERRIN, Jean-Guy - VÁRNAI, Anikó - WESTERENG, Borge - BIELY, Peter. Comparison of fungal carbohydrate esterases of family CE16 on artificial and natural substrates. In *Journal of Biotechnology*, 2016, vol. 233, p.228-236. (2015: 2.667 - IF, Q2 - JCR, 1.068 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2016.07.003>

Ohlasy:

1. [1.1] LASSFOLK, Robert - RAHKILA, Jani - JOHANSSON, Mikael P. - EKHOLM, Filip S. - WARNA, Johan - LEINO, Reko. Acetyl Group Migration across the Saccharide Units in Oligomannoside Model Compound. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 4, pp. 1646-1654., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN

- 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
3. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
4. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
5. [1.1] XIE, Chunliang - GONG, Wenbing - ZHU, Zuohua - YAN, Li - HU, Zhenxiu - PENG, Yuande. Comparative transcriptomics of *Pleurotus eryngii* reveals blue-light regulation of carbohydrate-active enzymes (CAZymes) expression at primordium differentiated into fruiting body stage. In *GENOMICS*. ISSN 0888-7543, 2018, vol. 110, no. 3, pp. 201-209., Registrované v: WOS

ADCA1079 PUCHART, Vladimír - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan 3-O-acetylated on uronic acid-substituted xylopyranosyl residues and its hydrolysis by GH10, GH11 and GH30 endoxylanases. In *Carbohydrate Polymers*, 2019, vol. 205, p. 217-224. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.10.043>

Ohlasy:

1. [1.1] LIU, Xueqiang - YANG, Shaoqing - MA, Junwen - YU, Jing - YAN, Qiaojuan - JIANG, Zhengqiang. Efficient production of acetylated xylooligosaccharides from Hawthorn kernels by a xylanase from *Paecilomyces aeruginus*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112962>., Registrované v: WOS
2. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
3. [1.1] WIERZBICKI, Martin P. - MALONEY, Victoria - MIZRACHI, Eshchar - MYBURG, Alexander A. Xylan in the Middle: Understanding Xylan Biosynthesis and Its Metabolic Dependencies Toward Improving Wood Fiber for Industrial Processing. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2019, vol. 10, no., pp., Registrované v: WOS

ADCA1080 PUCHART, Vladimír. Glycoside phosphorylases: Structure, catalytic properties and biotechnological potential. In *Biotechnology Advances*, 2015, vol. 33, p. 261-276. (2014: 9.015 - IF, Q1 - JCR, 2.941 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2015.02.002>

Ohlasy:

1. [1.1] ADHARIS, Azis - PETROVIC, Dejan M. - OZDAMAR, Ibrahim - WOORTMAN, Albert J. J. - LOOS, Katja. Environmentally friendly pathways towards the synthesis of vinyl-based oligocelluloses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 193, no., pp. 196-204., Registrované v: WOS
2. [1.1] BEHABTU, Natnael - KRALJ, Slavko. Enzymatic Polymerization Routes to Synthetic-Natural Materials: A Review. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 27, pp. 9947-9954. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01664>., Registrované v: WOS
3. [1.1] BENKOULOUCHE, Mounir - FAURE, Regis - REMAUD-SIMEON, Magali - MOULIS, Claire - ANDRE, Isabelle. Harnessing glycoenzyme engineering for synthesis of bioactive oligosaccharides. In INTERFACE FOCUS. ISSN 2042-8898, 2019, vol. 9, no. 2, pp., Registrované v: WOS
4. [1.1] BOLIVAR, Juan M. - LULEY-GOEDL, Christiane - LEITNER, Ernestine - SAWANGWAN, Thorntana - NIDETZKY, Bernd. Production of glucosyl glycerol by immobilized sucrose phosphorylase: Options for enzyme fixation on a solid support and application in microscale flow format. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 257, no., pp. 131-138., Registrované v: WOS
5. [1.1] DANBY, Phillip M. - WITHERS, Stephen G. Advances in Enzymatic Glycoside Synthesis. In ACS CHEMICAL BIOLOGY. ISSN 1554-8929, 2016, vol. 11, no. 7, pp. 1784-1794., Registrované v: WOS
6. [1.1] DIRKS-HOFMEISTER, Mareike E. - VERHAEGHE, Tom - DE WINTER, Karel - DESMET, Tom. Creating Space for Large Acceptors: Rational Biocatalyst Design for Resveratrol Glycosylation in an Aqueous System. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2015, vol. 54, no. 32, pp. 9289-9292., Registrované v: WOS
7. [1.1] DUCATTI, Diogo R. B. - CARROLL, Madison A. - JAKEMAN, David L. On the phosphorylase activity of GH3 enzymes: A beta-N-acetylglucosaminidase from *Herbaspirillum seropedicae* SmR1 and a glucosidase from *Saccharopolyspora erythraea*. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 435, no., pp. 106-112., Registrované v: WOS
8. [1.1] FRANCEUS, Jorick - CAPRA, Nikolas - DESMET, Tom - THUNNISSEN, Andy-Mark W. H. Structural Comparison of a Promiscuous and a Highly Specific Sucrose 6(F)-Phosphate Phosphorylase. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, 2019, vol. 20, no. 16, pp., Registrované v: WOS
9. [1.1] FRANCEUS, Jorick - DESMET, Tom. Sucrose Phosphorylase and Related Enzymes in Glycoside Hydrolase Family 13: Discovery, Application and Engineering. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 7, pp. Dostupné na: <https://doi.org/10.3390/ijms21072526>., Registrované v: WOS
10. [1.1] FRANCEUS, Jorick - PINEL, Denise - DESMET, Tom. Glucosylglycerate Phosphorylase, an Enzyme with Novel Specificity Involved in Compatible Solute Metabolism. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 19, pp., Registrované v:

WOS

11. [1.1] FUSHINOBU, Shinya. Crystal Structures of Carbohydrate-active Enzymes with Potential for Practical Oligosaccharide Synthesis. In INTERNATIONAL JOURNAL OF MICROGRAVITY SCIENCE AND APPLICATION. ISSN 0915-3616, 2017, vol. 34, no. 1, pp., Registrované v: WOS
12. [1.1] GONZALEZ-RIOS, Jorge A. - PEDRAZA-CHAVERRI, Jose - MEDINA-CAMPOS, Omar N. - REINA, Miguel - ROMERO, Yanet - MARTINEZ, Ana - LOPEZ-MUNGUIA, Agustin - CASTILLO, Edmundo. The influence of the carbohydrate anomeric linkage on the free radical scavenging activity of enzymatically-synthesized phenolic glycosides. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 51, pp. 45452-45461., Registrované v: WOS
13. [1.1] CHEN, Li-Ye - WU, Li-Ping - ZHANG, Hong-Li - GAO, Yu-Bing - GAI, Jing-Gang. Tris(hydroxymethyl) aminomethane polyamide thin-film-composite antifouling reverse osmosis membrane. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 8, pp., Registrované v: WOS
14. [1.1] KADOKAWA, Jun-ichi - CHIGITA, Hirotaka - YAMAMOTO, Kazuya. Chemoenzymatic synthesis of carboxylate-terminated maltooligosaccharides and their use for cross-linking of chitin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 510-516. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.082>., Registrované v: WOS
15. [1.1] KADOKAWA, Jun-ichi - NAKAMURA, Shota - YAMAMOTO, Kazuya. Thermostable alpha-Glucan Phosphorylase-Catalyzed Enzymatic Copolymerization to Produce Partially 2-Deoxygenated Amyloses. In PROCESSES, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091070>., Registrované v: WOS
16. [1.1] KADOKAWA, Jun-ichi. Precision Synthesis of Functional Polysaccharide Materials by Phosphorylase-Catalyzed Enzymatic Reactions. In POLYMERS. ISSN 2073-4360, 2016, vol. 8, no. 4, pp., Registrované v: WOS
17. [1.1] KADOKAWA, Jun-ichi. alpha-Glucan Phosphorylase: A Useful Catalyst for Precision Enzymatic Synthesis of Oligo- and Polysaccharides. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2017, vol. 21, no. 13, pp. 1192-1204., Registrované v: WOS
18. [1.1] KADOKAWA, Jun-ichi. alpha-Glucan Phosphorylase-Catalyzed Enzymatic Reactions Using Analog Substrates to Synthesize Non-Natural Oligo- and Polysaccharides. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 10, pp., Registrované v: WOS
19. [1.1] KADOKAWA, Jun-ichi. Enzymatic preparation of functional polysaccharide hydrogels by phosphorylase catalysis. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2018, vol. 90, no. 6, pp. 1045-1054., Registrované v: WOS
20. [1.1] KADOKAWA, Jun-ichi. Synthesis of Amylosic Supramolecular Materials by Glucan Phosphorylase-Catalyzed Enzymatic Polymerization According to the Vine-Twining Approach. In SYNLETT. ISSN 0936-5214, 2020, vol. 31, no. 7, pp. 648-656. Dostupné na: <https://doi.org/10.1055/s-0039-1690804>., Registrované v: WOS
21. [1.1] KITAOKA, Motomitsu. Diversity of phosphorylases in glycoside hydrolase families. In APPLIED MICROBIOLOGY AND

BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 20, pp. 8377-8390.,
Registrované v: WOS

22. [1.1] KRUSCHITZ, Andreas - NIDETZKY, Bernd. Downstream processing technologies in the biocatalytic production of oligosaccharides. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107568>., Registrované v: WOS

23. [1.1] KRUSCHITZ, Andreas - NIDETZKY, Bernd. Reactive extraction of fructose for efficient separation of sucrose-derived glucosides produced by enzymatic glycosylation. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 15, pp. 4985-4994. Dostupné na: <https://doi.org/10.1039/d0gc01408g>., Registrované v: WOS

24. [1.1] KUHAUDOMLARP, Sakonwan - WALPOLE, Samuel - STEVENSON, Clare E. M. - NEPOGODIEV, Sergey A. - LAWSON, David M. - ANGULO, Jesus - FIELD, Robert A. Unravelling the Specificity of Laminaribiose Phosphorylase from Paenibacillus sp. YM-1 towards Donor Substrates Glucose/Mannose 1-Phosphate by Using X-ray Crystallography and Saturation Transfer Difference NMR Spectroscopy. In CHEMBIOCHEM. ISSN 1439-4227, 2019, vol. 20, no. 2, pp. 181-192., Registrované v: WOS

25. [1.1] NAKAUCHIDA, Takuya - TAKATA, Yusei - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. Chemoenzymatic synthesis and pH-responsive properties of amphoteric block polysaccharides. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 27, pp. 6449-6456., Registrované v: WOS

26. [1.1] NIETO-DOMINGUEZ, Manuel - FERNANDEZ DE TORO, Beatriz - DE EUGENIO, Laura I. - SANTANA, Andres G. - BEJARANO-MUNOZ, Lara - ARMSTRONG, Zach - ANTONIO MENDEZ-LITER, Juan - LUIS ASENSIO, Juan - PRIETO, Alicia - WITHERS, Stephen G. - JAVIER CANADA, Francisco - JESUS MARTINEZ, Maria. Thioglycoligase derived from fungal GH3 beta-xylosidase is a multi-glycoligase with broad acceptor tolerance. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18667-3>., Registrované v: WOS

27. [1.1] NIHIRA, Takanori - CHIKU, Kazuhiro - SUZUKI, Erika - NISHIMOTO, Mamoru - FUSHINOBU, Shinya - KITAOKA, Motomitsu - OHTSUBO, Ken'ichi - NAKAI, Hiroyuki. An inverting beta-1,2-mannosidase belonging to glycoside hydrolase family 130 from Dyadobacter fermentans. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 23, pp. 3604-3610., Registrované v: WOS

28. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal beta-Glucans. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS

29. [1.1] PERGOLIZZI, Giulia - KUHAUDOMLARP, Sakonwan - KALITA, Eeshan - FIELD, Robert A. Glycan Phosphorylases in Multi-Enzyme Synthetic Processes. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2017, vol. 24, no. 8, pp. 696-709., Registrované v: WOS

30. [1.1] SHOUJI, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. Chemoenzymatic synthesis and self-assembling gelation behavior of amylose-grafted poly(gamma-glutamic acid). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, no.,

pp. 99-105., Registrované v: WOS

31. [1.1] TEZE, David - COINES, Joan - RAICH, Lluís - KALICHUK, Valentina - SOLLEUX, Claude - TELLIER, Charles - ANDRE-MIRAL, Corinne - SVENSSON, Birte - ROVIRA, Carme. A Single Point Mutation Converts GH84 O-GlcNAc Hydrolases into Phosphorylases: Experimental and Theoretical Evidence. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 5, pp. 2120-2124. Dostupné na: <https://doi.org/10.1021/jacs.9b09655>., Registrované v: WOS

32. [1.1] TSUDA, Tomohiro - NIHIRA, Takanori - CHIKU, Kazuhiro - SUZUKI, Erika - ARAKAWA, Takatoshi - NISHIMOTO, Mamoru - KITAOKA, Motomitsu - NAKAI, Hiroyuki - FUSHINOBU, Shinya. Characterization and crystal structure determination of beta-1,2-mannobiose phosphorylase from *Listeria innocua*. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 24, pp. 3816-3821., Registrované v: WOS

33. [1.1] VERHAEGHE, Tom - DE WINTER, Karel - DESMET, Tom. Microbial Enzymes for Glycoside Synthesis: Development of Sucrose Phosphorylase as a Test Case. In BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 405-431., Registrované v: WOS

34. [1.1] XU, Lijuan - QI, Tingting - XU, Li - LU, Lili - XIAO, Min. Recent progress in the enzymatic glycosylation of phenolic compounds. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2016, vol. 35, no. 1, pp. 1-23., Registrované v: WOS

35. [1.1] YAMASHITA, Kento - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. Synthesis of Non-Natural Heteroaminopolysaccharides by alpha-Glucan Phosphorylase-Catalyzed Enzymatic Copolymerization: alpha(1>4)-Linked Glucosaminoglucans. In BIOMACROMOLECULES. ISSN 1525-7797, 2015, vol. 16, no. 12, pp. 3989-3994., Registrované v: WOS

36. [1.1] ZHONG, Chao - NIDETZKY, Bernd. Three-Enzyme Phosphorylase Cascade for Integrated Production of Short-Chain Cellodextrins. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2020, vol. 15, no. 3, pp. Dostupné na: <https://doi.org/10.1002/biot.201900349>., Registrované v: WOS

37. [1.1] ZHONG, Chao - UKOWITZ, Christina - DOMIG, Konrad J. - NIDETZKY, Bernd. Short-Chain Cello-oligosaccharides: Intensification and Scale-up of Their Enzymatic Production and Selective Growth Promotion among Probiotic Bacteria. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 32, pp. 8557-8567. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c02660>., Registrované v: WOS

38. [1.1] ZHONG, Chao - WEI, Ping - ZHANG, Yi-Heng Percival. A kinetic model of one-pot rapid biotransformation of cellobiose from sucrose catalyzed by three thermophilic enzymes. In CHEMICAL ENGINEERING SCIENCE. ISSN 0009-2509, 2017, vol. 161, no., pp. 159-166., Registrované v: WOS

39. [1.1] ZHOU, Wei - YOU, Chun - MA, Hongwu - MA, Yanhe - ZHANG, Y.H. Percival. One-Pot Biosynthesis of High-Concentration alpha-Glucose 1-Phosphate from Starch by Sequential Addition of Three Hyperthermophilic Enzymes. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 8, pp. 1777-1783., Registrované v: WOS

40. [1.2] FEHL, Charlie - JARVIS, Amanda G. - PALM-ESPLING,

Maria - DAVIS, Ben - KAMER, Paul C.J. Outperforming nature's catalysts: Designing metalloenzymes for chemical synthesis. In *Modern Developments in Catalysis*, 2017-01-01, pp. 89-122., Registrované v: SCOPUS

41. [1.2] KADOKAWA, Jun Ichi. Precise preparation of functional polysaccharides nanoparticles by an enzymatic approach. In *Drug Delivery Approaches and Nanosystems: Volume 2: Drug Targeting Aspects of Nanotechnology*, 2017-01-01, pp. 101-124., Registrované v: SCOPUS

42. [1.2] LEGENTIL, Laurent - FERRIÈRES, Vincent. Regioselective glycosylation: What's new? In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 104-134., Registrované v: SCOPUS

43. [1.2] LULEY-GOEDL, Christiane - NIDETZKY, Bernd. Disaccharide phosphorylases: Mechanistic diversity and application in the glycosciences. In *Handbook of Carbohydrate-Modifying Biocatalysts*, 2016-07-11, 2, pp. 237-273., Registrované v: SCOPUS

44. [1.2] NAKAUCHIDA, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun Ichi. Hierarchically controlled assemblies from amylose analog aminopolysaccharides by reductive amination: From nano- to macrostructures. In *Journal of Applied Polymer Science*. ISSN 00218995, 2018-02-20, 135, 8, pp., Registrované v: SCOPUS

45. [1.2] VERHAEGHE, Tom - DE WINTER, Karel - DESMET, Tom. Microbial Enzymes for Glycoside Synthesis: Development of Sucrose Phosphorylase as a Test Case. In *Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications*, 2016-08-04, pp. 405-431., Registrované v: SCOPUS

ADCA1081 PUCHART, Vladimír - BIELY, Peter. Glycosylation of internal sugar residues of oligosaccharides catalyzed by alpha-galactosidase from *Aspergillus fumigatus*. In *Biochimica et Biophysica Acta : general subjects*, 2005, vol. 1726, p. 206-216. (2004: 3.369 - IF, Current Contents - CCC). (2005 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2005.07.015>

Ohlasy:

1. [1.1] GONG, Wei - XU, Li - GU, Guofeng - LU, Lili - XIAO, Min. Efficient and regioselective synthesis of globotriose by a novel alpha-galactosidase from *Bacteroides fragilis*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 15, pp. 6693-6702., Registrované v: WOS

2. [1.1] KUMAGAI, Yuya - YAMASHITA, Keitaro - TAGAMI, Takayoshi - URAJI, Misugi - WAN, Kun - OKUYAMA, Masayuki - YAO, Min - KIMURA, Atsuo - HATANAKA, Tadashi. The loop structure of Actinomycete glycoside hydrolase family 5 mannanases governs substrate recognition. In *FEBS JOURNAL*. ISSN 1742-464X, 2015, vol. 282, no. 20, pp. 4001-4014., Registrované v: WOS

3. [1.1] KURAKAKE, Masahiro - OKUMURA, Takumi - MORIMOTO, Youichirou. Synthesis of galactosyl glycerol from guar gum by transglycosylation of alpha-galactosidase from *Aspergillus* sp MK14. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2015, vol. 172, no., pp. 150-154., Registrované v: WOS

4. [1.1] MASTIHUBA, Vladimír - MASTIHUBOVA, Maria - BELAK, Miroslav - DUDIKOVA, Jana - POTOCKA, Elena Karnisova - PETRUS,

Ladislav. Preparation of alpha-galactooligoglycosides by cell walls from *Cryptococcus laurentii* using a novel alpha-galactosyl donor. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS

5. [1.1] PANWAR, Deepesh - SHUBHASHINI, A. - CHAUDHARI, Sachin Rama - PRASHANTH, K. V. Harish - KAPOOR, Mukesh. GH36 alpha-galactosidase from *Lactobacillus plantarum* WCFS1 synthesizes Gal-alpha-1,6 linked prebiotic alpha-galactooligosaccharide by transglycosylation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 144, no., pp. 334-342. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.032>., Registrované v: WOS

6. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS

7. [1.1] YOU, Xin - QIN, Zhen - YAN, Qiaojuan - YANG, Shaoqing - LI, Yanxiao - JIANG, Zhengqiang. Structural insights into the catalytic mechanism of a novel glycoside hydrolase family 113 beta-1,4-mannanase from *Amphibacillus xylanus*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2018, vol. 293, no. 30, pp. 11746-11757., Registrované v: WOS

ADCA1082 PUCHART, Vladimír - GARIÉPY, M.C. - SHARECK, F. - DUPONT, C. Identification of catalytically important amino acid residues of *Streptomyces lividans* acetylxylin esterase A from carbohydrate esterase family 4. In *Biochimica et Biophysica Acta : proteins and proteomics*, 2006, vol. 1764, p. 263-274. (2005: 2.980 - IF, Q2 - JCR, 1.504 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 1570-9639. Dostupné na: <https://doi.org/10.1016/j.bbapap.2005.11.023>

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] EMINOGLU, Aysenur - ULKER, Serdar - SANDALLI, Cemal. Cloning, Purification and Characterization of Acetyl Xylane Esterase from *Anoxybacillus flavithermus* DSM 2641(T) with Activity on Low Molecular-Weight Acetates. In *PROTEIN JOURNAL*. ISSN 1572-3887, 2015, vol. 34, no. 4, pp. 237-242., Registrované v: WOS

3. [1.1] GAO, Jin-Xin - CHEN, Jie. Construction of a yeast two-hybrid library derived from *Curvularia lunata* grown in fries 3 medium and its application in the identification of Clt-1 interacting proteins. In *TROPICAL PLANT PATHOLOGY*. ISSN 1983-2052, 2018, vol. 43, no. 1, pp. 85-89., Registrované v: WOS

4. [1.1] LIU, Zhanliang - GAY, Laurie M. - TUVENG, Tina R. - AGGER, Jane W. - WESTERENG, Bjorge - MATHIESEN, Geir - HORN, Svein

- J. - VAAJE-KOLSTAD, Gustav - VAN AALTEN, Daan M. F. - EIJSINK, Vincent G. H. Structure and function of a broadspecificity chitin deacetylase from *Aspergillus nidulans* FGSC A4. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
5. [1.1] TUVENG, Tina Rise - ROTHWEILER, Ulli - UDATHA, Gupta - VAAJE-KOLSTAD, Gustav - SMALAS, Arne - EIJSINK, Vincent G. H. Structure and function of a CE4 deacetylase isolated from a marine environment. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 11, pp., Registrované v: WOS
6. [1.1] VAAJE-KOLSTAD, Gustav - TUVENG, Tina Rise - MEKASHA, Sophanit - EIJSINK, Vincent G. H. Enzymes for Modification of Chitin and Chitosan. In *CHITIN AND CHITOSAN: PROPERTIES AND APPLICATIONS*, 2020, vol., no., pp. 189-228., Registrované v: WOS

ADCA1083 PUCHART, Vladimír** - GJERMENSEN, Morten - MASTIHUBOVÁ, Mária - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. Positional specificity of *Flavobacterium johnsoniae* acetylxyylan esterase and acetyl group migration on xylan main chain. In *Carbohydrate Polymers*, 2020, vol. 232, art. no. 115783 [8] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115783>

Ohlasy:

1. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS

ADCA1084 PUCHART, Vladimír - KATAPODIS, P. - BIELY, Peter - KREMnický, Ľubomir - CHRISTAKOPOULOS, P. - VRŠANSKÁ, Mária - KEKOS, D. - MACRIS, B.J. - BHAT, M.K. Production of xylanases, mannanases, and pectinases by the thermophilic fungus *Thermomyces lanuginosus*. In *Enzyme and Microbial Technology*, 1999, vol. 24, no. 5-6, p. 355-361. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(98\)00132-X](https://doi.org/10.1016/S0141-0229(98)00132-X)

Ohlasy:

1. [1.1] ABOSEREH, Nivien A. - ISMAIL, Siham A. - KHATTAB, Om K. H. - NOUR, Shaimaa A. - ABO-ELNASR, Amany A. - HASHEM, Amal M. Genetic improvement of fungal beta-mannanase and its molecular differentiation. In *EGYPTIAN PHARMACEUTICAL JOURNAL*. ISSN 1687-4315, 2019, vol. 18, no. 4, pp. 403-410., Registrované v: WOS
2. [1.1] CORREA, Juliana Moco - CHRISTI, Divair - DELLA TORRE, Carla Lieko - HENN, Caroline - DA CONCEICAO-SILVA, Jose Luis - KADOWAKI, Marina Kimiko - GARCIA SIMAO, Rita de Cassia. High levels of beta-xylosidase in *Thermomyces lanuginosus*: potential use for saccharification. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2016, vol. 47, no. 3, pp. 680-690., Registrované v: WOS
3. [1.1] GOMES, Eleni - DE SOUZA, Angelica Rodrigues - ORJUELA, Guillermo Ladino - DA SILVA, Roberto - DE OLIVEIRA, Tassio Brito - RODRIGUES, Andre. Applications and Benefits of Thermophilic Microorganisms and Their Enzymes for Industrial Biotechnology. In *GENE*

EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 459-492., Registrované v: WOS

4. [1.1] CHANWICHA, Nantawan - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of alkaline xylanase from *Thermoascus aurantiacus* var. *levisporus* KKU-PN-I2-1 cultivated by solid-state fermentation. In MYCOSCIENCE. ISSN 1340-3540, 2015, vol. 56, no. 3, pp. 309-318., Registrované v: WOS

5. [1.1] KAUSHAL, R. - SHARMA, N. - DOGRA, V. Optimization of the Production and Molecular Characterization of Cellulase-Free Xylanase from an Alkalophilic *Bacillus subtilis* SD8 Isolated from Paper Mill Effluent. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2015, vol. 51, no. 5, pp. 551-559.

6. [1.1] SIKANDAR, Shomaila - UJOR, Victor C. - EZEJI, Thaddeus C. - ROSSINGTON, Jesse L. - MICHEL, Frederick C. - MCMAHAN, Colleen M. - ALI, Naeem - CORNISH, Katrina. *Thermomyces lanuginosus* STm: A source of thermostable hydrolytic enzymes for novel application in extraction of high-quality natural rubber from *Taraxacum kok-saghyz* (Rubber dandelion). In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 103, no., pp. 161-168., Registrované v: WOS

7. [1.1] SINGH, Shalini. White-Rot Fungal Xylanases for Applications in Pulp and Paper Industry. In FUNGAL BIOREFINERIES. ISSN 2198-7777, 2018, vol., no., pp. 47-63., Registrované v: WOS

8. [1.1] SINGH, Simranjeet - SIDHU, Gurpreet Kaur - KUMAR, Vijay - DHANJAL, Daljeet Singh - DATTA, Shivika - SINGH, Joginder. Fungal Xylanases: Sources, Types, and Biotechnological Applications. In RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 1: DIVERSITY AND ENZYMES PERSPECTIVES. ISSN 2198-7777, 2019, vol., no., pp. 405-428., Registrované v: WOS

9. [1.1] SREELATHA, B. - SHYAMPRASAD, G. - RAO, V. Koteswar - GIRISHAM, S. Microbial synthesis of mammalian metabolites of spironolactone by thermophilic fungus *Thermomyces lanuginosus*. In STEROIDS. ISSN 0039-128X, 2018, vol. 136, no., pp. 1-7., Registrované v: WOS

10. [1.1] THEBTI, Wajdi - RIAHI, Yosra - GHARSALLI, Rawand - BELHADJ, Omrane. Screening and characterization of thermo-active enzymes of biotechnological interest produced by thermophilic *Bacillus* isolated from hot springs in Tunisia. In ACTA BIOCHIMICA POLONICA. ISSN 0001-527X, 2016, vol. 63, no. 3, pp. 581-587., Registrované v: WOS

11. [1.2] ESWARI, Jujjavarapu Satya - DHAGAT, Swasti - SEN, Ramkrishna. Thermophiles for biotech industry: A bioprocess technology perspective. In Thermophiles for Biotech Industry: A Bioprocess Technology Perspective, 2019-01-01, pp. 1-110., Registrované v: SCOPUS

12. [1.2] LIN, Xiaohong - YE, Xiuyun - WANG, Guozeng - LIANG, Yanhui - XU, Fan - LIN, Juan. Screening and identification of xylanase-producing microorganisms and study on enzyme properties. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2016-01-30, 16, 1, pp. 115-122., Registrované v: SCOPUS

13. [1.2] ONAL, Levent - KARADUMAN, Yekta. Reinforcing Potential of Enzymatically Modified Natural Fibers. In Biodegradable Green Composites,

2016-01-01, pp. 40-79., Registrované v: SCOPUS

14. [1.2] RANA, Vandana - RANA, Diwakar. Role of microorganisms in lignocellulosic biodegradation. In SpringerBriefs in Applied Sciences and Technology. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 19-67., Registrované v: SCOPUS

15. [3.2] SHAKOORI, F. R. (farah.shakoori@yahoo.com) ; SHOKAT, M.; SALEEM, F.; RIAZ, T. Screening, optimization and characterization of xylanase by locally isolated bacteria. IN Punjab University Journal of Zoology, 2015, vol. 30, iss. 2, p. 65-71., Registrované v: BIOSIS Citation Index

ADCA1085 PUCHART, Vladimír - VRŠANSKÁ, Mária - SVOBODA, P. - POHL, J. - OGEL, Z.B. - BIELY, Peter. Purification and characterization of two forms of endo-beta-1,4-mannanase from a thermotolerant fungus, *Aspergillus fumigatus* IMI 385708 (formerly *Thermomyces lanuginosus* IMI 158749). In *Biochimica et Biophysica Acta : general subjects*, 2004, vol. 1647, p. 239-250. (2003: 2.557 - IF, Current Contents - CCC). (2004 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2004.06.022>

Ohlasy:

1. [1.1] AHIRWAR, Saroj - SONI, Hemant - RAWAT, Hemant Kumar - GANAIE, Mohd. Anis - PRANAW, Kumar - KANGO, Naveen. Production optimization and functional characterization of thermostable beta-mannanase from *Malbranchea cinnamomea* NFCCI 3724 and its applicability in mannotetraose (M-4) generation. In JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070, 2016, vol. 63, no., pp. 344-353., Registrované v: WOS

2. [1.1] DONG, Yun Hai - LI, Jian Fang - HU, Die - YIN, Xin - WANG, Chun Juan - TANG, Shi Han - WU, Min Chen. Replacing a piece of loop-structure in the substrate-binding groove of *Aspergillus usamii* beta-mannanase, AuMan5A, to improve its enzymatic properties by rational design. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 9, pp. 3989-3998., Registrované v: WOS

3. [1.1] EL-SHAROUNY, Ebaa Ebrahim - EL-TOUKHY, Nabil M. K. - EL-SERSY, Nermeen Ahmed - EL-GAYAR, Abeer Abd El-Aal. Optimization and purification of mannanase produced by an alkaliphilic-thermotolerant *Bacillus cereus* N1 isolated from Bani Salama Lake in Wadi El-Natron. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2015, vol. 29, no. 2, pp. 315-323., Registrované v: WOS

4. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of different fermentation strategies on beta-mannanase production in fed-batch bioreactor system. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS

5. [1.1] HUANG, Qiming - LIU, Shimin - WANG, Gang - WU, Bing - ZHANG, Yongzhi. Coalbed methane reservoir stimulation using guar-based fracturing fluid: A review. In JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING. ISSN 1875-5100, 2019, vol. 66, no., pp. 107-125., Registrované v: WOS

6. [1.1] KAEWKROD, Aniwat - NIAMSIRI, Nuttawee - LIKITWATTANASADE, Teerarat - LERTSIRI, Sittiwat. Activities of macerating enzymes are useful for selection of soy sauce koji. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 89, no., pp.

735-739., Registrované v: WOS

7. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - TURHAN, Irfan. beta-Mannanase production and kinetic modeling from carob extract by using recombinant *Aspergillus sojae*. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2019, vol. 35, no. 6, pp., Registrované v: WOS

8. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN, Irfan. Partial purification and characterization of a recombinant beta-mannanase from *Aspergillus fumigatus* expressed in *Aspergillus sojae* grown on carob extract. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na:

<https://doi.org/10.1007/s13399-019-00487-1>., Registrované v: WOS

9. [1.1] LADEVEZE, Simon - LAVILLE, Elisabeth - DESPRES, Jordane - MOSONI, Pascale - POTOCKI-VERONESE, Gabrielle. Mannoside recognition and degradation by bacteria. In BIOLOGICAL REVIEWS. ISSN 1464-7931, 2017, vol. 92, no. 4, pp. 1969-1990., Registrované v: WOS

10. [1.1] LUO, Zhangcai - MIAO, Jing - LI, Guoying - DU, Yao - YU, Xiaobin. A Recombinant Highly Thermostable beta-Mannanase (ReTMan26) from Thermophilic *Bacillus subtilis* (TBS2) Expressed in *Pichia pastoris* and Its pH and Temperature Stability. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 4, pp. 1259-1275., Registrované v: WOS

11. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS

12. [1.1] NOPVICHAI, Chatchai - CHAROENWONGPAIBOON, Thanapon - LUENGLUEPUNYA, Navaporn - ITO, Kazuo - MUANPRASAT, Chatchai - PICHYANGKURA, Rath. Production and purification of mannan oligosaccharide with epithelial tight junction enhancing activity. In PEERJ. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS

13. [1.1] OJIMA, Takao - RAHMAN, Mohammad M. - KUMAGAI, Yuya - NISHIYAMA, Ryuji - NARSICO, Joemark - INOUE, Akira. Polysaccharide-Degrading Enzymes From Marine Gastropods. In MARINE ENZYMES AND SPECIALIZED METABOLISM, PT B. ISSN 0076-6879, 2018, vol. 605, no., pp. 457-497., Registrované v: WOS

14. [1.1] PRADEEP, G. C. - CHO, Seung Sik - CHOI, Yun Hee - CHOI, Yun Seok - JEE, Jun-Pil - SEONG, Chi Nam - YOO, Jin Cheol. An extremely alkaline mannanase from *Streptomyces* sp CS428 hydrolyzes galactomannan producing series of mannoooligosaccharides. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2016, vol. 32, no. 5, pp., Registrované v: WOS

15. [1.1] REGMI, Sudip - YOO, Hah Y. - CHOI, Yun H. - CHOI, Yoon S. - YOO, Jin C. - KIM, Seung W. Prospects for Bio-Industrial Application of an Extremely Alkaline Mannanase From *Bacillus subtilis* subsp *inaquosorum* CSB31. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2017, vol. 12, no. 11, pp., Registrované v: WOS

16. [1.1] SONG, Qiaoying - LI, Ting - XUE, Wei - LI, Nan - CHEN, Linting - DAI, Shuhan - ZHU, Zhenyun. Preparation, structure analysis and ACE inhibitory activity of konjac oligosaccharide. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 124, no., pp. 812-821., Registrované v: WOS
17. [1.1] SONG, Yafeng - FU, Gang - DONG, Huina - LI, Jianjun - DU, Yuguang - ZHANG, Dawei. High-Efficiency Secretion of beta-Mannanase in *Bacillus subtilis* through Protein Synthesis and Secretion Optimization. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 12, pp. 2540-2548., Registrované v: WOS
18. [1.1] SONI, Hemant - RAWAT, Hemant Kumar - PLETSCHEKE, Brett I. - KANGO, Naveen. Purification and characterization of beta-mannanase from *Aspergillus terreus* and its applicability in depolymerization of mannans and saccharification of lignocellulosic biomass. In *3 BIOTECH*. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS
19. [1.1] SONI, Hemant - RAWAT, Hemant Kumar - AHIRWAR, Saroj - KANGO, Naveen. Screening, statistical optimized production, and application of beta-mannanase from some newly isolated fungi. In *ENGINEERING IN LIFE SCIENCES*. ISSN 1618-0240, 2017, vol. 17, no. 4, pp. 392-401., Registrované v: WOS
20. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Production, properties, and applications of endo-beta-mannanases. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2017, vol. 35, no. 1, pp. 1-19., Registrované v: WOS
21. [1.1] SYARIFAH, Ab Rashid - DARAH, Ibrahim - IBRAHIM, Che Omar - RAMLI, Hassan - TONG, Woei Yenn. Purification and physicochemical characterisation of *Aspergillus niger* USM F4 beta-mannanase. In *MALAYSIAN JOURNAL OF MICROBIOLOGY*. ISSN 1823-8262, 2020, vol. 16, no. 5, pp. 396-406. Dostupné na: <https://doi.org/10.21161/mjm.200719>., Registrované v: WOS
22. [1.1] TOTH, Akos - BARNA, Terezia - SZABO, Erna - ELEK, Rita - HUBERT, Agnes - NAGY, Istvan - NAGY, Istvan - KRISZT, Balazs - TANCSICS, Andras - KUKOLYA, Jozsef. Cloning, Expression and Biochemical Characterization of Endomannanases from *Thermobifida* Species Isolated from Different Niches. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 5, pp., Registrované v: WOS
23. [1.1] YANG, Hong - SHI, Pengjun - LU, Haiqiang - WANG, Huimin - LUO, Huiying - HUANG, Huoging - YANG, Peilong - YAO, Bin. A thermophilic beta-mannanase from *Neosartorya fischeri* P1 with broad pH stability and significant hydrolysis ability of various mannan polymers. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2015, vol. 173, no., pp. 283-289., Registrované v: WOS
24. [1.1] YU, Shi - LI, Zhezhe - WANG, Yaping - CHEN, Wanping - FU, Lin - TANG, Wei - CHEN, Chen - LIU, Yunyun - ZHANG, Xue - MA, Lixin. High-level expression and characterization of a thermophilic beta-mannanase from *Aspergillus niger* in *Pichia pastoris*. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2015, vol. 37, no. 9, pp. 1853-1859., Registrované v: WOS
25. [1.1] ZANG, Haoyu - XIE, Shanshan - WU, Huijun - WANG, Weiduo - SHAO, Xiankun - WU, Liming - RAJER, Faheem Uddin - GAO, Xuewen. A novel thermostable GH5_7 beta-mannanase from *Bacillus pumilus*

- GBSW19 and its application in manno-oligosaccharides (MOS) production. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 78, no., pp. 1-9., Registrované v: WOS
26. [1.2] AHIRWAR, Saroj - SONI, Hemant - RAWAT, Hemant Kumar - PRAJAPATI, Bhanu Pratap - KANGO, Naveen. Experimental design of response surface methodology used for utilisation of palm kernel cake as solid substrate for optimised production of fungal mannanase. In Mycology. ISSN 21501203, 2016-07-02, 7, 3, pp. 143-153., Registrované v: SCOPUS
27. [1.2] AHIRWAR, Saroj - SONI, Hemant - PRAJAPATI, Bhanu Pratap - KANGO, Naveen. Isolation and screening of thermophilic and thermotolerant fungi for production of hemicellulases from heated environments. In Mycology. ISSN 21501203, 2017-07-03, 8, 3, pp. 125-134., Registrované v: SCOPUS
28. [1.2] LI, Jianfang - DONG, Yunhai - HU, Die - WANG, Chunjuan - TANG, Shihan - WU, Minchen. Correlation between superior enzymatic properties of β -mannanase AuMan5A/Af and its residue Asp(320). In Wei sheng wu xue bao = Acta microbiologica Sinica. ISSN 00016209, 2016-02-04, 56, 2, pp. 301-308., Registrované v: SCOPUS
29. [3.2] Group Author(s). Uniprot Consortium. Q4WBS1. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: Data Citation Index
30. [3.2] Group Author(s). Uniprot Consortium. Q4WBS1. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: Data Citation Index

ADCA1086 PUCHART, Vladimír - VRŠANSKÁ, Mária - BHAT, M. - BIELY, Peter. Purification and characterization of alfa-galactosidase from a thermophilic fungus *Thermomyces lanuginosus*. In *Biochimica et Biophysica Acta*, 2000, vol. 1524, p. 27-37. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/S0304-4165\(00\)00138-0](https://doi.org/10.1016/S0304-4165(00)00138-0)

Ohlasy:

1. [1.1] AL LOMAN, Abdullah - JU, Lu-Kwang. Enzyme-based processing of soybean carbohydrate: Recent developments and future prospects. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 106, no., pp. 35-47., Registrované v: WOS
2. [1.1] ANISHA, G. S. alpha-Galactosidases. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 369-394., Registrované v: WOS
3. [1.1] AN, Jian-Lu - ZHANG, Wei-Xin - WU, Wei-Ping - CHEN, Guan-Jun - LIU, Wei-Feng. Characterization of a highly stable alpha-galactosidase from thermophilic *Rasamsonia emersonii* heterologously expressed in a modified *Pichia pastoris* expression system. In MICROBIAL CELL FACTORIES, 2019, vol. 18, no. 1, pp., Registrované v: WOS
4. [1.1] BAFFA JUNIOR, Jose Carlos - VIANA, Pollyanna Amaral - DE REZENDE, Sebastiao Tavares - FERREIRA SOARES, Nilda de Fatima - GUIMARAES, Valeria Monteze. Immobilization of an alpha-galactosidase from *Debaryomyces hansenni* UFV-1 in cellulose film and its application in oligosaccharides hydrolysis. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2018, vol. 111, no., pp. 30-36., Registrované v: WOS

5. [1.1] BAKUNINA, Irina Yu. - BALABANOVA, Larissa A. - PENNACCHIO, Angela - TRINCONE, Antonio. Hooked on alpha-D-galactosidases: from biomedicine to enzymatic synthesis. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 2, pp. 233-245., Registrované v: WOS
6. [1.1] GAJDHANE, Sanjivani B. - BHAGWAT, Prashant K. - DANDGE, Padma B. Response surface methodology-based optimization of production media and purification of alpha-galactosidase in solid-state fermentation by *Fusarium moniliforme* NCIM 1099. In 3 BIOTECH. ISSN 2190-572X, 2016, vol. 6, no., pp., Registrované v: WOS
7. [1.1] GAJDHANE, Sanjivani B. - BHAGWAT, Prashant K. - DANDGE, Padma B. Statistical media optimization for enhanced production of alpha-galactosidase by a novel *Rhizopus oryzae* strain SUK. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 8, no., pp. 301-309., Registrované v: WOS
8. [1.1] HU, Yujing - TIAN, Guoting - GENG, Xueran - ZHANG, Weiwei - ZHAO, Liyan - WANG, Hexiang - NG, Tzi Bun. A protease-resistant alpha-galactosidase from *Pleurotus citrinopileatus* with broad substrate specificity and good hydrolytic activity on raffinose family oligosaccharides. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 4, pp. 491-499., Registrované v: WOS
9. [1.1] HU, Yujing - TIAN, Guoting - ZHAO, Liyan - WANG, Hexiang - TZI BUN NG. A protease-resistant alpha-galactosidase from *Pleurotus djamor* with broad pH stability and good hydrolytic activity toward raffinose family oligosaccharides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 122-130., Registrované v: WOS
10. [1.1] SIRISHA, E. - POTUMARTHI, Ravichandra - NAVEEN, A. - MANGAMOORI, Lakshmi Narasu. Purification and characterisation of intracellular alpha-galactosidases from *Acinetobacter* sp. In 3 BIOTECH. ISSN 2190-5738, 2015, vol. 5, no. 6, pp. 925-932., Registrované v: WOS
11. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS
12. [1.1] WANG, Caihong - WANG, Huimin - MA, Rui - SHI, Pengjun - NIU, Canfang - LUO, Huiying - YANG, Peilong - YAO, Bin. Biochemical characterization of a novel thermophilic alpha-galactosidase from *Talaromyces leycettanus* JCM12802 with significant transglycosylation activity. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2016, vol. 121, no. 1, pp. 7-12., Registrované v: WOS
13. [1.1] WANG, Huimin - MA, Rui - SHI, Pengjun - HUANG, Huoqing - YANG, Peilong - WANG, Yaru - FAN, Yunliu - YAO, Bin. Insights into the substrate specificity and synergy with mannanase of family 27 alpha-galactosidases from *Neosartorya fischeri* P1. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99,

no. 3, pp. 1261-1272., Registrované v: WOS

14. [1.1] WANG, Jian - YANG, Xu - YANG, Yongzhi - LIU, Yajing - PIAO, Xiangshu - CAO, Yunhe. Characterization of a protease-resistant alpha-galactosidase from *Aspergillus oryzae* YZ1 and its application in hydrolysis of raffinose family oligosaccharides from soymilk. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.

ISSN 0141-8130, 2020, vol. 158, no., pp. 708-720. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.04.256>., Registrované v: WOS

15. [1.1] ZHANG, Jian - SONG, Guangsen - MEI, Yunjun - LI, Rui - ZHANG, Haiyan - LIU, Ye. Present status on removal of raffinose family oligosaccharides a Review. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2019, vol. 37, no. 3, pp. 141-154., Registrované v: WOS

16. [1.1] ZHENG, Xianliang - FANG, Bo - HAN, Dongfei - YANG, Wenxia - QI, Feifei - CHEN, Hui - LI, Shengying. Improving the Secretary Expression of an Galactosidase from *Aspergillus niger* in *Pichia pastoris*. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 8, pp., Registrované v: WOS

17. [1.2] ANISHA, G. S. α -Galactosidases. In Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products, 2016-09-16, pp. 369-374., Registrované v: SCOPUS

ADCA1087 PUCHART, Vladimír - BIELY, Peter. Redistribution of acetyl groups on the non-reducing end xylopyranosyl residues and their removal by xylan deacetylases. In *Applied Microbiology and Biotechnology*, 2015, vol. 99, p. 3865-3873. (2014: 3.337 - IF, Q1 - JCR, 1.332 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-014-6160-2>

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] MARX, Sanette - RADEBE, Lehlohonono J. Microwave-assisted recovery of monomeric sugars from an acidic steam treated wood hydrolysate. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 11, pp., Registrované v: WOS

3. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

4. [1.1] SCHENDEL, Rachel R. - PUCHBAUER, Ann-Katrin - BRITSCHO, Natalie - BUNZEL, Mirko. Feruloylated Wheat Bran Arabinoxylans: Isolation and Characterization of Acetylated and O-2-Monosubstituted Structures. In CEREAL CHEMISTRY. ISSN 0009-0352, 2016, vol. 93, no. 5, pp. 493-501., Registrované v: WOS

5. [1.1] ZENG, Lingfeng - ZHONG, Jialun - ZHU, Ming - YAN, Weidong. A feasible scaling-up separation of platycosides from *Platycodi Radix*: From analytical to semi-preparative high performance liquid chromatography coupling with a post-separation flash freezing treatment to obtain highly unstable

components. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2016, vol. 167, no., pp. 174-180., Registrované v: WOS

ADCA1088 PUCHART, Vladimír - BIELY, Peter. Simultaneous production of endo-beta-1,4-xylanase and branched xylooligosaccharides by *Thermomyces lanuginosus*. In *Journal of Biotechnology*, 2008, vol. 137, p. 34-43. (2007: 2.565 - IF, Q2 - JCR, 1.133 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2008.07.1789>

Ohlasy:

1. [1.1] BASINSKIENE, Loreta - JUODEIKIENE, Grazina - VIDMANTIENE, Daiva - TENKANEN, Maija - MAKARAVICIUS, Tomas - BARTKIENE, Elena. Non-Alcoholic Beverages from Fermented Cereals with Increased Oligosaccharide Content. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2016, vol. 54, no. 1, pp. 36-44., Registrované v: WOS
2. [1.1] CORNETTI, Aline A. A. - FERRAZ, Andre - MILAGRES, Adriane M. F. Enzyme-aided xylan extraction from alkaline-sulfite pretreated sugarcane bagasse and its incorporation onto eucalyptus kraft pulps. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108003>., Registrované v: WOS
3. [1.1] KOUTANIEMI, Sanna - TENKANEN, Maija. Action of three GH51 and one GH54 alpha-arabinofuranosidases on internally and terminally located arabinofuranosyl branches. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 229, no., pp. 22-30., Registrované v: WOS
4. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
5. [1.1] MCCLEARY, Barry V. - MCKIE, Vincent A. - DRAGA, Anna - ROONEY, Edward - MANGAN, David - LARKIN, Jennifer. Hydrolysis of wheat flour arabinoxylan, acid-debranched wheat flour arabinoxylan and arabino-xylo-oligosaccharides by beta-xylanase, alpha-L-arabinofuranosidase and beta-xylosidase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 407, no., pp. 79-96., Registrované v: WOS
6. [1.1] RODRIGUES, Alexandre Gomes. Endo-beta-1,4-xylanase: An Overview of Recent Developments. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 125-149., Registrované v: WOS
7. [1.2] DE FREITAS, Caroline - CARMONA, Eleonora - BRIENZO, Michel. Xylooligosaccharides production process from lignocellulosic biomass and bioactive effects. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2019-04-01, 18, pp., Registrované v: SCOPUS

ADCA1089 PUCHART, Vladimír - BIELY, Peter. Simultaneous production of endo-beta-1,4-xylanase and branched xylooligosaccharides by *Thermomyces lanuginosus*. In *Journal of Biotechnology*, 2008, vol. 137, p. 34-43. (2007: 2.565 -

IF, Q2 - JCR, 1.133 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0168-1656.

Ohlasy:

1. [1.1] BASINSKIENE, Loreta - JUODEIKIENE, Grazina - VIDMANTIENE, Daiva - TENKANEN, Maija - MAKARAVICIUS, Tomas - BARTKIENE, Elena. Non-Alcoholic Beverages from Fermented Cereals with Increased Oligosaccharide Content. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2016, vol. 54, no. 1, pp. 36-44., Registrované v: WOS
2. [1.1] KOUTANIEMI, Sanna - TENKANEN, Maija. Action of three GH51 and one GH54 alpha-arabinofuranosidases on internally and terminally located arabinofuranosyl branches. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 229, no., pp. 22-30., Registrované v: WOS
3. [1.1] MCCLEARY, Barry V. - MCKIE, Vincent A. - DRAGA, Anna - ROONEY, Edward - MANGAN, David - LARKIN, Jennifer. Hydrolysis of wheat flour arabinoxylan, acid-debranched wheat flour arabinoxylan and arabino-xylo-oligosaccharides by beta-xylanase, alpha-L-arabinofuranosidase and beta-xylosidase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 407, no., pp. 79-96., Registrované v: WOS
4. [1.2] CHOI, Ji Hwi - PARK, Young Seo - LEE, Hyungjae - BAI, Dong Hoon. Characterization of Xylanase from *Bacillus agaradhaerens* DK-2386 Isolated from Korean Soil. In Korean Journal of Microbiology and Biotechnology. ISSN 1598642X, 2015-12-01, 43, 4, pp. 330-335., Registrované v: SCOPUS

ADCA1090 PUCHART, Vladimír - VRŠANSKÁ, Mária - MASTIHUBOVÁ, Mária - TOPAKAS, E. - VAFIADI, C. - FAULDS, C.B. - TENKANEN, M. - CHRISTAKOPOULOS, P. - BIELY, Peter. Substrate and positional specificity of feruloyl esterases for monoferuloylated and monoacetylated 4-nitrophenyl glycosides. In *Journal of Biotechnology*, 2007, vol. 127, p. 235-243. (2006: 2.600 - IF, Q2 - JCR, 1.109 - SJR, Q1 - SJR). ISSN 0168-1656.

Ohlasy:

1. [1.1] LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. - DILOKPIMOL, Adiphol. Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694>., Registrované v: WOS
2. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované v: WOS
3. [1.1] PHUENGMAUNG, Pornpimol - SUNAGAWA, Yoichi - MAKINO, Yosuke - KUSUMOTO, Takafumi - HANDA, Satoshi - SUKHUMSIRICHART, Wasana - SAKAMOTO, Tatsuji. Identification and characterization of ferulic acid esterase from *Penicillium chrysogenum* 31B: de-esterification of ferulic acid decorated with L-arabinofuranoses and

D-galactopyranoses in sugar beet pectin. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 131, no., pp., Registrované v: WOS

4. [1.1] RAMIREZ-VELASCO, Lorena - ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MUELLER-SANTOS, Marcelo - ASAFF-TORRES, Ali - CARLOS MATEOS-DIAZ, Juan. From Classical to High Throughput Screening Methods for Feruloyl Esterases: A Review. In COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING. ISSN 1386-2073, 2016, vol. 19, no. 8, pp. 616-626., Registrované v: WOS

5. [1.2] PINTO, Cristabell. Feruloyl esterase: A principal biodegradative enzyme. In Bioprospects of Coastal Eubacteria: Ecosystems of Goa, 2015-01-01, pp. 209-224., Registrované v: SCOPUS

ADCA1091 PYUSKYULEV, B. - KOMPIŠ, I. - OGNJANOV, I. - SPITELLER, G. Further studies on alkaloids from Vinca herbacea W.K. In *Collection of Czechoslovak Chemical Communications*, 1967, vol. 32, p. 1289-1294. ISSN 0010-0765.

Ohlasy:

1. [1.1] SHAO, Shun - ZHANG, Hao - YUAN, Chun-Mao - ZHANG, Yu - CAO, Ming-Ming - ZHANG, Hai-Yuan - FENG, Yan - DING, Xiao - ZHOU, Qiang - ZHAO, Qing - HE, Hong-Ping - HAO, Xiao-Jiang. Cytotoxic indole alkaloids from the fruits of *Melodinus cochinchinensis*. In PHYTOCHEMISTRY. ISSN 0031-9422, 2015, vol. 116, no., pp. 367-373., Registrované v: WOS

ADCA1092 RAAB, Michal - TVAROŠKA, Igor. The binding properties of the H5N1 influenza virus neuraminidase as inferred from molecular modeling. In *Journal of molecular modeling*, 2011, vol. 17, p. 1445-1456. (2010: 1.871 - IF, Q1 - JCR, 0.930 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1610-2940. Dostupné na: <https://doi.org/10.1007/s00894-010-0852-z>

Ohlasy:

1. [1.1] BELLO, Martiniano. Impact of tetramerization on the ligand recognition of N1 influenza neuraminidase via MMGBSA approach. In BIOPOLYMERS. ISSN 0006-3525, 2019, vol. 110, no. 5, pp., Registrované v: WOS

2. [1.1] COLOMBO, Cinzia - PINTO, B. Mario - BERNARDI, Anna - BENNET, Andrew J. Synthesis and evaluation of influenza A viral neuraminidase candidate inhibitors based on a bicyclo[3.1.0]hexane scaffold. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 27, pp. 6539-6553., Registrované v: WOS

3. [1.1] COLOMBO, Cinzia - PODLIPNIK, Crtomir - LO PRESTI, Leonardo - NIIKURA, Masahiro - BENNET, Andrew J. - BERNARDI, Anna. Design and synthesis of constrained bicyclic molecules as candidate inhibitors of influenza A neuraminidase. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS

4. [1.1] LIPNICANOVA, Sabina - CHMELOVA, Daniela - ONDREJOVIC, Miroslav - FRECER, Vladimir - MIERTUS, Stanislav. Diversity of sialidases found in the human body A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020,

- vol. 148, no., pp. 857-868. Dostupné na:
<https://doi.org/10.1016/j.ijbiomac.2020.01.123>., Registrované v: WOS
5. [1.1] MUCHTARIDI, Muchtaridi - SUGIJANTO, Milyadi - GAZZALI, Amirah Mohd - WAHAB, Habibah A. Anti-Neuraminidase Bioactives from Manggis Hutan (*Garcinia celebica* L.) Leaves: Partial Purification and Molecular Characterization. In *MOLECULES*, 2020, vol. 25, no. 4, pp. Dostupné na: <https://doi.org/10.3390/molecules25040821>., Registrované v: WOS
6. [1.1] PAQUET, Eric - VIKTOR, Herna L. Molecular Dynamics, Monte Carlo Simulations, and Langevin Dynamics: A Computational Review. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS
7. [1.1] PHANICH, Jiraphorn - THREEERACHEEP, Siraphob - KUNGWAN, Nawee - RUNGROTMONGKOL, Thanyada - HANNONGBUA, Supot. Glycan binding and specificity of viral influenza neuraminidases by classical molecular dynamics and replica exchange molecular dynamics simulations. In *JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*. ISSN 0739-1102, 2019, vol. 37, no. 13, pp. 3354-3365., Registrované v: WOS
8. [1.1] RICHARDS, Michele R. - GUO, Tianlin - HUNTER, Carmanah D. - CAIRO, Christopher W. Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 19, pp. 5349-5358., Registrované v: WOS

ADCA1093 RADOŠINSKÁ, Jana - MÉZEŠOVÁ, Lucia - OKRUHLICOVÁ, Ľudmila - FRIMMEL, Karel - BREIEROVÁ, Emília - BARTEKOVÁ, Monika - VRBJAR, Norbert. Effect of yeast biomass with high content of carotenoids on erythrocyte deformability, NO production and Na,K-ATPase activity in healthy and LPS treated rats. In *Clinical Hemorheology and Microcirculation*, 2016, vol. 64, no. 2, pp. 125–134. (2015: 1.815 - IF, Q3 - JCR, 0.723 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 1386-0291. Dostupné na: <https://doi.org/10.3233/CH-162051>

Ohlasy:

1. [1.1] KRUGER-GENGE, Anne - FUHRMANN, Rosemarie - FRANKE, Ralf-Peter - JUNG, Friedrich. Effect of lipopolysaccharide on the adherence of human umbilical vein endothelial cells (HUVEC) on a natural substrate. In *CLINICAL HEMORHEOLOGY AND MICROCIRCULATION*. ISSN 1386-0291, 2019, vol. 71, no. 2, pp. 175-181., Registrované v: WOS
2. [1.1] KUMAR, Prabhanshu - CHAUDHARY, Nidhee - SHARMA, Narendra Kumar - MAURYA, Pawan Kumar. Detection of oxidative stress biomarkers in myricetin treated red blood cells. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 102, pp. 100028-100034., Registrované v: WOS
3. [1.1] WANG, Ying - CUI, Hao - NIU, Fei - LIU, Shuo-Lin - LI, Yao - ZHANG, Li-Min - DU, Hui-Bo - ZHAO, Zi-Gang - NIU, Chun-Yu. Effect of Resveratrol on Blood Rheological Properties in LPS-Challenged Rats. In *FRONTIERS IN PHYSIOLOGY*. ISSN 1664-042X, 2018, vol. 9, no., pp., Registrované v: WOS
4. [4.1] KRAJČÍR, J. - KUČEROVÁ, K. - LACEKOVÁ, J. - KALNOVIČOVÁ, T. - PÚZSEROVÁ, A. - TÓTHOVÁ, Ľ. - DRÁBEK, R.:

Vplyv podávania vitamínu C na vybrané charakteristiky ľudských erytrocytov.
In: Zborník vedeckých prác. Bratislava : Univerzita Komenského, 2017, s.
127-130

- ADCA1094 RANTA, Kaarina - NIEMINEN, Kals - EKHOLM, Filip S. -
POLÁKOVÁ, Monika - ROSLUND, Mattias U. - SALORANTA, Tiina - LEINO,
Reko - SAVOLAINEN, Johannes. Evaluation of immunostimulatory activities of
synthetic mannose-containing structures mimicking the beta-(1-2)-linked cell wall
mannans of candida albicans. In *Clinical and Vaccine Immunology*, 2012, vol. 19, p.
1889-1893. (2011: 2.546 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, Current Contents -
CCC). (2012 - Current Contents). ISSN 1556-6811. Dostupné na:
<https://doi.org/10.1128/CVI.00298-12>
- Ohlasy:
1. [1.1] GUO, Zongren - LONG, Liangkun - DING, Shaojun.
Characterization of a d-lyxose isomerase from *Bacillus velezensis* and its
application for the production of d-mannose and l-ribose. In *AMB EXPRESS*.
ISSN 2191-0855, 2019, vol. 9, no. 1, pp., Registrované v: WOS
 2. [1.1] HUANG, Jiawei - YU, Lina - ZHANG, Wenli - ZHANG, Tao -
GUANG, Cuie - MU, Wanmeng. Production of d-mannose from d-glucose by
co-expression of d-glucose isomerase and d-lyxose isomerase in *Escherichia coli*.
In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN
0022-5142, 2018, vol. 98, no. 13, pp. 4895-4902., Registrované v: WOS
 3. [1.1] HU, Xing - SHI, Yaning - ZHANG, Peng - MIAO, Ming -
ZHANG, Tao - JIANG, Bo. d-Mannose: Properties, Production, and
Applications: An Overview. In *COMPREHENSIVE REVIEWS IN FOOD
SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2016, vol. 15, no. 4, pp.
773-785., Registrované v: WOS
 4. [1.1] NESS, Traci - ABDALLAH, Mahmud - ADAMS, Jaime -
ALVARADO, Claudia - GUNN, Edwin - HOUSE, Brittany - LAMB, John -
MACGUIRE, Jack - NORRIS, Emily - ROBINSON, Rebekah - SAPP, Morgan -
SHARMA, Jill - GARNER, Ronald. *Candida albicans*-derived mannoproteins
activate NF-kappa B in reporter cells expressing TLR4, MD2 and CD14. In
PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
 5. [1.1] PONGRAC, Igor M. - RADMILOVIC, Marina Dobrivojevic -
AHMED, Lada Brkic - MLINARIC, Hrvoje - REGUL, Jan - SKOKIC, Sinisa -
BABIC, Michal - HORAK, Daniel - HOEHN, Mathias - GAJOVIC, Srecko.
D-mannose-Coating of Maghemite Nanoparticles Improved Labeling of Neural
Stem Cells and Allowed Their Visualization by ex vivo MRI after
Transplantation in the Mouse Brain. In *CELL TRANSPLANTATION*. ISSN
0963-6897, 2019, vol. 28, no. 5, pp. 553-567., Registrované v: WOS
 6. [1.1] SABURI, Wataru - SATO, Suzuka - HASHIGUCHI, Saki -
MUTO, Hirohiko - IIZUKA, Takahisa - MORI, Haruhide. Enzymatic
characteristics of d-mannose 2-epimerase, a new member of the acylglucosamine
2-epimerase superfamily. In *APPLIED MICROBIOLOGY AND
BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 16, pp. 6559-6570.,
Registrované v: WOS
 7. [1.1] SHAMOUT, Fadi - FISCHER, Lukas - SNYDER, Nicole L. -
HARTMANN, Laura. Recovery, Purification, and Reusability of Building Blocks
for Solid Phase Synthesis. In *MACROMOLECULAR RAPID
COMMUNICATIONS*. ISSN 1022-1336, 2020, vol. 41, no. 2, pp. Dostupné na:

<https://doi.org/10.1002/marc.201900473>., Registrované v: WOS

8. [1.1] WU, Hao - CHEN, Ming - GUANG, Cuie - ZHANG, Wenli - MU, Wanmeng. Identification of a novel recombinant D-lyxose isomerase from *Thermoprotei archaeon* with high thermostable, weak-acid and nickel ion dependent properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 1267-1274. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.222>., Registrované v: WOS

9. [1.1] WU, Hao - ZHANG, Wenli - MU, Wanmeng. Recent studies on the biological production of D-mannose. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 21-22, pp. 8753-8761., Registrované v: WOS

10. [1.1] YATSENKOVA, Olga V. - SKRIPNIKOV, Andrei M. - KOZLOVA, Svetlana A. - IVANCHENKO, Natalia M. - KUZNETSOV, Boris N. The Study of Influence of Acid Catalysts Nature on the Composition of Products of Pine Wood Hemicelluloses Hydrolysis. In *JOURNAL OF SIBERIAN FEDERAL UNIVERSITY-CHEMISTRY*. ISSN 1998-2836, 2018, vol. 11, no. 1, pp. 42-55., Registrované v: WOS

11. [1.1] YU, Lina - ZHANG, Wenli - ZHANG, Tao - JIANG, Bo - MU, Wanmeng. Efficient biotransformation of D-fructose to D-mannose by a thermostable D-lyxose isomerase from *Thermosediminibacter oceani*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2016, vol. 51, no. 12, pp. 2026-2033., Registrované v: WOS

12. [1.1] ZHANG, Gao-Lan - YANG, Lin - ZHU, Jingjing - WEI, Mengman - YAN, Wanjun - XIONG, De-Cai - YE, Xin-Shan. Synthesis and Antigenic Evaluation of Oligosaccharide Mimics of Vi Antigen from *Salmonella typhi*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 44, pp. 10670-10677., Registrované v: WOS

ADCA1095 RAPP, G. - MUCHA, Ján - EINSPANIER, R. - SCHEIT, K.H. Cloning and sequence analysis of a cDNA from human ovarian granulosa cells encoding the C-terminal part of human elongation factor 2. In *Biological chemistry Hoppe-Seyler : Journal of Physiological Chemistry*, 1988, vol. 369, p. 247-250. ISSN 1431-6730. Dostupné na: <https://doi.org/10.1515/bchm3.1988.369.1.247>

Ohlasy:

1. [3.2] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2016. Dostupné na internete:

<http://www.uniprot.org/uniprot/P13639>, Registrované v: Data Citation Index

2. [3.2] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2018. Dostupné na internete

<http://www.uniprot.org/uniprot/P13639>, Registrované v: Data Citation Index

ADCA1096 RAPP, G. - KLAUDINY, Jaroslav - HAGENDORFF, G. - LUCK, M.R. - SCHEIT, K.H. Complete sequence of the coding region of human elongation of factor-II (EF-2) by enzymatic amplification of CDNA from human ovarian granulosa cells. In *Biological Chemistry Hoppe-Seyler*, 1989, vol. 370, p. 1071-1075. ISSN 1431-6730. Dostupné na: <https://doi.org/10.1515/bchm3.1989.370.2.1071>

Ohlasy:

1. [1.1] SA, Maria J. Nabais - OLSON, Alexandra N. - YOON, Grace -

NIMMO, Graeme A. M. - GOMEZ, Christopher M. - WILLEMSSEN, Michel A. - MILLAN, Francisca - SCHNEIDER, Alexandra - PFUNDT, Rolph - DE BROUWER, Arjan P. M. - DINMAN, Jonathan D. - DE VRIES, Bert B. A. De Novo variants in EEF2 cause a neurodevelopmental disorder with benign external hydrocephalus. In HUMAN MOLECULAR GENETICS. ISSN 0964-6906, 2020, vol. 29, no. 24, pp. 3892-3899. Dostupné na:

<https://doi.org/10.1093/hmg/ddaa270>, Registrované v: WOS

2. [1.1] XIAO, Ting - LIU, Rui - PROUD, Christopher G. - WANG, Ming-Wei. A high-throughput screening assay for eukaryotic elongation factor 2 kinase inhibitors. In ACTA PHARMACEUTICA SINICA B. ISSN 2211-3835, 2016, vol. 6, no. 6, pp. 557-563., Registrované v: WOS

3. [1.1] ZHOU, Bian-hua - JIA, Liu-shu - GUO, Hong-wei - DING, Hai-yan - YANG, Jing-yun - WANG, Hong-wei. Eukaryotic elongation factor 2 is involved in the anticoccidial action of diclazuril in the second-generation merozoites of Eimeria tenella. In VETERINARY PARASITOLOGY. ISSN 0304-4017, 2019, vol. 276, no., pp., Registrované v: WOS

4. [1.2] BENNUN, Alfred. Molecular aspects of the psychosomatic-metabolic axis and stress. In Molecular Aspects of the Psychosomatic-Metabolic Axis and Stress, 2015-01-01, pp. 1-231., Registrované v: SCOPUS

5. [1.2] BENNUN, Alfred. The metabolic-psychosomatic axis, stress and oxytocin regulation. In The Metabolic-Psychosomatic Axis, Stress and Oxytocin Regulation, 2016-01-01, pp. 1-244., Registrované v: SCOPUS

6. [1.2] BENNUN, Alfred. The regenerative processes involving the cAMP unzipping of DNA: The synthesis of proteins integrating plasticity and longevity. In The Regenerative Processes Involving the cAMP Unzipping of DNA: The Synthesis of Proteins Integrating Plasticity and Longevity, 2017-01-01, pp. 1-324., Registrované v: SCOPUS

7. [3.2] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2016. Dostupné na internete:

<http://www.uniprot.org/uniprot/P13639>, Registrované v: Data Citation Index

8. [3.2] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/P13639>, Registrované v: Data Citation Index

ADCA1097 RAPP, G. - FREUDENSTEIN, J. - KLAUDINY, Jaroslav - MUCHA, Ján - WEMPE, F. - ZIMMER, M. - SCHEIT, K.H. Characterization of 3 abundant messenger RNAs from human ovarian granulosa cells. In *DNA and Cell Biology*, 1990, vol. 9, p. 479-485. ISSN 1044-5498.

Ohlasy:

1. [1.1] KAZI, Julhash U. - KABIR, Nuzhat N. - RONNSTRAND, Lars. Brain-Expressed X-linked (BEX) proteins in human cancers. In BIOCHIMICA ET BIOPHYSICA ACTA-REVIEWS ON CANCER. ISSN 0304-419X, 2015, vol. 1856, no. 2, pp. 226-233., Registrované v: WOS

2. [1.2] KAZI, Julhash U. - KABIR, Nuzhat N. - RÖNNSTRAND, Lars. Brain-Expressed X-linked (BEX) proteins in human cancers. In Biochimica et Biophysica Acta Reviews on Cancer. ISSN 0304419X, 2015-12-01, 1856, 2, pp. 226-233., Registrované v: SCOPUS

3. [3.2] Boyarsky, K.Yu.; Kachiani, E.I. Molecular mechanisms of folliculogenesis. From ovulation to the corpus luteum formation. In: Problemy

reproduktssii, 2018, vol. 24, issue 2, p. 9-22, ISSN 1025-7217., Registrované v: Russian Science Citation Index

4. [3.2] Group Author(s). Uniprot Consortium. Q00994. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q00994>, Registrované v: Data Citation Index

5. [3.2] Group Author(s). Uniprot Consortium. P01033. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/P01033>, Registrované v: Data Citation Index

ADCA1098 RAPTA, Peter - VALACHOVÁ, Katarína - GEMEINER, Peter - ŠOLTĚS, Ladislav. High-molar-mass hyaluronan behavior during testing its radical scavenging capacity in organic and aqueous media: effects of the presence of manganese(II) ions. In *Chemistry & biodiversity*, 2009, vol. 6, p. 162-169. (2008: 1.659 - IF, Q2 - JCR, 0.641 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200800075>

Ohlasy:

1. [1.1] NASUTION, A.K. - HERMAWAN, H. Degradable Biomaterials for Temporary Medical Implants. In *BIOMATERIALS AND MEDICAL DEVICES: A PERSPECTIVE FROM AN EMERGING COUNTRY*. ISSN 1869-8433, 2016, vol. 58, p. 126-160., Registrované v: WOS

2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *Analysis and Performance of Engineering Materials: Key Research and Development*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS*. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING*. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1099 RAY, B. - BANDYOPADHYAY, S.S. - CAPEK, Peter - KOPECKÝ, Jaromír - HINDÁK, František - LUKAVSKÝ, Jiří. Extracellular glycoconjugates produced by cyanobacterium *Wolleea saccata*. In *International Journal of Biological Macromolecules*, 2011, vol. 48, no. 4, p. 553-557. (2010: 2.502 - IF, Q3 - JCR, 0.873 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2011.01.019>

Ohlasy:

1. [1.1] HUGHES, R.A. - ZHANG, Y.L. - ZHANG, R. - WILLIAMS, P.G. - LINDSEY, J.S. - MILLER, E.S. Genome Sequence and Composition of a Tolyporphin-Producing Cyanobacterium-Microbial Community. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, OCT 2017,

vol. 83, no. 19., Registrované v: WOS

2. [1.1] LIU, L. - POHNERT, G. - WEI, D. Extracellular Metabolites from Industrial Microalgae and Their Biotechnological Potential. In *Marine Drugs*, 2016, vol. 14, no. 10. ISSN 1660-3397., Registrované v: WOS

ADCA1100 REBROŠ, Martin - LIPTÁK, Lukáš - ROSENBERG, Michal - BUČKO, Marek - GEMEINER, Peter. Biocatalysis with *Escherichia coli* overexpressing cyclopentanone monooxygenase immobilized in polyvinyl alcohol gel. In *Letters in Applied Microbiology*, 2014, vol. 58, p. 556-563. (2013: 1.749 - IF, Q3 - JCR, 0.791 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0266-8254. Dostupné na: <https://doi.org/10.1111/lam.12227>

Ohlasy:

1. [1.1] GUAJARDO, Nadia - AHUMADA, Katherine - DE MARIA, Pablo Dominguez. Immobilized lipase-CLEA aggregates encapsulated in lentikats (R) as robust biocatalysts for continuous processes in deep eutectic solvents. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2020, vol. 310, no., pp. 97-102. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.02.003>., Registrované v: WOS

2. [1.1] KADISCH, Marvin - WILLRODT, Christian - HILLEN, Michael - BUEHLER, Bruno - SCHMID, Andreas. Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS

3. [1.1] SILVA, Andre Leonardo Patricio - DA SILVA CARIDADE, Taiza Nayara - MAGALHAES, Renata Rodrigues - DE SOUSA, Kelly Teotonio - DE SOUSA, Christian Carlos - VALE, Juliana Alves. Biocatalytic production of ε-caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8887-8895. Dostupné na: <https://doi.org/10.1007/s00253-020-10875-7>., Registrované v: WOS

4. [3.1] Stloukal, R., Watzková, J., & Turková, K. LentiKat's: Industrial biotechnology, experiences and visions. In: Gonzalo de Gonzalo, Pablo Domínguez de María (eds.). *RSC Catalysis Series*, 2018(29), chapter 12, pp. 325-344

ADCA1101 REDJALA, Tanegmart - ZELKO, Ivan - STERCKEMAN, Thibault - LEGUÉ, Valérie - LUX, Alexander. Relationship between root structure and root cadmium uptake in maize. In *Environmental and Experimental Botany*, 2011, vol. 71, p. 241-248. (2010: 2.699 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0098-8472. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2010.12.010>

Ohlasy:

1. [1.1] ASSAD, Mohamad - PARELLE, Julien - CAZAUX, David - GIMBERT, Frederic - CHALOT, Michel - TATIN-FROUX, Fabienne. Mercury uptake into poplar leaves. In *CHEMOSPHERE*. ISSN 0045-6535, 2016, vol. 146, no., pp. 1-7., Registrované v: WOS

2. [1.1] BLOEM, Elke - HANEKLAUS, Silvia - HAENSCH, Robert - SCHNUG, Ewald. EDTA application on agricultural soils affects microelement uptake of plants. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2017, vol. 577, no., pp. 166-173., Registrované v: WOS

3. [1.1] BLOEM, Elke - VOGLER, Iris. Influence of graded EDTA

- applications on mobilization and translocation of trace elements a soil column experiment. In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2018, vol. 181, no. 2, pp. 220-230., Registrované v: WOS
4. [1.1] CABRITA, Maria Teresa - DUARTE, Bernardo - CESARIO, Rute - MENDES, Ricardo - HINTELMANN, Holger - ECKEY, Kevin - DIMOCK, Brian - CACADOR, Isabel - CANARIO, Joao. Mercury mobility and effects in the salt-marsh plant *Halimione portulacoides*: Uptake, transport, and toxicity and tolerance mechanisms. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2019, vol. 650, no., pp. 111-120., Registrované v: WOS
5. [1.1] DA SILVA, Deivisson Ferreira - CIPRIANO, Patriciani Estela - DE SOUZA, Ray Rodrigues - SIUEIA JUNIOR, Matias - DA SILVA, Rodrigo Fonseca - FAQUIN, Valdemar - DE SOUZA SILVA, Maria Ligia - GUIMARAES GUILHERME, Luiz Roberto. Anatomical and physiological characteristics of *Raphanus sativus* L. submitted to different selenium sources and forms application. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.scienta.2019.108839>., Registrované v: WOS
6. [1.1] DOWNIE, H. F. - ADU, M. O. - SCHMIDT, S. - OTTEN, W. - DUPUY, L. X. - WHITE, P. J. - VALENTINE, T. A. Challenges and opportunities for quantifying roots and rhizosphere interactions through imaging and image analysis. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2015, vol. 38, no. 7, pp. 1213-1232., Registrované v: WOS
7. [1.1] ELDRIDGE, Bethany M. - MANZONI, Lillian R. - GRAHAM, Calum A. - RODGERS, Billy - FARMER, Jack R. - DODD, Antony N. Getting to the roots of aeroponic indoor farming. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2020, vol. 228, no. 4, pp. 1183-1192. Dostupné na: <https://doi.org/10.1111/nph.16780>., Registrované v: WOS
8. [1.1] FENG, Juanjuan - JIA, Weitao - LV, Sulian - BAO, Hexigeduleng - MIAO, Fangfang - ZHANG, Xuan - WANG, Jinhui - LI, Jihong - LI, Dongsheng - ZHU, Cheng - LI, Shizhong - LI, Yinxin. Comparative transcriptome combined with morpho-physiological analyses revealed key factors for differential cadmium accumulation in two contrasting sweet sorghum genotypes. In *PLANT BIOTECHNOLOGY JOURNAL*. ISSN 1467-7644, 2018, vol. 16, no. 2, pp. 558-571., Registrované v: WOS
9. [1.1] FERREIRA, Paulo A. A. - MARCHEZAN, Carina - CERETTA, Carlos A. - TAROUÇO, Camila P. - LOURENZI, Cledimar R. - SILVA, Leandro S. - SORIANI, Hilda H. - NICOLOSO, Fernando T. - CESCO, Stefano - MIMMO, Tanja - BRUNETTO, Gustavo. Soil amendment as a strategy for the growth of young vines when replanting vineyards in soils with high copper content. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2018, vol. 126, no., pp. 152-162., Registrované v: WOS
10. [1.1] FU, Yanzhao - LEI, Wenrui - SHEN, Zhenguo - LUO, Chunling. Permeability of Plant Young Root Endodermis to Cu Ions and Cu-Citrate Complexes in Corn and Soybean. In *INTERNATIONAL JOURNAL OF PHYTOREMEDIATION*. ISSN 1522-6514, 2015, vol. 17, no. 9, pp. 822-834., Registrované v: WOS
11. [1.1] GAION, Lucas Aparecido - LOREVICE, Paulo Guilherme - MONTEIRO, Carolina Cristina - GAVASSI, Marina Alves - D'AMICO-DAMIAO, Victor - GRATAO, Priscila Lupino - GASPARINO,

- Eduardo Custodio - CARVALHO, Rogerio Falleiros. The role of phytochromes in cadmium stress responses in tomato. In BRAGANTIA. ISSN 1678-4499, 2018, vol. 77, no. 1, pp. 13-22., Registrované v: WOS
12. [1.1] GUO, Jing Yi - ZHANG, Man - ZHANG, Xi Zhou - LI, Ting Xuan - ZHANG, Lu - HUANG, Fu - CHEN, Dong Ming - SUN, Xian Ming. Characterization of cadmium uptake kinetics in cadmium pollution-safe rice material. In Chinese Journal of Applied Ecology. ISSN 10019332, 2018-01-01, 29, 1, pp. 278-284., Registrované v: WOS
13. [1.1] GU, Dongxiang - ZHEN, Fengxian - HANNAWAY, David B. - ZHU, Yan - LIU, Leilei - CAO, Weixing - TANG, Liang. Quantitative Classification of Rice (*Oryza sativa* L.) Root Length and Diameter Using Image Analysis. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
14. [1.1] HOY, Karen S. - UPPAL, Jagdeesh S. - LE, X. Chris. Editorial: Effect of root anatomy and apoplastic barrier development on cadmium uptake in rice. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2019, vol. 79, no., pp. 361-363., Registrované v: WOS
15. [1.1] HUANG, Lu - LI, Wai Chin - TAM, Nora Fung Yee - YE, Zhihong. Effects of root morphology and anatomy on cadmium uptake and translocation in rice (*Oryza sativa* L.). In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2019, vol. 75, no., pp. 296-306., Registrované v: WOS
16. [1.1] CHEN, Xian-chun - LIU, Yun-guo - ZENG, Guang-ming - DUAN, Guo-feng - HU, Xin-jiang - HU, Xi - XU, Wei-hua - ZOU, Mei. The Optimal Root Length for *Vetiveria zizanioides* When Transplanted to Cd Polluted Soil. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2015, vol. 17, no. 6, pp. 563-567., Registrované v: WOS
17. [1.1] CHEN, Xiaohui - OUYANG, Younan - FAN, Yicong - QIU, Boyin - ZHANG, Guoping - ZENG, Fanrong. The pathway of transmembrane cadmium influx via calcium-permeable channels and its spatial characteristics along rice root. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 21, pp. 5279-5291., Registrované v: WOS
18. [1.1] ILIC, Zorana Hrkic - PAJEVIC, Slobodanka - BORISEV, Milan - LUKOVIC, Jadranka. Assessment of phytostabilization potential of two *Salix* L. clones based on the effects of heavy metals on the root anatomical traits. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 23, pp. 29361-29383. Dostupné na: <https://doi.org/10.1007/s11356-020-09228-8>., Registrované v: WOS
19. [1.1] KOLBERT, Zsuzsanna - OLAH, Dora - MOLNAR, Arpad - SZOLLOSI, Reka - ERDEI, Laszlo - ORDOG, Attila. Distinct redox signalling and nickel tolerance in *Brassica juncea* and *Arabidopsis thaliana*. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2019.109989>., Registrované v: WOS
20. [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS
21. [1.1] LIU, Haiwei - WANG, Haiyun - MA, Yibing - WANG, Haohao

- SHI, Yi. Role of transpiration and metabolism in translocation and accumulation of cadmium in tobacco plants (*Nicotiana tabacum* L.). In CHEMOSPHERE. ISSN 0045-6535, 2016, vol. 144, no., pp. 1960-1965., Registrované v: WOS
22. [1.1] LIU, Yuankun - LU, Min - TAO, Qi - LUO, Jipeng - LI, Jinxing - GUO, Xinyu - LIANG, Yongchao - YANG, Xiaoe - LI, Tingqiang. A comparative study of root cadmium radial transport in seedlings of two wheat (*Triticum aestivum* L.) genotypes differing in grain cadmium accumulation. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 266, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.115235>., Registrované v: WOS
23. [1.1] LI, Hui - LUO, Na - LI, Yan Wen - CAI, Quan Ying - LI, Hui Yuan - MO, Ce Hui - WONG, Ming Hung. Cadmium in rice: Transport mechanisms, influencing factors, and minimizing measures. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 224, no., pp. 622-630., Registrované v: WOS
24. [1.1] MUTHUSARAVANAN, S. - SIVARAJASEKAR, N. - VIVEK, J. S. - PARAMASIVAN, T. - NAUSHAD, Mu. - PRAKASHMARAN, J. - GAYATHRI, V. - AL-DUAIJ, Omar K. Phytoremediation of heavy metals: mechanisms, methods and enhancements. In ENVIRONMENTAL CHEMISTRY LETTERS. ISSN 1610-3653, 2018, vol. 16, no. 4, pp. 1339-1359., Registrované v: WOS
25. [1.1] NAMYSLOV, Jiri - BAURIEDLOVA, Zuzana - JANOUSKOVA, Jana - SOUKUP, Ales - TYLOVA, Edita. Exodermis and Endodermis Respond to Nutrient Deficiency in Nutrient-Specific and Localized Manner. In PLANTS-BASEL, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/plants9020201>., Registrované v: WOS
26. [1.1] NASCIMENTO-JUNIOR, Ivanildo - MORO, Gustavo V. - MORO, Fabiola V. Indirect selection of maize genotypes based on associations between root agronomic and anatomical characters. In CHILEAN JOURNAL OF AGRICULTURAL RESEARCH. ISSN 0718-5839, 2018, vol. 78, no. 1, pp. 39-47., Registrované v: WOS
27. [1.1] PECKOVA, E. - TYLOVA, E. - SOUKUP, A. Tracing root permeability: comparison of tracer methods. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2016, vol. 60, no. 4, pp. 695-705., Registrované v: WOS
28. [1.1] PERUZZO, Luca - CHOU, Chunwei - WU, Yuxin - SCHMUTZ, Myriam - MARY, Benjamin - WAGNER, Florian M. - PETROV, Petr - NEWMAN, Gregory - BLANCAFLOR, Elison B. - LIU, Xiuwei - MA, Xuefeng - HUBBARD, Susan. Imaging of plant current pathways for non-invasive root Phenotyping using a newly developed electrical current source density approach. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 450, no. 1-2, pp. 567-584. Dostupné na: <https://doi.org/10.1007/s11104-020-04529-w>., Registrované v: WOS
29. [1.1] QI, Xiaoli - TAM, Nora Fung-yee - LI, Wai Chin - YE, Zhihong. The role of root apoplastic barriers in cadmium translocation and accumulation in cultivars of rice (*Oryza sativa* L.) with different Cd-accumulating characteristics. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 264, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.114736>., Registrované v: WOS
30. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM,

- Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad - ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (*Zea mays* L.) for phytomanagement of Cd-contaminated soils: a critical review. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS
31. [1.1] RODRIGUEZ-CELMA, Jorge - LATTANZIO, Giuseppe - VILLARROYA, Dido - GUTIERREZ-CARBONELL, Elain - CEBALLOS-LAITA, Laura - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - GRUSAK, Michael A. - ABADIA, Anunciacion - ABADIA, Javier - LOPEZ-MILLAN, Ana-Flor. Effects of Fe deficiency on the protein profiles and lignin composition of stem tissues from *Medicago truncatula* in absence or presence of calcium carbonate. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2016, vol. 140, no., pp. 1-12., Registrované v: WOS
32. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - SCHWAB, Arthur P. - MA, Xingmao. Uptake, Accumulation, and in Planta Distribution of Coexisting Cerium Oxide Nanoparticles and Cadmium in *Glycine max* (L.) Merr. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2017, vol. 51, no. 21, pp. 12815-12824., Registrované v: WOS
33. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - MA, Xingmao. Cerium oxide nanoparticles alter the salt stress tolerance of *Brassica napus* L. by modifying the formation of root apoplastic barriers. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 229, no., pp. 132-138., Registrované v: WOS
34. [1.1] SAHI, Vaidurya Pratap - BALUSKA, Frantisek. Apoplastic Barriers: Their Structure and Function from a Historical Perspective. In CONCEPTS IN CELL BIOLOGY HISTORY AND EVOLUTION. ISSN 1861-1370, 2018, vol. 23, no., pp. 155-183., Registrované v: WOS
35. [1.1] SIQUEIRA-SILVA, Advanio Inacio - RIOS, Camilla Oliveira - PEREIRA, Eduardo Gusmao. Iron toxicity resistance strategies in tropical grasses: The role of apoplastic radicular barriers. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2019, vol. 78, no., pp. 257-266., Registrované v: WOS
36. [1.1] SOHAIL, Muhammad Irfan - ARIF, M. - RAUF, A. - RIZWAN, Muhammad - ALI, Shafaqat - SAQIB, M. - ZIA-UR-REHMAN, Muhammad. Organic Manures for Cadmium Tolerance and Remediation. In CADMIUM TOLERANCE IN PLANTS: AGRONOMIC, MOLECULAR, SIGNALING, AND OMIC APPROACHES, 2019, vol., no., pp. 19-67., Registrované v: WOS
37. [1.1] SOUZA, Iara da C. - ROCHA, Livia D. - MOROZESK, Mariana - BONOMO, Marina M. - ARRIVABENE, Hiulana P. - DUARTE, Ian D. - FURLAN, Larissa M. - MONFERRAN, Magdalena V. - MAZIK, Krysia - ELLIOTT, Michael - MATSUMOTO, Silvia T. - MILANEZ, Camilla R. D. - WUNDERLIN, Daniel A. - FERNANDES, Marisa N. Changes in bioaccumulation and translocation patterns between root and leaf of *Avicennia schaueriana* as adaptive response to different levels of metals in mangrove system. In MARINE POLLUTION BULLETIN. ISSN 0025-326X, 2015, vol. 94, no. 1-2, pp. 176-184., Registrované v: WOS
38. [1.1] TEFERA, Wolde - LIU, Ting - LU, Lingli - GE, Jun - WEBB, Samuel M. - SEIFU, Weldemariam - TIAN, Shengke. Micro-XRF mapping and quantitative assessment of Cd in rice (*Oryza sativa* L.) roots. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513,

- 2020, vol. 193, no., pp. Dostupné na:
<https://doi.org/10.1016/j.ecoenv.2020.110245>., Registrované v: WOS
39. [1.1] TIMMERER, Ulrike - LEHMANN, Lennart - SCHNUG, Ewald - BLOEM, Elke. Toxic Effects of Single Antibiotics and Antibiotics in Combination on Germination and Growth of *Sinapis alba* L. In PLANTS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na:
<https://doi.org/10.3390/plants9010107>., Registrované v: WOS
40. [1.1] TYLOVA, Edita - PECKOVA, Eva - BLASCHEOVA, Zuzana - SOUKUP, Ales. Casparian bands and suberin lamellae in exodermis of lateral roots: an important trait of roots system response to abiotic stress factors. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 120, no. 1, pp. 71-85., Registrované v: WOS
41. [1.1] VACULIKOVA, Miroslava - VACULIK, Marek - TANDY, Susan - LUXOVA, Miroslava - SCHULIN, Rainer. Alleviation of antimonate (SbV) toxicity in maize by silicon (Si). In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2016, vol. 128, no., pp. 11-17., Registrované v: WOS
42. [1.1] VATEHOVA, Zuzana - MALOVIKOVA, Anna - KOLLAROVA, Karin - KUCEROVA, Danica - LISKOVA, Desana. Impact of cadmium stress on two maize hybrids. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2016, vol. 108, no., pp. 90-98., Registrované v: WOS
43. [1.1] WANG, Peng - DENG, Xiaojuan - HUANG, Yian - FANG, Xiaolong - ZHANG, Jie - WAN, Haibo - YANG, Cunyi. Comparison of subcellular distribution and chemical forms of cadmium among four soybean cultivars at young seedlings. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2015, vol. 22, no. 24, pp. 19584-19595., Registrované v: WOS
44. [1.1] WANG, Qiong - MA, Luyao - ZHOU, Qiyao - CHEN, Bao - ZHANG, Xincheng - WU, Yingjie - PAN, Fengshan - HUANG, Lukuan - YANG, Xiaoe - FENG, Ying. Inoculation of plant growth promoting bacteria from hyperaccumulator facilitated non-host root development and provided promising agents for elevated phytoremediation efficiency. In CHEMOSPHERE. ISSN 0045-6535, 2019, vol. 234, no., pp. 769-776., Registrované v: WOS
45. [1.1] WU, Jiawen - MOCK, Hans-Peter - GIEHL, Ricardo F. H. - PITANN, Britta - MUEHLING, Karl Hermann. Silicon decreases cadmium concentrations by modulating root endodermal suberin development in wheat plants. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2019, vol. 364, no., pp. 581-590., Registrované v: WOS
46. [1.1] WU, Yingjie - MA, Luyao - LIU, Qizhen - VESTERGARD, Mette - TOPALOVIC, Olivera - WANG, Qiong - ZHOU, Qiyao - HUANG, Lukuan - YANG, Xiaoe - FENG, Ying. The plant-growth promoting bacteria promote cadmium uptake by inducing a hormonal crosstalk and lateral root formation in a hyperaccumulator plant *Sedum alfredii*. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 395, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.122661>., Registrované v: WOS
47. [1.1] YANG, Jia-Shuo - DAI, Yanjiao - LIU, Yongjun - DUAN, Shuhui - LI, Yang-Yang - HU, Risheng - ZHOU, Zhicheng - SHI, Yi - LIU, Haiwei - WANG, Shusheng. Reduced cadmium accumulation in tobacco by

sodium chloride priming. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 30, pp. 37410-37418. Dostupné na: <https://doi.org/10.1007/s11356-020-09134-z>, Registrované v: WOS

48. [1.1] YU QIONG - GUO YUAN - XIE ZHIXIA - SUN KE - XU JIN - YANG TING - LIU XIAOJING. EFFECTS OF SALT STRESS ON TILLERING NODES TO THE GROWTH OF WINTER WHEAT (TRITICUM AESTIVUM L.). In PAKISTAN JOURNAL OF BOTANY. ISSN 0556-3321, 2016, vol. 48, no. 5, pp. 1775-1782., Registrované v: WOS

49. [1.1] ZIA-UR-REHMAN, Muhammad - SABIR, Muhammad - RIZWAN, Muhammad - SAIFULLAH - AHMED, Hamaad Raza - NADEEM, Muhammad. Remediating Cadmium-Contaminated Soils by Growing Grain Crops Using Inorganic Amendments. In SOIL REMEDIATION AND PLANTS: PROSPECTS AND CHALLENGES, 2015, vol., no., pp. 367-396., Registrované v: WOS

50. [1.2] NAEEM, Asif - ZAFAR, Mehwish - KHALID, Hinnan - ZIA-UR-REHMAN, Muhammad - AHMAD, Zahoor - AYUB, Muhammad Ashar - FAROOQ QAYYUM, M. Cadmium-Induced Imbalance in Nutrient and Water Uptake by Plants. In Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation, 2018-12-05, pp. 299-326., Registrované v: SCOPUS

51. [1.2] RUMANTA, Maman. The potential of rhizophora mucronata and sonneratia caseolaris for phytoremediation of lead pollution in Muara Angke, North Jakarta, Indonesia. In Biodiversitas. ISSN 1412033X, 2019-08-01, 20, 8, pp. 2151-2128., Registrované v: SCOPUS

52. [1.2] SOUKUP, Aleš - TYLOVÁ, Edit. Apoplastic barriers: Their structure and function from a historical perspective. In Plant Cell Monographs. ISSN 18611370, 2018-01-01, 23, pp. 155-183., Registrované v: SCOPUS

ADCA1102 REHÁK, J. - FIŠERA, L. - KOŽÍŠEK, J. - PERAŠÍNOVÁ, L. - STEINER, Bohumil - KOŮŠ, Miroslav. Samarium diiodide-induced reductive coupling of chiral nitrones with methyl acrylate. In ARKIVOC, viii, vol. 2008, part, (2008).

Ohlasy:

1. [1.1] RACINE, Emilie - BURCHAK, Olga N. - PY, Sandrine. Synthesis of Acyloxynitrones and Reactivity towards Samarium Diiodide. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2016, vol., no. 23, pp. 4003-4012., Registrované v: WOS

2. [1.1] ZHENG, Xiao - HUANG, Pei-Qiang. SmI₂ and Titanocene-Mediated Coupling Reactions of alpha-Aminoalkyl Radicals and Applications to the Synthesis of Aza-Heterocycles. In PROGRESS IN CHEMISTRY. ISSN 1005-281X, 2018, vol. 30, no. 5, pp. 528-546., Registrované v: WOS

ADCA1103 REMEŠ, Zdeněk - MIČOVÁ, Júlia - KRIST, Pavel - CHVÁTIL, David - EFFENBERG, Roman - NESLÁDEK, Miloš. N-V-related fluorescence of the monoenergetic high-energy electronirradiated diamond nanoparticles. In *Physica Status Solidi A : applications and materials science*, 2015, vol. 212, p. 2519-2524. (2014: 1.616 - IF, Q2 - JCR, 0.688 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.201532180>

Ohlasy:

1. [1.1] HAVLIK, Jan - PETRAKOVA, Vladimira - KUCKA, Jan - RAABOVA, Helena - PANEK, Dalibor - STEPAN, Vaclav - CILOVA, Zuzana Zlamalova - REINECK, Philipp - STURSA, Jan - KUCERA, Jan - HRUBY, Martin - CIGLER, Petr. Extremely rapid isotropic irradiation of nanoparticles with ions generated in situ by a nuclear reaction. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] MERCHANT, Kelsie - SARKAR, Susanta K. Fluorescent Nanodiamonds for Molecular and Cellular Bioimaging. In IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS. ISSN 1077-260X, 2016, vol. 22, no. 3, pp., Registrované v: WOS
3. [1.1] REINECK, Philipp - TRINDADE, Leevan Fremiot - HAVLIK, Jan - STURSA, Jan - HEFFERNAN, Ashleigh - ELBOURNE, Aaron - ORTH, Antony - CAPELLI, Marco - CIGLER, Petr - SIMPSON, David A. - GIBSON, Brant C. Not All Fluorescent Nanodiamonds Are Created Equal: A Comparative Study. In PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION. ISSN 0934-0866, 2019, vol. 36, no. 3, pp., Registrované v: WOS
4. [1.1] TREUSSART, Francois - VLASOV, Igor I. Photoluminescence of color centers in nanodiamonds. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 155-181., Registrované v: WOS

ADCA1104 RENDIČ, D. - KLAUDINY, Jaroslav - STEMMER, U. - SCHMIDT, J. - PASCHINGER, K. - WILSON, I.B.H. Towards abolition of immunogenic structures in insect cells: Characterization of a honey-bee (*Apis mellifera*) multi-gene family reveals both an allergy-related core alpha 1,3-fucosyltransferase and the first insect Lewis-histo-blood-group-related antigen-synthesizing enzyme. In *Biochemical Journal*, 2007, vol. 402, p. 105-115. (2006: 4.100 - IF, Q2 - JCR, 2.853 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20060964>

Ohlasy:

1. [1.1] MINAGAWA, Sachi - SEKIGUCHI, Satoshi - NAKASO, Yuzuru - TOMITA, Masahiro - TAKAHISA, Manabu - YASUDA, Hideyo. Identification of Core Alpha 1,3-Fucosyltransferase Gene From Silkworm: An Insect Popularly Used to Express Mammalian Proteins. In JOURNAL OF INSECT SCIENCE. ISSN 1536-2442, 2015, vol. 15, no., pp., Registrované v: WOS
2. [1.1] OKADA, Takahiro - IHARA, Hideyuki - IKEDA, Yoshitaka. Characterization of MiFUT11 from *Mangifera indica* L.: A functional core alpha 1, 3-fucosyltransferase potentially involved in the biosynthesis of immunogenic carbohydrates in mango fruit. In PHYTOCHEMISTRY. ISSN 0031-9422, 2019, vol. 165, no., pp., Registrované v: WOS
3. [1.1] RODERER, Daniel - BROECKER, Felix - SITSEL, Oleg - KAPLONEK, Paulina - LEIDREITER, Franziska - SEEBERGER, Peter H. - RAUNSER, Stefan. Glycan-dependent cell adhesion mechanism of Tc toxins. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-16536-7>., Registrované v: WOS

ADCA1105 REVAJOVÁ, V. - LEVKUT, Mikuláš - LEVKUTOVÁ, M. - BOŘUTOVÁ, Radka - GREŠÁKOVÁ, Ľubomíra - KOŠÍKOVÁ, Božena - LENG, Ľubomír. Effect of lignin supplementation of a diet contaminated with Fusarium mycotoxins on blood and intestinal lymphocyte subpopulations in chickens. In *Acta Veterinaria Hungarica*, 2013, vol. 61, no. 3, p. 354-365. (2012: 1.173 - IF, Q2 - JCR, 0.422 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0236-6290. Dostupné na: <https://doi.org/10.1556/AVet.2013.023>

Ohlasy:

1. [1.1] HUSSEIN, Sherzad M. - FRANKEL, Theresa L. Effect of Varying Proportions of Lignin and Cellulose Supplements on Immune Function and Lymphoid Organs of Layer Poultry (*Gallus gallus*). In JOURNAL OF POULTRY SCIENCE. ISSN 1346-7395, 2019, vol. 56, no. 1, pp. 71-77., Registrované v: WOS
2. [1.1] KARMANOV, Anatoly P. - KANARSKY, Albert V. - KANARSKAYA, Zosya A. - KOICHEVA, Ludmila S. - SEMENOV, Eduard I. - BOGDANOVICH, Nikolai I. - BELYY, Vladimir A. In vitro adsorption-desorption of aflatoxin B1 on Pepper's lignins isolated from grassy plants. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 144, no., pp. 111-117. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.081>., Registrované v: WOS
3. [1.1] MARKOWIAK, Paulina - SLIZEWSKA, Katarzyna - NOWAK, Adriana - CHLEBICZ, Agnieszka - ZBIKOWSKI, Artur - PAWLOWSKI, Karol - SZELESZCZUK, Piotr. Probiotic microorganisms detoxify ochratoxin A in both a chicken liver cell line and chickens. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2019, vol. 99, no. 9, pp. 4309-4318., Registrované v: WOS
4. [1.1] SOLCAN, Carmen - PAVEL, Geta - FLORISTEAN, Viorel Cezar - CHIRIAC, Ioan Sorin Beschea - SLENCU, Bogdan Gabriel - SOLCAN, Gheorghe. EFFECT OF OCHRATOXIN A ON THE INTESTINAL MUCOSA AND MUCOSA-ASSOCIATED LYMPHOID TISSUES IN BROILER CHICKENS. In ACTA VETERINARIA HUNGARICA. ISSN 0236-6290, 2015, vol. 63, no. 1, p. 30-48., Registrované v: WOS
5. [1.1] TAMMINEN, Lena-Mari - EMANUELSON, Ulf - BLANCO-PENEDO, Isabel. Systematic Review of Phytotherapeutic Treatments for Different Farm Animals Under European Conditions. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2018, vol. 5, art. no. 140., Registrované v: WOS
6. [1.1] YANG, Xue - GAO, Yanan - YAN, Qiaoyan - BAO, Xiaoyu - ZHAO, Shengguo - WANG, Jiaqi - ZHENG, Nan. Transcriptome Analysis of Ochratoxin A-Induced Apoptosis in Differentiated Caco-2 Cells. In TOXINS, 2020, vol. 12, no. 1, pp., Registrované v: WOS
7. [1.2] HUSSIEN, Ahmed Mohamed Saied - BADR, Ahmed Noah - NAEEM, Mohamed Ahmed. Innovative nutritious biscuits limit aflatoxin contamination. In Pakistan Journal of Biological Sciences. ISSN 10288880, 2019-01-01, 22, 3, pp. 133-142., Registrované v: SCOPUS

ADCA1106 REXOVÁ-BENKOVÁ, Ľubomíra - MRÁČKOVÁ, M. - LUKNÁR, O.. In Role of sec-alcoholic groups of D-galacturonan in its degradation by

endo-D-galacturonase. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 3204-3213. ISSN 0010-0765.

Ohlasy:

1. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS

ADCA1107 REXOVÁ-BENKOVÁ, Ľubomíra. On the character of the interaction of endopolygalacturonase with cross-linked pectic acid. In *Biochimica et Biophysica Acta-Enzymology*, 1972, vol. 276, p. 215-220.

Ohlasy:

1. [1.1] KIRSCH, Roy - HECKEL, David G. - PAUCHET, Yannick. How the rice weevil breaks down the pectin network: Enzymatic synergism and sub-functionalization. In *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0965-1748, 2016, vol. 71, no., pp. 72-82., Registrované v: WOS

ADCA1108 REXOVÁ-BENKOVÁ, Ľubomíra - TIBENSKÝ, V.. Selective purification of *Aspergillus niger* endopolygalacturonase by affinity chromatography on cross-linked pectic acid. In *Biochimica et Biophysica Acta-Enzymology*, 1972, vol. 268, p. 187-193. Dostupné na: [https://doi.org/10.1016/0005-2744\(72\)90213-6](https://doi.org/10.1016/0005-2744(72)90213-6)

Ohlasy:

1. [1.1] KIRSCH, Roy - HECKEL, David G. - PAUCHET, Yannick. How the rice weevil breaks down the pectin network: Enzymatic synergism and sub-functionalization. In *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0965-1748, 2016, vol. 71, no., pp. 72-82., Registrované v: WOS

ADCA1109 REXOVÁ-BENKOVÁ, Ľubomíra. The size of the binding site of an *Aspergillus niger* extracellular endopolygalacturonase. In *European Journal of Biochemistry*, 1973, vol.39, p. 109-115. ISSN 0014-2956.

Ohlasy:

1. [1.1] HETTIARACHCHI, Charith A. - MELTON, Laurence D. - MCGILLIVRAY, Duncan J. - LOVEDAY, Simon M. - GERRARD, Juliet A. - WILLIAMS, Martin A. K. beta-Lactoglobulin nanofibrils can be assembled into nanotapes via site-specific interactions with pectin. In *SOFT MATTER*. ISSN 1744-683X, 2016, vol. 12, no. 3, pp. 756-768., Registrované v: WOS
2. [1.2] SUDHEEP, N. M. - MARWAL, Avinash - LAKRA, Nita - ANWAR, Khalid - MAHMOOD, Saquib. Fascinating fungal endophytes role and possible beneficial applications: An overview. In *Plant-Microbe Interactions in Agro-Ecological Perspectives*, 2017-10-25, 1, pp. 275-290., Registrované v: SCOPUS

ADCA1110 RICE, P.J. - KELLEY, J.L. - KOGAN, Grigorij - ENSLEY, H.E. - KALBFLEISCH, J.H. - BROWDER, I.W. - WILLIAMS, D.I. Human monocyte scavenger receptors are pattern recognition receptors for (1→3)-β-D-glucans. In *Journal of Leukocyte Biology*, 2002, vol. 72, p. 140-146. ISSN 0741-5400.

Ohlasy:

1. [1.1] ALIABAD, Mohammad Hosein Bakhshi - JAFARI, Elham -

- KAKH, Mansoureh Karimi - NOSRATABABADI, Reza - BAKHSHI, Hamid - SHEIKHHA, Mohammad Hassan - BIDAHI, Reza - ASKARI, Azade - ARABABADI, Mohammad Kazemi. Anxiety leads to up-regulation of CD36 on the monocytes of chronic hepatitis B-infected patients. In INTERNATIONAL JOURNAL OF PSYCHIATRY IN MEDICINE. ISSN 0091-2174, 2016, vol. 51, no. 5, pp. 467-475., Registrované v: WOS
2. [1.1] ARENA, Mattia Pia - RUSSO, Pasquale - FIOCCO, Daniela - CAPOZZI, Vittorio - SPANO, Giuseppe. beta-Glucans and Synbiotic Foods. In PROBIOTICS, PREBIOTICS, AND SYNBIOTICS: BIOACTIVE FOODS IN HEALTH PROMOTION, 2016, vol., no., pp. 423-433., Registrované v: WOS
3. [1.1] BAERT, Kim - SONCK, Eva - GODDEERIS, Bruno M. - DEVRIENDT, Bert - COX, Eric. Cell type-specific differences in beta-glucan recognition and signalling in porcine innate immune cells. In DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. ISSN 0145-305X, 2015, vol. 48, no. 1, pp. 192-203., Registrované v: WOS
4. [1.1] BOUCHEMAL, Kawthar - WONG, Sarah Sze Wah - HUANG, Nicolas - WILLMENT, Janet Anne - LATGE, Jean-Paul - AIMANIANDA, Vishukumar. beta-Glucan Grafted Microcapsule, a Tool for Studying the Immunomodulatory Effect of Microbial Cell Wall Polysaccharides. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2019, vol. 30, no. 6, pp. 1788-1797., Registrované v: WOS
5. [1.1] BROADLEY, Steven P. - PLAUMANN, Ann - COLETTI, Raffaele - LEHMANN, Christin - WANISCH, Andreas - SEIDLMEIER, Amelie - ESSER, Knud - LUO, Shanshan - RAEMER, Patrick C. - MASSBERG, Steffen - BUSCH, Dirk H. - CAMPAGNE, Menno van Lookeren - VERSCHOOR, Admar. Dual-Track Clearance of Circulating Bacteria Balances Rapid Restoration of Blood Sterility with Induction of Adaptive Immunity. In CELL HOST & MICROBE. ISSN 1931-3128, 2016, vol. 20, no. 1, pp. 36-48., Registrované v: WOS
6. [1.1] CAMILLI, Giorgio - TABOURET, Guillaume - QUINTIN, Jessica. The Complexity of Fungal beta-Glucan in Health and Disease: effects on the Mononuclear Phagocyte System. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
7. [1.1] DE GRAAFF, Priscilla - GOVERS, Coen - WICHERS, Harry J. - DEBETS, Reno. Consumption of glucans to spice up T cell treatment of tumors: a review. In EXPERT OPINION ON BIOLOGICAL THERAPY. ISSN 1471-2598, 2018, vol. 18, no. 10, pp. 1023-1040., Registrované v: WOS
8. [1.1] DING, Jun - FENG, Tongbao - NING, Yongling - LI, Wenjing - WU, Qiyong - QIAN, Keqing - WANG, Yong - QI, Chunjian. beta-Glucan enhances cytotoxic T lymphocyte responses by activation of human monocyte-derived dendritic cells via the PI3K/AKT pathway. In HUMAN IMMUNOLOGY. ISSN 0198-8859, 2015, vol. 76, no. 2-3, pp. 146-154., Registrované v: WOS
9. [1.1] GELLER, Anne - SHRESTHA, Rejeena - YAN, Jun. Yeast-Derived beta-Glucan in Cancer: Novel Uses of a Traditional Therapeutic. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 15, pp., Registrované v: WOS
10. [1.1] GOUR, Naina - LAJOIE, Stephane - SMOLE, Ursula - WHITE, Marquitta - HU, Donglei - GODDARD, Page - HUNTSMAN, Scott - ENG, Celeste - MAK, Angel - OH, Sam - KIM, Jung-Hyun - SHARMA, Annu -

- PLANTE, Sophie - SALEM, Ikhlass Haj - RESCH, Yvonne - XIAO, Xiao - YAO, Nu - SINGH, Anju - VRTALA, Susanne - CHAKIR, Jamila - BURCHARD, Esteban G. - LANE, Andrew P. - WILLS-KARP, Marsha. Dysregulated invertebrate tropomyosin-dectin-1 interaction confers susceptibility to allergic diseases. In *SCIENCE IMMUNOLOGY*. ISSN 2470-9468, 2018, vol. 3, no. 20, pp., Registrované v: WOS
11. [1.1] HAN, Seungmin - KWON, Taeyun - UM, Jo-Eun - HAAM, Seungjoo - KIM, Woo-Jae. Highly Selective Photothermal Therapy by a Phenoxyated-Dextran-Functionalized Smart Carbon Nanotube Platform. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2016, vol. 5, no. 10, pp. 1147-1156., Registrované v: WOS
12. [1.1] IRAZ, M. - BILGIC, S. - SAMDANCI, E. - OZEROL, E. - TANBEK, K. - IRAZ, M. Preventive and early therapeutic effects of beta-Glucan on the bleomycin-induced lung fibrosis in rats. In *EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES*. ISSN 1128-3602, 2015, vol. 19, no. 8, pp. 1505-1516., Registrované v: WOS
13. [1.1] LEGENTIL, Laurent - PARIS, Franck - BALLET, Caroline - TROUVELOT, Sophie - DAIRE, Xavier - VETVICKA, Vaclav - FERRIERES, Vincent. Molecular Interactions of beta-(1> 3)-Glucans with Their Receptors. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 6, pp. 9745-9766., Registrované v: WOS
14. [1.1] LI, Huixian - DONG, Zhou - LIU, Xiaojia - CHEN, Huamin - LAI, Furao - ZHANG, Mengmeng. Structure characterization of two novel polysaccharides from *Colocasia esculenta* (taro) and a comparative study of their immunomodulatory activities. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 42, no., pp. 47-57., Registrované v: WOS
15. [1.1] LOVE, Ryan J. - PATENAUDE, Mathew - DORRINGTON, Michael - BOWDISH, Dawn M. E. - HOARE, Todd - JONES, Kim S. An investigation of scavenger receptor mediated leukocyte binding to polyanionic and uncharged polymer hydrogels. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*. ISSN 1549-3296, 2015, vol. 103, no. 5, pp. 1605-1612., Registrované v: WOS
16. [1.1] PATTEN, Daniel A. - SHETTY, Shishir. More Than Just a Removal Service: Scavenger Receptors in Leukocyte Trafficking. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
17. [1.1] ROUDI, Raheleh - MOHAMMADI, Shahla Roudbar - ROUDBARY, Maryam - MOHSENZADEGAN, Monireh. Lung cancer and beta-glucans: review of potential therapeutic applications. In *INVESTIGATIONAL NEW DRUGS*. ISSN 0167-6997, 2017, vol. 35, no. 4, pp. 509-517., Registrované v: WOS
18. [1.1] SIGOLA, Lynette B. - FUENTES, Ana-Lucia - MILLIS, Leonard M. - VAPENIK, Jacqueline - MURIRA, Armstrong. Effects of Toll-like receptor ligands on RAW 264.7 macrophage morphology and zymosan phagocytosis. In *TISSUE & CELL*. ISSN 0040-8166, 2016, vol. 48, no. 4, pp. 389-396., Registrované v: WOS
19. [1.1] SURAYOT, Utoomporn - YOU, SangGuan. Structural effects of sulfated polysaccharides from *Codium fragile* on NK cell activation and cytotoxicity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 117-124.,

Registrované v: WOS

20. [1.1] SURAYOT, Utoomporn - LEE, SangMin - YOU, SangGuan. Effects of sulfated fucan from the sea cucumber *Stichopus japonicus* on natural killer cell activation and cytotoxicity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 177-184., Registrované v: WOS
21. [1.1] THUONG, N. T. T. - TRAM, T. T. B. - DINH, T. D. - THAI, P. V. K. - HEEMSKERK, D. - BANG, N. D. - CHAU, T. T. H. - RUSSELL, D. G. - THWAITES, G. E. - HAWN, T. R. - CAWS, M. - DUNSTAN, S. J. MARCO variants are associated with phagocytosis, pulmonary tuberculosis susceptibility and Beijing lineage. In GENES AND IMMUNITY. ISSN 1466-4879, 2016, vol. 17, no. 7, pp. 419-425., Registrované v: WOS
22. [1.1] WALACHOWSKI, Sarah - TABOURET, Guillaume - FOUCRAS, Gilles. Triggering Dectin-1-Pathway Alone Is Not Sufficient to Induce Cytokine Production by Murine Macrophages. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 2, pp., Registrované v: WOS
23. [1.1] WANG, Kun - LI, Wei - RUI, Xin - LI, Teng - CHEN, Xiaohong - JIANG, Mei - DONG, Mingsheng. Chemical modification, characterization and bioactivity of a released exopolysaccharide (r-EPS1) from *Lactobacillus plantarum* 70810. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2015, vol. 32, no. 1-2, pp. 17-27., Registrované v: WOS
24. [1.1] WANG, Qiang - SHENG, Xiaojing - SHI, Aimin - HU, Hui - YANG, Ying - LIU, Li - FEI, Ling - LIU, Hongzhi. beta-Glucans: Relationships between Modification, Conformation and Functional Activities. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS
25. [1.1] WOJCIK, Roman - ZABEK, Katarzyna - MALACZEWSKA, Joanna - MILEWSKI, Stanislaw - KACZOREK-LUKOWSKA, Edyta. The Effects of beta-Hydroxy-beta-Methylbutyrate (HMB) on Chemotaxis, Phagocytosis, and Oxidative Burst of Peripheral Blood Granulocytes and Monocytes in Goats. In ANIMALS. ISSN 2076-2615, 2019, vol. 9, no. 12, pp., Registrované v: WOS
26. [1.1] XU, Yong - WU, Yu-ji - SUN, Pei-long - ZHANG, Fu-ming - LINHARDT, Robert J. - ZHANG, An-qiang. Chemically modified polysaccharides: Synthesis, characterization, structure activity relationships of action. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 132, no., pp. 970-977., Registrované v: WOS
27. [1.1] YELITHAO, Khamphone - SURAYOT, Utoomporn - LEE, Changsheng - PALANISAMY, Subramanian - PRABHU, Narayanasamy Marimuthu - LEE, JuHun - YOU, SangGuan. Studies on structural properties and immune-enhancing activities of glycomannans from *Schizophyllum commune*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 218, no., pp. 37-45., Registrované v: WOS
28. [1.1] YUAN, Bangqing - SHEN, Hanchao - LIN, Li - SU, Tonggang - HUANG, Zemin - YANG, Zhao. Scavenger receptor SRA attenuates TLR4-induced microglia activation in intracerebral hemorrhage. In JOURNAL OF NEUROIMMUNOLOGY. ISSN 0165-5728, 2015, vol. 289, no., pp. 87-92., Registrované v: WOS
29. [1.2] ARENA, Mattia Pia - RUSSO, Pasquale - FIOCCO, Daniela - CAPOZZI, Vittorio - SPANO, Giuseppe. β -Glucans and Synbiotic Foods. In

- Probiotics, Prebiotics, and Synbiotics: Bioactive Foods in Health Promotion, 2015-10-08, pp. 423-433., Registrované v: SCOPUS
30. [1.2] BANIK, Samudra Prosad - KHOWALA, Suman - PAL, Chiranjib - MUKHERJEE, Soumya. Proteomic Approaches to Identify Novel Therapeutics and Nutraceuticals from Filamentous Fungi: Prospects and Challenges. In *Genomics, Proteomics and Metabolomics in Nutraceuticals and Functional Foods: Second Edition*, 2015-10-05, pp. 265-295., Registrované v: SCOPUS
31. [1.2] BERVEN, Lise - SKJELDAL, Frode Miltzow - PRYDZ, Kristian - ZUBAIDI, Layla Mohammad Khader - BALLANCE, Simon - THIDEMANN JOHANSEN, Harald - SAMUELSEN, Anne Berit C. Particulate yeast β -glucan is internalized by RAW 264.7 macrophages and reduces the activity of the tumor-associated protease legumain. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2015-07-01, 6, 1, pp. 15-23., Registrované v: SCOPUS
32. [1.2] KIM, Han Wool - JEE, Hee Sook - SHIN, Kwang Soon. Polysaccharide isolated from fermented barley extract activates macrophages via the MAPK and NF- κ B pathways. In *Korean Journal of Food Science and Technology*. ISSN 03676293, 2018-01-01, 50, 5, pp. 555-563., Registrované v: SCOPUS
33. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In *Bioactive Polysaccharides*. (Elsevier, pp. 1-554), Registrované v: SCOPUS
34. [1.2] PARK, Hye Ryung - SUH, Hyung Joo - YU, Kwang Won - KIM, Tae Young - SHIN, Kwang Soon. Chemical properties and immuno-stimulating activities of crude polysaccharides from enzyme digests of tea leaves. In *Journal of the Korean Society of Food Science and Nutrition*. ISSN 12263311, 2015-01-01, 44, 5, pp. 664-672., Registrované v: SCOPUS
35. [1.2] SANTA, Herta Stutz Dalla - ROMÃO, Pedro Roosevelt Torres - PERES, Alessandra - SOVRANI, Vanessa - OLIVEIRA, Fabio Rodrigues - MONTEIRO, Marta Chagas. Dietary polysaccharides and immune modulation. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 1991-2016., Registrované v: SCOPUS

ADCA1111 ROBAJAC, Dragana** - MASNIKOSA, Romana - NEMČOVIČ, Marek - KRIŽÁKOVÁ, Martina, Zámorová - BELICKÁ, Ľudmila, Kľuková - BARÁTH, Peter - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycoanalysis of the placental membrane glycoproteins throughout placental development. In *Mechanisms of Ageing and Development*, 2019, vol. 183, art. no. 111151. (2018: 3.603 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0047-6374. Dostupné na: <https://doi.org/10.1016/j.mad.2019.111151>

Ohlasy:

1. [1.1] CAMPUZANO, Marisol - BUENO-SANCHEZ, Julio - AGUDELO-JARAMILLO, Bernardo - QUINTANA-CASTILLO, Juan C. - CHAOUAT, Gerard C. - MALDONADO-ESTRADA, Juan G. Glycan expression in chorionic villi from histocultures of women with early-onset preeclampsia: Immunomodulatory effects on peripheral natural killer cells. In *JOURNAL OF REPRODUCTIVE IMMUNOLOGY*. ISSN 0165-0378, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.jri.2020.103212>, Registrované v: WOS

2. [1.1] ZHOU, Xiaoman - YANG, Ganglong - GUAN, Feng. Biological Functions and Analytical Strategies of Sialic Acids in Tumor. In *CELLS*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/cells9020273>., Registrované v: WOS

ADCA1112 ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav - MIKOVIČ, Željko - NEDIČ, Olgica. Screening for the best detergent for the isolation of placental membrane proteins. In *International Journal of Biological Macromolecules*, 2017, vol. 102, p. 431-437. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.04.046>

Ohlasy:

1. [1.1] SILVA, Livia Lais de Santana - SANTOS, Nataly Diniz de Lima - SILVA, Stella Cristina Cabral - LIMA, Thamarah de Albuquerque - COELHO, Luana Cassandra Breitenbach Barroso - ZINGALI, Russolina Benedeta - NAVARRO, Daniela Maria do Amaral Ferraz - NAPOLEAO, Thiago Henrique - PAIVA, Patricia Maria Guedes. Investigation of the ability of the oviposition-stimulant lectin from *Moringa oleifera* seeds (WSMoL) to bind with membrane proteins present in the legs of *Aedes aegypti*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 657-662. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.06.189>., Registrované v: WOS

2. [1.1] TAVANANDI, Hrishikesh A. - VANJARI, Prasad - RAGHAVARAO, K. S. M. S. Synergistic method for extraction of high purity Allophycocyanin from dry biomass of *Arthrospira platensis* and utilization of spent biomass for recovery of carotenoids. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2019, vol. 225, no., pp. 97-111., Registrované v: WOS

ADCA1113 ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina, Zámorová - MASNIKOSA, Romana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - NEDIČ, Olgica - KATRLÍK, Jaroslav**. Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. In *International Journal of Biological Macromolecules*, 2020, vol. 144, p. 932-937. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.170>

Ohlasy:

1. [1.1] DUAN, Xiaoying - CHENG, Yuanfang - SANG, Feng - LIU, Lina - LIU, Zhen - CUI, Lin - LI, Haixia. Enhanced Targeting Function and Anti-colon Cancer Efficacy by Wheat Germ Agglutinin-modified Nanoparticles for Matrine Delivery. In *INTERNATIONAL JOURNAL OF PHARMACOLOGY*. ISSN 1811-7775, 2020, vol. 16, no. 6, pp. 470-478.

Dostupné na: <https://doi.org/10.3923/ijp.2020.470.478>., Registrované v: WOS

ADCA1114 ROESSL, Ulrich - NAHÁLKA, Jozef - NIDETZKY, Bernd. Carrier-free immobilized enzymes for biocatalysis. In *Biotechnology Letters*, 2010, vol.32, p. 341-350. (2009: 1.636 - IF, Q3 - JCR, 0.704 - SJR, Q2 - SJR, Current

Contents - CCC). (2010 - Current Contents). ISSN 0141-5492. Dostupné na:
<https://doi.org/10.1007/s10529-009-0173-4>

Ohlasy:

1. [1.1] ABE, Satoshi - IJIRI, Hiroshi - NEGISHI, Hashiru - YAMANAKA, Hiroyuki - SASAKI, Katsuhito - HIRATA, Kunio - MORI, Hajime - UENO, Takafumi. Design of Enzyme-Encapsulated Protein Containers by In Vivo Crystal Engineering. In ADVANCED MATERIALS. ISSN 0935-9648, 2015, vol. 27, no. 48, pp. 7951-7956., Registrované v: WOS
2. [1.1] CUI, Jian Dong - JIA, Shi Ru. Optimization protocols and improved strategies of cross-linked enzyme aggregates technology: current development and future challenges. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2015, vol. 35, no. 1, pp. 15-28., Registrované v: WOS
3. [1.1] FOPASE, Rushikesh - PARAMASIVAM, Santhosh - KALE, Paresh - PARAMASIVAN, Balasubramanian. Strategies, challenges and opportunities of enzyme immobilization on porous silicon for biosensing applications. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 2020, vol. 8, no. 5, pp. Dostupné na: <https://doi.org/10.1016/j.jece.2020.104266>., Registrované v: WOS
4. [1.1] GRAJALES-HERNANDEZ, Daniel A. - VELASCO-LOZANO, Susana - ARMENDARIZ-RUIZ, Mariana A. - RODRIGUEZ-GONZALEZ, Jorge A. - MARIA CAMACHO-RUIZ, Rosa - ASAFF-TORRES, Ali - LOPEZ-GALLEGO, Fernando - CARLOS MATEOS-DIAZ, Juan. Carrier-bound and carrier-free immobilization of type A feruloyl esterase from *Aspergillus niger*: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2020, vol. 316, no., pp. 6-16. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.04.004>., Registrované v: WOS
5. [1.1] HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in *Escherichia coli*. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 8, pp. 563-571. Dostupné na: <https://doi.org/10.1007/s10295-020-02294-4>., Registrované v: WOS
6. [1.1] CHEN, Huayou - CHEN, Zhi - NI, Zhong - TIAN, Rui - ZHANG, Tianxi - JIA, Jinru - CHEN, Keping - YANG, Shengli. Display of *Thermotoga maritima* MSB8 nitrilase on the spore surface of *Bacillus subtilis* using out coat protein CotG as the fusion partner. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 123, no., pp. 73-80., Registrované v: WOS
7. [1.1] CHEN, Huayou - TIAN, Rui - NI, Zhong - ZHANG, Qing - ZHANG, Tianxi - CHEN, Zhi - CHEN, Keping - YANG, Shengli. Surface display of the thermophilic lipase Tm1350 on the spore of *Bacillus subtilis* by the CotB anchor protein. In EXTREMOPHILES. ISSN 1431-0651, 2015, vol. 19, no. 4, pp. 799-808., Registrované v: WOS
8. [1.1] ISLAM, Mohammad S. - HARNETT, Cindy K. Miniaturized systems for evaluating enzyme activity in polymeric membrane bioreactors. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2019, vol. 19, no. 11, pp. 749-758., Registrované v: WOS
9. [1.1] JAMWAL, Shivani - DHARELA, Rohini - GUPTA, Reena -

- AHN, J.H. - CHAUHAN, Ghanshyam S. Synthesis of crosslinked lipase aggregates and their use in the synthesis of aspirin. In CHEMICAL ENGINEERING RESEARCH & DESIGN. ISSN 0263-8762, 2015, vol. 97, no., pp. 159-164., Registrované v: WOS
10. [1.1] JAMWAL, Shivani - CHAUHAN, Ghanshyam S. - AHN, Jou-Hyeon - REDDY, N. S. Cellulase stabilization by crosslinking with ethylene glycol dimethacrylate and evaluation of its activity including in a water-ionic liquid mixture. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 30, pp. 25485-25491., Registrované v: WOS
11. [1.1] JAMWAL, Shivani - KUMAR, Dharamender - RANOTE, Sunita - CHAUHAN, Ghanshyam S. New Nanoaggregates of Crosslinked Laccase for Reactive Red Bioremediation. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, 2019, vol. 19, no. 11, pp. 7205-7214., Registrované v: WOS
12. [1.1] JAMWAL, Shivani - RANOTE, Sunita - DAUTOO, Umesh - CHAUHAN, Ghanshyam S. Improving activity and stabilization of urease by crosslinking to nanoaggregate forms for herbicide degradation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 158, no., pp. 521-529. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.224>., Registrované v: WOS
13. [1.1] KUMAR, Ashok - WU, Gaobing - LIU, Ziduo. Synthesis and characterization of cross linked enzyme aggregates of serine hydroxyl methyltransferase from *Idiomarina leihiensis*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 683-690., Registrované v: WOS
14. [1.1] LIU, Lin - BAO, Yanli - WANG, Jingze - XIAO, Chunsheng - CHEN, Li. Construction of carrier-free porphyrin-based drug self-framed delivery system to reverse multidrug resistance through photodynamic-chemotherapy (vol 177, 107922, 2020). In DYES AND PIGMENTS. ISSN 0143-7208, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.dyepig.2020.108650>., Registrované v: WOS
15. [1.1] LI, Xiaodong - YU, Zefen - BIAN, Zhaozhui - XU, Jianping - ZHANG, Li - QIAO, Min. Physicochemical Characterization of alpha-Amylase as Crosslinked Enzyme Aggregates. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 8, pp., Registrované v: WOS
16. [1.1] LUIS CORCHERO, Jose. Eukaryotic aggregates: from a model of conformational diseases to an emerging type of immobilized biocatalyzers. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 2, pp. 559-569., Registrované v: WOS
17. [1.1] MAHMOD, Safa Senan - YUSOF, Faridah - JAMI, Mohammed Saedi - KHANAHMADI, Soofia - SHAH, Harmen. Development of an immobilized biocatalyst with lipase and protease activities as a multipurpose cross-linked enzyme aggregate (multi-CLEA). In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2015, vol. 50, no. 12, pp. 2144-2157., Registrované v: WOS
18. [1.1] MENFAATLI, Esra - ZIHNIÖGLÜ, Figen. Carrier free immobilization and characterization of trypsin. In ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY. ISSN 2169-1401, 2015, vol. 43, no. 2, pp. 140-144., Registrované v: WOS
19. [1.1] NOORI, Rubia - PERWEZ, Mohammad - SARDAR, Meryam. Cross-linked Enzyme Aggregates: Current Developments and Applications. In

- BIOCATALYSIS: ENZYMATIC BASICS AND APPLICATIONS, 2019, vol., no., pp. 83-112., Registrované v: WOS
20. [1.1] QIU, Fang - LI, Feng-Yan - YANG, Qing-Yu. Preparation of Magnetic Immobilized Glucose Oxidase and Bleaching of Cotton Fabrics. In TEXTILE BIOENGINEERING AND INFORMATICS SYMPOSIUM PROCEEDINGS, 2017, VOL. 3. ISSN 1942-3438, 2017, vol., no., pp. 829-835., Registrované v: WOS
21. [1.1] RAHMAN, Noor Hidayah Abd - JAAFAR, Nardiah Rizwana - MURAD, Abdul Munir Abdul - BAKAR, Farah Diba Abu - ANNUAR, Nur Arbainah Shamsul - ILLIAS, Rosli Md. Novel cross-linked enzyme aggregates of levanase from *Bacillus lehensis* G1 for short-chain fructooligosaccharides synthesis: Developmental, physicochemical, kinetic and thermodynamic properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 577-589. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.262>., Registrované v: WOS
22. [1.1] REN, Sizhu - LI, Conghai - JIAO, Xiaobo - JIA, Shiru - JIANG, Yanjun - BILAL, Muhammad - CUI, Jiandong. Recent progress in multienzymes co-immobilization and multienzyme system applications. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2019, vol. 373, no., pp. 1254-1278., Registrované v: WOS
23. [1.1] RUEDA, Fabian - GASSER, Brigitte - SANCHEZ-CHARDI, Alejandro - ROLDAN, Mnica - VILLEGAS, Sandra - PUXBAUM, Verena - FERRER-MIRALLES, Neus - UNZUETA, Ugutz - VAZQUEZ, Esther - GARCIA-FRUITOS, Elena - MATTANOVICH, Diethard - VILLAVARDE, Antonio. Functional inclusion bodies produced in the yeast *Pichia pastoris*. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
24. [1.1] RUEDA, Nazzoly - DOS SANTOS, Jose C. S. - ORTIZ, Claudia - TORRES, Rodrigo - BARBOSA, Oveimar - RODRIGUES, Rafael C. - BERENGUER-MURCIA, Angel - FERNANDEZ-LAFUENTE, Roberto. Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. In CHEMICAL RECORD. ISSN 1527-8999, 2016, vol. 16, no. 3, pp. 1436-1455., Registrované v: WOS
25. [1.1] SCHMID-DANNERT, Claudia - LOPEZ-GALLEGO, Fernando. Advances and opportunities for the design of self-sufficient and spatially organized cell-free biocatalytic systems. In CURRENT OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2019, vol. 49, no., pp. 97-104., Registrované v: WOS
26. [1.1] SINGH, Anupam - UPADHYAY, Vaibhav - UPADHYAY, Arun Kumar - SINGH, Surinder Mohan - PANDA, Amulya Kumar. Protein recovery from inclusion bodies of *Escherichia coli* using mild solubilization process. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2015, vol. 14, no., pp., Registrované v: WOS
27. [1.1] SINGH, Anupam - UPADHYAY, Vaibhav - SINGH, Akansha - PANDA, Amulya K. Structure-Function Relationship of Inclusion Bodies of a Multimeric Protein. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00876>., Registrované v: WOS
28. [1.1] TU, Chunhao - ZHOU, Jin - PENG, Lei - MAN, Shuli - MA,

- Long. Self-assembled nano-aggregates of fluorinases demonstrate enhanced enzymatic activity, thermostability and reusability. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 2, pp. 648-656. Dostupné na: <https://doi.org/10.1039/c9bm00402e>., Registrované v: WOS
29. [1.1] WANG RONGMIN - LV SIYAO - LI TAO - HE YUFENG - SONG PENGFEI. Fabricating Polymer Microspheres through CaCO₃ Templates. In *PROGRESS IN CHEMISTRY*. ISSN 1005-281X, 2016, vol. 28, no. 1, pp. 75-82., Registrované v: WOS
30. [1.1] WANG, Mengfan - QI, Wei - SU, Rongxin - HE, Zhimin. Advances in carrier-bound and carrier-free immobilized nanobiocatalysts. In *CHEMICAL ENGINEERING SCIENCE*. ISSN 0009-2509, 2015, vol. 135, no., pp. 21-32., Registrované v: WOS
31. [1.1] WANG, Xu - ZHOU, Bihong - HU, Weike - ZHAO, Qing - LIN, Zhanglin. Formation of active inclusion bodies induced by hydrophobic self-assembling peptide GFIL8. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2015, vol. 14, no., pp., Registrované v: WOS
32. [1.1] XU, Meng-Qiu - WANG, Shuang-Shuang - LI, Li-Na - GAO, Jian - ZHANG, Ye-Wang. Combined Cross-Linked Enzyme Aggregates as Biocatalysts. In *CATALYSTS*. ISSN 2073-4344, 2018, vol. 8, no. 10, pp., Registrované v: WOS
33. [1.1] YE, Rong - HURLBURT, Tyler J. - SABYROV, Kairat - ALAYOGLU, Selim - SOMORJAI, Gabor A. Molecular catalysis science: Perspective on unifying the fields of catalysis. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2016, vol. 113, no. 19, pp. 5159-5166., Registrované v: WOS
34. [1.1] ZOU, Bin - CHU, Yanhong - XIA, Jiaojiao - CHEN, Xueshan - HUO, Shuhao. Immobilization of Lipase by Ionic Liquid-Modified Mesoporous SiO₂ Adsorption and Calcium Alginate-Embedding Method. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 185, no. 3, pp. 606-618., Registrované v: WOS
35. [1.2] BARBERIS, Sonia - ADARO, Mauricio - ORIGONE, Anabella - BERSI, Grisel - GUZMÁN, Fanny - ILLANES, Andrés. Peptide synthesis using proteases as catalyst. In *Biotechnological Applications of Plant Proteolytic Enzymes*, 2018-12-08, pp. 69-106., Registrované v: SCOPUS
36. [1.2] BIN EASA, Muhammad Noor - YUSOF, Faridah Bte. Optimizing the preparation of cross-linked enzyme aggregates (CLEA) amylase from supermeal worm (*Zophobas morio*). In *ARPJ Journal of Engineering and Applied Sciences*, 2015-01-01, 10, 21, pp. 9710-9716., Registrované v: SCOPUS
37. [1.2] CACICEDO, Maximiliano L. - MANZO, Ricardo M. - MUNICOY, Sofia - BONAZZA, Horacio L. - ISLAN, German A. - DESIMONE, Martín - BELLINO, Martin - MAMMARELLA, Enrique J. - CASTRO, Guillermo R. Immobilized enzymes and their applications. In *Biomass, Biofuels, Biochemicals: Advances in Enzyme Technology*, 2019-01-01, pp. 169-200., Registrované v: SCOPUS
38. [1.2] MA, Leimeng - GUI, Lili - WANG, Fei - WANG, Shuguang. Effect of nanoparticle addition on the activity and structure of lipase cross-linked enzyme aggregates. In *Beijing Huagong Daxue Xuebao (Ziran Kexueban)/Journal of Beijing University of Chemical Technology (Natural Science Edition)*. ISSN 16714628, 2015-01-01, 42, 2, pp. 83-88., Registrované v:

SCOPUS

39. [1.2] OU, Xiaoyang - ZENG, Yingjie - PENG, Fei - NI, Zifu - XIONG, Jun - ZONG, Minhua - LOU, Wenyong. Preparation and Characteristics of Cross-Linked Enzyme Aggregates of Alkaline Protease. In *Journal of Food Science and Technology (China)*. ISSN 20956002, 2019-05-25, 37, 3, pp. 33-40., Registrované v: SCOPUS
40. [1.2] TABAÑAG, Ian Dominic F. - TSAI, Shen Long. Biological strategies in nanobiocatalyst assembly. In *Biocatalysis and Nanotechnology*, 2017-01-01, pp. 151-242., Registrované v: SCOPUS
41. [1.2] WANG, Jindan - ZHANG, Guangya. Progress in co-immobilization of multiple enzymes. In *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology*. ISSN 10003061, 2015-01-01, 31, 4, pp. 469-480., Registrované v: SCOPUS

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ROSENGREN, Anna - REDDY, Sumitha K. - SVANTESSON SJÖBERG, Johan - AURELIUS, Oskar - LOGAN, Derek - KOLENOVÁ, Katarína - STÅLBRAND, Henrik. An *Aspergillus nidulans* β -mannanase with high transglycosylation capacity revealed through comparative studies within glycosidase family 5 = An *Aspergillus nidulans* beta-mannanase with high transglycosylation capacity revealed through comparative studies within glycosidase family 5. In *Applied Microbiology and Biotechnology*, 2014, vol. 98, p. 10091-10104. (2013: 3.811 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-014-5871-8>

Ohlasy:

1. [1.1] BONNIN, Estelle - LESSIRE, Michel - WACRENIER, Nathaele - ALLEMAN, Fabien. Mannose-based polymers in livestock production : the glucomannan-degrading enzymes in swine and poultry feeds. In *INRA PRODUCTIONS ANIMALES*. ISSN 2273-774X, 2020, vol. 33, no. 4, pp. 295-305. Dostupné na: <https://doi.org/10.20870/productions-animales.2020.33.4.4634>., Registrované v: WOS
2. [1.1] DUTOIT, Raphael - DELSAUTE, Maud - COLLET, Laetitia - VANDER WAUVEN, Corinne - VAN ELDER, Dany - BERLEMONT, Renaud - RICHEL, Aurore - GALLEN, Moreno - BAUVOIS, Cedric. Crystal structure determination of *Pseudomonas stutzeri* A1501 endoglucanase Cel5A: the search for a molecular basis for glycosynthesis in GH5_5 enzymes. In *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*. ISSN 2059-7983, 2019, vol. 75, no., pp. 605-615., Registrované v: WOS
3. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
4. [1.1] HSU, Yunhan - ARIOKA, Manabu. In vitro and in vivo characterization of genes involved in mannan degradation in *Neurospora crassa*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2020, vol. 144, no., pp. Dostupné na: <https://doi.org/10.1016/j.fgb.2020.103441>., Registrované v: WOS
5. [1.1] JANA, Uttam Kumar - SURYAWANSHI, Rahul Kumar -

- PRAJAPATI, Bhanu Pratap - SONI, Hemant - KANGO, Naveen. Production optimization and characterization of mannoooligosaccharide generating beta-mannanase from *Aspergillus oryzae*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 268, no., pp. 308-314., Registrované v: WOS
6. [1.1] LIU, Zhemin - NING, Chen - YUAN, Mingxue - YANG, Suxiao - WEI, Xinyi - XIAO, Mengshi - FU, Xiaodan - ZHU, Changliang - MOU, Haijin. High-level expression of a thermophilic and acidophilic beta-mannanase from *Aspergillus kawachii* IFO 4308 with significant potential in mannoooligosaccharide preparation. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122257>., Registrované v: WOS
7. [1.1] MANAS, Nor Hasmaliana Abdul - ILLIAS, Rosli Md. - MAHADI, Nor Muhammad. Strategy in manipulating transglycosylation activity of glycosyl hydrolase for oligosaccharide production. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 272-293., Registrované v: WOS
8. [1.1] NIU, Kangle - LIU, Zhengyao - FENG, Yuhui - GAO, Tianlong - WANG, Zhenzhen - ZHANG, Piaopiao - DU, Zhiqiang - GAO, Daming - FANG, Xu. A novel strategy for efficient disaccharides synthesis from glucose by beta-glucosidase. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-00334-6>., Registrované v: WOS
9. [1.1] NOPVICHAI, Chatchai - CHAROENWONGPAIBOON, Thanapon - LUENGLUEPUNYA, Navaporn - ITO, Kazuo - MUANPRASAT, Chatchai - PICHYANGKURA, Rath. Production and purification of mannan oligosaccharide with epithelial tight junction enhancing activity. In *PEERJ*. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS
10. [1.1] PANGESTU, R. - RAHMANI, N. - PALAR, R. - LISDIYANTI, P. - YOPI. The effect of biomass particle size and chemical structure on the enzymatic hydrolysis reaction of galactomannan from sugar palm fruit by beta-mannanase from *Kitasatospora* sp. KY576672. In *2ND INTERNATIONAL CONFERENCE ON NATURAL PRODUCTS AND BIORESOURCE SCIENCES 2018*. ISSN 1755-1307, 2019, vol. 251, no., pp., Registrované v: WOS
11. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Production, properties, and applications of endo-beta-mannanases. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2017, vol. 35, no. 1, pp. 1-19., Registrované v: WOS
12. [1.1] UECHI, Keiko - WATANABE, Masahiro - FUJII, Tatsuya - KAMACHI, Saori - INOUE, Hiroyuki. Identification and Biochemical Characterization of Major beta-Mannanase in *Talaromyces cellulolyticus* Mannanolytic System. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 192, no. 2, pp. 616-631. Dostupné na: <https://doi.org/10.1007/s12010-020-03350-6>., Registrované v: WOS
13. [1.1] YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>., Registrované

v: WOS

14. [1.1] YOU, Xin - QIN, Zhen - YAN, Qiaojuan - YANG, Shaoqing - LI, Yanxiao - JIANG, Zhengqiang. Structural insights into the catalytic mechanism of a novel glycoside hydrolase family 113 beta-1,4-mannanase from *Amphibacillus xylanus*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2018, vol. 293, no. 30, pp. 11746-11757., Registrované v: WOS
15. [1.2] LI, Chen Yang - LIU, Fang Fang - YE, Jiang - LIU, Jin Feng - YANG, Shi Zhong - ZHANG, Hui Zhan - MU, Bo Zhong. A low-temperature active endo- β -1,4-mannanase from *Bacillus subtilis* td7 and its gene expression in *Escherichia coli*. In *Applied Environmental Biotechnology*. ISSN 23826436, 2018-01-01, 3, 2, pp. 17-25., Registrované v: SCOPUS
16. [3.2] Group Author(s): Uniprot Consortium. Q5B7X2. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5B7X2>, Registrované v: Data Citation Index
17. [3.2] Group Author(s): Uniprot Consortium. Q5B833. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5B833>, Registrované v: Data Citation Index
18. [3.2] Group Author(s): Uniprot Consortium. Q5AZ53 In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5AZ53>, Registrované v: Data Citation Index
19. [3.2] Group Author(s): Uniprot Consortium. Q99036. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q99036>

ADCA1116 ROSÍK, Jozef. Structural features of the polysaccharide of apricot gum in dependence on the infection with fungi, application of a synthetic material and vegetative period. In *Acta Horticulturae*, 1968, vol. 11, p. 523-528. ISSN 0567-7572.

Ohlasy:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS
2. [1.1] TAHERI, Mohammad Mahdi - KADIR, Mohammed Rafiq Abdul - SHAFIAI, Noor Kamila Ahmad - SHOKUHFAR, Tolou - ASSADIAN, Mahtab - SHIRDAR, Mostafa Rezazadeh. Green synthesis of silver nanoneedles using shallot and apricot tree gum. In *TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA*. ISSN 1003-6326, 2015, vol. 25, no. 10, pp. 3286-3290., Registrované v: WOS
3. [1.1] UL ISLAM, Nazar - AMIN, Raza - SHAHID, Muhammad - AMIN, Muhammad. Gummy gold and silver nanoparticles of apricot (*Prunus armeniaca*) confer high stability and biological activity. In *ARABIAN JOURNAL OF CHEMISTRY*. ISSN 1878-5352, 2019, vol. 12, no. 8, pp. 3977-3992., Registrované v: WOS

ADCA1117 ROSÍK, Jozef - ZITKO, V. - KUBALA, Jozef. Structure of sour cherry-tree gum (*Prunus cerasus* L.). In *Collection of Czechoslovak Chemical Communications*, 1966, vol. 31, p. 1569-1577. ISSN 0010-0765.

Ohlasy:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL,

Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS

ADCA1118 RUDD, T.R. - YATES, E.A. - HRICOVÍNI, Miloš. Spectroscopic and Theoretical Approaches for the Determination of Heparin Saccharide Structure and the Study of Protein-Glycosaminoglycan Complexes in Solution. Miloš Hricovíni. In *Current Medicinal Chemistry*, 2009, vol.16, pp.4750-4766. (2008: 4.823 - IF, Q1 - JCR, 1.900 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0929-8673. Dostupné na: <https://doi.org/10.2174/092986709789878193>

Ohlasy:

1. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
2. [1.1] KAPAEV, Roman R. - TOUKACH, Philip V. Improved Carbohydrate Structure Generalization Scheme for H-1 and C-13 NMR Simulations. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2015, vol. 87, no. 14, pp. 7006-7010., Registrované v: WOS
3. [1.1] KAPAEV, Roman R. - TOUKACH, Philip V. Simulation of 2D NMR Spectra of Carbohydrates Using GODESS Software. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2016, vol. 56, no. 6, pp. 1100-1104., Registrované v: WOS
4. [1.1] NODA, Isao. Recent developments in two-dimensional (2D) correlation spectroscopy. In *CHINESE CHEMICAL LETTERS*. ISSN 1001-8417, 2015, vol. 26, no. 2, pp. 167-172., Registrované v: WOS
5. [1.2] SCHILLER, J. - BECHER, J. - MÖLLER, S. - LEMMNITZER, K. - RIEMER, T. - SCHNABELRAUCH, M. Characterization and chemical modification of glycosaminoglycans of the extracellular matrix. In *Sulfated Polysaccharides*, 2015-07-01, pp. 73-106., Registrované v: SCOPUS

ADCA1119 RUDD, T.R. - SKIDMORE, M.A. - GUERRINI, M. - HRICOVÍNI, Miloš - POWELL, A.K. - SILIGARDI, G. - YATES, E.A. The conformation and structure of GAGs: recent progress and perspectives. In *Current Opinion in Structural Biology*, 2010, vol. 20, p. 567-574. (2009: 9.344 - IF, 8.374 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0959-440X. Dostupné na: <https://doi.org/10.1016/j.sbi.2010.08.004>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BRYCE, Richard A. Ring Puckering Landscapes of Glycosaminoglycan-Related Monosaccharides from Molecular Dynamics Simulations. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2019, vol. 59, no. 11, pp. 4729-4741., Registrované v: WOS
2. [1.1] CASU, Benito - NAGGI, Annamaria - TORRI, Giangiacomo. Re-visiting the structure of heparin. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 403, no., pp. 60-68., Registrované v: WOS
3. [1.1] DE WILDT, William - KOOIJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. Extended Physicochemical Characterization of

- the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS
4. [1.1] DIEZ-ESCUADERO, Anna - ESPANOL, Montserrat - GINEBRA, Maria-Pau. Synthetic bone graft substitutes: Calcium-based biomaterials. In *DENTAL IMPLANTS AND BONE GRAFTS: MATERIALS AND BIOLOGICAL ISSUES*. ISSN 2049-9485, 2020, vol., no., pp. 125-157., Registrované v: WOS
 5. [1.1] HAYES, Anthony J. - MELROSE, James. Glycans and glycosaminoglycans in neurobiology: key regulators of neuronal cell function and fate. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 2511-2545., Registrované v: WOS
 6. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Heparan Sulfate Mimetics in Cancer Therapy: The Challenge to Define Structural Determinants and the Relevance of Targets for Optimal Activity. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
 7. [1.1] LIU, Qi - CHEN, Gaojian - CHEN, Hong. Chemical synthesis of glycosaminoglycan-mimetic polymers. In *POLYMER CHEMISTRY*. ISSN 1759-9954, 2019, vol. 10, no. 2, pp. 164-171., Registrované v: WOS
 8. [1.1] LI, Xiao-Jun - BAO, Wan-Rong - LEUNG, Chung-Hang - MA, Dik-Lung - ZHANG, Ge - LU, Ai-Ping - WANG, Shun-Chun - HAN, Quan-Bin. Chemical Structure and Immunomodulating Activities of an alpha-Glucan Purified from *Lobelia chinensis* Lour. In *MOLECULES*. ISSN 1420-3049, 2016, vol. 21, no. 6, pp., Registrované v: WOS
 9. [1.1] MIURA, Yoshiko - FUKUDA, Tomohiro - SETO, Hirokazu - HOSHINO, Yu. Development of glycosaminoglycan mimetics using glycopolymers. In *POLYMER JOURNAL*. ISSN 0032-3896, 2016, vol. 48, no. 3, pp. 229-237., Registrované v: WOS
 10. [1.1] MIURA, Yoshiko - FUKUDA, Tomohiro - HOSHINO, Yu. Glycoglycan Mimic by Synthetic Polymers. In *ADVANCES IN BIOINSPIRED AND BIOMEDICAL MATERIALS, VOL 2*. ISSN 0097-6156, 2017, vol. 1253, no., pp. 69-77., Registrované v: WOS
 11. [1.1] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2016, vol. 68, no. 1, pp. 76-141., Registrované v: WOS
 12. [1.1] MULLOY, Barbara - HOGWOOD, John - GRAY, Elaine - LEVER, Rebecca - PAGE, Clive P. Pharmacology of Heparin and Related Drugs. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2016, vol. 68, no. 1, pp. 76-141., Registrované v: WOS
 13. [1.1] PANDEY, Poonam - AYTENFISU, Asaminew H. - MACKERELL, Alexander D. - MALLAJOSYULA, Sairam S. Drude Polarizable Force Field Parametrization of Carboxylate and N-Acetyl Amine Carbohydrate Derivatives. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2019, vol. 15, no. 9, pp. 4982-5000., Registrované v: WOS
 14. [1.1] WUDEBWE, Uchena N. G. - BANNERMAN, Alistair - GOLDBERG-OPPENHEIMER, Pola - PAXTON, Jennifer Z. - WILLIAMS, Richard L. - GROVER, Liam M. Exploiting cell-mediated contraction and adhesion to structure tissues in vitro. In *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*. ISSN 0962-8436,

2015, vol. 370, no. 1661, pp., Registrované v: WOS

15. [1.2] CASU, Benito - NAGGI, Annamaria - TORRI, Giangiacomo. Re-visiting the structure of heparin. In *Carbohydrate Research*. ISSN 00086215, 2015-02-11, 403, pp. 60-68., Registrované v: SCOPUS

16. [1.2] HEISS, Christian - AZADI, Parastoo. Structural analysis of glycosaminoglycans-an indispensable tool for the diagnosis, treatment and prevention of human disease. In *Glycobiology and Human Diseases*, 2016-02-22, pp. 28-64., Registrované v: SCOPUS

17. [1.2] KARTHIK, Ramachandran - SARAVANAN, Ramachandran. Proteoglycans from marine sponges and their biomedical applications. In *Marine Sponges: Chemicobiological and Biomedical Applications*, 2016-01-01, pp. 287-304., Registrované v: SCOPUS

18. [1.2] MIURA, Yoshiko - FUKUDA, Tomohiro - SETO, Hirokazu - HOSHINO, Yu. Syntheses and functions of Glycosaminoglycan mimicking polymers. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences*, 2017-11-20, pp. 213-224., Registrované v: SCOPUS

ADCA1120 RUMBOLD, K. - BIELY, Peter - MASTIHUBOVÁ, Mária - GUDELJ, M. - GUBITZ, G. - ROBBA, K.-H. - PRIOR, B.A. Purification and properties of a feruloyl esterase involved in lignocellulose degradation by *Aureobasidium pullulans*. In *Applied and Environmental Microbiology*, 2003, vol. 69, p. 5622-5626. (2002: 3.691 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.69.9.5622-5626.2003>

Ohlasy:

1. [1.1] FU, Zhilei - FAN, Guangsen - ZHU, Yuting - TENG, Chao - LI, Hehe - LIU, Qian - YANG, Ran - LI, Xiuting. Soluble expression of a novel feruloyl esterase from *Burkholderia pyrrocinia* B1213 in *Escherichia coli* and optimization of production conditions. In *BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT*. ISSN 1310-2818, 2020, vol. 34, no. 1, pp. 732-746. Dostupné na: <https://doi.org/10.1080/13102818.2020.1803129>., Registrované v: WOS

2. [1.1] HAMED, Abdelaaty - FRESE, Marcel - ELGAAFARY, Menna - SYROVETS, Tatiana - SEWALD, Norbert - SIMMET, Thomas - SHAABAN, Mohamed. Synthesis of novel feruloyl dipeptides with proapoptotic potential against different cancer cell lines. In *BIOORGANIC CHEMISTRY*. ISSN 0045-2068, 2020, vol. 97, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioorg.2020.103678>., Registrované v: WOS

3. [1.1] HUNT, Cameron J. - ANTONOPOULOU, Io - TANKSALE, Akshat - ROVA, Ulrika - CHRISTAKOPOULOS, Paul - HARITOS, Victoria S. Insights into substrate binding of ferulic acid esterases by arabinose and methyl hydroxycinnamate esters and molecular docking. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

4. [1.1] CHENG, Feng - CHENG, Feifei - ZHENG, Jianyong - WU, Guanzhong - ZHANG, Yinjun - WANG, Zhao. A Novel esterase from *Pseudochrobactrum asaccharolyticum* WZZ003: Enzymatic properties toward model substrate and catalytic performance in chiral fungicide intermediate synthesis. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 69, no., pp. 92-98., Registrované v: WOS

5. [1.1] CHI, D. H. - GIAP, V. D. - ANH, L. P. H. - NGHI, D. H. Feruloyl Esterase from *Alternaria tenuissima* that Hydrolyses Lignocellulosic

Material to Release Hydroxycinnamic Acids. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 654-660., Registrované v: WOS

6. [1.1] KARL, Zachary J. - SCHARF, Michael E. EFFECTS OF FIVE DIVERSE LIGNOCELLULOSIC DIETS ON DIGESTIVE ENZYME BIOCHEMISTRY IN THE TERMITE *Reticulitermes flavipes*. In ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0739-4462, 2015, vol. 90, no. 2, pp. 89-103., Registrované v: WOS

7. [1.1] KATSIMPOURAS, Constantinos - ANTONOPOULOU, Io - CHRISTAKOPOULOS, Paul - TOPAKAS, Evangelos. Role and Applications of Feruloyl Esterases in Biomass Bioconversion. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 79-123., Registrované v: WOS

8. [1.1] LEMES, Ailton Cesar - SILVERIO, Sara C. - RODRIGUES, Sueli - RODRIGUES, Ligia R. Integrated strategy for purification of esterase from *Aureobasidium pullulans*. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2019, vol. 209, no., pp. 409-418., Registrované v: WOS

9. [1.1] LI, Xuanxuan - GUO, Jia - HU, Yimin - YANG, Yumeng - JIANG, Junwei - NAN, Fang - WU, Shenglu - XIN, Zhihong. Identification of a Novel Feruloyl Esterase by Functional Screening of a Soil Metagenomic Library. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 187, no. 1, pp. 424-437., Registrované v: WOS

10. [1.1] NIETER, Annabel - KELLE, Sebastian - LINKE, Diana - BERGER, Ralf G. Feruloyl esterases from *Schizophyllum commune* to treat food industry side-streams. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 220, no., pp. 38-46., Registrované v: WOS

11. [1.1] OLIVEIRA, Dyonis M. - MOTA, Thatiane R. - OLIVA, Bianca - SEGATO, Fernando - MARCHIOSI, Rogerio - FERRARESE-FILHO, Osvaldo - FAULDS, Craig B. - DOS SANTOS, Wanderley D. Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 278, no., pp. 408-423., Registrované v: WOS

12. [1.1] RICH, Joseph O. - MANITCHOTPIKIT, Pennapa - PETERSON, Stephen W. - LIU, Siqing - LEATHERS, Timothy D. - ANDERSON, Amber M. Phylogenetic classification of *Aureobasidium pullulans* strains for production of feruloyl esterase. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2016, vol. 38, no. 5, pp. 863-870., Registrované v: WOS

13. [1.1] WANG, Li - LI, Zhuang - ZHU, Mengjuan - MENG, Li - WANG, Hexiang - NG, Tzi Bun. An acidic feruloyl esterase from the mushroom *Lactarius hatsudake*: A potential animal feed supplement. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 290-295., Registrované v: WOS

14. [1.1] ZEPEDA-MENDOZA, Marie Lisandra - EDWARDS, Nathalia Kruse - MADSEN, Mikkel Gulmann - ABEL-KISTRUP, Martin - PUETZ, Lara - SICHERITZ-PONTEN, Thomas - SWIEGERS, Jan H. Influence of *Oenococcus oeni* and *Brettanomyces bruxellensis* on Wine Microbial Taxonomic and Functional Potential Profiles. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, 2018, vol. 69, no. 4, pp. 321-333., Registrované v: WOS

15. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
16. [1.2] KOHLI, Pooja - GUPTA, Reena. Medical aspects of esterases: A mini review. In International Journal of Pharmacy and Pharmaceutical Sciences, 2016-01-01, 8, 8, pp. 21-26., Registrované v: SCOPUS
17. [1.2] PINTO, Cristabell. Feruloyl esterase: A principal biodegradative enzyme. In Bioprospects of Coastal Eubacteria: Ecosystems of Goa, 2015-01-01, pp. 209-224., Registrované v: SCOPUS
18. [1.2] SIRILUN, Sasithorn - CHAIYASUT, Chaivat - PENGKUMSRI, Noppawat - PELYUNTHA, Wattana - PEERAJAN, Sartjin - SIVAMARUTHI, Bhagavathi Sundaram. Production of ferulic acid from oryzanol degradation during the fermentation of black rice bran by ferulic acid esterase producing *Aspergillus oryzae* HP. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2015-01-01, 9, special Edition 1, pp. 513-520., Registrované v: SCOPUS
19. [1.2] SZEWCZYK, Katarzyna - GRZYWA-CELIŃSKA, Anna. Antioxidant and cytotoxic activities of phenolic acids and their role in the anticancer therapies. In Phenolic Acids: Properties, Food Sources and Health Effects, 2016-01-01, pp. 61-104., Registrované v: SCOPUS
20. [1.2] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. Cloning, expression and characterization of a new feruloyl esterases from the *Lactobacillus Johnsonii* strain. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS

ADCA1121 RYABOVÁ, Olena - VRŠANSKÁ, Mária - KANEKO, S. - VAN ZYL, W.H. - BIELY, Peter. A novel family of hemicellulolytic α -glucuronidase. In *FEBS Letters*, 2009, vol. 583, p. 1457-1462. (2008: 3.264 - IF, Q2 - JCR, 2.193 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2009.03.057>

Ohlasy:

1. [1.1] AALBERS, Friso - TURKENBURG, Johan P. - DAVIES, Gideon J. - DIJKHUIZEN, Lubbert - LAMMERTS VAN BUEREN, Alicia. Structural and Functional Characterization of a Novel Family GH115 4-O-Methyl- α -Glucuronidase with Specificity for Decorated Arabinogalactans. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, 2015, vol. 427, no. 24, pp. 3935-3946., Registrované v: WOS
2. [1.1] COBUCCI-PONZANO, Beatrice - STRAZZULLI, Andrea - IACONO, Roberta - MASTURZO, Giuseppe - GIGLIO, Rosa - ROSSI, Mose - MORACCI, Marco. Novel thermophilic hemicellulases for the conversion of lignocellulose for second generation biorefineries. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 78, no., pp. 63-73., Registrované v: WOS
3. [1.1] CONWAY, Jonathan M. - ZURAWSKI, Jeffrey V. - LEE, Laura L. - BLUMER-SCHUETTE, Sara E. - KELLY, Robert M. Lignocellulosic Biomass Deconstruction by the Extremely Thermophilic Genus *Caldicellulosiruptor*. In THERMOPHILIC MICROORGANISMS, 2015, vol., no., pp. 91-119., Registrované v: WOS
4. [1.1] GOMES, Katiana R. - CHIMPHANGO, Annie F. A. - GOERGENS, Johann F. Modifying solubility of polymeric xylan extracted from

- Eucalyptus grandis and sugarcane bagasse by suitable side chain removing enzymes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 177-185., Registrované v: WOS
5. [1.1] JONATHAN, M. C. - DEMARTINI, J. - THANS, S. Van Stigt - HOMMES, R. - KABEL, M. A. Characterisation of non-degraded oligosaccharides in enzymatically hydrolysed and fermented, dilute ammonia-pretreated corn stover for ethanol production. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
6. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
7. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
8. [1.1] MARTINEZ, Patricia Murciano - APPELDOORN, Maaïke M. - GRUPPEN, Harry - KABEL, Mirjam A. The two Rasamsonia emersonii alpha-glucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
9. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of Magnaporthe oryzae. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS
10. [1.1] OKEKE, Benedict C. - HALL, Rosine W. - NANJUNDASWAMY, Ananda - THOMSON, M. Sue - DERAVID, Yasaman - SAWYER, Leah - PRESCOTT, Andrew. Selection and molecular characterization of cellulolytic-xylanolytic fungi from surface soil-biomass mixtures from Black Belt sites. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2015, vol. 175, no., pp. 24-33., Registrované v: WOS
11. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 alpha-glucuronidase and GH11 xylanase from Paenibacillus sp JDR-2: potential roles in processing glucuronoxylans. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
12. [1.1] RHEE, Mun Su - WEI, Lusha - SAWHNEY, Neha - KIM, Young Sik - RICE, John D. - PRESTON, James F. Metabolic potential of Bacillus subtilis 168 for the direct conversion of xylans to fermentation products. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 3, pp. 1501-1510., Registrované v: WOS
13. [1.1] TRYFONA, Theodora - SORIEUL, Mathias - FEIJAO, Carolina - STOTT, Katherine - RUBTSOV, Denis V. - ANDERS, Nadine - DUPREE, Paul. Development of an oligosaccharide library to characterise the structural variation in glucuronarabinoxylan in the cell walls of vegetative tissues in grasses. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol.

- 12, no., pp., Registrované v: WOS
14. [1.1] ULAGANATHAN, Kandasamy - GOUD, Burragoni S. - REDDY, Mettu M. - KUMAR, Vanaparthi P. - BALSINGH, Jatoth - RADHAKRISHNA, Surabhi. Proteins for Breaking Barriers in Lignocellulosic Bioethanol Production. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2015, vol. 16, no. 2, pp. 100-134., Registrované v: WOS
15. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioprospects. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v: WOS
16. [1.1] VUONG, Thu V. - MASTER, Emma R. Enzymatic production of 4-O-methyl d-glucaric acid from hardwood xylan. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01691-2>., Registrované v: WOS
17. [1.1] WANG, Weijun - YAN, Ruoyu - NOCEK, Boguslaw P. - VUONG, Thu V. - DI LEO, Rosa - XU, Xiaohui - CUI, Hong - GATENHOLM, Paul - TORIZ, Guillermo - TENKANEN, Maija - SAVCHENKO, Alexei - MASTER, Emma R. Biochemical and Structural Characterization of a Five-domain GH115-Glucuronidase from the Marine Bacterium Saccharophagus degradans 2-40(T). In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 27, pp. 14120-14133., Registrované v: WOS
18. [1.1] YAN, Ruoyu - VUONG, Thu V. - WANG, Weijun - MASTER, Emma R. Action of a GH115 alpha-glucuronidase from Amphibacillus xylanus at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 22-28., Registrované v: WOS
19. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from Scheffersomyces stipitis. In Industrial Biotechnology. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS
20. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
21. [1.2] DE VRIES, Ronald P. - VAN DEN BRINK, Joost - HILDÉN, Kristiina S. - MÄKELÄ, Miia R. - STÅLBRAND, Henrik. Fungal degradation of plant oligo- and polysaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 809-895., Registrované v: SCOPUS
22. [1.2] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in Aspergillus. In New and Future Developments in Microbial Biotechnology and Bioengineering: Aspergillus System Properties and Applications, 2016-08-05, pp. 171-190., Registrované v: SCOPUS
23. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In Fungal Enzymes, 2016-04-19, pp. 280-293., Registrované v:

SCOPUS

24. [1.2] SELIM, Samy. Molecular characterization of thermostable xylanase producing *Thermoactinomyces vulgaris* HSB4. In *Journal of Pure and Applied Microbiology*. ISSN 09737510, 2016-09-01, 10, 3, pp. 1965-1969., Registrované v: SCOPUS

ADCA1122 RYBÁR, Alfonz. Annulated heterocyclo-purines II. Fused six-and more-membered heterocyclo-purinediones, -purinones and -purineimines. In *Advances in Heterocyclic Chemistry*, 2005, vol. 88, p. 175-229. ISSN 0065-2725. Dostupné na: [https://doi.org/10.1016/S0065-2725\(04\)88003-6](https://doi.org/10.1016/S0065-2725(04)88003-6)

Ohlasy:

1. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In *FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY*. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS
2. [1.1] NOVOSJOLOVA, Irina - BIZDENA, Erika - TURKS, Maris. Synthesis and Applications of Azolylpurine and Azolylpurine Nucleoside Derivatives. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2015, vol. 2015, no. 17, pp. 3629-3649., Registrované v: WOS
3. [1.1] THALASSITIS, Andreas N. - HADJIPAVLOU-LITINA, Dimitra J. - LITINAS, Konstantinos E. Synthesis of Fused 9,10-Dihydro-6H-Azepino- and 9,10-Dihydro-6H-[1,3]Diazepino[1,2-e]Purines via Ring Closing Metathesis as Antilipid Peroxidation Agents. In *JOURNAL OF HETEROCYCLIC CHEMISTRY*. ISSN 0022-152X, 2015, vol. 52, no. 2, pp. 366-372., Registrované v: WOS

ADCA1123 RYCHLÁ, Lýdia - RYCHLÝ, Jozef - EBRINGEROVÁ, Anna - CSOMOROVÁ, Katarína - MALOVÍKOVÁ, Anna. Chemiluminescence accompanying the oxidation of hemicelluloses. In *Polymer Degradation and Stability*, 2008, vol. 93, p. 1674 - 1680. (2007: 2.073 - IF, Q1 - JCR, 1.452 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0141-3910.

Ohlasy:

1. [1.1] CHMIELEWSKA-SMIETANKO, D. - GRYCZKA, U. - MIGDAL, W. - KOPEC, K. Electron beam for preservation of biodeteriorated cultural heritage paper based objects. In *RADIATION PHYSICS AND CHEMISTRY*. ISSN 0969-806X, FEB 2018, vol. 143, SI, p. 89-93., Registrované v: WOS

ADCA1124 RYCHLÝ, Jozef - ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - SASINKOVÁ, Vlasta - KOGAN, Grigorij - GEMEINER, Peter. Unexplored capabilities of chemiluminescence and thermoanalytical methods in characterization of intact and degraded hyaluronans. In *Polymer Degradation and Stability*. - Oxford : Elsevier Science, 2006, vol. 91, p. 3174 - 3184. (2005: 1.749 - IF, Q1 - JCR, 1.226 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0141-3910. Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2006.07.009>

Ohlasy:

1. [1.1] BAZMANDEH, A.Z. - MIRZAEI, E. - GHASEMI, Y. -

- KOUIHBANANI, M.A.J. Hyaluronic acid coated electrospun chitosan-based nanofibers prepared by simultaneous stabilizing and coating. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 138, p. 403-411., Registrované v: WOS
2. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS
3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1125 SAAVEDRA, F. - KARÁCSONYI, Š. - ALFÖDI, Juraj. Studies of the polysaccharides of sugar cane (*Saccharum officinarum*). Structural features of the water-insoluble D-xylans. In *Carbohydrate Research*, 1988, vol. 180, no. 1, p. 61-71. ISSN 0008-6215.

Ohlasy:

1. [1.1] VINNITSKIY, D. Z. - USTYUZHANINA, N. E. - NIFANTIEV, N. E. Natural bacterial and plant biomolecules bearing alpha-D-glucuronic acid residues. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2015, vol. 64, no. 6, pp. 1273-1301., Registrované v: WOS

ADCA1126 SADOVSKAYA, I. - VINOGRADOV, E. - FLAHAUT, S. - KOGAN, Grigori - JABBOURI, S. Extracellular carbohydrate-containing polymers of a model biofilm-producing strain. *Staphylococcus epidermidis* RP62A. In *Infection and Immunity*, 2005, vol. 73, p. 3007-3017. ISSN 0019-9567. Dostupné na: <https://doi.org/10.1128/IAI.73.5.3007-3017.2005>

Ohlasy:

1. [1.1] ARCIOLA, Carla Renata - CAMPOCCIA, Davide - RAVAIOLI, Stefano - MONTANARO, Lucio. Polysaccharide intercellular adhesin in biofilm: structural and regulatory aspects. In *FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY*. ISSN 2235-2988, 2015, vol. 5, no., pp., Registrované v: WOS
2. [1.1] BRAUGE, Thomas - SADOVSKAYA, Irina - FAILLE, Christine - BENEZECH, Thierry - MAES, Emmanuel - GUERARDEL, Yann - MIDELET-BOURDIN, Graziella. Teichoic acid is the major polysaccharide present in the *Listeria monocytogenes* biofilm matrix. In *FEMS MICROBIOLOGY LETTERS*. ISSN 0378-1097, 2016, vol. 363, no. 2, pp., Registrované v: WOS
3. [1.1] CARVALHAIS, Virginia - CERCA, Nuno - VILANOVA, Manuel - VITORINO, Rui. Proteomic profile of dormancy within

- Staphylococcus epidermidis biofilms using iTRAQ and label-free strategies. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 6, pp. 2751-2762., Registrované v: WOS
4. [1.1] COLAGIORGI, Angelo - DI CICCIO, Pierluigi - ZANARDI, Emanuela - GHIDINI, Sergio - IANIERI, Adriana. A Look inside the *Listeria monocytogenes* Biofilms Extracellular Matrix. In MICROORGANISMS. ISSN 2076-2607, 2016, vol. 4, no. 3, pp., Registrované v: WOS
5. [1.1] DAKHEEL, Khulood Hamid - RAHIM, Raha Abdul - NEELA, Vasantha Kumari - AL-OBAIDI, Jameel R. - HUN, Tan Geok - YUSOFF, Khatijah. Methicillin-Resistant *Staphylococcus aureus* Biofilms and Their Influence on Bacterial Adhesion and Cohesion. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2016, vol., no., pp., Registrované v: WOS
6. [1.1] DECKER, Rahel - BURDELSKI, Christoph - ZOBIK, Melanie - BUETTNER, Henning - FRANKE, Gefion - CHRISTNER, Martin - SASS, Katharina - ZOBIK, Bernd - HENKE, Hanae A. - HORSWILL, Alexander R. - BISCHOFF, Markus - BUR, Stephanie - HARTMANN, Torsten - SCHAEFFER, Carolyn R. - FEY, Paul D. - ROHDE, Holger. An 18 kDa Scaffold Protein Is Critical for *Staphylococcus epidermidis* Biofilm Formation. In PLOS PATHOGENS. ISSN 1553-7366, 2015, vol. 11, no. 3, pp., Registrované v: WOS
7. [1.1] EROSHENKO, D.V.; KOROBOV, V.P. Adhesion of *Staphylococci*: the First Step to Biofilm Formation. IN Biology Bulletin Reviews, 2017, vol. 137, issue 1, p. 100-112, Registrované v: WOS
8. [1.1] FREITAS, Ana I. - LOPES, Nathalie - OLIVEIRA, Fernando - BRAS, Susana - FRANCA, Angela - VASCONCELOS, Carlos - VILANOVA, Manuel - CERCA, Nuno. Comparative analysis between biofilm formation and gene expression in *Staphylococcus epidermidis* isolates. In FUTURE MICROBIOLOGY. ISSN 1746-0913, 2018, vol. 13, no. 4, pp. 415-427., Registrované v: WOS
9. [1.1] GANESAN, Mahesh - KNIER, Steven - YOUNGER, John G. - SOLOMON, Michael J. Associative and Entanglement Contributions to the Solution Rheology of a Bacterial Polysaccharide. In MACROMOLECULES. ISSN 0024-9297, 2016, vol. 49, no. 21, pp. 8313-8321., Registrované v: WOS
10. [1.1] GRUNDLING, Angelika. Cell Wall Assembly and Physiology. In STAPHYLOCOCCUS: GENETICS AND PHYSIOLOGY, 2016, vol., no., pp. 133-170., Registrované v: WOS
11. [1.1] GUPTA, Payal - PRUTHI, Parul A. - PRUTHI, Vikas. Role of Exopolysaccharides in Biofilm Formation. In INTRODUCTION TO BIOFILM ENGINEERING. ISSN 0097-6156, 2019, vol. 1323, no., pp. 17-57., Registrované v: WOS
12. [1.1] HEILMANN, C. - ZIEBUHR, W. - BECKER, K. Are coagulase-negative staphylococci virulent? In CLINICAL MICROBIOLOGY AND INFECTION. ISSN 1198-743X, 2019, vol. 25, no. 9, pp. 1071-1080., Registrované v: WOS
13. [1.1] CHEN, Xiaolin - SHANG, Fei - MENG, Yajing - LI, Long - CUI, Yunmei - ZHANG, Ming - QI, Kezong - XUE, Ting. Ethanol extract of *Sanguisorba officinalis* L. inhibits biofilm formation of methicillin-resistant *Staphylococcus aureus* in an ica-dependent manner. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2015, vol. 98, no. 12, pp. 8486-8491., Registrované v: WOS

14. [1.1] KATZENMEYER, Kristy N. - SZOTT, Luisa M. - BRYERS, James D. Artificial opsonin enhances bacterial phagocytosis, oxidative burst and chemokine production by human neutrophils. In PATHOGENS AND DISEASE. ISSN 2049-632X, 2017, vol. 75, no. 6, pp., Registrované v: WOS
15. [1.1] LANGNER, Inga - KRAMER, Axel - MATTHES, Rutger - REBERT, Farzana - KOHLER, Christian - KOBAN, Ina - HUEBNER, Nils-Olaf - KOHLMANN, Thomas - PATRZYK, Maciej. Inhibition of microbial growth by cold atmospheric plasma compared with the antiseptics chlorhexidine digluconate, octenidine dihydrochloride, and polyhexanide. In PLASMA PROCESSES AND POLYMERS. ISSN 1612-8850, 2019, vol. 16, no. 4, pp., Registrované v: WOS
16. [1.1] LENNARTZ, Farina E. - SCHWARTBECK, Bianca - DUEBBERS, Angelika - GROSSE-ONNEBRINK, Joerg - KESSLER, Christina - KUESTER, Peter - SCHUELTINGKEMPER, Holger - PETERS, Georg - KAHL, Barbara C. The prevalence of Staphylococcus aureus with mucoid phenotype in the airways of patients with cystic fibrosis-A prospective study. In INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY. ISSN 1438-4221, 2019, vol. 309, no. 5, pp. 283-287., Registrované v: WOS
17. [1.1] LIMOLI, Dominique H. - JONES, Christopher J. - WOZNIAK, Daniel J. Bacterial Extracellular Polysaccharides in Biofilm Formation and Function. In MICROBIOLOGY SPECTRUM, 2015, vol. 3, no. 3, pp., Registrované v: WOS
18. [1.1] LI, Tongtong - WANG, Guoqi - YIN, Peng - LI, Zhirui - ZHANG, Licheng - LIU, Jianheng - LI, Ming - ZHANG, Lihai - HAN, Li - TANG, Peifu. Effect of negative pressure on growth, secretion and biofilm formation of Staphylococcus aureus. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2015, vol. 108, no. 4, pp. 907-917., Registrované v: WOS
19. [1.1] LI, Tongtong - ZHANG, Lihai - HAN, Li - WANG, Guoqi - YIN, Peng - LI, Zhirui - ZHANG, Licheng - GUO, Qi - LIU, Daohong - TANG, Peifu. Early application of negative pressure wound therapy to acute wounds contaminated with Staphylococcus aureus: An effective approach to preventing biofilm formation. In EXPERIMENTAL AND THERAPEUTIC MEDICINE. ISSN 1792-0981, 2016, vol. 11, no. 3, pp. 769-776., Registrované v: WOS
20. [1.1] LOZA-CORREA, Maria - AYALA, Juan A. - PERELMAN, Iris - HUBBARD, Keith - KALAB, Miloslav - YI, Qi-Long - TAHA, Mariam - DE PEDRO, Miguel A. - RAMIREZ-ARCOS, Sandra. The peptidoglycan and biofilm matrix of Staphylococcus epidermidis undergo structural changes when exposed to human platelets. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 1, pp., Registrované v: WOS
21. [1.1] MILJKOVIC-SELIMOVIC, Biljana - DINIC, Marina - ORLOVIC, Jovan - BABIC, Tatjana. Staphylococcus aureus: Immunopathogenesis and Human Immunity. In ACTA FACULTATIS MEDICAE NAISSENSIS. ISSN 0351-6083, 2015, vol. 32, no. 4, pp. 243-257., Registrované v: WOS
22. [1.1] MINAN, Alejandro - LORENTE, Carolina - IPINA, Adriana - THOMAS, Andres H. - FERNANDEZ LORENZO DE MELE, Monica - SCHILARDI, Patricia L. Photodynamic inactivation induced by carboxypterin: a novel non-toxic bactericidal strategy against planktonic cells and biofilms of

- Staphylococcus aureus. In BIOFOULING. ISSN 0892-7014, 2015, vol. 31, no. 5, pp. 459-468., Registrované v: WOS
23. [1.1] MORRIS, C. Paul - SIMNER, Patricia J. Tailoring Antimicrobial Susceptibility Testing to Individual Species of Coagulase-Negative Staphylococci: Next Up, Staphylococcus epidermidis. In JOURNAL OF CLINICAL MICROBIOLOGY. ISSN 0095-1137, 2019, vol. 57, no. 12, pp., Registrované v: WOS
24. [1.1] NURYASTUTI, Titik - KROM, Bastiaan P. Ica-status of clinical Staphylococcus epidermidis strains affects adhesion and aggregation: a thermodynamic analysis. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2017, vol. 110, no. 11, pp. 1467-1474., Registrované v: WOS
25. [1.1] PAHARIK, Alexandra E. - HORSWILL, Alexander R. The Staphylococcal Biofilm: Adhesins, Regulation, and Host Response. In MICROBIOLOGY SPECTRUM, 2016, vol. 4, no. 2, pp., Registrované v: WOS
26. [1.1] PANDA, Sasmita - SINGH, Durg Vijai. Biofilm Formation by ica-Negative Ocular Isolates of Staphylococcus haemolyticus. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
27. [1.1] RASOUL, Mirzaei - ROKHSAREH, Mohammadzadeh - MOHAMMAD, Shokri Moghadam - SAJAD, Karampoor - AHMADREZA, Moradi. The Human Immune System against Staphylococcus epidermidis. In CRITICAL REVIEWS IN IMMUNOLOGY. ISSN 1040-8401, 2019, vol. 39, no. 3, pp. 151-163., Registrované v: WOS
28. [1.1] SANTOS, Simone S. - AUGUSTO, Danillo G. - CASAES ALVES, Patricia A. - PEREIRA, Julia S. - DUARTE, Larissa M. B. - MELO, Poliana C. - GROSS, Eduardo - KANETO, Carla M. - SILVA, Aline - SANTOS, Jane L. Trichoderma asperelloides ethanolic extracts efficiently inhibit Staphylococcus growth and biofilm formation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
29. [1.1] SCHLAFFER, Sebastian - MEYER, Rikke L. Confocal microscopy imaging of the biofilm matrix. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, 2017, vol. 138, no., pp. 50-59., Registrované v: WOS
30. [1.1] SCHWARTBECK, Bianca - BIRTEL, Johannes - TREFFON, Janina - LANGHANKI, Lars - MELLMANN, Alexander - KALE, Devika - KAHL, Janina - HIRSCHHAUSEN, Nina - NEUMANN, Claudia - LEE, Jean C. - GOETZ, Friedrich - ROHDE, Holger - HENKE, Hanae - KUESTER, Peter - PETERS, Georg - KAHL, Barbara C. Dynamic in vivo mutations within the ica operon during persistence of Staphylococcus aureus in the airways of cystic fibrosis patients. In PLOS PATHOGENS. ISSN 1553-7366, 2016, vol. 12, no. 11, pp., Registrované v: WOS
31. [1.1] SIMKINS, Jeffrey W. - STEWART, Philip S. - SEYMOUR, Joseph D. Spatiotemporal mapping of oxygen in a microbially-impacted packed bed using F-19 Nuclear magnetic resonance oximetry. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2018, vol. 293, no., pp. 123-133., Registrované v: WOS
32. [1.1] STEWART, Elizabeth J. - GANESAN, Mahesh - YOUNGER, John G. - SOLOMON, Michael J. Artificial biofilms establish the role of matrix

interactions in staphylococcal biofilm assembly and disassembly. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS

33. [1.1] SUGIMOTO, Shinya - SATO, Fumiya - MIYAKAWA, Reina - CHIBA, Akio - ONODERA, Shoichi - HORI, Seiji - MIZUNOE, Yoshimitsu. Broad impact of extracellular DNA on biofilm formation by clinically isolated Methicillin-resistant and sensitive strains of *Staphylococcus aureus*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

34. [1.1] SULTAN, Andi R. - HOPPENBROUWERS, Tamara - LEMMENS-DEN TOOM, Nicole A. - SNIJDERS, Susan - VAN NECK, Johan W. - VERBON, Annelies - DE MAAT, Moniek P. M. - VAN WAMEL, Willem J. B. During the Early Stages of *Staphylococcus aureus* Biofilm Formation, Induced Neutrophil Extracellular Traps Are Degraded by Autologous Thermonuclease. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2019, vol. 87, no. 12, pp., Registrované v: WOS

35. [1.1] SULTAN, Andi R. - SWIERSTRA, Jasper W. - LEMMENS-DEN TOOM, Nicole A. - SNIJDERS, Susan - MANASKOVA, Silvie Hansenova - VERBON, Annelies - VAN WAMEL, Willem J. B. Production of Staphylococcal Complement Inhibitor (SCIN) and Other Immune Modulators during the Early Stages of *Staphylococcus aureus* Biofilm Formation in a Mammalian Cell Culture Medium. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2018, vol. 86, no. 8, pp., Registrované v: WOS

36. [1.1] TAHA, Mariam - KOHNEN, Carissa - MALLYA, Shruti - KOU, Yuntong - ZAPATA, Adriana - RAMIREZ-ARCOS, Sandra. Comparative characterisation of the biofilm-production abilities of *Staphylococcus epidermidis* isolated from human skin and platelet concentrates. In JOURNAL OF MEDICAL MICROBIOLOGY. ISSN 0022-2615, 2018, vol. 67, no. 2, pp. 190-197., Registrované v: WOS

37. [1.1] WHITFIELD, Gregory B. - MARMONT, Lindsey S. - HOWELL, P. Lynne. Enzymatic modifications of exopolysaccharides enhance bacterial persistence. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

38. [1.1] WU, Shizhou - LIU, Yunjie - ZHANG, Hui - LEI, Lei. The Pathogenicity and Transcriptome Analysis of Methicillin-Resistant *Staphylococcus aureus* in Response to Water Extract of *Galla chinensis*. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2019, vol. 2019, no., pp., Registrované v: WOS

39. [1.1] XUE, Ting - NI, Jingtian - SHANG, Fei - CHEN, Xiaolin - ZHANG, Ming. Autoinducer-2 increases biofilm formation via an ica- and bhp-dependent manner in *Staphylococcus epidermidis* RP62A. In MICROBES AND INFECTION. ISSN 1286-4579, 2015, vol. 17, no. 5, pp. 345-352., Registrované v: WOS

40. [1.1] YONG, Yi Yi - DYKES, Gary A. - CHOO, Wee Sim. Biofilm formation by staphylococci in health-related environments and recent reports on their control using natural compounds. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, 2019, vol. 45, no. 2, pp. 201-222., Registrované v: WOS

41. [1.1] ZHANG, Yunhui - FU, Yakun - YU, Jialin - AI, Qing - LI, Junshuai - PENG, Ningning - SONG, Sijie - HE, Yu - WANG, Zhengli. Synergy

of ambroxol with vancomycin in elimination of catheter-related *Staphylococcus epidermidis* biofilm in vitro and in vivo. In *JOURNAL OF INFECTION AND CHEMOTHERAPY*. ISSN 1341-321X, 2015, vol. 21, no. 11, pp. 808-815., Registrované v: WOS

42. [1.1] ZHAO, Xingchen - LIU, Zonghui - LIU, Zuoja - MENG, Rizeng - SHI, Ce - CHEN, Xiangrong - BU, Xiujuan - GUO, Na. Phenotype and RNA-seq-Based transcriptome profiling of *Staphylococcus aureus* biofilms in response to tea tree oil. In *MICROBIAL PATHOGENESIS*. ISSN 0882-4010, 2018, vol. 123, no., pp. 304-313., Registrované v: WOS

43. [1.2] PARKUNAN, Salai Madhumathi - CALLEGAN, Michelle C. The pathogenesis of bacterial endophthalmitis. In *Endophthalmitis*, 2016-01-01, pp. 17-47., Registrované v: SCOPUS

44. [1.2] RATHINAM, Navanietha Krishnaraj - SANI, Rajesh K. - GUPTA, Payal - PRUTHI, Parul A. - PRUTHI, Vikas. Role of Exopolysaccharides in Biofilm Formation. In *ACS Symposium Series*. ISSN 00976156, 2019-01-01, 1323, pp. 17-57., Registrované v: SCOPUS

45. [1.2] WEIDENMAIER, Christopher - LEE, Jean C. Structure and function of surface polysaccharides of *Staphylococcus aureus*. In *Current Topics in Microbiology and Immunology*. ISSN 0070217X, 2017-01-01, 409, pp. 57-93., Registrované v: SCOPUS

ADCA1127 SAHA, Sudipta - NOSÁLOVÁ, Gabriela - GHOST, Debjani - FLEŠKOVÁ, Dana - CAPEK, Peter - RAY, Bimalendu. Structural features and in vivo antitussive activity of the water extracted polymer from *Glycyrrhiza glabra*. In *International Journal of Biological Macromolecules*, 2011, vol. 48, p. 634-638. (2010: 2.502 - IF, Q3 - JCR, 0.873 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2011.02.003>

Ohlasy:

1. [1.1] AYRLE, Hannah - MEVISSEN, Meike - KASKE, Martin - NATHUES, Heiko - GRUETZNER, Niels - MELZIG, Matthias - WALKENHORST, Michael. Medicinal plants prophylactic and therapeutic options for gastrointestinal and respiratory diseases in calves and piglets? A systematic review. In *BMC VETERINARY RESEARCH*. ISSN 1746-6148, 2016, vol. 12, no., pp., Registrované v: WOS

2. [1.1] GHAEMI, Hajar - MASOOMPOUR, Seyed Masoom - AFSHARYPUOR, Suleiman - MOSAFFA-JAHROMI, Maryam - PASALAR, Mehdi - AHMADI, Fatemeh - NIKNAHAD, Hossein. The effectiveness of a traditional Persian medicine preparation in the treatment of chronic cough: A randomized, double-blinded, placebo-controlled clinical trial. In *COMPLEMENTARY THERAPIES IN MEDICINE*. ISSN 0965-2299, 2020, vol. 49, no., pp. Dostupné na: <https://doi.org/10.1016/j.ctim.2020.102324>., Registrované v: WOS

3. [1.1] GUO, Tao - WEI, Jun Qing - MA, Jian Ping. Antitussive and expectorant activities of *Potentilla anserina*. In *PHARMACEUTICAL BIOLOGY*. ISSN 1388-0209, 2016, vol. 54, no. 5, pp. 807-811., Registrované v: WOS

4. [1.1] HOSSEINZADEH, Hossein - NASSIRI-ASL, Marjan. Pharmacological Effects of *Glycyrrhiza* spp. and Its Bioactive Constituents: Update and Review. In *PHYTOTHERAPY RESEARCH*. ISSN 0951-418X,

- 2015, vol. 29, no. 12, pp. 1868-1886., Registrované v: WOS
5. [1.1] CHEN, Peng You - MA, Miao - SHI, Ling Yu. Trade-off between salt secretion and gas exchange by stomata in the leaves of *Glycyrrhiza uralensis*. In *CURRENT SCIENCE*. ISSN 0011-3891, 2019, vol. 116, no. 7, pp. 1212-1217., Registrované v: WOS
 6. [1.1] KUANG, Yi - LI, Bin - FAN, Jingran - QIAO, Xue - YE, Min. Antitussive and expectorant activities of licorice and its major compounds. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 1, pp. 278-284., Registrované v: WOS
 7. [1.1] LUO, Chuan-hong - MA, Le-le - LIU, Hui-min - LIAO, Wei - XU, Run-chun - CI, Zhi-min - LIN, Jun-zhi - HAN, Li - ZHANG, Ding-kun. Research Progress on Main Symptoms of Novel Coronavirus Pneumonia Improved by Traditional Chinese Medicine. In *FRONTIERS IN PHARMACOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.556885>., Registrované v: WOS
 8. [1.1] MA, Xiaoyun - LIANG, Zhiyuan - GAN, Xiuhai - WEI, Gang - ZHOU, Qingdi. Synthesis and antitussive activity of obtucarbamate A derivatives. In *SYNTHETIC COMMUNICATIONS*. ISSN 0039-7911, 2020, vol. 50, no. 13, pp. 2026-2032. Dostupné na: <https://doi.org/10.1080/00397911.2020.1762093>., Registrované v: WOS
 9. [1.1] NOSHAHI, Usama Farhan - NAWAZ, Muhammad Asif - HUSSAIN, Mubashar. A review of the medicinal values and health effects of plant *Glycyrrhiza glabra* (Licorice). In *ZEITSCHRIFT FÜR ARZNEI- & GEWURZPFLANZEN*. ISSN 1431-9292, 2019, vol. 24, no. 3, pp. 121-127., Registrované v: WOS
 10. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In *ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE*. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
 11. [1.1] WANG, Chengcheng - CHEN, Lihong - XU, Chaoqie - SHI, Jingjing - CHEN, Shuyu - TAN, Mengxia - CHEN, Jiali - ZOU, Lisi - CHEN, Cuihua - LIU, Zixiu - LIU, Xunhong. A Comprehensive Review for Phytochemical, Pharmacological, and Biosynthesis Studies on *Glycyrrhiza* spp. In *AMERICAN JOURNAL OF CHINESE MEDICINE*. ISSN 0192-415X, 2020, vol. 48, no. 1, pp. 17-45. Dostupné na: <https://doi.org/10.1142/S0192415X20500020>., Registrované v: WOS
 12. [1.1] WEI, Wan - GAO, Xiuping - ZHAO, Lei - ZHUANG, Jianguo - JIAO, Yang - XU, Fadi. Liquiritin apioside attenuates laryngeal chemoreflex but not mechanoreflex in rat pups. In *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*. ISSN 1040-0605, 2020, vol. 318, no. 1, pp. L89-L97. Dostupné na: <https://doi.org/10.1152/ajplung.00306.2019>., Registrované v: WOS
 13. [1.2] DURAK, Halil. Bio-oil production from *Glycyrrhiza glabra* through supercritical fluid extraction. In *Journal of Supercritical Fluids*. ISSN 08968446, 2015-01-01, 95, pp. 373-386., Registrované v: SCOPUS
 14. [1.2] LIM, Tong Kwee. Edible medicinal and non-medicinal plants: Volume 12, modified stems, roots, bulbs. In *Edible Medicinal and Non-Medicinal Plants: Volume 12 Modified Stems, Roots, Bulbs*, 2016-01-01, pp. 1-690., Registrované v: SCOPUS

15. [1.2] LIM, T. K. Edible medicinal and non-medicinal plants: Volume 11, modified stems, roots, bulbs. In *Edible Medicinal and Non-Medicinal Plants: Volume 11, Modified Stems, Roots, Bulbs*, 2016-01-01, pp. 1-392., Registrované v: SCOPUS

ADCA1128 SAVIN, Corina L. - PEPTU, Cristian** - KRONEKOVÁ, Zuzana - SEDLAČÍK, Milan - MRLÍK, Miroslav - SASINKOVÁ, Vlasta - PEPTU, Catalina - POPA, Marcel - MOSNÁČEK, Jaroslav**. Polyglobalide-based porous networks containing poly(ethylene glycol) structures prepared by photoinitiated thiol-ene coupling. In *Biomacromolecules*, 2018, vol. 19, p. 3331-3342. (2017: 5.738 - IF, Q1 - JCR, 1.950 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/acs.biomac.8b00634>

Ohlasy:

1. [1.1] CHIARADIA, V. - HANAY, S.B. - KIMMINS, S.D. - DE OLIVEIRA, D. - ARAUJO, P.H.H. - SAYER, C. - HEISE, A. Crosslinking of Electrospun Fibres from Unsaturated Polyesters by Bis-Triazolidinediones (TAD). In *POLYMERS*. NOV 2019, vol. 11, no. 11., Registrované v: WOS
2. [1.1] POLLONI, A.E. - CHIARADIA, V. - DO AMARAL, R.J.F.C. - KEARNEY, C. - GOREY, B. - DE OLIVEIRA, D. - DE OLIVEIRA, J.V. - DE ARAUJO, P.H. - SAYER, C. - HEISE, A. Polyesters with main and side chain phosphoesters as structural motives for biocompatible electrospun fibres. In *POLYMER CHEMISTRY*. ISSN 1759-9954, MAR 28 2020, vol. 11, no. 12, p. 2157-2165., Registrované v: WOS
3. [1.1] ROWLEY, J.V. - WALL, P. - YU, H.Y. - TRONCI, G. - DEVINE, D.A. - VERNON, J.J. - THORNTON, P.D. Antimicrobial Dye-Conjugated Polyglobalide-Based Organogels. In *ACS APPLIED POLYMER MATERIALS*. ISSN 2637-6105, JUL 10 2020, vol. 2, no. 7, p. 2927-2933., Registrované v: WOS

ADCA1129 SHAO, J. - ZHANG, J. - NAHÁLKA, Jozef - WANG, P.G. Biocatalytic synthesis of uridine 5'-diphosphate N-acetylglucosamine by multiple enzymes co-immobilized on agarose beads. In *Chemical Communication*, 2002, vol. 2002, p. 2586-2587. ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/b207480j>

Ohlasy:

1. [1.1] LEMMERER, Martin - SCHMOELZER, Katharina - GUTMANN, Alexander - NIDETZKY, Bernd. Downstream Processing of Nucleoside-Diphospho-Sugars from Sucrose Synthase Reaction Mixtures at Decreased Solvent Consumption. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2016, vol. 358, no. 19, pp. 3113-3122., Registrované v: WOS
2. [1.1] LI, Xiaoyan - QI, Chen - WEI, Peilian - HUANG, Lei - CAI, Jin - XU, Zhinan. Efficient chemoenzymatic synthesis of uridine 5-diphosphate N-acetylglucosamine and uridine 5-diphosphate N-trifluoroacetyl glucosamine with three recombinant enzymes. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 9, pp. 852-859., Registrované v: WOS
3. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for

the synthesis of uridine diphosphate N-acetylglucosamine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS

4. [1.1] XU, Kongliang - CHEN, Xuexiao - ZHENG, Renchao - ZHENG, Yuguo. Immobilization of Multi-Enzymes on Support Materials for Efficient Biocatalysis. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00660>., Registrované v: WOS

ADCA1130 SHARECK, F. - BIELY, Peter - MOROSOLI, R. - KLUEPFEL, D. Analysis of DNA flanking the xlnB locus of Streptomyces lividans reveals genes encoding acetyl xylan esterase and the RNA component of ribonuclease P. In *Gene*, 1995, vol. 153, p. 105-109. (1995 - Current Contents). ISSN 0378-1119. Dostupné na: [https://doi.org/10.1016/0378-1119\(94\)00763-I](https://doi.org/10.1016/0378-1119(94)00763-I)

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] HETTIARACHCHI, Sachithra Amarin - KWON, Young-Kyung - LEE, Youngdeuk - JO, Eunyoung - EOM, Tae-Yang - KANG, Yoon-Hyeok - KANG, Do-Hyung - DE ZOYSA, Mahanama - MARASINGHE, Svinil Dileepa - OH, Chulhong. Characterization of an acetyl xylan esterase from the marine bacterium Ochrovirga pacifica and its synergism with xylanase on beechwood xylan. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS

3. [3.2] Group Author(s). Uniprot Consortium. P26515. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/P26515>, Registrované v: Data Citation Index

ADCA1131 SHIPP, M. - NADELLA, R. - GAO, H. - FARKAŠ, Vladimír - SIGRIST, H. - FAIK, A. Glyco-array technology for efficient monitoring of plant cell wall glycosyltransferase activities. In *Glycoconjugate journal*, 2008, vol. 25, p. 49-58. (2007: 1.602 - IF, Q3 - JCR, 0.979 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-007-9060-1>

Ohlasy:

1. [1.1] JUNG, Se-Hui - HA, Kwon-Soo. Protein Arrays for Quantitative Enzymatic Profiling and Serodiagnosis. In BIOCHIP JOURNAL. ISSN 1976-0280, 2015, vol. 9, no. 4, pp. 269-277., Registrované v: WOS

2. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. The Role of Auxin in Cell Wall Expansion. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS

3. [1.1] MENDE, Marco - BORDONI, Vittorio - TSOUKA, Alexandra - LOEFFLER, Felix F. - DELBIANCO, Martina - SEEBERGER, Peter H. Multivalent glycan arrays. In FARADAY DISCUSSIONS. ISSN 1359-6640, 2019, vol. 219, no., pp. 9-32., Registrované v: WOS

4. [1.1] PALMA, Angelina S. - CHAI, Wengang. Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology. In SYNTHETIC GLYCOMES. ISSN 2055-1975, 2019, vol. 11, no., pp.

421-446., Registrované v: WOS

5. [1.1] RAGUIN, Adelaide - EBENHOEH, Oliver. Design starch: stochastic modeling of starch granule biogenesis. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. ISSN 0300-5127, 2017, vol. 45, no., pp. 885-893., Registrované v: WOS

6. [1.1] SHIVATARE, Sachin S. - WONG, Chi-Huey. Synthetic Carbohydrate Chemistry and Translational Medicine. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15780-15800. Dostupné na: <https://doi.org/10.1021/acs.joc.0c01834>., Registrované v: WOS

7. [1.1] SHI, Liqiao - WU, Zhaoyuan - ZHANG, Yani - ZHANG, Zhigang - FANG, Wei - WANG, Yueying - WAN, Zhongyi - WANG, Kaimei - KE, Shaoyong. Herbicidal Secondary Metabolites from Actinomycetes: Structure Diversity, Modes of Action, and Their Roles in the Development of Herbicides. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 17-32. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b06126>., Registrované v: WOS

8. [1.1] WOLF, Jeremy R. Review: radiolabeled polymers containing covalently bound H-3 and C-14. In *JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS*. ISSN 0362-4803, 2016, vol. 59, no. 2, pp. 38-47., Registrované v: WOS

9. [1.2] HELD, Michael A. - JIANG, Nan - BASU, Debarati - SHOWALTER, Allan M. - FAIK, Ahmed. Plant cell wall polysaccharides: Structure and biosynthesis. In *Polysaccharides: Bioactivity and Biotechnology*, 2015-01-01, pp. 3-54., Registrované v: SCOPUS

10. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 159-176., Registrované v: SCOPUS

11. [1.2] WU, Chung Yi - CHANG, Shih Huang. Discoveries and applications of glycan arrays. In *Glycochemical Synthesis: Strategies and Applications*, 2015-01-01, pp. 407-424., Registrované v: SCOPUS

ADCA1132 SHIRKOV, Leonid - SLÁDEK, Vladimír. Benchmark CCSD-SAPT study of rare gas dimers with comparison to MP-SAPT and DFT-SAPT. In *Journal of Chemical Physics*, 2017, vol. 147, art. no. 174103. (2016: 2.965 - IF, Q2 - JCR, 1.486 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4997569>

Ohlasy:

1. [1.1] BOESE, A. Daniel - JANSEN, Georg. ZMP-SAPT: DFT-SAPT using ab initio densities. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2019, vol. 150, no. 15, pp., Registrované v: WOS

2. [1.1] FEDOROV, Dmitry - SADHUKHAN, Mainak - STOEHR, Martin - TKATCHENKO, Alexandre. Quantum-Mechanical Relation between Atomic Dipole Polarizability and the van der Waals Radius. In *PHYSICAL REVIEW LETTERS*. ISSN 0031-9007, 2018, vol. 121, no. 18, pp., Registrované v: WOS

3. [1.1] MONTERO-CAMPILLO, M. Merced - MO, Otilia - YANEZ, Manuel - ALKORTA, Ibon - ELGUERO, Jose. The beryllium bond. In

COMPUTATIONAL CHEMISTRY. ISSN 0898-8838, 2019, vol. 73, no., pp. 73-121., Registrované v: WOS

4. [1.1] PATKOWSKI, Konrad. Recent developments in symmetry-adapted perturbation theory. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.1002/wcms.1452>., Registrované v: WOS

5. [1.1] SHENG, Xiaowei - ZHU, Hongjuan - ZHANG, Zixuan - ZHANG, Danyang - LU, Jingyang - XIAO, Jianping. An accurate analytical formula for the van der Waals potentials of homonuclear rare-gas dimers with one adjustable parameter. In INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY. ISSN 0020-7608, 2019, vol. 119, no. 3, pp., Registrované v: WOS

6. [1.1] STOHR, Martin - VAN VOORHIS, Troy - TKATCHENKO, Alexandre. Theory and practice of modeling van der Waals interactions in electronic-structure calculations. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2019, vol. 48, no. 15, pp. 4118-4154., Registrované v: WOS

ADCA1133 SHLEEV, S. - TKÁČ, Ján - CHRISTENSON, A. - BUZGAS, T. - YAROLOPOV, A.I. - WHITTAKER, J.W. - GORTON, L. Direct electron transfer between copper-containing proteins and electrodes. In *Biosensors and Bioelectronics*, 2005, vol. 20, p. 2517-2554. Dostupné na: <https://doi.org/10.1016/j.bios.2004.10.003>

Ohlasy:

1. [1.1] ABDULHALIM, Aya S. - ASAL, Yasser M. - MOHAMMAD, Ahmad M. - AL-AKRAA, Islam M. Ni-Au Anodic Nano-Electrocatalyst for Direct Glucose Fuel Cells. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 4, pp. 3274-3282. Dostupné na: <https://doi.org/10.20964/2020.04.01>., Registrované v: WOS

2. [1.1] ABUZAIED, Mahmoud M. - ASAL, Yasser M. - MOHAMMAD, Ahmad M. - AL-AKRAA, Islam M. Enhanced Glucose Electrooxidation at Ni-Cu Binary Oxide Nanocatalyst. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 3, pp. 2449-2457. Dostupné na: <https://doi.org/10.20964/2020.03.57>., Registrované v: WOS

3. [1.1] ALBRECHT, T. - HORSWELL, S. - ALLERSTON, L. K. - REES, N. V. - RODRIGUEZ, P. Electrochemical processes at the nanoscale. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 7, no., pp. 138-145., Registrované v: WOS

4. [1.1] ALLERSTON, Laura K. - REES, Neil V. Nanoparticle impacts in innovative electrochemistry. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 10, no., pp. 31-36., Registrované v: WOS

5. [1.1] ALTAWHEEL, Khaled - AMARASINGHE, Chami C. - BRULE-BABEL, Anita L. - FERNANDO, W. G. Dilantha. Gene expression analysis of host-pathogen interaction between wheat and *Fusarium graminearum*. In EUROPEAN JOURNAL OF PLANT PATHOLOGY. ISSN 0929-1873, 2017, vol. 148, no. 3, pp. 617-629., Registrované v: WOS

6. [1.1] AL-LOLAGE, Firas A. - BARTLETT, Philip N. - GOUNEL,

Sebastien - STAIGRE, Priscilla - MANO, Nicolas. Site-Directed Immobilization of Bilirubin Oxidase for Electrocatalytic Oxygen Reduction. In ACS CATALYSIS. ISSN 2155-5435, 2019, vol. 9, no. 3, pp. 2068-2078., Registrované v: WOS

7. [1.1] AMEUR, Iness - DKHILI, Samiha - SBIHI, Hassen - BESBES-HENTATI, Salma - RZAIGUI, Mohamed - ABID, Sonia. A Cadmium Coordination Polymer Based on Phosphate Clusters: Synthesis, Crystal Structure, Electrochemical Investigation and Antibacterial Activity. In JOURNAL OF CLUSTER SCIENCE. ISSN 1040-7278, 2016, vol. 27, no. 2, pp. 537-550., Registrované v: WOS

8. [1.1] ARSHI, Simin - NOZARI-ASBEMARZ, Mehran - MAGNER, Edmond. Enzymatic Bioreactors: An Electrochemical Perspective. In CATALYSTS, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/catal10111232>., Registrované v: WOS

9. [1.1] BALDACCHINI, Chiara - KUMAR, Vivek - BIZZARRI, Anna Rita - CANNISTRARO, Salvatore. Electron tunnelling through single azurin molecules can be on/off switched by voltage pulses. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, 2015, vol. 106, no. 18, pp., Registrované v: WOS

10. [1.1] BHARATI, SL - CHAURASIA, PK. Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. 1-549., Registrované v: WOS

11. [1.1] BOLLELLA, Paolo. Porous Gold: A New Frontier for Enzyme-Based Electrodes. In NANOMATERIALS, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/nano10040722>., Registrované v: WOS

12. [1.1] CAETANO, F. R. - CARNEIRO, E. A. - AGUSTINI, D. - FIGUEIREDO-FILHO, L. C. S. - BANKS, C. E. - BERGAMINI, M. F. - MARCOLINO-JUNIOR, L. H. Combination of electrochemical biosensor and textile threads: A microfluidic device for phenol determination in tap water. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 99, no., pp. 382-388., Registrované v: WOS

13. [1.1] CAMPBELL, Alan S. - MURATA, Hironobu - CARMALI, Sheiliza - MATYJASZEWSKI, Krzysztof - ISLAM, Mohammad F. - RUSSELL, Alan J. Polymer-based protein engineering grown ferrocene-containing redox polymers improve current generation in an enzymatic biofuel cell. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 86, no., pp. 446-453., Registrované v: WOS

14. [1.1] CASTROVILLI, Mattea Carmen - BOLOGNESI, Paola - CHIARINELLI, Jacopo - AVALDI, Lorenzo - CALANDRA, Pietro - ANTONACCI, Amina - SCOGNAMIGLIO, Viviana. The convergence of forefront technologies in the design of laccase-based biosensors An update. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2019, vol. 119, no., pp., Registrované v: WOS

15. [1.1] COSTA DE OLIVEIRA, Maida Aysla - D'EPIFANIO, Alessandra - OHNUKI, Hitoshi - MECHERI, Barbara. Platinum Group Metal-Free Catalysts for Oxygen Reduction Reaction: Applications in Microbial Fuel Cells. In CATALYSTS, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/catal10050475>., Registrované v: WOS

16. [1.1] DAI, Jianan - WANG, Hongxia - CHI, Hui - WANG, Yingying

- ZHAO, Jingxiang. Immobilization of laccase from *Pleurotus ostreatus* on magnetic separable SiO₂ support and excellent activity towards azo dye decolorization. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-2929, 2016, vol. 4, no. 2, pp. 2585-2591., Registrované v: WOS
17. [1.1] DAS, Priyanki - DAS, Madhuri - CHINNADAYYALA, Somasekhar R. - SINGHA, Irom Manoj - GOSWAMI, Pranab. Recent advances on developing 3rd generation enzyme electrode for biosensor applications. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 79, no., pp. 386-397., Registrované v: WOS
18. [1.1] DESKA, Malgorzata - KONCZAK, Beata. Immobilized fungal laccase as "green catalyst" for the decolourization process State of the art. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 84, no., pp. 112-123., Registrované v: WOS
19. [1.1] DORCAK, Vlastimil - VARGOVA, Veronika - OSTATNA, Veronika - PALECEK, Emil. Lysine, Arginine, and Histidine Residues in Peptide-Catalyzed Hydrogen Evolution at Mercury Electrodes. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 4, pp. 910-916., Registrované v: WOS
20. [1.1] DU, Cheng - GAO, Xiaohui - CHEN, Wei. Recent developments in copper-based, non-noble metal electrocatalysts for the oxygen reduction reaction. In CHINESE JOURNAL OF CATALYSIS. ISSN 0253-9837, 2016, vol. 37, no. 7, pp. 1049-1061., Registrované v: WOS
21. [1.1] DU, Yiwen - MA, Hua - HUANG, Liping - PAN, Yu - HUANG, Juan - LIU, Yan. Electrochemical characteristics of the decolorization of three dyes by laccase mediator system (LMS) with synthetic and natural mediators. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 239, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.124779>., Registrované v: WOS
22. [1.1] FAN, Lili - ZHAO, Min - WANG, Yan. Expression of CotA laccase in *Pichia pastoris* and its electrocatalytic sensing application for hydrogen peroxide. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2015, vol. 99, no. 22, pp. 9483-9493., Registrované v: WOS
23. [1.1] FAVERO, Gabriele - FUSCO, Giovanni - MAZZEI, Franco - TASCA, Federico - ANTIOCHIA, Riccarda. Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. In NANOMATERIALS, 2015, vol. 5, no. 4, pp. 1995-2006., Registrované v: WOS
24. [1.1] FIERRO, Stephane - EINAGA, Yasuaki. Advances in Electrochemical Biosensing Using Boron Doped Diamond Microelectrode. In NOVEL ASPECTS OF DIAMOND: FROM GROWTH TO APPLICATIONS. ISSN 0303-4216, 2015, vol. 121, no., pp. 295-318., Registrované v: WOS
25. [1.1] FLEXER, Victoria - BRUN, Nicolas. Fundamentals of Enzymatic Electrochemical Systems. In FUNCTIONAL ELECTRODES FOR ENZYMATIC AND MICROBIAL ELECTROCHEMICAL SYSTEMS, 2018, vol., no., pp. 3-50., Registrované v: WOS
26. [1.1] FOROOTANFAR, Hamid - ARJMAND, Shokouh - BEHZADI, Mina - FARAMARZI, Mohammad Ali. Laccase-Mediated Treatment of Pharmaceutical Wastes. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL

ENZYMOMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. 213-252., Registrované v: WOS

27. [1.1] GENTIL, Solene - ROUSSELOT-PAILLEY, Pierre - SANCHÓ, Ferran - ROBERT, Viviane - MEKMOUCHE, Yasmina - GUALLAR, Victor - TRON, Thierry - LE GOFF, Alan. Efficiency of Site-Specific Clicked Laccase-Carbon Nanotubes Biocathodes towards O-2 Reduction. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2020, vol. 26, no. 21, pp. 4798-4804. Dostupné na:

<https://doi.org/10.1002/chem.201905234>., Registrované v: WOS

28. [1.1] GHOLAMI, Fereshte - NAVAEI, Aso - SALIMI, Abdollah - AHMADI, Reza - KORANI, Azam - HALLAJ, Rahman. Direct Enzymatic Glucose/O-2 Biofuel Cell based on Poly-Thiophene Carboxylic Acid alongside Gold Nanostructures Substrates Derived through Bipolar Electrochemistry. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

29. [1.1] GRATTIERI, Matteo - BABANOVA, Sofia - SANTORO, Carlo - GUERRINI, Edoardo - TRASATTI, Stefano P. M. - CRISTIANI, Pierangela - BESTETTI, Massimiliano - ATANASSOV, Plamen. Enzymatic Oxygen Microsensor Based on Bilirubin Oxidase Applied to Microbial Fuel Cells Analysis. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 2, pp. 327-335., Registrované v: WOS

30. [1.1] HE, Yaping - YANG, Xiaohui - HAN, Quan - ZHENG, Jianbin. The Investigation of Electrochemistry Behaviors of Tyrosinase Based on Directly-Electrodeposited Graphene-Choline-Gold Nanoparticles. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS

31. [1.1] HICKEY, David P. - MILTON, Ross D. - RASMUSSEN, Michelle - ABDELLAOUI, Sofiene - KHIEM NGUYEN - MINTEER, Shelley D. Fundamentals and applications of bioelectrocatalysis. In ELECTROCHEMISTRY, VOL 13. ISSN 0305-9979, 2016, vol. 13, no., pp. 97-132., Registrované v: WOS

32. [1.1] HOSHIKAWA, Yasuto - CASTRO-MUNIZ, Alberto - TAWATA, Hanako - NOZAKI, Kouichi - YAMANE, Shohei - ITOH, Tetsuji - KYOTANI, Takashi. Orientation Control of Trametes Laccases on a Carbon Electrode Surface to Understand the Orientation Effect on the Electrocatalytic Activity. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2018, vol. 29, no. 9, pp. 2927-2935., Registrované v: WOS

33. [1.1] HUSSAIN, Khalil Khadim - MOON, Jong-Min - PARK, Deog-Su - SHIM, Yoon-Bo. Electrochemical Detection of Hemoglobin: A Review. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 10, pp. 2177-2177., Registrované v: WOS

34. [1.1] HU, Jinyuan - LU, Kun - DONG, Shipeng - HUANG, Jingguo - MAO, Liang. Inactivation of Laccase by the Attack of As (III) Reaction in Water. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2018, vol. 52, no. 5, pp. 2945-2952., Registrované v: WOS

35. [1.1] CHAMPAVERT, Joffrey - MARDIANA, Ummy - INNOCENT, Christophe. Bio-catalytic Devices for Energy Production. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2017, vol. 21, no. 17, pp. 1702-1712., Registrované v: WOS

36. [1.1] CHEN, Hui - SIMOSKA, Olja - LIM, Koun - GRATTIERI, Matteo - YUAN, Mengwei - DONG, Fangyuan - LEE, Yoo Seok - BEAVER,

- Kevin - WELIWATTE, Samali - GAFFNEY, Erin M. - MINTEER, Shelley D. Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 23, pp. 12903-12993. Dostupné na: <https://doi.org/10.1021/acs.chemrev.0c00472>., Registrované v: WOS
37. [1.1] CHEN, Jinyao - ZHENG, Hao - KANG, Jian - YANG, Feng - CAO, Ya - XIANG, Ming. An alkaline direct oxidation glucose fuel cell using three-dimensional structural Au/Ni-foam as catalytic electrodes. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 5, pp. 3035-3042., Registrované v: WOS
38. [1.1] CHEN, Muqing - GUAN, Runnan - YANG, Shangfeng. Hybrids of Fullerenes and 2D Nanomaterials. In ADVANCED SCIENCE, 2019, vol. 6, no. 1, pp., Registrované v: WOS
39. [1.1] CHUMILLAS, Sara - MAESTRO, Beatriz - FELIU, Juan M. - CLIMENT, Victor. Comprehensive Study of the Enzymatic Catalysis of the Electrochemical Oxygen Reduction Reaction (ORR) by Immobilized Copper Efflux Oxidase (CueO) From Escherichia coli. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
40. [1.1] CHU, Xueqing - ZHANG, Mi - HUO, Wenshan - ZENG, Han - YAN, Yang. 2-hydroxy-4-amino-azobenzene modified Graphene Oxide with Incorporation of Bilirubin Oxidase for Photoelectrochemical Catalysis of Oxygen Reduction Reaction. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 11, pp. 11531-11554. Dostupné na: <https://doi.org/10.20964/2020.11.46>., Registrované v: WOS
41. [1.1] JANA, Narayan Ch. - BRANDAO, Paula - FRONTERA, Antonio - PANJA, Anangamohan. A facile biomimetic catalytic activity through hydrogen atom abstraction by the secondary coordination sphere in manganese(III) complexes. In DALTON TRANSACTIONS. ISSN 1477-9226, 2020, vol. 49, no. 40, pp. 14216-14230. Dostupné na: <https://doi.org/10.1039/d0dt02431g>., Registrované v: WOS
42. [1.1] JI, Chao - HOU, Jingwei - WANG, Kai - NG, Yun Hau - CHEN, Vicki. Single-Enzyme Biofuel Cells. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2017, vol. 56, no. 33, pp. 9762-9766., Registrované v: WOS
43. [1.1] KAWAI, Shota - YAKUSHI, Toshiharu - MATSUSHITA, Kazunobu - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Role of a non-ionic surfactant in direct electron transfer-type bioelectrocatalysis by fructose dehydrogenase. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 152, no., pp. 19-24., Registrované v: WOS
44. [1.1] KIZLING, Michal - DRAMINSKA, Sylwia - STOLARCZYK, Krzysztof - TAMMELA, Petter - WANG, Zhaohui - NYHOLM, Leif - BILEWICZ, Renata. Biosupercapacitors for powering oxygen sensing devices. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2015, vol. 106, no., pp. 34-40., Registrované v: WOS
45. [1.1] KOWALCZYK, Agata - MATYSIAK-BRYNDA, Edyta - NOWICKA, Anna M. Proteins and peptides voltammetry: Trends, potential, and limitations. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2019, vol. 14, no., pp. 44-52., Registrované v: WOS
46. [1.1] LALAOUI, Noemie - DAVID, Rolf - JAMET, Helene -

- HOLZINGER, Michael - LE GOFF, Alan - COSNIER, Serge. Hosting Adamantane in the Substrate Pocket of Laccase: Direct Bioelectrocatalytic Reduction of O₂ on Functionalized Carbon Nanotubes. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 7, pp. 4259-4264., Registrované v: WOS
47. [1.1] LASKOWSKI, Lukasz - LASKOWSKA, Magdalena - FIJALKOWSKI, Krzysztof - PIECH, Henryk - JELONKIEWICZ, Jerzy - JASKULAK, Marta - GNATOWSKI, Adam - DULSKI, Mateusz. New Class of Antimicrobial Agents: SBA-15 Silica Containing Anchored Copper Ions. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2017, vol., no., pp., Registrované v: WOS
48. [1.1] LE GOFF, Alan - HOLZINGER, Michael - COSNIER, Serge. Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2015, vol. 72, no. 5, pp. 941-952., Registrované v: WOS
49. [1.1] LEE, Hyeryeong - LEE, Yoo Seok - LEE, Soo Kyung - BAEK, Seungwoo - CHOI, In-Geol - JANG, Jae-Hyung - CHANG, In Seop. Significant enhancement of direct electric communication across enzyme-electrode interface via nano-patterning of synthetic glucose dehydrogenase on spatially tunable gold nanoparticle (AuNP)-modified electrode. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 170-177., Registrované v: WOS
50. [1.1] LEE, Seung-Woo - LEE, Ki-Young - SONG, Yong-Won - CHOI, Won Kook - CHANG, Joonyeon - YI, Hyunjung. Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. In ADVANCED MATERIALS. ISSN 0935-9648, 2016, vol. 28, no. 8, pp. 1577-1584., Registrované v: WOS
51. [1.1] LIANG, Ying - CAI, Rong - HICKEY, David P. - KITT, Jay P. - HARRIS, Joel M. - MINTEER, Shelley D. - KORZENIEWSKI, Carol. Infrared Microscopy as a Probe of Composition within a Model Biofuel Cell Electrode Prepared from Trametes versicolor Laccase. In CHEMELECTROCHEM. ISSN 2196-0216, 2019, vol. 6, no. 3, pp. 818-826., Registrované v: WOS
52. [1.1] LICSANDRU, Erol-Dan - SCHNEIDER, Susanne - TINGRY, Sophie - ELLIS, Thomas - MOULIN, Emilie - MAALOUM, Mounir - LEHN, Jean-Marie - BARBOIU, Mihail - GIUSEPPONE, Nicolas. Self-assembly of supramolecular triarylamine nanowires in mesoporous silica and biocompatible electrodes thereof. In NANOSCALE. ISSN 2040-3364, 2016, vol. 8, no. 10, pp. 5605-5611., Registrované v: WOS
53. [1.1] LIU, Yan - MA, Hua - HUANG, Juan - LI, Zhe - PAN, Yu - DU, Yiwen. Carbonaceous nanomaterials stimulate extracellular enzyme release by the fungus Cladosporium sp. and enhance extracellular electron transfer to facilitate lignin biodegradation. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2019, vol. 696, no., pp., Registrované v: WOS
54. [1.1] LI, Wei - MIN, Chungang - TAN, Feng - LI, Zhanping - ZHANG, Bingsen - SI, Rui - XU, Mingli - LIU, Weiping - ZHOU, Liexing - WEI, Qingmao - ZHANG, Yuzhen - YANG, Xikun. Bottom-Up Construction of Active Sites in a Cu-N₄-C Catalyst for Highly Efficient Oxygen Reduction Reaction. In ACS NANO. ISSN 1936-0851, 2019, vol. 13, no. 3, pp. 3177-3187., Registrované v: WOS
55. [1.1] LUIS OLLOQUI-SARIEGO, Jose - ZAKHAROVA, Galina S. -

- POLOZNIKOV, Andrey A. - JOSE CALVENTE, Juan - HUSHPULIAN, Dmitry M. - GORTON, Lo - ANDREU, Rafael. Interprotein Coupling Enhances the Electrocatalytic Efficiency of Tobacco Peroxidase Immobilized at a Graphite Electrode. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 21, pp. 10807-10814., Registrované v: WOS
56. [1.1] MAJDECKA, Dominika - BILEWICZ, Renata. Nanostructuring carbon supports for optimal electrode performance in biofuel cells and hybrid fuel cells. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2016, vol. 20, no. 4, pp. 949-955., Registrované v: WOS
57. [1.1] MAJDECKA, Dominika - DRAMINSKA, Sylwia - JANUSEK, Dariusz - KRYSINSKI, Pawel - BILEWICZ, Renata. A self-powered biosensing device with an integrated hybrid biofuel cell for intermittent monitoring of analytes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 102, no., pp. 383-388., Registrované v: WOS
58. [1.1] MANJUNATHA, P. - NAYAKA, Y. Arthoba - PURUSHOTHAMA, H. T. - YATHISHA, R. O. - VINAY, M. M. Single-walled carbon nanotubes-based electrochemical sensor for the electrochemical investigation of pantoprazole in pharmaceuticals and biological samples. In IONICS. ISSN 0947-7047, 2019, vol. 25, no. 5, pp. 2297-2309., Registrované v: WOS
59. [1.1] MANNA, Subal Chandra - MISTRI, Soumen - PATRA, Apu - MAHISH, Manas Kumar - SAREN, Dama - MANNE, Rajesh Kumar - SANTRA, Manas Kumar - ZANGRANDO, Ennio - PUSCHMANN, Horst. Synthesis, structure, DNA/protein binding, molecular docking and in vitro anticancer activity of two Schiff base coordinated copper(II) complexes. In POLYHEDRON. ISSN 0277-5387, 2019, vol. 171, no., pp. 77-85., Registrované v: WOS
60. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
61. [1.1] MATYSIAK, Edyta - BOTZ, Alexander J. R. - CLAUSMEYER, Jan - WAGNER, Barbara - SCHUHMANN, Wolfgang - STOJEK, Zbigniew - NOWICKA, Anna M. Assembling Paramagnetic Ceruloplasmin at Electrode Surfaces Covered with Ferromagnetic Nanoparticles. Scanning Electrochemical Microscopy in the Presence of a Magnetic Field. In LANGMUIR. ISSN 0743-7463, 2015, vol. 31, no. 29, pp. 8176-8183., Registrované v: WOS
62. [1.1] MATYSIAK, Edyta - WAGNER, Barbara - BYSTRZEJEWSKI, Michal - GRUDZINSKI, Ireneusz P. - NOWICK, Anna M. Direct voltammetric detection of ceruloplasmin in blood in presence of other paramagnetic species. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 221, no., pp. 1461-1468., Registrované v: WOS
63. [1.1] MAYURI, Pinapeddavari - SARAVANAN, Natarajan - KUMAR, Annamalai Senthil. A bioinspired copper 2,2-bipyridyl complex immobilized MWCNT modified electrode prepared by a new strategy for elegant electrocatalytic reduction and sensing of hydrogen peroxide. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 240, no., pp. 522-533., Registrované v: WOS
64. [1.1] MAZUR, Iwona - ROLA, Beata - STOLARCZYK, Krzysztof - NAZARUK, Ewa - BILEWICZ, Renata - ROGALSKI, Jerzy - OHGA, Shoji.

- The Large Scale Production of *Cerrena unicolor* Laccase on Waste Agricultural Based Media. In JOURNAL OF THE FACULTY OF AGRICULTURE KYUSHU UNIVERSITY. ISSN 0023-6152, 2015, vol. 60, no. 2, pp. 297-302., Registrované v: WOS
65. [1.1] MA, Su - LUDWIG, Roland. Direct Electron Transfer of Enzymes Facilitated by Cytochromes. In CHEMELECTROCHEM. ISSN 2196-0216, 2019, vol. 6, no. 4, pp. 958-975., Registrované v: WOS
66. [1.1] MILTON, Ross D. - MINTEER, Shelley D. Direct enzymatic bioelectrocatalysis: differentiating between myth and reality. In JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689, 2017, vol. 14, no. 131, pp., Registrované v: WOS
67. [1.1] MINTEER, Shelley D. Methods in Biological Fuel Cells. In SPRINGER HANDBOOK OF ELECTROCHEMICAL ENERGY, 2017, vol., no., pp. 743-755., Registrované v: WOS
68. [1.1] MOHANAKRISHNA, Gunda - KONDAVEETI, Sanath - DESALE, Pridhviraj - EL MEKAWY, Ahmed - ABU-REESH, Ibrahim M. Enzymatic Electrosynthesis Toward Value Addition. In MICROBIAL ELECTROCHEMICAL TECHNOLOGY: SUSTAINABLE PLATFORM FOR FUELS, CHEMICALS AND REMEDIATION, 2019, vol., no., pp. 955-973., Registrované v: WOS
69. [1.1] MUKHOPADHYAY, Bishnu Prasad. Recognition dynamics of trinuclear copper cluster and associated histidine residues through conserved or semi-conserved water molecules in human Ceruloplasmin: The involvement of aspartic and glutamic acid gates. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2018, vol. 36, no. 14, pp. 3829-3842., Registrované v: WOS
70. [1.1] MURATA, Kazuki - SHIGEMORI, Yasushi - TSUJIMURA, Seiya. Electrochemical Activation of a Novel Laccase, MELAC, Isolated from Compost. In CHEMISTRY LETTERS. ISSN 0366-7022, 2015, vol. 44, no. 5, pp. 654-655., Registrované v: WOS
71. [1.1] NAVAEE, Aso - SALIMI, Abdollah - JAFARI, Fereydoon. Electrochemical Pretreatment of Amino-Carbon Nanotubes on Graphene Support as a Novel Platform for Bilirubin Oxidase with Improved Bioelectrocatalytic Activity towards Oxygen Reduction. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 13, pp. 4949-4953., Registrované v: WOS
72. [1.1] NAVAEE, Aso - SALIMI, Abdollah. Graphene-supported pyrene-functionalized amino-carbon nanotube: a novel hybrid architecture of laccase immobilization as effective bioelectrocatalyst for oxygen reduction reaction. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2015, vol. 3, no. 14, pp. 7623-7630., Registrované v: WOS
73. [1.1] OGAWA, Yudai - TAKAI, Yuki - KATO, Yuto - KAI, Hiroyuki - MIYAKE, Takeo - NISHIZAWA, Matsuhiko. Stretchable biofuel cell with enzyme-modified conductive textiles. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2015, vol. 74, no., pp. 947-952., Registrované v: WOS
74. [1.1] OLBRICH, Anna C. - SCHILD, Jan N. - URLACHER, Vlada B. Correlation between the T1 copper reduction potential and catalytic activity of a small laccase. In JOURNAL OF INORGANIC BIOCHEMISTRY. ISSN 0162-0134, 2019, vol. 201, no., pp., Registrované v: WOS

75. [1.1] PALZA, Humberto. Antimicrobial Polymers with Metal Nanoparticles. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2015, vol. 16, no. 1, pp. 2099-2116., Registrované v: WOS
76. [1.1] PANKRATOV, Dmitry - SUNDBERG, Richard - SOTRES, Javier - SUYATIN, Dmitry B. - MAXIMOV, Ivan - SHLEEV, Sergey - MONTELIUS, Lars. Scalable, high performance, enzymatic cathodes based on nanoimprint lithography. In BEILSTEIN JOURNAL OF NANOTECHNOLOGY. ISSN 2190-4286, 2015, vol. 6, no., pp. 1377-1384., Registrované v: WOS
77. [1.1] PARLAK, Onur - TURNER, Anthony P. F. Switchable bioelectronics. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 76, no., pp. 251-265., Registrované v: WOS
78. [1.1] PEREIRA, Andressa R. - SEDENHO, Graziela C. - DE SOUZA, Joao C. P. - CRESPILO, Frank N. Advances in enzyme bioelectrochemistry. In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2018, vol. 90, no. 1, pp. 825-857., Registrované v: WOS
79. [1.1] QUIJADA-MORIN, N. - GARCIA, F. - LAMBERT, K. - WALKER, A-S. - TIERS, L. - VIAUD, M. - SAUVAGE, F-X. - HIRTZ, C. - SAUCIER, C. Strain effect on extracellular laccase activities from Botrytis cinerea. In AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH. ISSN 1322-7130, 2018, vol. 24, no. 2, pp. 241-251., Registrované v: WOS
80. [1.1] RAJHANS, Geetanjali - SEN, Sudip Kumar - BARIK, Adyasa - RAUT, Sangeeta. LIGNINOLYTIC ENZYME SYSTEM OF WHITE-ROT FUNGI: A NATURAL APPROACH TO BIOREMEDIATION AND DETOXIFICATION OF AZO DYES IN TEXTILE WASTEWATER. In ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. ISSN 1582-9596, 2020, vol. 19, no. 11, pp. 1983-2002., Registrované v: WOS
81. [1.1] RAMASANKAR, Lukas - MESKYS, Rolandas - RATAUTAS, Dalius. Real-time glucose monitoring system containing enzymatic sensor and enzymatic reference electrodes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 164, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112338>., Registrované v: WOS
82. [1.1] RAYMUNDO-PEREIRA, Paulo A. - SILVA, Tiago A. - CAETANO, Fabio R. - RIBOVSKI, Lais - ZAPP, Eduardo - BRONDANI, Daniela - BERGAMINI, Marcio F. - MARCOLINO, Luiz H. - BANKS, Craig E. - OLIVEIRA, Osvaldo N. - JANEGITZ, Bruno C. - FATIBELLO-FILHO, Orlando. Polyphenol oxidase-based electrochemical biosensors: A review. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1139, no., pp. 198-221. Dostupné na: <https://doi.org/10.1016/j.aca.2020.07.055>., Registrované v: WOS
83. [1.1] REID, Russell C. - JONES, Sean R. - HICKEY, David P. - MINTEER, Shelley D. - GALE, Bruce K. Modeling Carbon Nanotube Connectivity and Surface Activity in a Contact Lens Biofuel Cell. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 203, no., pp. 30-40., Registrované v: WOS
84. [1.1] REID, Russell C. - MINTEER, Shelley D. - GALE, Bruce K. Contact lens biofuel cell tested in a synthetic tear solution. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2015, vol. 68, no., pp. 142-148., Registrované v: WOS
85. [1.1] RODRIGUEZ-DELGADO, Melissa M. - ALEMAN-NAVA,

- Gibran S. - MANUEL RODRIGUEZ-DELGADO, Jose - DIECK-ASSAD, Graciano - OMAR MARTINEZ-CHAPA, Sergio - BARCELO, Damia - PARRA, Roberto. Laccase-based biosensors for detection of phenolic compounds. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2015, vol. 74, no., pp. 21-45., Registrované v: WOS
86. [1.1] SABOE, Patrick O. - CONTE, Emelia - FARELL, Megan - BAZAN, Guillermo C. - KUMAR, Manish. Biomimetic and bioinspired approaches for wiring enzymes to electrode interfaces. In ENERGY & ENVIRONMENTAL SCIENCE. ISSN 1754-5692, 2017, vol. 10, no. 1, pp. 14-42., Registrované v: WOS
87. [1.1] SAKURADA, Yuki - TAKEDA, Kouta - OHNO, Hiroyuki - NAKAMURA, Nobuhumi. Immobilization of Pyrroloquinoline Quinone-Dependent Alcohol Dehydrogenase with a Polyion Complex and Redox Polymer for a Bioanode. In CATALYSTS. ISSN 2073-4344, 2017, vol. 7, no. 10, pp., Registrované v: WOS
88. [1.1] SAOUDI, O. - GHAOUAR, N. - OTHMAN, T. Conductivity measurements of laccase for various concentrations, pH and ionic liquid solutions. In FLUID PHASE EQUILIBRIA. ISSN 0378-3812, 2017, vol. 433, no., pp. 184-192., Registrované v: WOS
89. [1.1] SEKRETARYOVA, Alina N. - VAGIN, Mikhail Yu. - TURNER, Anthony P. F. - ERIKSSON, Mats. Electrocatalytic Currents from Single Enzyme Molecules. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2016, vol. 138, no. 8, pp. 2504-2507., Registrované v: WOS
90. [1.1] SEK, Jakub P. - KASPRZAK, Artur - BYSTRZEJEWSKI, Michal - POPLAWSKA, Magdalena - KASZUWARA, Waldemar - STOJEK, Zbigniew - NOWICKA, Anna M. Nanoconjugates of ferrocene and carbon-encapsulated iron nanoparticles as sensing platforms for voltammetric determination of ceruloplasmin in blood. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 102, no., pp. 490-496., Registrované v: WOS
91. [1.1] SO, Keisei - KITAZUMI, Yuki - SHIRAI, Osamu - NISHIKAWA, Koji - HIGUCHI, Yoshiki - KANO, Kenji. Direct electron transfer-type dual gas diffusion H₂/O₂ biofuel cells. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2016, vol. 4, no. 22, pp. 8742-8749., Registrované v: WOS
92. [1.1] SO, Keisei - ONIZUKA, Maki - KOMUKAI, Takuji - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Binder/surfactant-free biocathode with bilirubin oxidase for gas-diffusion-type system. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2016, vol. 66, no., pp. 58-61., Registrované v: WOS
93. [1.1] SO, Keisei - ONIZUKA, Maki - KOMUKAI, Takuji - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Significance of the Length of Carbon Nanotubes on the Bioelectrocatalytic Activity of Bilirubin Oxidase for Dioxygen Reduction. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 192, no., pp. 133-138., Registrované v: WOS
94. [1.1] STAN, Razvan C. - KROS, Alexander - AKKILIC, Namik - SANGHAMITRA, Nusrat J. M. - APPEL, Jeroen. Direct wiring of the azurin redox center to gold electrodes investigated by protein film voltammetry. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657,

2017, vol. 787, no., pp. 14-18., Registrované v: WOS

95. [1.1] SUN, Hongfei - HUANG, Wenguang - YANG, Hua - ZHANG, Shujuan. Co-immobilization of laccase and mediator through a self-initiated one-pot process for enhanced conversion of malachite green. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2016, vol. 471, no., pp. 20-28., Registrované v: WOS

96. [1.1] TAKAMURA, Eiichiro - SUZUKI, Haruto - NAKAMURA, Takuto - SAKAMOTO, Hiroaki - SATOMURA, Takenori - SAKURABA, Haruhiko - OHSHIMA, Toshihisa - SUYE, Shin-ichiro. Improvement in Electron Transfer Efficiency Between Multicopper Oxidase and Electrode by Immobilization of Directly Oriented Enzyme Molecules. In JOURNAL OF FIBER SCIENCE AND TECHNOLOGY. ISSN 2189-7654, 2019, vol. 75, no. 5, pp. 47-51., Registrované v: WOS

97. [1.1] TAKAMURA, Eiichiro - NAKAMURA, Takuto - SAKAMOTO, Hiroaki - SATOMURA, Takenori - SAKURABA, Haruhiko - OHSHIMA, Toshihisa - SUYE, Shin-ichiro. Effects of multicopper oxidase orientation in multiwalled carbon nanotube biocathodes on direct electron transfer. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2019, vol. 66, no. 2, pp. 137-141., Registrované v: WOS

98. [1.1] TAKEDA, Kouta - KUSUOKA, Ryo - BIRRELL, James A. - YOSHIDA, Makoto - IGARASHI, Kiyohiko - NAKAMURA, Nobuhumi. Bioelectrocatalysis based on direct electron transfer of fungal pyrroloquinoline quinone-dependent dehydrogenase lacking the cytochrome domain. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2020, vol. 359, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.136982>., Registrované v: WOS

99. [1.1] TAO, Lizhi - SIMONOV, Alexandr N. - ROMANO, Christine A. - BUTTERFIELD, Cristina N. - FEKETE, Monika - TEBO, Bradley M. - BOND, Alan M. - SPICCIA, Leone - MARTIN, Lisandra L. - CASEY, William H. Biogenic Manganese-Oxide Mineralization is Enhanced by an Oxidative Priming Mechanism for the Multi-Copper Oxidase, MnxEFG. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 6, pp. 1346-1352., Registrované v: WOS

100. [1.1] TAO, Lizhi - SIMONOV, Alexandr N. - ROMANO, Christine A. - BUTTERFIELD, Cristina N. - TEBO, Bradley M. - BOND, Alan M. - SPICCIA, Leone - MARTIN, Lisandra L. - CASEY, William H. Probing Electron Transfer in the Manganese-Oxide-Forming MnxEFG Protein Complex using Fourier Transformed AC Voltammetry: Understanding the Oxidative Priming Effect. In CHEMELECTROCHEM. ISSN 2196-0216, 2018, vol. 5, no. 6, pp. 872-876., Registrované v: WOS

101. [1.1] THIRUMALRAJ, Balamurugan - PALANISAMY, Selvakumar - CHEN, Shen-Ming - YANG, Cheng-Yu - PERIAKARUPPAN, Prakash - LOU, Bih-Show. Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 95, pp. 77651-77657., Registrované v: WOS

102. [1.1] TOMINAGA, Masato - NODA, Natsuki - HASHIGUCHI, Terutaka - MIZUTA, Hiroyuki - KAWAI, Daisuke - TOGAMI, Makoto. Improvement of laccase bioelectrocatalyst at a phosphate templating graphene nanoplatelet plate electrode. In ELECTROCHEMISTRY COMMUNICATIONS.

- ISSN 1388-2481, 2015, vol. 59, no., pp. 32-35., Registrované v: WOS
103. [1.1] TOMINAGA, Masato - SASAKI, Aiko - TOGAMI, Makoto. Laccase Bioelectrocatalyst at a Steroid-Type Biosurfactant-Modified Carbon Nanotube Interface. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2015, vol. 87, no. 10, pp. 5417-5421., Registrované v: WOS
104. [1.1] TOMINAGA, Masato - SASAKI, Aiko - TOGAMI, Makoto. Bioelectrocatalytic Oxygen Reaction and Chloride Inhibition Resistance of Laccase Immobilized on Single-walled Carbon Nanotube and Carbon Paper Electrodes. In ELECTROCHEMISTRY. ISSN 1344-3542, 2016, vol. 84, no. 5, pp. 315-318., Registrované v: WOS
105. [1.1] TOMINAGA, Masato - SASAKI, Aiko - TSUSHIDA, Masayuki - TOGAMI, Makoto. Biosurfactant functionalized single-walled carbon nanotubes to promote laccase bioelectrocatalysis. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2017, vol. 41, no. 1, pp. 231-236., Registrované v: WOS
106. [1.1] TOMINAGA, Masato - TSUTSUI, Motofumi - TAKATORI, Takuya. Cholate Adsorption Behavior at Carbon Electrode Interface and Its Promotional Effect in Laccase Direct Bioelectrocatalysis. In COLLOIDS AND INTERFACES. ISSN 2504-5377, 2018, vol. 2, no. 3, pp., Registrované v: WOS
107. [1.1] TORRINHA, Alvaro - MONTENEGRO, Maria C. B. S. M. - ARAUJO, Alberto N. Implementation of a Simple Nanostructured Bio-electrode with Immobilized Rhus Vernicifera Laccase for Oxygen Sensing Applications. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1566-1572., Registrované v: WOS
108. [1.1] TORTOLINI, Cristina - SANZO, Gabriella - ANTIOCHIA, Riccarda - MAZZEI, Franco - FAVERO, Gabriele. Application of a Nanostructured Enzymatic Biosensor Based on Fullerene and Gold Nanoparticles to Polyphenol Detection. In BIOSENSORS AND BIODETECTION: METHODS AND PROTOCOLS, VOL 2: ELECTROCHEMICAL, BIOELECTRONIC, PIEZOELECTRIC, CELLULAR AND MOLECULAR BIOSENSORS, 2ND EDITION. ISSN 1064-3745, 2017, vol. 1572, no., pp. 41-53., Registrované v: WOS
109. [1.1] TRAUNSTEINER, Christoph - SEK, Slawomir - HUBER, Veronika - VALERO-VIDAL, Carlos - KUNZE-LIEBHAEUSER, Julia. Laccase immobilized on a mixed thiol monolayer on Au(111) structure-dependent activity towards oxygen reduction. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 213, no., pp. 761-770., Registrované v: WOS
110. [1.1] TRIFONOV, Alexander - STEMMER, Andreas - TEL-VERED, Ran. Enzymatic self-wiring in nanopores and its application in direct electron transfer biofuel cells. In NANOSCALE ADVANCES. ISSN 2516-0230, 2019, vol. 1, no. 1, pp. 347-356., Registrované v: WOS
111. [1.1] VINAY, M. M. - NAYAKA, Y. Arthoba - PURUSHOTHAMA, H. T. - YATHISHA, R. O. - BASAVARAJAPPA, K. - MANJUNATHA, P. OH functionalized Multi-Walled Carbon Nanotube modified electrode as electrochemical sensor for the detection of Aceclofenac. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY. ISSN 0306-7319, 2019, vol. 99, no. 15, pp. 1553-1564., Registrované v: WOS
112. [1.1] VLAMIDIS, Ylea - GUALANDI, Isacco - TONELLI, Domenica. Amperometric biosensors based on reduced GO and MWCNTs composite for polyphenols detection in fruit juices. In JOURNAL OF

- ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2017, vol. 799, no., pp. 285-292., Registrované v: WOS
113. [1.1] VOITECHOVIC, E. - BRATOV, A. - ABRAMOVA, N. - RAZUMIENE, J. - KIRSANOV, D. - LEGIN, A. - LAKSHMI, D. - PILETSKY, S. - WHITCOMBE, M. - IVANOVA-MITSEVA, P. K. Development of label-free impedimetric platform based on new conductive polyaniline polymer and three-dimensional interdigitated electrode array for biosensor applications. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 173, no., pp. 59-66., Registrované v: WOS
114. [1.1] WALTHER, Brandon K. - DINU, Cerasela Zoica - GULDI, Dirk M. - SERGEYEV, Vladimir G. - CREAGER, Stephen E. - COOKE, John P. - GUISEPPI-ELIE, Anthony. Nanobiosensing with graphene and carbon quantum dots: Recent advances. In MATERIALS TODAY. ISSN 1369-7021, 2020, vol. 39, no., pp. 23-46. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.04.008>., Registrované v: WOS
115. [1.1] WANG, Fei-Fei - WEI, Ping-Jie - YU, Guo-Qiang - LIU, Jin-Gang. Titanium Dioxide-Grafted Copper Complexes: High-Performance Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Media. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 1, pp. 382-389., Registrované v: WOS
116. [1.1] WANG, Qiyu - ZHANG, Zhian - WANG, Mengran - LIU, Fangyang - JIANG, Liangxing - HONG, Bo - LI, Jie - LAI, Yanqing. Bioinspired fiber-like porous Cu/N/C electrocatalyst facilitating electron transportation toward oxygen reaction for metal-air batteries. In NANOSCALE. ISSN 2040-3364, 2018, vol. 10, no. 33, pp. 15819-15825., Registrované v: WOS
117. [1.1] WANG, Tao - MILTON, Ross D. - ABDELLAOUI, Sofiene - HICKEY, David P. - MINTEER, Shelley D. Laccase Inhibition by Arsenite/Arsenate: Determination of Inhibition Mechanism and Preliminary Application to a Self-Powered Biosensor. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 6, pp. 3243-3248., Registrované v: WOS
118. [1.1] WANG, Yang - CHEN, Zhi-Hui. Bioinformatics and enzymatics investigation of Trametes laccase for optical biosensing application. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2019, vol. 54, no. 6, pp. 4970-4983., Registrované v: WOS
119. [1.1] WAN, Jing - MI, Li - TIAN, Zhaoyan - LI, Quan - LIU, Songqin. A single-liquid miniature biofuel cell with boosting power density via gas diffusion bioelectrodes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2020, vol. 8, no. 16, pp. 3550-3556. Dostupné na: <https://doi.org/10.1039/c9tb02100k>., Registrované v: WOS
120. [1.1] WAYU, Mulugeta B. - PANNELL, Michael J. - LABBAN, Najwa - CASE, William S. - POLLOCK, Julie A. - LEOPOLD, Michael C. Functionalized carbon nanotube adsorption interfaces for electron transfer studies of galactose oxidase. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2019, vol. 125, no., pp. 116-126., Registrované v: WOS
121. [1.1] WERNERT, Veronique - LEBOUIN, Chrystelle - BENOIT, Virginie - GADIOU, Roger - DE POULPIQUET, Anne - LOJOU, Elisabeth - DENOYEL, Renaud. Direct electron transfer of bilirubin oxidase at a carbon flow-through electrode. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2018, vol. 283, no., pp. 88-96., Registrované v: WOS
122. [1.1] WU, Guozhi - GAO, Yue - ZHAO, Dan - LING, Pinghua -

- GAO, Feng. Methanol/Oxygen Enzymatic Biofuel Cell Using Laccase and NAD(+)-Dependent Dehydrogenase Cascades as Biocatalysts on Carbon Nanodots Electrodes. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2017, vol. 9, no. 46, pp. 40978-40986., Registrované v: WOS 123. [1.1] XIAO, Xinxin - XIA, Hong-qi - WU, Ranran - BAI, Lu - YAN, Lu - MAGNER, Edmond - COSNIER, Serge - LOJOU, Elisabeth - ZHU, Zhiguang - LIU, Aihua. Tackling the Challenges of Enzymatic (Bio)Fuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 16, pp. 9509-9558., Registrované v: WOS
124. [1.1] XIA, Hong-qi - SO, Keisei - KITAZUMI, Yuki - SHIRAI, Osamu - NISHIKAWA, Koji - HIGUCHI, Yoshiki - KANO, Kenji. Dual gas-diffusion membrane- and mediatorless dihydrogen/air-breathing biofuel cell operating at room temperature. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2016, vol. 335, no., pp. 105-112., Registrované v: WOS
125. [1.1] XIE, Jia - CHEN, Chao - ZHOU, Yuanqing - FEI, Junjie - DING, Yonglan - ZHAO, Jia. A Galactose Oxidase Biosensor Based on Graphene Composite Film for the Determination of Galactose and Dihydroxyacetone. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 1, pp. 183-188., Registrované v: WOS
126. [1.1] XIE, Yuxin - DENG, Li - ZHANG, Yanfang - QIN, Xin - HU, Caihong - LI, Li - LI, Ping - CHEN, Xiaohua. Carbon nanotube promoting hydride transfer from glucose to flavin via a pi-pi-driven proton-coupled double-electron transfer mechanism. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2018, vol. 399, no., pp. 436-442., Registrované v: WOS
127. [1.1] XU, Jinqiong - SHENG, Qinglin - SHEN, Yu - ZHENG, Jianbin. Enhanced direct electron transfer of glucose oxidase based on gold nanoprism and its application in biosensing. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2017, vol. 529, no., pp. 113-118., Registrované v: WOS
128. [1.1] XU, Zhaorong - ZHAO, Xiaolong - CHEN, Xiaodong - CHEN, Zhaohong - XIA, Zhaofan. Antimicrobial effect of gallium nitrate against bacteria encountered in burn wound infections. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 82, pp. 52266-52273., Registrované v: WOS
129. [1.1] YAMAGIWA, Kiyofumi - IKEDA, Yutaro - YASUEDA, Kengo - HANDA, Yutaka - YABUUCHI, Naoaki - KOMABA, Shinichi. Improvement of Electrochemical Performance of Bilirubin Oxidase Modified Gas Diffusion Biocathode by Hydrophilic Binder. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2015, vol. 162, no. 14, pp. F1425-F1430., Registrované v: WOS
130. [1.1] YANG, Hankun - XIAO, Jingyu - SHI, Junpeng - SHU, Tong - SU, Lei - LU, Qingye - ZHANG, Xueji. A dual-cell device designed as an oxidase mimic and its use for the study of oxidase-like nanozymes. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 7, pp. 818-820., Registrované v: WOS
131. [1.1] YARMAN, Aysu. Development of a molecularly imprinted polymer-based electrochemical sensor for tyrosinase. In TURKISH JOURNAL OF CHEMISTRY. ISSN 1300-0527, 2018, vol. 42, no. 2, pp. 346-354., Registrované v: WOS
132. [1.1] YARMAN, Aysu. Electrosynthesized Molecularly Imprinted Polymer for Laccase Using the Inactivated Enzyme as the Target. In BULLETIN

- OF THE KOREAN CHEMICAL SOCIETY. ISSN 1229-5949, 2018, vol. 39, no. 4, pp. 483-488., Registrované v: WOS
133. [1.1] YASUEDA, Kengo - HORIBA, Tatsuo - YASUJIMA, Reiho - KOMABA, Shinichi. Effect of Binary Hydrophilic Binders of SBR Latex and Water-Soluble Polymer on Gas-Diffusion Biocathode Performance. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2018, vol. 165, no. 16, pp. F1369-F1375., Registrované v: WOS
134. [1.1] YE, Yu-Xuan - PAN, Peng-Lu - KANG, Dong - LU, Jia-Bao - ZHANG, Chuan-Xi. The multicopper oxidase gene family in the brown planthopper, *Nilaparvata lugens*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2015, vol. 63, no., pp. 124-132., Registrované v: WOS
135. [1.1] ZHANG, Di - ZHAO, He - FAN, Zhuangjun - LI, Mingjie - DU, Penghui - LIU, Chenming - LI, Yuping - LI, Haitao - CAO, Hongbin. A Highly Sensitive and Selective Hydrogen Peroxide Biosensor Based on Gold Nanoparticles and Three-Dimensional Porous Carbonized Chicken Eggshell Membrane. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 6, pp., Registrované v: WOS
136. [1.1] ZHANG, Ziyang - TANG, Zhou - SU, Teng - LI, Wenjun - WANG, Qigang. Hydrogel-coated enzyme electrodes formed by GOx-mediated polymerization for glucose detecting. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 58, pp. 47244-47247., Registrované v: WOS
137. [1.1] ZHOU, Yan - SZARO, Nicholas A. - ATALAH, Joaquin - ESPINA, Giannina - BLAMEY, Jenny M. - RAMASAMY, Ramaraja P. Electro-Kinetic Study of Oxygen Reduction Reaction Catalyzed by Thermophilic Laccase. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2018, vol. 165, no. 10, pp. H652-H657., Registrované v: WOS
138. [1.1] ZHOU, Yan - UMASANKAR, Yogeswaran - RAMASAMY, Ramaraja P. Laccase-TiO₂ Nanoconjugates as Catalysts for Oxygen Reduction Reaction in Biocathodes. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2015, vol. 162, no. 14, pp. H911-H917., Registrované v: WOS
139. [1.1] ZOR, Erhan - OZTEKIN, Yasemin - RAMANAVICIENE, Almira - ANUSEVICIUS, Zilvinas - VORONOVIC, Jaroslav - BINGOL, Haluk - BARAUSKAS-MEMENAS, Dana - LABANAUSKAS, Linas - RAMANAVICIUS, Arunas. Evaluation of 1,10-phenanthroline-5,6-dione as redox mediator for glucose oxidase. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2016, vol. 71, no. 1, pp. 77-81., Registrované v: WOS
140. [1.1] ZUMPARO, Rosaceleste - LAMBERTINI, Laura - TORTOLINI, Cristina - BOLLELLA, Paolo - FAVERO, Gabriele - ANTIOCHIA, Riccarda - MAZZEI, Franco. A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2020, vol. 476, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.228615>., Registrované v: WOS
141. [1.2] CAMPBELL, Alan S. - MALONEY, Andrew J. - DONG, Chenbo - DINU, Cerasela Z. Immobilization of biocatalysts onto nanosupports: Advantages for green technologies. In Biocatalysis and Nanotechnology,

2017-01-01, pp. 279-322., Registrované v: SCOPUS

142. [1.2] FLEXER, Victoria - BRUN, Nicolas. Fundamentals of enzymatic electrochemical systems. In Functional Electrodes for Enzymatic and Microbial Electrochemical Systems, 2017-01-01, pp. 3-50., Registrované v: SCOPUS

143. [1.2] GHOSH, Biva - SAHA, Rituparna - BHATTACHARYA, Debalina - MUKHOPADHYAY, Mainak. Laccase and its source of sustainability in an enzymatic biofuel cell. In Bioresource Technology Reports, 2019-06-01, 6, pp. 268-278., Registrované v: SCOPUS

144. [1.2] GUO, Kelvii Wei. Biofuel cells with enzymes as a catalyst. In New and Future Developments in Microbial Biotechnology and Bioengineering: From Cellulose to Cellulase: Strategies to Improve Biofuel Production, 2019-01-01, pp. 261-282., Registrované v: SCOPUS

145. [1.2] HELD, Michael A. - JIANG, Nan - BASU, Debarati - SHOWALTER, Allan M. - FAIK, Ahmed. Plant cell wall polysaccharides: Structure and biosynthesis. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 3-54., Registrované v: SCOPUS

146. [1.2] CHAKRAPANI, K. - SAMPATH, S. Assemblies of organic and inorganic molecular systems on solid substrates. In Molecular Materials: Preparation, Characterization, and Applications, 2017-01-01, pp. 101-126., Registrované v: SCOPUS

147. [1.2] KALYANI, Dayanand C. - MADHUPRAKASH, Jogi - HORN, Svein Jarle. Laccases: Blue copper oxidase in lignocellulose processing. In Microbial Applications, 2017-04-17, 2, pp. 315-336., Registrované v: SCOPUS

148. [1.2] KAMARSKA, K. V. - DIMCHEVA, N. D. Electrooxidation and bioelectrooxidation of L- And D-ascorbic acids. In Bulgarian Chemical Communications. ISSN 08619808, 2019-01-01, 51, pp. 149-152., Registrované v: SCOPUS

149. [1.2] MANJUNATHA, P. - ARTHOBA NAYAKA, Y. - CHETHANA, B. K. - VIDYASAGAR, C. C. - YATHISHA, R. O. Development of multi-walled carbon nanotubes modified pencil graphite electrode for the electrochemical investigation of aceclofenac present in pharmaceutical and biological samples. In Sensing and Bio-Sensing Research, 2018-02-01, 17, pp. 7-17., Registrované v: SCOPUS

150. [1.2] MANJUNATHA, P. - NAYAKA, Y. Arthoba. Cetyltrimethylammonium bromide-gold nanoparticles composite modified pencil graphite electrode for the electrochemical investigation of cefixime present in pharmaceutical formulations and biolog. In Chemical Data Collections, 2019-06-01, 21, pp., Registrované v: SCOPUS

151. [1.2] NAVAEE, Aso - SALIMI, Abdollah. Enzyme-based electrochemical biosensors. In Electrochemical Biosensors, 2019-01-01, pp. 167-211., Registrované v: SCOPUS

152. [1.2] OTERO, Fernando - DI BARI, Chiara - DE LACEY, Antonio L. - PITA, Marcos. Immobilization and electrochemical characterization of Coriopsis Gallica high redox potential laccase. In Laccase: Applications, Investigations and Insights, 2017-01-01, pp. 101-110., Registrované v: SCOPUS

153. [1.2] TAMAKI, Takanori. Nanostructured materials for enzymatic biofuel cells. In Biocatalysis and Nanotechnology, 2017-01-01, pp. 595-616., Registrované v: SCOPUS

154. [1.2] TOMINAGA, Masato - SASAKI, Aiko - TSUSHIDA,

Masayuki - TOGAMI, Makoto. Biosurfactant functionalized single-walled carbon nanotubes to promote laccase bioelectrocatalysis. In *New Journal of Chemistry*. ISSN 11440546, 2016-01-01, 41, 1, pp. 231-236., Registrované v: SCOPUS

155. [1.2] ZHANG, Chunqiang - ZHANG, Fan - ZHOU, Ping - ZHANG, Caiguo. Functional role of metalloproteins in genome stability. In *Frontiers in Biology*. ISSN 16747984, 2016-01-01, 11, 2, pp. 119-131., Registrované v: SCOPUS

156. [1.2] ZHANG, Wenjun - DU, Yunqing - WANG, Ming L. Noninvasive glucose monitoring using saliva nano-biosensor. In *Sensing and Bio-Sensing Research*, 2015-06-01, 4, pp. 23-29., Registrované v: SCOPUS

157. [3.2] FAN Li-Li; ZHAO M.; WANG Y.; WANG Jue-Yu; SUN Ming-Hui. Characterization of the Enzymatic Kinetics and Function of Thermostable Recombinant CotA as Bilirubin Oxidase. IN *Zhongguo Shengwu Huaxue yu Fenzi Shengwu Xuebao*, 2016, vol. 32, iss. 7, p. 807-815., Registrované v: BIOSIS Citation Index

ADCA1134 SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - KATRLÍK, Jaroslav. Microbial monooxygenase amperometric biosensor for monitoring of Baeyer–Villiger biotransformation. In *Biosensors and Bioelectronic*, 2013, vol. 50, p. 235-238. (2012: 5.437 - IF, Q1 - JCR, 2.397 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2013.06.061>

Ohlasy:

1. [1.1] RONCEVIC, Ivana Skugor - KRIVIC, Denis - BULJAC, Masa - VLADISLAVIC, Nives - BUZUK, Marijo. Polyelectrolytes Assembly: A Powerful Tool for Electrochemical Sensing Application. In *SENSORS*, 2020, vol. 20, no. 11, pp. Dostupné na: <https://doi.org/10.3390/s20113211>., Registrované v: WOS

2. [1.1] SI, Rong-Wei - YANG, Yuan - YU, Yang-Yang - HAN, Song - ZHANG, Chun-Lian - SUN, De-Zhen - ZHAI, Dan-Dan - LIU, Xiang - YONG, Yang-Chun. Wiring Bacterial Electron Flow for Sensitive Whole-Cell Amperometric Detection of Riboflavin. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2016, vol. 88, no. 22, pp. 11222-11228., Registrované v: WOS

3. [1.1] SI, Rong-Wei - ZHAI, Dan-Dan - LIAO, Zhi-Hong - GAO, Lu - YONG, Yang-Chun. A whole-cell electrochemical biosensing system based on bacterial inward electron flow for fumarate quantification. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2015, vol. 68, no., pp. 34-40., Registrované v: WOS

4. [1.2] RUDROFF, Florian - FINK, Michael J. - MIHOVILOVIC, Marko D. Miscellaneous Key Non-C-C Bond Forming Enzyme Reactions. In *Organic Synthesis Using Biocatalysis*, 2015-09-02, pp. 243-283., Registrované v: SCOPUS

5. [1.2] TKAC, J. - FILIP, J. - KASAK, P. Microdetectives: Fundamentals, fabrication, and applications of electrochemical microbial biosensors. In *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*, 2018-01-01, pp. 337-349., Registrované v: SCOPUS

6. [3.1] Butnariu, M (Butnariu, Monica); Butu, A (Butu, Alina). Microbial Nanobionics: Application of Nanobiosensors in Microbial Growth and Diagnostics. In: *MICROBIAL NANOBIIONICS* (2019), p. 193-227

ADCA1135

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - TRELOVÁ, Dušana - LACÍK, Igor - CHORVÁT, Dušan Jr. - AČAI, Pavel - POLAKOVIČ, Milan - LIPTÁK, Lukáš - REBROŠ, Martin - ROSENBERG, Michal - ŠTEFUCA, Vladimír - NEDELA, Vilém - TIHLAŘÍKOVÁ, Eva. Physical and bioengineering properties of polyvinyl alcohol lens-shaped particles versus spherical polyelectrolyte complex microcapsules as immobilisation matrices for a whole-cell Baeyer-Villiger monooxygenase. In *Applied Biochemistry and Biotechnology*, 2014, vol. 174, p. 1834-1849. (2013: 1.687 - IF, Q3 - JCR, 0.744 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0273-2289. Dostupné na: <https://doi.org/10.1007/s12010-014-1174-x>

Ohlasy:

1. [1.1] BAJIC, M. - PLAZL, I. - STLOUKAL, R. - ZNIDARSIC-PLAZL, P. Development of a miniaturized packed bed reactor with omega-transaminase immobilized in LentiKats (R). In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, JAN 2017, vol. 52, p. 63-72., Registrované v: WOS
2. [1.1] KECSKEMETI, A. - GASPAR, A. Particle-based immobilized enzymatic reactors in microfluidic chips. In *TALANTA*. ISSN 0039-9140, APR 1 2018, vol. 180, p. 211-228., Registrované v: WOS
3. [1.1] KISUKURI, C.M. - ANDRADE, L.H. Production of chiral compounds using immobilized cells as a source of biocatalysts. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2015, vol. 13, no. 40, p. 10086-10107., Registrované v: WOS
4. [1.1] WACHTMEISTER, J. - ROTHER, D. Recent advances in whole cell biocatalysis techniques bridging from investigative to industrial scale. In *CURRENT OPINION IN BIOTECHNOLOGY*. ISSN 0958-1669, DEC 2016, vol. 42, p. 169-177., Registrované v: WOS

ADCA1136

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - CHORVÁT, Dušan Jr. - LACÍK, Igor. Viability of free and encapsulated *Escherichia coli* overexpressing cyclopentanone monooxygenase monitored during model Bayer-Villiger biooxidation by confocal laser scanning microscopy. In *Biotechnology Letters*, 2012, vol. 34, p. 309 - 314. (2011: 1.683 - IF, Q3 - JCR, 0.725 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-011-0765-7>

Ohlasy:

1. [1.1] ALONSO, S. - RENDUELES, M. - DIAZ, M. A novel approach to monitor stress-induced physiological responses in immobilized microorganisms. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, APR 2015, vol. 99, no. 8, p. 3573-3583., Registrované v: WOS
2. [1.1] SILVA, A.L.P. - CARIDADE, T.N.D. - MAGALHAES, R.R. - DE SOUSA, K.T. - DE SOUSA, C.C. - VALE, J.A. Biocatalytic production of e-caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, OCT 2020, vol. 104, no. 20, p. 8887-8895., Registrované v: WOS
3. [1.1] VANDAMME, T.F. - GBASSI, G.K. - NGUYEN, T.T.L. - LI, X. Microencapsulating Bioactives for Food. In *BENEFICIAL MICROBES IN FERMENTED AND FUNCTIONAL FOODS*. 2015, p. 255-271., Registrované v: WOS

Whole-cell *Gluconobacter oxydans* biosensor for 2-phenylethanol biooxidation monitoring. In *Analytica Chimica Acta*, 2015, vol. 854, p. 140-144. (2014: 4.513 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2014.11.012>

Ohlasy:

1. [1.1] BAHADIRA, Elif Burcu - SEZGINTURK, Mustafa Kemal. Food Biosensors: Perspective, Reliability, Selectivity, Response Time, Quality Control, and Cost-Effectiveness. In *FOOD BIOSENSORS*. ISSN 2398-0656, 2017, vol. 1, no., pp. 463-513., Registrované v: WOS
2. [1.1] CEVIK, Emre - CERIT, Alaaddin - TOMBULOGLU, Huseyin - SABIT, Hussein - YILDIZ, Huseyin Bekir. Electrochemical Glucose Biosensors: Whole Cell Microbial and Enzymatic Determination Based on 10-(4H-Dithieno[3,2-b:2',3'-d]Pyrrol-4-yl)Decan-1-Amine Interfaced Glassy Carbon Electrodes. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2019, vol. 52, no. 7, pp. 1138-1152., Registrované v: WOS
3. [1.1] FAN, Wenli - XIE, Zhaoyang - CUI, Yue. Flexible Glass-based Amperometric Sensors for Hydrogen Peroxide. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 7, pp. 1805-1809., Registrované v: WOS
4. [1.1] GARGALO, Carina L. - UDUGAMA, Isuru - PONTIUS, Katrin - LOPEZ, Pau C. - NIELSEN, Rasmus F. - HASANZADEH, Aliyeh - MANSOURI, Seyed Soheil - BAYER, Christoph - JUNICKE, Helena - GERNAEY, Krist. Towards smart biomanufacturing: a perspective on recent developments in industrial measurement and monitoring technologies for bio-based production processes. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 11, pp. 947-964. Dostupné na: <https://doi.org/10.1007/s10295-020-02308-1>, Registrované v: WOS
5. [1.1] KOSCIOW, Konrad - DOMIN, Claudia - SCHWEIGER, Paul - DEPPENMEIER, Uwe. Extracellular targeting of an active endoxylanase by a TolB negative mutant of *Gluconobacter oxydans*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2016, vol. 43, no. 7, pp. 989-999., Registrované v: WOS
6. [1.1] LIU, Li - ZENG, Weizhu - DU, Guocheng - CHEN, Jian - ZHOU, Jingwen. Identification of NAD-Dependent Xylitol Dehydrogenase from *Gluconobacter oxydans* WSH-003. In *ACS OMEGA*. ISSN 2470-1343, 2019, vol. 4, no. 12, pp. 15074-15080., Registrované v: WOS
7. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS*, 2017, vol., no., pp. 627-648., Registrované v: WOS
8. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS

9. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - PRISYAZHNAYA, Natalia - KOLESOV, Vladimir - SIGAEV, Vladimir - SIGNORE, Maria Assunta - RESHETILOV, Anatoly. Multiwalled Carbon Nanotubes and the Electrocatalytic Activity of Gluconobacter oxydans as the Basis of a Biosensor. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS
10. [1.1] VELOSO, A. C. - FERREIRA, E. C. Online Analysis for Industrial Bioprocesses: Broth Analysis. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 679-704., Registrované v: WOS
11. [1.1] YE, Yongli - GUO, Hongyan - SUN, Xiulan. Recent progress on cell-based biosensors for analysis of food safety and quality control. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 389-404., Registrované v: WOS
12. [1.2] HENG, Lee Yook - OOI, Lia - MORI, Izumi C. - FUTRA, Dedi. Environmental toxicity and evaluation. In Environmental Risk Analysis for Asian-Oriented, Risk-Based Watershed Management: Japan and Malaysia, 2018-05-07, pp. 71-94., Registrované v: SCOPUS
13. [1.2] Pacheco, J. G., Barroso, M. F., Nouws, H. P. A., Morais, S., & Delerue-Matos, C. (2016). Biosensors. In Current developments in biotechnology and bioengineering: Bioprocesses, bioreactors and controls (Elsevier, chapter 21, pp. 627-648), Registrované v: SCOPUS
14. [1.2] VELOSO, A. C. - FERREIRA, E. C. Online Analysis for Industrial Bioprocesses: Broth Analysis. In Current Developments in Biotechnology and Bioengineering: Bioprocesses, Bioreactors and Controls, 2016-09-16, pp. 679-704., Registrované v: SCOPUS
15. [3.1] Butnariu, M (Butnariu, Monica); Butu, A (Butu, Alina). Microbial Nanobionics: Application of Nanobiosensors in Microbial Growth and Diagnostics. In: MICROBIAL NANOBIONICS (2019) p. 193-227

ADCA1138 SCHMIDT, M.E.G. - BIELY, Peter - KRÁTKY, Z. - SCHWARZ, R. Metabolism of 2-deoxy-2-fluoro-D-3H-glucose and 2-deoxy-2-fluoro-D-3H-mannose in yeast and chick-embryo cells. In *European Journal of Biochemistry*, 1978, vol. 87, p. 55-68. ISSN 0014-2956.

Ohlasy:

1. [1.1] FATANGARE, Amol - PAETZ, Christian - SALUZ, Hanspeter - SVATOS, Ales. 2-Deoxy-2-fluoro-D-glucose metabolism in Arabidopsis thaliana. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
2. [1.1] FATANGARE, Amol - SVATOS, Ales. Applications of 2-deoxy-2-fluoro-D-glucose (FDG) in Plant Imaging: Past, Present, and Future. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
3. [1.1] KAVALIAUSKIENE, Simona - TORGersen, Maria Lyngaas - LINGELEM, Anne Berit Dyve - KLOKK, Tove Irene - LINTONEN, Tuulia - SIMOLIN, Helena - EKROOS, Kim - SKOTLAND, Tore - SANDVIG, Kirsten. Cellular effects of fluorodeoxyglucose: Global changes in the lipidome and alteration in intracellular transport. In ONCOTARGET. ISSN 1949-2553, 2016, vol. 7, no. 48, pp. 79885-79900., Registrované v: WOS

4. [1.1] KAVALIAUSKIENE, Simona - LINGELEM, Anne Berit Dyve - SKOTLAND, Tore - SANDVIG, Kirsten. Protection against Shiga Toxins. In TOXINS. ISSN 2072-6651, 2017, vol. 9, no. 2, pp., Registrované v: WOS
5. [1.1] KEENAN, Tessa - PARMEGGIANI, Fabio - MALASSIS, Julien - FONTENELLE, Clement Q. - VENDEVILLE, Jean-Baptiste - OFFEN, Wendy - BOTH, Peter - HUANG, Kun - MARCHESI, Andrea - HEYAM, Alex - YOUNG, Carl - CHARNOCK, Simon J. - DAVIES, Gideon J. - LINCLAU, Bruno - FLITSCH, Sabine L. - FASCIONE, Martin A. Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. In CELL CHEMICAL BIOLOGY. ISSN 2451-9448, 2020, vol. 27, no. 9, pp. 1199-+. Dostupné na: <https://doi.org/10.1016/j.chembiol.2020.06.005>., Registrované v: WOS
6. [1.1] ROKKA, Johanna - GRONROOS, Tove J. - VILJANEN, Tapio - SOLIN, Olof - HAAPARANTA-SOLIN, Merija. HPLC and TLC methods for analysis of [F-18]FDG and its metabolites from biological samples. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2017, vol. 1048, no., pp. 140-149., Registrované v: WOS

ADCA1139 SCHMITZOVA, J. - KLAUDINY, Jaroslav - ALBERT, S. - SCHRODER, W. - SCHRECKENGOST W. - HANES, Jozef - JÚDOVÁ, J. - ŠIMÚTH, Jozef. A family of major royal jelly proteins of the honeybee *Apis mellifera* L. In *Cellular and Molecular Life Sciences : (CMLS)*, 1998, vol. 54, p.1020-1030. ISSN 1420-682X. Dostupné na: <https://doi.org/10.1007/s000180050229>

Ohlasy:

1. [1.1] ABU-SERIE, Marwa M. - HABASHY, Noha H. Two purified proteins from royal jelly with in vitro dual anti-hepatic damage potency: Major royal jelly protein 2 and its novel isoform X1. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 128, no., pp. 782-795., Registrované v: WOS
2. [1.1] AHMAD, Saboor - CAMPOS, Maria Graca - FRATINI, Filippo - ALTAYE, Solomon Zewdu - LI, Jianke. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijms21020382>., Registrované v: WOS
3. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LU, Yao - LI, Jianke. The Emerging Proteomic Research Facilitates in-Depth Understanding of the Biology of Honeybees. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 17, pp., Registrované v: WOS
4. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LI, Jianke. Molecular insights into the enhanced performance of royal jelly secretion by a stock of honeybee (*Apis mellifera ligustica*) selected for increasing royal jelly production. In APIDOLOGIE. ISSN 0044-8435, 2019, vol. 50, no. 4, pp. 436-453., Registrované v: WOS
5. [1.1] ARAUJO, Wellington Luiz de Paula - NEGRAO, Adriana Fava - VIEIRA, Jose Cavalcante souza - BITTARELLO, Alis Correia - PADILHA, Pedro de Magalhaes - ORSI, Ricardo de Oliveira. Supplementation with an Inorganic Iron Source Modulates the Metalloproteomic Profile of the Royal Jelly Produced by *Apis mellifera* L. In BIOLOGICAL TRACE ELEMENT

RESEARCH. ISSN 0163-4984, 2020, vol. 195, no. 2, pp. 648-657. Dostupné na: <https://doi.org/10.1007/s12011-019-01863-8>., Registrované v: WOS

6. [1.1] BILAL, Bushra - AZIM, M. Kamran. Nematicidal activity of 'major royal jelly protein'-containing glycoproteins from Acacia honey. In EXPERIMENTAL PARASITOLOGY. ISSN 0014-4894, 2018, vol. 192, no., pp. 52-59., Registrované v: WOS

7. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikuji - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS

8. [1.1] BORBA, Renata S. - SPIVAK, Marla. Propolis envelope in Apis mellifera colonies supports honey bees against the pathogen, Paenibacillus larvae. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

9. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. Proteomic identification and enzymatic activity of buckwheat (Fagopyrum esculentum) honey based on different assays. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2018, vol. 57, no. 1, pp. 57-69., Registrované v: WOS

10. [1.1] BRUDZYNSKI, Katrina - SJAARDA, Calvin - LANNIGAN, Robert. MRJP1-containing glycoproteins isolated from honey, a novel antibacterial drug candidate with broad spectrum activity against multi-drug resistant clinical isolates. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

11. [1.1] BRUDZYNSKI, Katrina - SJAARDA, Calvin. Honey Glycoproteins Containing Antimicrobial Peptides, Jelleins of the Major Royal Jelly Protein 1, Are Responsible for the Cell Wall Lytic and Bactericidal Activities of Honey. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

12. [1.1] BUCEKOVA, Marcela - MAJTAN, Juraj. The MRJP1 honey glycoprotein does not contribute to the overall antibacterial activity of natural honey. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2016, vol. 242, no. 4, pp. 625-629., Registrované v: WOS

13. [1.1] BUCEKOVA, Marcela - BUGAROVA, Veronika - GODOCIKOVA, Jana - MAJTAN, Juraj. Demanding New Honey Qualitative Standard Based on Antibacterial Activity. In FOODS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091263>., Registrované v: WOS

14. [1.1] BUTTSTEDT, Anja - IHLING, Christian H. - PIETZSCH, Markus - MORITZ, Robin F. A. Royalactin is not a royal making of a queen. In NATURE. ISSN 0028-0836, 2016, vol. 537, no. 7621, pp. E10-E12., Registrované v: WOS

15. [1.1] CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - JASKUNE, Kristina - KRETAVICIUS, Justinas. The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 862-875. Dostupné na: <https://doi.org/10.1080/00218839.2020.1804118>.,

Registrowané v: WOS

16. [1.1] COLLA RUVOLO-TAKASUSUKI, Maria Claudia - BALISTA CASAGRANDE POZZA, Arielen Patricia - NUNES ZAGO OLIVEIRA, Ana Paula - PARPINELLI, Rejane Stubs - COSTA-MAIA, Fabiana Martins - FAQUINELLO, Patricia - ARNAUT DE TOLEDO, Vagner de Alencar.

Improvement and Selection of Honeybees Assisted by Molecular Markers. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 63-75., Registrowané v: WOS

17. [1.1] DOBRITZSCH, Dirk - AUMER, Denise - FUSZARD, Matthew - ERLER, Silvio - BUTTSTEDT, Anja. The rise and fall of major royal jelly proteins during a honeybee (*Apis mellifera*) workers' life. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2019, vol. 9, no. 15, pp. 8771-8782.,

Registrowané v: WOS

18. [1.1] EASTON-CALABRIA, August - DEMARY, Kristian C. - ONER, Nola J. Beyond Pollination: Honey Bees (*Apis mellifera*) as Zootherapy Keystone Species. In FRONTIERS IN ECOLOGY AND EVOLUTION. ISSN 2296-701X, 2019, vol. 6, no., pp., Registrowané v: WOS

19. [1.1] EYER, Michael - DAINAT, Benjamin - NEUMANN, Peter - DIETEMANN, Vincent. Social regulation of ageing by young workers in the honey bee, *Apis mellifera*. In EXPERIMENTAL GERONTOLOGY. ISSN 0531-5565, 2017, vol. 87, no., pp. 84-91., Registrowané v: WOS

20. [1.1] FENG, Mao - FANG, Yu - HAN, Bin - XU, Xiang - FAN, Pei - HAO, Yue - QI, Yuping - HU, Han - HUO, Xinmei - MENG, Lifeng - WU, Bin - LI, Jianke. In-Depth N-Glycosylation Reveals Species-Specific Modifications and Functions of the Royal Jelly Protein from Western (*Apis mellifera*) and Eastern Honeybees (*Apis cerana*). In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2015, vol. 14, no. 12, pp. 5327-5340., Registrowané v: WOS

21. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrowané v: WOS

22. [1.1] FURUSAWA, Takako - ARAI, Yasuko - KATO, Kenji - ICHIHARA, Kenji. Quantitative Analysis of Apisin, a Major Protein Unique to Royal Jelly. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2016, vol., no., pp.,

Registrowané v: WOS

23. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele - CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In ONCOLOGY REPORTS. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrowané v: WOS

24. [1.1] HABASHY, Noha H. - ABU-SERIE, Marwa M. Major royal-jelly protein 2 and its isoform X1 are two novel safe inhibitors for hepatitis C and B viral entry and replication. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 141, no., pp. 1072-1087., Registrowané v: WOS

25. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three *Apis* species with long amplicon sequencing. In DNA RESEARCH. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287.,

Registrované v: WOS

26. [1.1] HOSSEN, Md. Sakib - NAHAR, Taebun - GAN, Siew Hua - KHALIL, Md. Ibrahim. Bioinformatics and Therapeutic Insights on Proteins in Royal Jelly. In CURRENT PROTEOMICS. ISSN 1570-1646, 2019, vol. 16, no. 2, pp. 84-101., Registrované v: WOS

27. [1.1] HU, Han - BEZABIH, Gebreamlak - FENG, Mao - WEI, Qiaohong - ZHANG, Xufeng - HU, Fan - MENG, Lifeng - FANG, Yu - HAN, Bin - MA, Chuan - LI, Jianke. In-depth Proteome of the Hypopharyngeal Glands of Honeybee Workers Reveals Highly Activated Protein and Energy Metabolism in Priming the Secretion of Royal Jelly. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2019, vol. 18, no. 4, pp. 606-621., Registrované v: WOS

28. [1.1] CHENG, Ying - ZHI, Junrui - LI, Fengliang - WANG, Hua - ZHOU, Yuhang - JIN, Jianxue. Transcriptome sequencing of *Coccinella septempunctata* adults (Coleoptera: Coccinellidae) feeding on artificial diet and *Aphis craccivora*. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 8, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0236249>., Registrované v: WOS

29. [1.1] CHEN, Di - LIU, Fang - WAN, Jian-Bo - LAI, Chao-Qiang - SHEN, Li-rong. Effect of Major Royal Jelly Proteins on Spatial Memory in Aged Rats: Metabolomics Analysis in Urine. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 15, pp. 3151-3159., Registrované v: WOS

30. [1.1] CHEN, Di - XIN, Xiao-xuan - QIAN, Hao-cheng - YU, Zhang-yin - SHEN, Li-rong. Evaluation of the major royal jelly proteins as an alternative to fetal bovine serum in culturing human cell lines. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2016, vol. 17, no. 6, pp. 476-483., Registrované v: WOS

31. [1.1] CHEN, Xi'en - CAO, Yanghui - ZHAN, Shuai - ZHANG, Yong - TAN, Anjiang - HUANG, Yongping. Identification of yellow gene family in *Agrotis ipsilon* and functional analysis of Aiyellow-y by CRISPR/Cas9. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2018, vol. 94, no., pp. 1-9., Registrované v: WOS

32. [1.1] ICHIMIYA, Tomomi - MAEDA, Megumi - SAKAMURA, Shou - KANAZAWA, Masato - NISHIHARA, Shoko - KIMURA, Yoshinobu. Identification of beta 1,3-galactosyltransferases responsible for biosynthesis of insect complex-type N-glycans containing a T-antigen unit in the honeybee. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2015, vol. 32, no. 3-4, pp. 141-151., Registrované v: WOS

33. [1.1] JIANG, Chen-min - LIU, Xin - LI, Chun-xue - QIAN, Hao-cheng - CHEN, Di - LAI, Chao-qiang - SHEN, Li-rong. Anti-senescence effect and molecular mechanism of the major royal jelly proteins on human embryonic lung fibroblast (HFL-I) cell line. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2018, vol. 19, no. 12, pp. 960-972., Registrované v: WOS

34. [1.1] JOE, Taeri - JEONG, Eunbee - YOO, Gaeun - AHN, Sejin - RHEE, Hae-ik - LEE, Deug-Chan. The monoclonal antibody for discrimination of natural honey against artificial honey. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2018, vol. 6, no. 8, pp. 2350-2354., Registrované v: WOS

35. [1.1] KOHNO, Hiroki - SUENAMI, Shota - TAKEUCHI, Hideaki -

- SASAKI, Tetsuhiko - KUBO, Takeo. Production of Knockout Mutants by CRISPR/Cas9 in the European Honeybee, *Apis mellifera* L. In ZOOLOGICAL SCIENCE. ISSN 0289-0003, 2016, vol. 33, no. 5, pp. 505-512., Registrované v: WOS
36. [1.1] KURTH, T. - KRETSCHMAR, S. - BUTTSTEDT, A. Royal jelly in focus. In INSECTES SOCIAUX. ISSN 0020-1812, 2019, vol. 66, no. 1, pp. 81-89., Registrované v: WOS
37. [1.1] LEE, Mi Ra - CHOI, Yong Soo - KIM, Dong Won - LEE, Man Young. Age-dependent hypopharyngeal gland development and morphometric characteristics in the cross-bred lineage of honeybees reared for high royal jelly production. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 3, pp. 699-704., Registrované v: WOS
38. [1.1] LIN, Na - LI, Junmin - SHAO, Rouming - ZHANG, Hong. Site-Specific Analysis of N-Linked Glycosylation Heterogeneity from Royal Jelly Glycoproteins. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 33, pp. 9411-9422., Registrované v: WOS
39. [1.1] LIU, Xiao-Long - HAN, Wei-Kang - ZE, Long-Ji - PENG, Ying-Chuan - YANG, Yi-Lin - ZHANG, Jin - YAN, Qi - DONG, Shuang-Lin. Clustered Regularly Interspaced Short Palindromic Repeats/CRISPR-Associated Protein 9 Mediated Knockout Reveals Functions of the yellow-y Gene in *Spodoptera litura*. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.615391>., Registrované v: WOS
40. [1.1] LIU, Xin - JIANG, Chenmin - CHEN, Yong - SHI, Fangxiong - LAI, Chaoqiang - SHEN, Lirong. Major royal jelly proteins accelerate onset of puberty and promote ovarian follicular development in immature female mice. In FOOD SCIENCE AND HUMAN WELLNESS, 2020, vol. 9, no. 4, pp. 338-345. Dostupné na: <https://doi.org/10.1016/j.fshw.2020.05.008>., Registrované v: WOS
41. [1.1] MALESZKA, Ryszard. Beyond Royalactin and a master inducer explanation of phenotypic plasticity in honey bees. In COMMUNICATIONS BIOLOGY, 2018, vol. 1, no., pp., Registrované v: WOS
42. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS
43. [1.1] MATYSIAK, Jan - HAJDUK, Joanna - MAYER, Franz - HEBELER, Romano - KOKOT, Zenon J. Hyphenated LC-MALDI-ToF/ToF and LC-ESI-QToF approach in proteomic characterization of honeybee venom. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2016, vol. 121, no., pp. 69-76., Registrované v: WOS
44. [1.1] MELICHER, Dacotah - WILSON, Elisabeth S. - BOWSHER, Julia H. - PETERSON, Steve S. - YOCUM, George D. - RINEHART, Joseph P. Long-Distance Transportation Causes Temperature Stress in the Honey Bee, *Apis mellifera* (Hymenoptera: Apidae). In ENVIRONMENTAL ENTOMOLOGY. ISSN 0046-225X, 2019, vol. 48, no. 3, pp. 691-701., Registrované v: WOS
45. [1.1] MIRANDA, Miguel Angel - BICOUT, Dominique - BOTNER,

- Anette - BUTTERWORTH, Andrew - CALISTRI, Paolo - DEPNER, Klaus - EDWARDS, Sandra - GARIN-BASTUJI, Bruno - GOOD, Margaret - SCHMIDT, Christian Gortazar - MICHEL, Virginie - MORE, Simon - NIELSEN, Soren Saxmose - RAJ, Mohan - SIHVONEN, Lisa - SPOOLDER, Hans - STEGEMAN, Jan Arend - THULKE, Hans H. - VELARDE, Antonio - WILLEBERG, Preben - WINCKLER, Christoph. Assessing the health status of managed honeybee colonies (HEALTHY-B): a toolbox to facilitate harmonised data collection. In EFSA JOURNAL. ISSN 1831-4732, 2016, vol. 14, no. 10, pp., Registrované v: WOS
46. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS
47. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS
48. [1.1] MURESAN, Carmen - BUTTSTEDT, Anja. pH-dependent stability of honey bee (*Apis mellifera*) major royal jelly proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
49. [1.1] NIE, Hongyi - LIU, Xiaoyan - PAN, Jiao - LI, Wenfeng - LI, Zhiguo - ZHANG, Shaowu - CHEN, Shenglu - MIAO, Xiaoqing - ZHENG, Nenggan - SU, Songkun. Identification of genes related to high royal jelly production in the honey bee (*Apis mellifera*) using microarray analysis. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2017, vol. 40, no. 4, pp. 781-789., Registrované v: WOS
50. [1.1] NOH, Mi Young - KIM, Sung Hyun - GORMAN, Maureen J. - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - ARAKANE, Yasuyuki. Yellow-g and Yellow-g2 proteins are required for egg desiccation resistance and temporal pigmentation in the Asian tiger mosquito, *Aedes albopictus*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2020, vol. 122, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibmb.2020.103386>., Registrované v: WOS
51. [1.1] NOH, Mi Young - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - BEEMAN, Richard W. - KANOST, Michael R. - ARAKANE, Yasuyuki. Loss of function of the yellow-e gene causes dehydration-induced mortality of adult *Tribolium castaneum*. In DEVELOPMENTAL BIOLOGY. ISSN 0012-1606, 2015, vol. 399, no. 2, pp. 315-324., Registrované v: WOS
52. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene *mrjp3* in Honeybee *Apis mellifera* of Different Evolutionary Branches. In JOURNAL OF MOLECULAR BIOLOGY RESEARCH, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS
53. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the *mrjp3* Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS

54. [1.1] OSTROVSKI-TOMPOROSKI, Katia - FAQUINELLO, Patricia - COSTA-MAIA, Fabiana Martins - RUVOLO-TAKASUSUKI, Maria Claudia - SANTOS, Pedro da Rosa - DE TOLEDO, Vagner Arnaut. Breeding Program Design Principles for Royal Jelly. In BEEKEEPING AND BEE CONSERVATION ADVANCES IN RESEARCH, 2016, vol., no., pp. 39-62., Registrované v: WOS
55. [1.1] PEI, Jimin - KINCH, Lisa N. - GRISHIN, Nick V. FlyXCDB-A Resource for Drosophila Cell Surface and Secreted Proteins and Their Extracellular Domains. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, 2018, vol. 430, no. 18, pp. 3353-3411., Registrované v: WOS
56. [1.1] PENG, Chi-Chung - SUN, Hui-Tzu - LIN, I-Ping - KUO, Ping-Chung - LI, Jen-Chieh. The functional property of royal jelly 10-hydroxy-2-decenoic acid as a melanogenesis inhibitor. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2017, vol. 17, no., pp., Registrované v: WOS
57. [1.1] PEREIRA, D. S. - PAIVA, C. S. - MENDES, A. R. A. - BATISTA, J. S. - MARACAJA, P. B. ROYAL JELLY PRODUCTION BY AFRICANIZED BEES IN MOSSORO, STATE OF RIO GRANDE DO NORTE, BRAZIL. In HOLOS. ISSN 1518-1634, 2015, vol. 31, no. 6, pp. 77-89., Registrované v: WOS
58. [1.1] POLEY, Jordan D. - SUTHERLAND, Ben J. G. - JONES, Simon R. M. - KOOP, Ben F. - FAST, Mark D. Sex-biased gene expression and sequence conservation in Atlantic and Pacific salmon lice (*Lepeophtheirus salmonis*). In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
59. [1.1] PUCCA, Manuela B. - CERNI, Felipe A. - OLIVEIRA, Isadora S. - JENKINS, Timothy P. - ARGEMI, Lidia - SORENSEN, Christoffer V. - AHMADI, Shirin - BARBOSA, Jose E. - LAUSTSEN, Andreas H. Bee Updated: Current Knowledge on Bee Venom and Bee Envenoming Therapy. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2019, vol. 10, no., pp., Registrované v: WOS
60. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
61. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
62. [1.1] SIM, Cheolho - KANG, David S. - KIM, Sungshil - BAI, Xiaodong - DENLINGER, David L. Identification of FOXO targets that generate diverse features of the diapause phenotype in the mosquito *Culex pipiens*. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 12, pp. 3811-3816., Registrované v: WOS
63. [1.1] STEVENS, Aaron J. - RUCKLIDGE, Julia J. - KENNEDY, Martin A. Epigenetics, nutrition and mental health. Is there a relationship? In NUTRITIONAL NEUROSCIENCE. ISSN 1028-415X, 2018, vol. 21, no. 9, pp.

602-613., Registrované v: WOS

64. [1.1] SUENAMI, Shota - OYA, Satoyo - KOHNO, Hiroki - KUBO, Takeo. Kenyon Cell Subtypes/Populations in the Honeybee Mushroom Bodies: Possible Function Based on Their Gene Expression Profiles, Differentiation, Possible Evolution, and Application of Genome Editing. In FRONTIERS IN PSYCHOLOGY. ISSN 1664-1078, 2018, vol. 9, no., pp., Registrované v: WOS

65. [1.1] SUMOVA, Petra - SIMA, Michal - KALOUSKOVA, Barbora - POLANSKA, Nikola - VANEK, Ondrej - OLIVEIRA, Fabiano - VALENZUELA, Jesus G. - VOLF, Petr. Amine-binding properties of salivary yellow-related proteins in phlebotomine sand flies. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2019, vol. 115, no., pp., Registrované v: WOS

66. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS

67. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS

68. [1.1] TORRES-ACOSTA, Mario A. - AGUILAR-YANEZ, Jose M. - RITO-PALOMARES, Marco - TITCHENER-HOOKER, Nigel J. Economic Analysis of Royalactin Production Under Uncertainty: Evaluating the Effect of Parameter Optimization. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2015, vol. 31, no. 3, pp. 744-749., Registrované v: WOS

69. [1.1] VERNAL, Sebastian - OLIVEIRA, Fabiano - OLIVEIRA, Wanderson H. C. - GOULART, Thais M. - ORISTIAN, James - CALVO, Eric - PINTO, Mara C. - ROSELINO, Ana Maria - RIBEIRO, Jose M. C. RNA-sequencing of the *Nyssomyia neivai* sialome: a sand fly-vector from a Brazilian endemic area for tegumentary leishmaniasis and pemphigus foliaceus. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74343-y>., Registrované v: WOS

70. [1.1] VEZETEU, Thomas V. - BOBIS, Otilia - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Food to some, poison to others honeybee royal jelly and its growth inhibiting effect on European Foulbrood bacteria. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2017, vol. 6, no. 1, pp., Registrované v: WOS

71. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>., Registrované v: WOS

72. [1.1] WANG, Ying - LI-BYARLAY, Hongmei. Physiological and Molecular Mechanisms of Nutrition in Honey Bees. In ADVANCES IN INSECT PHYSIOLOGY, VOL 49. ISSN 0065-2806, 2015, vol. 49, no., pp. 25-58., Registrované v: WOS

73. [1.1] WINKLER, Paul - SIEG, Frank - BUTTSTEDT, Anja.

Transcriptional Control of Honey Bee (*Apis mellifera*) Major Royal Jelly Proteins by 20-Hydroxyecdysone. In INSECTS. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS

74. [1.1] XIN, Xiao-xuan - CHEN, Yong - CHEN, Di - XIAO, Fa - PARNELL, Laurence D. - ZHAO, Jing - LIU, Liang - ORDOVAS, Jose M. - LAI, Chao-Qiang - SHEN, Li-rong. Supplementation with Major Royal-Jelly Proteins Increases Lifespan, Feeding, and Fecundity in *Drosophila*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 29, pp. 5803-5812., Registrované v: WOS

75. [1.1] YEUNG, Yiu To - ARGUELLES, Sandro. Bee Products: Royal Jelly and Propolis. In NONVITAMIN AND NONMINERAL NUTRITIONAL SUPPLEMENTS, 2019, vol., no., pp. 475-484., Registrované v: WOS

76. [1.1] YOU, Zhengying - QIAN, Qiujie - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In TRANSGENIC RESEARCH. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS

77. [1.1] YUAN, Shi-Min. Cardiovascular effects of the edible immune enhancing products. In PROGRESS IN NUTRITION. ISSN 1129-8723, 2017, vol. 19, no. 4, pp. 349-358., Registrované v: WOS

78. [1.1] YUNUSBAEV, U. B. - KASKINOVA, M. D. - ILYASOV, R. A. - GAIFULLINA, L. R. - SALTYSKOVA, E. S. - NIKOLENKO, A. G. The Role of Whole-Genome Studies in the Investigation of Honey Bee Biology. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2019, vol. 55, no. 7, pp. 815-824., Registrované v: WOS

79. [1.1] ZHANG, Xueqing - YU, Yi - SUN, Ping - FAN, Zhen - ZHANG, Wensheng - FENG, Chengqiang. Royal jelly peptides: potential inhibitors of beta-secretase in N2a/APP695swe cells. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

80. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS

81. [1.2] ARAKANE, Yasuyuki - NOH, Mi Young - ASANO, Tsunaki - KRAMER, Karl J. Tyrosine metabolism for insect cuticle pigmentation and sclerotization. In Extracellular Composite Matrices in Arthropods, 2016-09-12, pp. 165-220., Registrované v: SCOPUS

82. [1.2] HARTFELDER, Klaus - GUIDUGLI-LAZZARINI, Karina R. - CERVONI, Mario S. - SANTOS, Douglas E. - HUMANN, Fernanda C. Old Threads Make New Tapestry-Rewiring of Signalling Pathways Underlies Caste Phenotypic Plasticity in the Honey Bee, *Apis mellifera* L. In Advances in Insect Physiology. ISSN 00652806, 2015-01-01, 48, pp. 1-36., Registrované v: SCOPUS

83. [1.2] MAHMOUD, Fatma A. Impact of Chinese royal jelly on performance, behaviour and some blood parameters in broilers reared under high stocking density. In Asian Journal of Animal and Veterinary Advances. ISSN

- 16839919, 2016-01-01, 11, 10, pp. 620-628., Registrované v: SCOPUS
84. [1.2] OLDROYD, Benjamin P. - REID, Rebecca J. - ASHE, Alyson - REMNANT, Emily J. Honey bees, royal jelly, epigenetics. In Encyclopedia of Reproduction, 2018-01-01, pp. 722-727., Registrované v: SCOPUS
85. [1.2] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In Russian Journal of Genetics. ISSN 10227954, 2018-03-01, 54, 3, pp. 322-327., Registrované v: SCOPUS
86. [1.2] OSTROVERKHOVA, N. V. - KUCHER, A. N. - KONUSOVA, O. L. - SHARAKHOV, I. V. The MRJP3 microsatellite marker: Determination of honeybee subspecies or/and royal jelly productivity of bee colony. In Far Eastern Entomologist. ISSN 1026051X, 2018-01-01, 353, pp. 24-28., Registrované v: SCOPUS
87. [1.2] WILDE, Jerzy - FRĄCZEK, Regina J. - SIUDA, Maciej - BĄK, Beata - HATJINA, Fani - MISZCZAK, Artur. The influence of sublethal doses of imidacloprid on protein content and proteolytic activity in honey bees (*Apis mellifera* L.). In Journal of Apicultural Research. ISSN 00218839, 2016-09-12, 55, 2, pp. 212-220., Registrované v: SCOPUS
88. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical composition of royal jelly. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 181-190., Registrované v: SCOPUS
89. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS
90. [3.2] Brandorf, A.Z.; Ivoilova, M.M. The influence of environmental factors on the quality standards of royal jelly *Apis mellifera* L. In: Agrarnaya nauka Evro-Severo-Vostoka, 2018, Issue: 1, p. 19-26, ISSN 2072-9081., Registrované v: Russian Science Citation Index
91. [3.2] Brandorf, A.Z.; Ivoilova, M.M. Morphogenetic markers of honey bees producing royal jelly with a high content of 10-HDA. In: Agricultural Science Euro-North-East. ISSN: 2072-9081, 2019, Vol. 20, Issue: 3 p. 283-289
92. [3.2] Group Author(s). Uniprot Consortium. O77061. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/O77061>, Registrované v: Data Citation Index
93. [3.2] Group Author(s). Uniprot Consortium. O18330. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/O18330>, Registrované v: Data Citation Index
94. [3.2] Group Author(s). Uniprot Consortium. Q17061. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/Q17061>, Registrované v: Data Citation Index
95. [3.2] Group Author(s). Uniprot Consortium. Q17060. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: Data Citation Index
96. [3.2] Yunusbaev, U.B.; Kaskinova, M.D.; Ilyasov, R.A.; Gaifullina, L.R.; Saltykova, E.S.; Nikolenko, A.G.. The Role of Whole-genome Research in the Study of Honey Bee Biology. In: Russian Journal of Genetics, vol. 55 (2019), p. 778-787

SCHNITZHOFFER, W. - WEBER, H.-J. - VRŠANSKÁ, Mária - BIELY, Peter - CAVACO-PAULO, A. - GUEBITZ, G.M. Purification and mechanistic characterisation of two polygalacturonases from *Sclerotium rolfsii*. In *Enzyme and Microbial Technology*, 2007, vol. 40, p. 1739-1747. (2006: 1.897 - IF, Q3 - JCR, 0.908 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2006.11.005>

Ohlasy:

1. [1.1] AMID, Mehrnoush - ASMADI, Farhana Azmira - HUSSIN, Muhaini - MANAP, Mohd Yazid - SARKER, Md. Zaidul Islam - HEAN, Chong Gun. A novel aqueous micellar two-phase system composed of surfactant and mannitol for purification of polygalacturonase enzyme from *Durio zibethinus* Murray and recycling phase components. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2016, vol. 51, no. 6, pp. 968-975., Registrované v: WOS
2. [1.1] AMID, Mehrnoush - MANAP, Yazid - AZMIRA, Farhana - HUSSIN, Muhaini - SARKER, Zaidul Islam. A novel liquid/liquid extraction process composed of surfactant and acetonitrile for purification of polygalacturonase enzyme from *Durio zibethinus*. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2015, vol. 993, no., pp. 1-8., Registrované v: WOS
3. [1.1] AMID, Mehrnoush - MANAP, Mohd Yazid - HUSSIN, Muhaini - MUSTAFA, Shuhaimi. A Novel Aqueous Two Phase System Composed of Surfactant and Xylitol for the Purification of Lipase from Pumpkin (*Cucurbita moschata*) Seeds and Recycling of Phase Components. In *MOLECULES*. ISSN 1420-3049, 2015, vol. 20, no. 6, pp. 11184-11201., Registrované v: WOS
4. [1.1] AMID, Mehrnoush - MURSHID, Fara Syazana - MANAP, Mohd Yazid - HUSSIN, Muhaini. A Novel Aqueous Micellar Two-Phase System Composed of Surfactant and Sorbitol for Purification of Pectinase Enzyme from *Psidium guajava* and Recycling Phase Components. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS
5. [1.1] AMIN, Faiza - BHATTI, Haq Nawaz - BILAL, Muhammad - ASGHER, Muhammad. Purification, Kinetic, and Thermodynamic Characteristics of an Exo-polygalacturonase from *Penicillium notatum* with Industrial Perspective. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 426-443., Registrované v: WOS
6. [1.1] JOSHI, Manasi - NERURKAR, Madhura - ADIVAREKAR, Ravindra. Characterization, Kinetic, and Thermodynamic Studies of Marine Pectinase From *Bacillus subtilis*. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2015, vol. 45, no. 3, pp. 205-220., Registrované v: WOS
7. [1.1] REBELLO, Sharrel - ANJU, Mohandas - ANEESH, Embalil Mathachan - SINDHU, Raveendran - BINOD, Parameswaran - PANDEY, Ashok. Recent advancements in the production and application of microbial pectinases: an overview. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2017, vol. 16, no. 3, pp. 381-394., Registrované v: WOS

8. [1.1] SAMANTA, Saptadip. MICROBIAL PECTINASES: A REVIEW ON MOLECULAR AND BIOTECHNOLOGICAL PERSPECTIVES. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2019, vol. 9, no. 2, pp. 248-266., Registrované v: WOS
9. [1.1] TU, Tao - LI, Yeqing - LUO, Yan - WANG, Zhenxing - WANG, Yuan - LUO, Huiying - YAO, Bin. A key residue for the substrate affinity enhancement of a thermophilic endo-polygalacturonase revealed by computational design. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 10, pp. 4457-4466., Registrované v: WOS
10. [1.1] TU, Tao - LUO, Huiying - MENG, Kun - CHENG, Yanli - MA, Rui - SHI, Pengjun - HUANG, Huoqing - BAI, Yingguo - WANG, Yaru - ZHANG, Lujia - YAO, Bin. Improvement in Thermostability of an *Achaetomium* sp Strain Xz8 Endopolygalacturonase via the Optimization of Charge-Charge Interactions. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 19, pp. 6938-6944., Registrované v: WOS
11. [1.1] XUE, Cai Yun - ZHOU, Ru Jun - LI, Yuan Jie - XIAO, Di - FU, Jun Fan. Cell-wall-degrading enzymes produced in vitro and in vivo by *Rhizoctonia solani*, the causative fungus of peanut sheath blight. In PEERJ. ISSN 2167-8359, 2018, vol. 6, no., pp., Registrované v: WOS
12. [1.1] YU, Ping - WANG, Xinxin - REN, Qian - HUANG, Xingxing - YAN, Tingting. Genome shuffling for improving the activity of alkaline pectinase in *Bacillus subtilis* FS105 and its molecular mechanism. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
13. [1.1] YU, Ping - XU, Chaochao. Production optimization, purification and characterization of a heat-tolerant acidic pectinase from *Bacillus* sp ZJ1407. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 972-980., Registrované v: WOS
14. [1.1] YU, Ping - ZHANG, Yishu - GU, Donglu. Production optimization of a heat-tolerant alkaline pectinase from *Bacillus subtilis* ZGL14 and its purification and characterization. In BIOENGINEERED. ISSN 2165-5979, 2017, vol. 8, no. 5, pp. 613-623., Registrované v: WOS
15. [1.1] ZHAO, Peng - YAMADA, Ayumi - KAKISHIMA, Makoto - ISHII, Hideo. In planta expression profiles and sequence variation of the endopolygalacturonase gene in *Venturia nashicola*, the causal agent of Asian pear scab. In TROPICAL PLANT PATHOLOGY. ISSN 1983-2052, 2016, vol. 41, no. 2, pp. 67-77., Registrované v: WOS
16. [1.1] ZHOU, Huoxiang - LI, Xi - GUO, Mingyue - XU, Qingrui - CAO, Yu - QIAO, Dairong - CAO, Yi - XU, Hui. Secretory Expression and Characterization of an Acidic Endo-Polygalacturonase from *Aspergillus niger* SC323 in *Saccharomyces cerevisiae*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 7, pp. 999-1006., Registrované v: WOS
17. [1.2] SINGH, Ram Sarup - SINGH, Taranjeet - PANDEY, Ashok. Microbial enzymes-an overview. In Biomass, Biofuels, Biochemicals: Advances in Enzyme Technology, 2019-01-01, pp. 1-40., Registrované v: SCOPUS

Ohlasy:

1. [1.1] ECKERMANN, Ruben - BREUNIG, Michael - GAICH, Tanja.
Formal total synthesis of (+/-)-strictamine the [2,3]-Stevens rearrangement for
construction of octahydro-2H-2,8-methanoquinolizines. In *CHEMICAL
COMMUNICATIONS*. ISSN 1359-7345, 2016, vol. 52, no. 76, pp.
11363-11365., Registrované v: WOS
2. [1.1] ECKERMANN, Ruben - BREUNIG, Michael - GAICH, Tanja.
Formal Total Synthesis of (+/-)-Strictamine by [2,3]-Sigmatropic Stevens
Rearrangements. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN
0947-6539, 2017, vol. 23, no. 16, pp. 3938-3949., Registrované v: WOS
3. [1.1] GAN, Pei - PITZEN, Jennifer - QU, Pei - SNYDER, Scott A.
Total Synthesis of the Caged Indole Alkaloid Arboridinine Enabled by aza-Prins
and Metal-Mediated Cyclizations. In *JOURNAL OF THE AMERICAN
CHEMICAL SOCIETY*. ISSN 0002-7863, 2018, vol. 140, no. 3, pp. 919-925.,
Registrované v: WOS
4. [1.1] GAO, Shang - WU, Zijun - FANG, Xinxin - LIN, Aijun - YAO,
Hequan. Palladium-Catalyzed Dearomative Allylic Alkylation of Indoles with
Alkynes To Synthesize Indolenines with C3-Quaternary Centers. In *ORGANIC
LETTERS*. ISSN 1523-7060, 2016, vol. 18, no. 15, pp. 3906-3909., Registrované
v: WOS
5. [1.1] HAMDANI, S. - AL-AS'ARI, M. - SATRIANI, A. R. - HADI,
S. Alkaloids from Pulau (Alstonia scholaris (L.) R. Br.) Leaves of Lombok Island
on the Basis of GC-MS Analysis. In *PROCEEDINGS OF THE 3RD
INTERNATIONAL SYMPOSIUM ON CURRENT PROGRESS IN
MATHEMATICS AND SCIENCES 2017 (ISCPMS2017)*. ISSN 0094-243X,
2018, vol. 2023, no., pp., Registrované v: WOS
6. [1.1] CHEN ZHITAO - XIAO TAO - SONG HAO - QIN YONG.
Asymmetric Synthesis of the Tetracyclic Skeleton of Natural Product
Arborisidine. In *CHINESE JOURNAL OF ORGANIC CHEMISTRY*. ISSN
0253-2786, 2018, vol. 38, no. 9, pp. 2427-2434., Registrované v: WOS
7. [1.1] CHEN, Zhi-Tao - XIAO, Tao - TANG, Pei - ZHANG, Dan -
QIN, Yong. Total synthesis of akuammiline alkaloid (+)-strictamine. In
TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 11, pp. 1129-1134.,
Registrované v: WOS
8. [1.1] LIU, Xiaoyu - XIAO, Tao - QIN, Yong. Total Synthesis of the
Akuammiline Alkaloid Strictamine. In *PROGRESS IN CHEMISTRY*. ISSN
1005-281X, 2018, vol. 30, no. 5, pp. 578-585., Registrované v: WOS
9. [1.1] LIU, Xiao-Yu - QIN, Yong. Indole Alkaloid Synthesis
Facilitated by Photoredox Catalytic Radical Cascade Reactions. In *ACCOUNTS
OF CHEMICAL RESEARCH*. ISSN 0001-4842, 2019, vol. 52, no. 7, pp.
1877-1891., Registrované v: WOS
10. [1.1] LI, Wenfei - CHEN, Zhitao - YU, Di - PENG, Xin - WEN,
Guohua - WANG, Siqi - XUE, Fei - LIU, Xiao-Yu - QIN, Yong. Asymmetric
Total Syntheses of the Akuammiline Alkaloids (-)-Strictamine and
(-)-Rhazinoline. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*.
ISSN 1433-7851, 2019, vol. 58, no. 18, pp. 6059-6063., Registrované v: WOS
11. [1.1] MORENO, Jesus - PICAZO, Elias - MORRILL, Lucas A. -

SMITH, Joel M. - GARG, Neil K. Enantioselective Total Syntheses of Akuammiline Alkaloids (+)-Strictamine, (-)-2(S)-Cathafoline, and (-)-Aspidophylline A. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2016, vol. 138, no. 4, pp. 1162-1165., Registrované v: WOS

12. [1.1] NISHIYAMA, Daisuke - OHARA, Ayako - CHIBA, Hiroaki - KUMAGAI, Hiroshi - OISHI, Shinya - FUJII, Nobutaka - OHNO, Hiroaki. Formal Total Synthesis of (+/-)-Strictamine Based on a Gold-Catalyzed Cyclization. In ORGANIC LETTERS. ISSN 1523-7060, 2016, vol. 18, no. 7, pp. 1670-1673., Registrované v: WOS

13. [1.1] PICAZO, Elias - MORRILL, Lucas A. - SUSICK, Robert B. - MORENO, Jesus - SMITH, Joel M. - GARG, Neil K. Enantioselective Total Syntheses of Methanoquinolizidine-Containing Akuammiline Alkaloids and Related Studies. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2018, vol. 140, no. 20, pp. 6483-6492., Registrované v: WOS

14. [1.1] REN, Weiwu - WANG, Qian - ZHU, Jieping. Total Synthesis of (+/-)-Strictamine. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 10, pp. 3500-3503., Registrované v: WOS

15. [1.1] SATO, Keigo - TAKANASHI, Noriyuki - KOGURE, Noriyuki - KITAJIMA, Mariko - TAKAYAMA, Hiromitsu. FORMAL TOTAL SYNTHESIS OF (+/-)-STRICTAMINE. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 97, no. 1, pp. 365-382., Registrované v: WOS

16. [1.1] SMITH, Joel M. - MORENO, Jesus - BOAL, Ben W. - GARG, Neil K. Fischer Indolizations as a Strategic Platform for the Total Synthesis of Picrinine. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 18, pp. 8954-8967., Registrované v: WOS

17. [1.1] SMITH, Joel M. - MORENO, Jesus - BOAL, Ben W. - GARG, Neil K. Cascade Reactions: A Driving Force in Akuammiline Alkaloid Total Synthesis. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2015, vol. 54, no. 2, pp. 400-412., Registrované v: WOS

18. [1.1] SMITH, Myles W. - ZHOU, Zhiyao - GAO, Alison X. - SHIMBAYASHI, Takuya - SNYDER, Scott A. A 7-Step Formal Asymmetric Total Synthesis of Strictamine via an Asymmetric Propargylation and Metal-Mediated Cyclization. In ORGANIC LETTERS. ISSN 1523-7060, 2017, vol. 19, no. 5, pp. 1004-1007., Registrované v: WOS

19. [1.1] SNYDER, Scott A. Strategies and Tactics for the Synthesis of Complex Alkaloids. In CHIMIA. ISSN 0009-4293, 2017, vol. 71, no. 12, pp. 802-809., Registrované v: WOS

20. [1.1] SUSICK, Robert B. - MORRILL, Lucas A. - PICAZO, Elias - GARG, Neil K. Pardon the Interruption: A Modification of Fischer's Venerable Reaction for the Synthesis of Heterocycles and Natural Products. In SYNLETT. ISSN 0936-5214, 2017, vol. 28, no. 1, pp. 1-11., Registrované v: WOS

21. [1.1] WANG, Chao - ZHANG, Shiju - WANG, Yan - HUANG, Sha-Hua - HONG, Ran. Total synthesis of strictamine: a tutorial for novel and efficient synthesis. In ORGANIC CHEMISTRY FRONTIERS. ISSN 2052-4129, 2018, vol. 5, no. 3, pp. 447-452., Registrované v: WOS

22. [1.1] WANG, Yidong - ZHANG, Peichao - DI, Xiaoyu - DAI, Qiang - ZHANG, Zhan-Ming - ZHANG, Junliang. Gold-Catalyzed Asymmetric Intramolecular Cyclization of N-Allenamides for the Synthesis of Chiral Tetrahydrocarbolines. In ANGEWANDTE CHEMIE-INTERNATIONAL

- EDITION. ISSN 1433-7851, 2017, vol. 56, no. 50, pp. 15905-15909.,
 Registrované v: WOS
23. [1.1] XIAO, Tao - CHEN, Zhi-Tao - DENG, Lin-Feng - ZHANG, Dan - LIU, Xiao-Yu - SONG, Hao - QIN, Yong. Formal total synthesis of the akuammiline alkaloid (+)-strictamine. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 94, pp. 12665-12667., Registrované v: WOS
24. [1.1] XIE, Xiaoni - WEI, Bei - LI, Guang - ZU, Liansuo. Unified Total Syntheses of Structurally Diverse Akuammiline Alkaloids. In ORGANIC LETTERS. ISSN 1523-7060, 2017, vol. 19, no. 19, pp. 5430-5433., Registrované v: WOS
25. [1.1] XIE, Xiaoni - ZU, Liansuo. Skeletal Rearrangements as Strategies for the Total Syntheses of Indole Alkaloids. In SYNLETT. ISSN 0936-5214, 2018, vol. 29, no. 8, pp. 1008-1013., Registrované v: WOS
26. [1.1] XU, Wenqing - WANG, Wei - WANG, Xiang. Gold-Catalyzed Cyclization Leads to a Bridged Tetracyclic Indolenine that Represses beta-Lactam Resistance. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2015, vol. 54, no. 33, pp. 9546-9549., Registrované v: WOS
27. [1.1] ZHANG, Zhen - XIE, Sujun - CHENG, Bin - ZHAI, Hongbin - LI, Yun. Enantioselective Total Synthesis of (+)-Arboridinine. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2019, vol. 141, no. 17, pp. 7147-7154., Registrované v: WOS
28. [1.2] ADAMS, Gregory L. - SMITH, Amos B. The Chemistry of the Akuammiline Alkaloids. In Alkaloids: Chemistry and Biology. ISSN 10994831, 2016-01-01, 76, pp. 171-257., Registrované v: SCOPUS
29. [1.2] MANOLIKAKES, Georg - GRIMMER, Jennifer. Totalsynthese von Strictamin. In Nachrichten aus der Chemie. ISSN 14399598, 2016-08-01, 64, 7-8, pp. 747-750., Registrované v: SCOPUS

ADCA1142 SCHOLTZOVÁ, Eva** - MACH, Pavel - HRICOVÍNÍ, Miloš.
 Structure of sulfated monosaccharides studied by quantum chemical methods. In *Molecules*, 2003, vol. 8, no. 11, p. 770-779. ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/81100770>

Ohlasy:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS

ADCA1143 SCHWIKAL, K. - HEINZE, T. - EBRINGEROVÁ, Anna - PETZOLD, K. Cationic xylan derivatives with high degree of functionalization. In *Macromolecular Symposia*, 2006, vol. 232, p. 49-56. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551406>

Ohlasy:

1. [1.1] AKIL, Youssef - LEHNEN, Ralph - SAAKE, Bodo. Novel synthesis of hydroxyvinylethyl xylan using 4-vinyl-1, 3-dioxolan-2-one. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2016, vol. 57, no. 37, pp.

4200-4202., Registrované v: WOS

2. [1.1] AMER, Hassan - NYPELO, Tiina - SULAEVA, Irina - BACHER, Markus - HENNIGES, Ute - POTTHAST, Antje - ROSENAU, Thomas. Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). In BIOMACROMOLECULES. ISSN 1525-7797, 2016, vol. 17, no. 9, pp. 2972-2980., Registrované v: WOS
3. [1.1] BORJESSON, Mikaela - WESTMAN, Gunnar. Branching of hemicelluloses through an azetidinium salt ring-opening reaction. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 428, no., pp. 23-30., Registrované v: WOS
4. [1.1] DAI, Qing-Qing - REN, Jun-Li - PENG, Feng - CHEN, Xiao-Feng - GAO, Cun-Dian - SUN, Run-Cang. Synthesis of Acylated Xylan-Based Magnetic Fe₃O₄ Hydrogels and Their Application for H₂O₂ Detection. In MATERIALS. ISSN 1996-1944, 2016, vol. 9, no. 8, pp., Registrované v: WOS
5. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
6. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS
7. [1.1] CHEN, Ge-Gu - QI, Xian-Ming - LI, Ming-Peng - GUAN, Ying - BIAN, Jing - PENG, Feng - YAO, Chun-Li - SUN, Run-Cang. Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
8. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
9. [1.1] KONDURI, Mohan K. R. - FATEHI, Pedram. Synthesis and characterization of carboxymethylated xylan and its application as a dispersant. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 146, no., pp. 26-35., Registrované v: WOS
10. [1.1] KONG, Weiqing - DAI, Qingqing - REN, Junli - MA, Nianfang. Homogeneous acylation of xylan with 3,5-dinitrobenzoyl in ionic liquid and the adsorption property. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 128, no., pp. 105-111., Registrované v: WOS
11. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
12. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using

- response surface methodology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
13. [1.1] NURMI, Leena - SALMINEN, Reeta - SETALA, Harri. Modular modification of xylan with UV-initiated thiol-ene reaction. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 404, no., pp. 63-69., Registrované v: WOS
14. [1.1] PAHIMANOLIS, Nikolaos - KILPELAINEN, Petri - MASTER, Emma - ILVESNIEMI, Hannu - SEPPALA, Jukka. Novel thiol- amine- and amino acid functional xylan derivatives synthesized by thiol-ene reaction. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 392-398., Registrované v: WOS
15. [1.1] VEGA, Beatriz - GRIGORAY, Olga - GUSTAFSSON, Jan - FARDIM, Pedro. Advances in Sugar-based Polymers: Xylan and its Derivatives for Surface Modification of Pulp Fibres. In BIOMASS SUGARS FOR NON-FUEL APPLICATIONS. ISSN 1757-7039, 2016, vol., no. 44, pp. 134-158., Registrované v: WOS
16. [1.1] VELKOVA, Nena - ZEMLJIC, Lidija Fras - SAAKE, Bodo - STRNAD, Simona. Adsorption of cationized xylans onto polyethylene terephthalate fabrics for antimicrobial medical textiles. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 473-486., Registrované v: WOS
17. [1.1] VUOTI, Sauli - NARASIMHA, Kumar - REINIKAINEN, Kai. Green wastewater treatment flocculants and fixatives prepared from cellulose using high-consistency processing and deep eutectic solvents. In JOURNAL OF WATER PROCESS ENGINEERING. ISSN 2214-7144, 2018, vol. 26, no., pp. 83-91., Registrované v: WOS
18. [1.1] WAN, Xiao-Fang - LIU, Meng-Zhen - YU, Teng - CHAI, Xin-Sheng - LI, You-Ming - LIN, Ke - CHEN, Guang-Xue. Hydrolysis kinetics of epoxypolytrimethylammonium chloride in ethanol/water solution system. In CHEMICAL ENGINEERING RESEARCH & DESIGN. ISSN 0263-8762, 2018, vol. 136, no., pp. 41-47., Registrované v: WOS
19. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against Escherichia coli Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS
20. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of Dendrobium officinale and anti-angiogenesis activities of its sulfated derivative. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS
21. [1.1] ZEMLJIC, Lidija Fras - DIMITRISEV, Nena - SAAKE, Bodo - STRNAD, Simona. Functionalisation of poly(ethylene terephthalate) (PET) surfaces with two cationised xylans by means of two anchoring polymers. In HOLZFORSCHUNG. ISSN 0018-3830, 2019, vol. 73, no. 7, pp. 695-704., Registrované v: WOS
22. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO, Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming. Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid. In INTERNATIONAL JOURNAL

OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>, Registrované v: WOS

23. [1.2] PENG, Xinwen - DU, Fan - ZHONG, Linxin. Synthesis, characterization, and applications of hemicelluloses based eco-friendly polymer composites. In *Sustainable Polymer Composites and Nanocomposites*, 2019-01-01, pp. 1267-1322., Registrované v: SCOPUS

ADCA1144 SIHELNIKOVA, Lucia - TVAROŠKA, Igor. Step by step towards understanding gold glyconanoparticles as elements of the nanoworld. In *Chemical papers*, 2007, vol. 61, p. 237-255. (2006: 0.360 - IF, Q4 - JCR, 0.186 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-007-0029-0>

Ohlasy:

1. [1.1] THYGESEN, Mikkel B. - JENSEN, Knud J. CARBOHYDRATE-MODIFIED GOLD NANOPARTICLES. In *CARBOHYDRATE NANOTECHNOLOGY*, 2016, vol., no., pp. 79-98., Registrované v: WOS
2. [1.2] MARRADI, Marco - CHIODOA, Fabrizio - GARCIA, Isabel. Glyconanotechnology and disease: Gold nanoparticles coated with glycosides as multivalent systems for potential applications in diagnostics and therapy. In *RSC Drug Discovery Series*. ISSN 20413203, 2015-01-01, 2015-January, 43, pp. 89-131., Registrované v: SCOPUS
3. [1.2] THYGESEN, Mikkel B. - JENSEN, Knud J. Carbohydrate-Modified Gold Nanoparticles. In *Carbohydrate Nanotechnology*, 2015-11-27, pp. 79-98., Registrované v: SCOPUS

ADCA1145 SIHELNÍKOVÁ, Lucie - KOZMON, Stanislav - TVAROŠKA, Igor. DFT and docking study of potential transition state analogue inhibitors of glycosyltransferases. In *Collection of Czechoslovak Chemical Communications*, 2008, vol. 73, p. 591-607. (2007: 0.879 - IF, Q3 - JCR). ISSN 0010-0765. Dostupné na: <https://doi.org/10.1135/cccc20080591>

Ohlasy:

1. [1.2] VIDEIRA, Paula Alexandra - MARCELO, Filipa - GREWAL, Ravneet Kaur. Glycosyltransferase inhibitors: A promising strategy to pave a path from laboratory to therapy. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 135-158., Registrované v: SCOPUS

ADCA1146 SINGH, S. - REDDY, P. - HAARHOFF, J. - BIELY, Peter - JANSE, B. - PILLAY, B. - PILLAY, D. - PRIOR, B.A. Relatedness of *Thermomyces lanuginosus* strains producing a thermostable xylanase. In *Journal of Biotechnology*, 2000, vol. 81, p. 119-128. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(00\)00279-0](https://doi.org/10.1016/S0168-1656(00)00279-0)

Ohlasy:

1. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné

- na: <https://doi.org/10.1016/j.biombioe.2020.105639>., Registrované v: WOS
2. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In *BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS*, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
 3. [1.1] KIM, Young-Hee - CHOI, Kyoung-Hwa - HONG, Jin-Young - LEE, Jeung-Min - KIM, Soo-Ji - JO, Chang-Wook - JEONG, So Young. Investigation of Microorganisms Deteriorating Ancient Ola Leaf Manuscripts. In *RESTAURATOR-INTERNATIONAL JOURNAL FOR THE PRESERVATION OF LIBRARY AND ARCHIVAL MATERIAL*. ISSN 0034-5806, 2020, vol. 41, no. 3, pp. 119-129. Dostupné na: <https://doi.org/10.1515/res-2020-0004>., Registrované v: WOS
 4. [1.1] KUMAR, Vishal - SHUKLA, Pratyosh. Extracellular xylanase production from *T. lanuginosus* VAPS24 at pilot scale and thermostability enhancement by immobilization. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 71, no., pp. 53-60., Registrované v: WOS
 5. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. Industrial Enzymes: Xylanases. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS*, 2017, vol., no., pp. 127-148., Registrované v: WOS
 6. [3.2] Liao, Ziya; Guo, Xiaomeng; Wang, Haisheng; Yan, Yanchun; Li, Jun; Zhao, Baisuo. Carbon source optimization and characterization of a xylanase from *Alkalitalea saponilacus* SC/BZ-SP2(T). In: Weishengwu Xuebao, 2018, vol. 58, issue 9, p. 1625-1636., Registrované v: BIOSIS Citation Index
 7. [3.2] YOUSSEF, G. A.; KABEIL, S. S.; ELKADY, S. K.; EL_AASSAR, S. A. Production and Optimization of Xylanase from Thermotolerant and Alkali Tolerant *Emericella nidulans* AS210136.01 isolate from Lignocellulosic Wastes. In *Journal of Pure and Applied Microbiology*, 2015, vol. 9, Sp. iss. SI, p. 237-249., Registrované v: BIOSIS Citation Index

ADCA1147 SKALKOVÁ, Petra - ČÍŽOVÁ, Alžbeta - JOCHEC MOŠKOVÁ, Daniela - JANIGOVÁ, Ivica. LDPE/glucoronoxylan blends : Preparation and study of thermal and mechanical properties. In *Cellulose Chemistry and Technology*, 2012, vol. 46, no. 1-2, p.69 - 77. (2011: 0.550 - IF, Q2 - JCR, 0.274 - SJR, Q3 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0576-9787.

Ohlasy:

1. [1.1] SUDARI, A.K. - SHAMSURI, A.A. - ZAINUDIN, E.S. - TAHIR, P.M. Exploration on compatibilizing effect of nonionic, anionic, and cationic surfactants on mechanical, morphological, and chemical properties of high-density polyethylene/low-density polyethylene/cellulose biocomposites. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, JUN 2017, vol. 30, no. 6, p. 855-884., Registrované v: WOS

ADCA1148 SLÁDEK, Vladimír**. A note on the interpretation of the efficiency centrality. In *Communications in Nonlinear Science and Numerical Simulation*, 2018, vol. 61, p. 225-229. (2017: 3.181 - IF, Q1 - JCR, 1.372 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1007-5704. Dostupné na: <https://doi.org/10.1016/j.cnsns.2018.02.012>

Ohlasy:

1. [1.1] ZHANG, Hui - SHI, Baiying - YU, Xiaohua - LI, Meiling - SONG, Shuguang - ZHAO, Quanman - YAO, Xiangming - WANG, Wei. Finding influential nodes in bus networks. In *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*. ISSN 0217-9792, 2018, vol. 32, no. 28, pp., Registrované v: WOS
2. [1.1] ZHANG, Hui - WANG, Jiangfeng - SHI, Baiying - LU, Xiaolin - JIA, Jianmin. Exploring significant edges of public transport network under targeted attacks. In *MODERN PHYSICS LETTERS B*. ISSN 0217-9849, 2019, vol. 33, no. 10, pp., Registrované v: WOS

ADCA1149 SLÁDEK, Vladimír - HOLKA, Filip - TVAROŠKA, Igor. Ab initio modelling of the anomeric and exo anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane corrected for intramolecular BSSE. In *Physical Chemistry Chemical Physics*, 2015, vol. 17, p. 18501-18513. (2014: 4.493 - IF, Q1 - JCR, 1.771 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c5cp02191j>

Ohlasy:

1. [1.1] JENSEN, Frank. Using valence bond methods to estimate intramolecular basis set superposition errors. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2017, vol. 146, no. 18, pp., Registrované v: WOS
2. [1.1] LANGENHAN, Joseph M. - MCLAUGHLIN, Ryan P. - LOSKOT, Steven A. - ROZAL, Leonardo M. - CLAY, Mackenzie S. - ALAIMO, Peter J. Using density functional theory to calculate the anomeric effect in hydroxylamine and hydrazide derivatives of tetrahydropyran. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2016, vol. 35, no. 2, pp. 106-117., Registrované v: WOS
3. [1.1] LOMAS, John S. Intramolecular O?HO and C?HO hydrogen bond cooperativity in D-glucopyranose and D-galactopyranose A DFT/GIAO, QTAIM/IQA, and NCI approach. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 8, pp. 748-766., Registrované v: WOS
4. [1.1] SU, Peifeng - TANG, Zhen - WU, Wei. Generalized Kohn-Sham energy decomposition analysis and its applications. In *WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE*. ISSN 1759-0876, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.1002/wcms.1460>., Registrované v: WOS
5. [1.1] SZCZEPANIAK, Marek - MOC, Jerzy. Tautomers of Gas-Phase Erythrose and Their Interconversion Reactions: Insights from High-Level ab Initio Study. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2015, vol. 119, no. 44, pp. 10946-10958., Registrované v: WOS

ADCA1150 SLÁDEK, Vladimír - TVAROŠKA, Igor. First-principles interaction analysis assessment of manganese cation in the catalytic activity of glycosyltransferases. In *Journal of Physical Chemistry B*, 2017, vol. 121, p. 6148-6162. (2016: 3.177 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b03714>

Ohlasy:

1. [1.1] DOROKHOV, Valentin S. - GOLOVANOV, Ivan S. -

TARTAKOVSKY, Vladimir A. - SUKHORUKOV, Alexey Yu. - IOFFE, Sema L. Diastereoselective synthesis and profiling of bicyclic imidazolidinone derivatives bearing a difluoromethylated catechol unit as potent phosphodiesterase 4 inhibitors. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 38, pp., Registrované v: WOS

2. [1.1] GARCIA, Javier - PODESZWA, Rafal - SZALEWICZ, Krzysztof. SAPT codes for calculations of intermolecular interaction energies. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2020, vol. 152, no. 18, pp. Dostupné na: <https://doi.org/10.1063/5.0005093>., Registrované v: WOS

3. [1.1] LIMA NETO, Jose X. - SOARES-RACHETTI, Vanessa P. - ALBUQUERQUE, Eudencilson L. - MANZONI, Vinicius - FULCO, Umberto L. Outlining migrainous through dihydroergotamine-serotonin receptor interactions using quantum biochemistry. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2018, vol. 42, no. 4, pp. 2401-2412., Registrované v: WOS

4. [1.1] MASTRANGELI, Renato - AUDINO, Maria Concetta - PALINSKY, Wolf - BROLY, Herve - BIERAU, Horst. The Formidable Challenge of Controlling High Mannose-Type N-Glycans in Therapeutic mAbs. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2020, vol. 38, no. 10, pp. 1154-1168. Dostupné na: <https://doi.org/10.1016/j.tibtech.2020.05.009>., Registrované v: WOS

5. [1.1] PATKOWSKI, Konrad. Recent developments in symmetry-adapted perturbation theory. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.1002/wcms.1452>., Registrované v: WOS

6. [1.1] TURUPCU, Ayseguel - POLIAK, Peter - MARGREITTER, Christian - OOSTENBRINK, Chris - STAUDACHER, Erika. UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase from the snail Biomphalaria glabrata structural reflections. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2020, vol. 37, no. 1, pp. 15-25. Dostupné na: <https://doi.org/10.1007/s10719-019-09886-y>., Registrované v: WOS

7. [1.1] VASQUEZ-PROCOPIO, Johana - OSORIO, Beatriz - CORTES-MARTINEZ, Leticia - HERNANDEZ-HERNANDEZ, Fidel - MEDINA-CONTRERAS, Oscar - RIOS-CASTRO, Emmanuel - COMJEAN, Aram - LI, Fangge - HU, Yanhui - MOHR, Stephanie - PERRIMON, Norbert - MISSIRLIS, Fanis. Intestinal response to dietary manganese depletion in Drosophila. In METALLOMICS. ISSN 1756-5901, 2020, vol. 12, no. 2, pp. 218-240. Dostupné na: <https://doi.org/10.1039/c9mt00218a>., Registrované v: WOS

8. [1.1] WALDROP, Jonathan M. - PATKOWSKI, Konrad. Interactions of CO(2) with cluster models of metal-organic frameworks. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2020, vol. 41, no. 23, pp. 2066-2083. Dostupné na: <https://doi.org/10.1002/jcc.26377>., Registrované v: WOS

ADCA1151 SLÁDEK, Vladimír - KÓŇA, Juraj - TOKIWA, Hiroaki. In silico analysis of interaction pattern switching in ligand...receptor binding in Golgi alfa-mannosidase II induced by the protonated states of inhibitors. In *Physical*

Chemistry Chemical Physics, 2017, vol. 19, p. 12527-12537. (2016: 4.123 - IF, Q1 - JCR, 1.685 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c7cp01200d>

Ohlasy:

1. [1.1] CHANDRAMOHAN, Arun - TULSIAN, Nikhil K. - ANAND, Ganesh S. Dissecting Orthosteric Contacts for a Reverse-Fragment-Based Ligand Design. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 15, pp. 7876-7885., Registrované v: WOS
2. [1.1] CHEN, Deliang - LI, Yibao - GUO, Wei - LI, Yongdong - SAVIDGE, Tor - LI, Xun - FAN, Xiaolin. The shielding effect of metal complexes on the binding affinities of ligands to metalloproteins. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2019, vol. 21, no. 1, pp. 205-216., Registrované v: WOS
3. [1.1] LIMA NETO, Jose X. - SOARES-RACHETTI, Vanessa P. - ALBUQUERQUE, Eudenilson L. - MANZONI, Vinicius - FULCO, Umberto L. Outlining migrainous through dihydroergotamine-serotonin receptor interactions using quantum biochemistry. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2018, vol. 42, no. 4, pp. 2401-2412., Registrované v: WOS

ADCA1152 SLÁDEK, Vladimír** - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein residue networks from energetic and geometric data: Are they identical? In *Journal of Chemical Theory and Computation*, 2018, vol. 14, p. 6623-6631. (2017: 5.399 - IF, Q1 - JCR, 2.497 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.8b00733>

Ohlasy:

1. [1.1] AYDINKAL, Rasim Murat - SERCINOGLU, Onur - OZBEK, Pemra. ProSNEx: a web-based application for exploration and analysis of protein structures using network formalism. In *NUCLEIC ACIDS RESEARCH*. ISSN 0305-1048, 2019, vol. 47, no. W1, pp. W471-W476., Registrované v: WOS
2. [1.1] DAWSON, William - MOHR, Stephan - RATCLIFF, Laura E. - NAKAJIMA, Takahito - GENOVESE, Luigi. Complexity Reduction in Density Functional Theory Calculations of Large Systems: System Partitioning and Fragment Embedding. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2020, vol. 16, no. 5, pp. 2952-2964. Dostupné na: <https://doi.org/10.1021/acs.jctc.9b01152>., Registrované v: WOS
3. [1.1] FEDOROV, Dmitri G. Analyzing Interactions with the Fragment Molecular Orbital Method. In *QUANTUM MECHANICS IN DRUG DISCOVERY*. ISSN 1064-3745, 2020, vol. 2114, no., pp. 49-73. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_4., Registrované v: WOS
4. [1.1] FEDOROV, Dmitri G. Partition Analysis for Density-Functional Tight-Binding. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2020, vol. 124, no. 49, pp. 10346-10358. Dostupné na: <https://doi.org/10.1021/acs.jpca.0c08204>., Registrované v: WOS
5. [1.1] FEDOROV, Dmitri G. Solvent Screening in Zwitterions Analyzed with the Fragment Molecular Orbital Method. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2019, vol. 15, no. 10, pp. 5404-5416., Registrované v: WOS
6. [1.1] FEDOROV, Dmitri G. Three-Body Energy Decomposition Analysis Based on the Fragment Molecular Orbital Method. In *JOURNAL OF*

PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4956-4971. Dostupné na: <https://doi.org/10.1021/acs.jpca.0c03085>., Registrované v: WOS

7. [1.1] FEDOROV, Dmitri G. - LI, Hui - MIRONOV, Vladimir - ALEXEEV, Yuri. Computational Methods for Biochemical Simulations Implemented in GAMESS. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 123-142. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_8., Registrované v: WOS

8. [1.1] FELLINE, Angelo - SEEBER, Michele - FANELLI, Francesca. webPSN v2.0: a webserver to infer fingerprints of structural communication in biomacromolecules. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, 2020, vol. 48, no. W1, pp. W94-W103. Dostupné na: <https://doi.org/10.1093/nar/gkaa397>., Registrované v: WOS

9. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

10. [1.1] YAO, Xin-Qu - MOMIN, Mohamed - HAMELBERG, Donald. Establishing a Framework of Using Residue-Residue Interactions in Protein Difference Network Analysis. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2019, vol. 59, no. 7, pp. 3222-3228., Registrované v: WOS

ADCA1153 SLÁDEK, Vladimír - ŠKORŇA, Peter - POLIAK, Peter - LUKEŠ, Vladimír. The ab initio study of halogen and hydrogen σ N-bonded para-substituted pyridine \cdots (X₂/XY/HX) complexes. In *Chemical Physics Letters*, 2015, vol. 619, p. 7-13. (2014: 1.897 - IF, Q2 - JCR, 0.755 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0009-2614. Dostupné na: <https://doi.org/10.1039/c5cp02191j>

Ohlasy:

1. [1.1] NEPAL, Binod - SCHEINER, Steve. Building a Better Halide Receptor: Optimum Choice of Spacer, Binding Unit, and Halosubstitution. In CHEMPHYSICHEM. ISSN 1439-4235, 2016, vol. 17, no. 6, pp. 836-844., Registrované v: WOS

2. [1.1] OLIVEIRA, Vitor - KRAKA, Elfi - CREMER, Dieter. The intrinsic strength of the halogen bond: electrostatic and covalent contributions described by coupled cluster theory. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2016, vol. 18, no. 48, pp. 33031-33046., Registrované v: WOS

3. [1.1] OLIVEIRA, Vitor - KRAKA, Elfi - CREMER, Dieter. Quantitative Assessment of Halogen Bonding Utilizing Vibrational Spectroscopy. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2017, vol. 56, no. 1, pp. 488-502., Registrované v: WOS

4. [1.1] SHEN, Dan - SU, Peifeng - WU, Wei. What kind of neutral halogen bonds can be modulated by solvent effects? In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2018, vol. 20, no. 41, pp. 26126-26139., Registrované v: WOS

5. [1.1] SCHEINER, Steve. Assembly of Effective Halide Receptors

from Components. Comparing Hydrogen, Halogen, and Tetrel Bonds. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2017, vol. 121, no. 18, pp. 3606-3615., Registrované v: WOS

6. [1.1] SCHEINER, Steve. Comparison of halide receptors based on H, halogen, chalcogen, pnictogen, and tetrel bonds. In FARADAY DISCUSSIONS. ISSN 1359-6640, 2017, vol. 203, no., pp. 213-226., Registrované v: WOS

7. [1.1] SCHEINER, Steve. Highly Selective Halide Receptors Based on Chalcogen, Pnictogen, and Tetrel Bonds. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2016, vol. 22, no. 52, pp. 18850-18858., Registrované v: WOS

8. [1.1] WANG, Hui - WANG, Weizhou - JIN, Wei Jun. sigma-Hole Bond vs pi-Hole Bond: A Comparison Based on Halogen Bond. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 9, pp. 5072-5104., Registrované v: WOS

9. [1.1] WASOWICZ, Tomasz J. - PRANSZKE, Bogusław. Observation of the Hydrogen Migration in the Cation-Induced Fragmentation of the Pyridine Molecules. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2016, vol. 120, no. 7, pp. 964-971., Registrované v: WOS

ADCA1154 SLAMEŇOVÁ, Darina - HORVÁTHOVÁ, Eva - KOŠÍKOVÁ, Božena - RUZEKOVÁ, L. - LÁBAJ, Juraj. Detection of lignin biopolymer- and vitamin E-stimulated reduction of DNA strand breaks in H₂O₂- and MNNG-treated mammalian cells by the comet assay. In *Nutrition and Cancer*, 1999, vol. 33, no. 1, p. 88-94. ISSN 0163-5581.

Ohlasy:

1. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

2. [1.1] QAZI, Sohail S. - LI, Dongbing - BRIENS, Cedric - BERRUTI, Franco - ABOU-ZAID, Mamdouh M. Antioxidant Activity of the Lignins Derived from Fluidized-Bed Fast Pyrolysis. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS

3. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADCA1155 SLAMEŇOVÁ, Darina - LÁBAJ, Juraj - LAZAROVÁ, Monika - KOŠÍKOVÁ, Božena. Lignin-stimulated reduction of oxidative DNA lesions in testicular cells and lymphocytes of sprague-dawley rats in vitro and ex vivo. In *Nutrition and Cancer*, 2004, vol. 50, no. 2, p. 198-205. ISSN 0163-5581. Dostupné na: https://doi.org/10.1207/s15327914nc5002_10

Ohlasy:

1. [1.1] BAUMGARTNER, Adolf - ALI, Aftab - NORMINGTON, Charmaine - ANDERSON, Diana. The Comet Assay in Sperm-Assessing Genotoxins in Male Germ Cells. In COMET ASSAY IN TOXICOLOGY, 2ND EDITION. ISSN 1757-7179, 2017, vol. 30, no., pp. 390-456., Registrované v:

WOS

2. [1.1] TITTON DIAS, Otavio Augusto - NEGRAO, Djanira Rodrigues - FERNANDA, Daniele - GONCALVES, Chiarelli - CESARINO, Ivana - LEAO, Alcides Lopes. Recent approaches and future trends for lignin-based materials. In MOLECULAR CRYSTALS AND LIQUID CRYSTALS. ISSN 1542-1406, 2017, vol. 655, no. 1, pp. 204-223., Registrované v: WOS

ADCA1156 SLAMEŇOVÁ, Darina - LÁBAJ, Juraj - KRIŽKOVÁ, L. - KOGAN, Grigorij - ŠANDULA, Jozef - BRESGEN, Nikolaus - ECKL, Peter. Protective effects of fungal (1 - 3)-beta-D-glucan derivatives against oxidative DNA lesions in V79 hamster lung cells. In *Cancer Letters*. - Elsevier Science Ireland, 2003, vol. 198, no. 2, p. 153-160. ISSN 0304-3835. Dostupné na: [https://doi.org/10.1016/S0304-3835\(03\)00336-7](https://doi.org/10.1016/S0304-3835(03)00336-7)

Ohlasy:

1. [1.1] APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] ARAUJO, V.B.D. - DE MELO, A.N.F. - SOUZA, N.T. - DA SILVA, V.M.B. - CASTRO-GOMEZ, R.H. - SILVA, A.S. - DE SOUZA, E.L. - MAGNANI, M. Oral Intake of Carboxymethyl-Glucan (CM-G) from Yeast (*Saccharomyces uvarum*) Reduces Malondialdehyde Levels in Healthy Men. In MOLECULES. ISSN 1420-3049, AUG 2015, vol. 20, no. 8, p. 14950-14958., Registrované v: WOS

3. [1.1] BAI, Junying - REN, Yikai - LI, Yan - FAN, Mingcong - QIAN, Haifeng - WANG, Li - WU, Gangcheng - ZHANG, Hui - QI, Xiguang - XU, Meijuan - RAO, Zhiming. Physiological functionalities and mechanisms of beta-glucans. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2019, vol. 88, no., pp. 57-66., Registrované v: WOS

4. [1.1] BARANOSKI, A. - OLIVEIRA, M.T. - SEMPREGON, S.C. - NIWA, A.M. - RIBEIRO, L.R. - MANTOVANI, M.S. Effects of sulfated and non-sulfated beta-glucan extracted from *Agaricus brasiliensis* in breast adenocarcinoma cells - MCF-7. In TOXICOLOGY MECHANISMS AND METHODS. ISSN 1537-6516, NOV 22 2015, vol. 25, no. 9, p. 672-679., Registrované v: WOS

5. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS

6. [1.1] CARDENAS-REYNA, Tomas - ANGULO, Carlos - GULUARTE, Crystal - HORI-OSHIMA, Sawako - REYES-BECERRIL, Martha. In vitro immunostimulatory potential of fungal beta-glucans in pacific red snapper (*Lutjanus peru*) cells. In DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. ISSN 0145-305X, 2017, vol. 77, no., pp. 350-358., Registrované v: WOS

7. [1.1] CUONG, D.V. - KIM, H.K. - MARQUEZ, J. - KIM, N. - KO, K.S. - RHEE, B.D. - HAN, J. Mitochondrial calcium uniporter inhibition attenuates mouse bone marrow-derived mast cell degranulation induced by beta-1,3-glucan. In KOREAN JOURNAL OF PHYSIOLOGY & PHARMACOLOGY. ISSN 1226-4512, MAR 2016, vol. 20, no. 2, p. 213-220.,

Registrované v: WOS

8. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS
9. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
10. [1.1] JANTOVA, S. - BAKOS, D. - BIROSOVA, L. - MATEJOV, P. Biological properties of a novel coladern-beta glucan membrane. In vitro assessment using human fibroblasts. In BIOMEDICAL PAPERS-OLOMOUC. ISSN 1213-8118, 2015, vol. 159, no. 1, p. 67-76., Registrované v: WOS
11. [1.1] KAUR, Ramandeep - SHARMA, Minaxi. Cereal polysaccharides as sources of functional ingredient for reformulation of meat products: A review. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 62, no., pp., Registrované v: WOS
12. [1.1] KERCHE-SILVA, Leandra E. - COLUS, Ilce M. S. - MALINI, Maressa - MORI, Mateus Prates - DEKKER, Robert F. H. - BARBOSA-DEKKER, Aneli M. In vitro protective effects of botryosphaeran, a (1>3;1>6)-beta-D-glucan, against mutagens in normal and tumor rodent cells. In MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS. ISSN 1383-5718, 2017, vol. 814, no., pp. 29-36., Registrované v: WOS
13. [1.1] LI, H.B. - WANG, M.Y. - HU, L.B. - MO, H.Z. - PAN, D.D. Structural Identification of *Lentinus edodes* Cellulose Derivative that Inhibits Aflatoxin Production by *Aspergillus flavus*. In TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1596-5996, MAR 2015, vol. 14, no. 3, p. 495-501., Registrované v: WOS
14. [1.1] PENNINKS, Andre - BAERT, Katleen - LEVORATO, Sara - BINAGLIA, Marco. Dyes used in aquaculture. In EFSA JOURNAL. ISSN 1831-4732, 2017, vol. 15, no. 7, pp., Registrované v: WOS
15. [1.1] PITKANEN, Leena - HEINONEN, Marina - MIKKONEN, Kirsi S. Safety considerations of plant polysaccharides for food use: a case study on phenolic-rich softwood galactoglucomannan extract. In FOOD & FUNCTION. ISSN 2042-6496, 2018, vol. 9, no. 4, pp. 1931-1943., Registrované v: WOS
16. [1.1] URT, A. - OLIVEIRA, R.J. - HERMETO, L.C. - PESARINI, J.R. - DE DAVID, N. - CANTERO, W.D. - FALCAO, G. - MARKS, G. - ANTONIOLLI-SILVA, A.C.M.B. Mesenchymal stem cell therapy promotes the improvement and recovery of renal function in a preclinical model. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, APR-JUN 2016, vol. 39, no. 2, p. 290-299., Registrované v: WOS

17. [1.1] ZHU, Yuan - MAHANEY, James - JELLISON, Jody - CAO, Jinzhen - GRESSLER, Julia - HOFFMEISTER, Dirk - GOODELL, Barry. Fungal variegatic acid and extracellular polysaccharides promote the site-specific generation of reactive oxygen species. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2017, vol. 44, no. 3, pp. 329-338., Registrované v: WOS
18. [1.1] ZIMMERMANN, C.E.P. - CRUZ, I.B.M. - CADONA, F.C. - MACHADO, A.K. - ASSMANN, C. - SCHLEMMER, K.B. - ZANETTE, R.A. - LEAL, D.B.R. - SANTURIO, J.M. Cytoprotective and genoprotective effects of beta-glucans against aflatoxin B-1-induced DNA damage in broiler chicken lymphocytes. In TOXICOLOGY IN VITRO. ISSN 0887-2333, APR 2015, vol. 29, no. 3, p. 538-543., Registrované v: WOS
19. [1.2] ALHASNAWI, Arshad Naji - ZAIN, Che Radziah Che Mohd - KADHIMI, Ahsan A. - ISAHAKB, Anizan - MOHAMAD, Azhar - ASHRAF, Mehdi Farshad - YUSOFF, Wan Mohtar Wan. Applications of polysaccharides (β -glucan) for physiological and biochemical parameters for evaluation rice tolerance under salinity stress at seedling stage. In Journal of Crop Science and Biotechnology. ISSN 19759479, 2016-12-01, 19, 5, pp. 353-362., Registrované v: SCOPUS
20. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS
21. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In Bioactive Polysaccharides. (Elsevier, pp. 1-554), Registrované v: SCOPUS

ADCA1157 SLANINOVÁ, I. - ŠESTÁK, Sergej - SVOBODA, A. - FARKAŠ, Vladimír. Cell wall and cytoskeleton reorganization as the response to hyperosmotic shock in *Saccharomyces cerevisiae*. In *Archives of Microbiology*, 2000, vol. 173, p. 245-252. ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s002030000136>

Ohlasy:

1. [1.1] ELHASI, Tarek - BLOMBERG, Anders. Integrins in disguise mechanosensors in *Saccharomyces cerevisiae* as functional integrin analogues. In MICROBIAL CELL. ISSN 2311-2638, 2019, vol. 6, no. 8, pp. 335-355., Registrované v: WOS
2. [1.1] ENE, Iuliana V. - WALKER, Louise A. - SCHIAVONE, Marion - LEE, Keunsook K. - MARTIN-YKEN, Helene - DAGUE, Etienne - GOW, Neil A. R. - MUNRO, Carol A. - BROWN, Alistair J. P. Cell Wall Remodeling Enzymes Modulate Fungal Cell Wall Elasticity and Osmotic Stress Resistance. In MBIO. ISSN 2150-7511, 2015, vol. 6, no. 4, pp., Registrované v: WOS
3. [1.1] GUINEY, Evan L. - GOLDMAN, Aaron R. - ELIAS, Joshua E. - CYERT, Martha S. Calcineurin regulates the yeast synaptojanin Inp53/Sjl3 during membrane stress. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, 2015, vol. 26, no. 4, pp. 769-785., Registrované v: WOS
4. [1.1] JAYASUNDAR, Rama. If systems approach is the way forward, what can the ayurvedic theory of tridosha teach us? In CURRENT SCIENCE. ISSN 0011-3891, 2017, vol. 112, no. 6, pp. 1127-1133., Registrované v: WOS
5. [1.1] JIA, Xiaodong - ZHANG, Xi - HU, Yingsong - HU, Mandong -

- TIAN, Shuguang - HAN, Xuelin - SUN, Yansong - HAN, Li. Role of actin depolymerizing factor cofilin in *Aspergillus fumigatus* oxidative stress response and pathogenesis. In *CURRENT GENETICS*. ISSN 0172-8083, 2018, vol. 64, no. 3, pp. 619-634., Registrované v: WOS
6. [1.1] MARINI, Guendalina - NUESKE, Elisabeth - LENG, Weihua - ALBERTI, Simon - PIGINO, Gaia. Reorganization of budding yeast cytoplasm upon energy depletion. In *MOLECULAR BIOLOGY OF THE CELL*. ISSN 1059-1524, 2020, vol. 31, no. 12, pp. 1232-1245. Dostupné na: <https://doi.org/10.1091/mbc.E20-02-0125>., Registrované v: WOS
7. [1.1] MAZHEIKA, Igor - VORONKO, Oksana - KAMZOLKINA, Olga. Early endocytosis as a key to understanding mechanisms of plasma membrane tension regulation in filamentous fungi. In *BIOLOGY OF THE CELL*. ISSN 0248-4900, 2020, vol. 112, no. 12, pp. 409-426. Dostupné na: <https://doi.org/10.1111/boc.202000066>., Registrované v: WOS
8. [1.1] MUELLERS, Yannik - MEISER, Ina - STRACKE, Frank - RIEMANN, Iris - LAUTENSCHLAEGER, Franziska - NEUBAUER, Julia C. - ZIMMERMANN, Heiko. Quantitative analysis of F-actin alterations in adherent human mesenchymal stem cells: Influence of slow-freezing and vitrification-based cryopreservation. In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 1, pp., Registrované v: WOS
9. [1.1] ODO, G. E. - AGWU, E. J. - OSSAI, N. I. - EZE, C. O. - MADU, J. - ENEJE, V. Effects of Aluminium Phosphide on the Behaviour, Haematology, Oxidative Stress Biomarkers and Biochemistry of African Catfish (*Clarias gariepinus*) Juvenile. In *PAKISTAN JOURNAL OF ZOOLOGY*. ISSN 0030-9923, 2017, vol. 49, no. 2, pp. 433-444., Registrované v: WOS
10. [1.1] ORIGONE, A. C. - DEL MONACO, S. M. - AVILA, J. R. - GONZALEZ FLORES, M. - RODRIGUEZ, M. E. - LOPES, C. A. Tolerance to winemaking stress conditions of Patagonian strains of *Saccharomyces eubayanus* and *Saccharomyces uvarum*. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2017, vol. 123, no. 2, pp. 450-463., Registrované v: WOS
11. [1.1] SEGUINOT, Pauline - ORTIZ-JULIEN, Anne - CAMARASA, Carole. Impact of Nutrient Availability on the Fermentation and Production of Aroma Compounds Under Sequential Inoculation With *M. pulcherrima* and *S. cerevisiae*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00305>., Registrované v: WOS
12. [1.1] SCHMIDT, S. A. - HENSCHKE, P. A. Production, reactivation and nutrient requirements of active dried yeast in winemaking: theory and practice. In *AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH*. ISSN 1322-7130, 2015, vol. 21, no., pp. 651-662., Registrované v: WOS
13. [1.1] SIPICZKI, Matthias. Yeast two- and three-species hybrids and high-sugar fermentation. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7915, 2019, vol. 12, no. 6, pp. 1101-1108., Registrované v: WOS
14. [1.1] VALIAKHMETOV, A. Ya - SHEPELYAKOVSKAYA, A. O. The effects of glucose and sorbitol on pore formation in the plasma membrane of the *saccharomyces cerevisiae* yeast during electroporation. In *Biophysics (Russian Federation)*. ISSN 00063509, 2018-01-01, 63, 1, pp. 59-65., Registrované v: WOS
15. [1.1] ZABLOTSKII, V. - LUNOV, O. - KUBINOVA, S. - POLYAKOVA, T. - SYKOVA, E. - DEJNEKA, A. Effects of high-gradient

magnetic fields on living cell machinery. In JOURNAL OF PHYSICS D-APPLIED PHYSICS. ISSN 0022-3727, 2016, vol. 49, no. 49, pp.,
Registrované v: WOS

- ADCA1158 SLÁVIKOVÁ, Elena - KOŠÍKOVÁ, Božena - MIKULÁŠOVÁ, M.
Biotransformation of waste lignin products by the soil-inhabiting yeast *Trichosporon pullulans*. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 2002, vol. 48, p. 200-203. ISSN 0008-4166. Dostupné na:
<https://doi.org/10.1139/W02-013>
- Ohlasy:
1. [1.1] BRINK, Daniel P. - RAVI, Krithika - LIDEN, Gunnar - GORWA-GRAUSLUND, Marie F. Mapping the diversity of microbial lignin catabolism: experiences from the eLignin database. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 3979-4002., Registrované v: WOS
 2. [1.1] CAVELLO, Ivana - ALBANESI, Agustin - FRATEBIANCHI, Dante - GARMEDIA, Gabriela - VERO, Silvana - CAVALITTO, Sebastian. Pectinolytic yeasts from cold environments: novel findings of *Guehomyces pullulans*, *Cystofilobasidium infirmominiatum* and *Cryptococcus adeliensis* producing pectinases. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 2, pp. 319-329., Registrované v: WOS
 3. [1.1] JOSHI, S. R. - BAREH, Donald - BANERJEE, Aishiki. Soil Microbiota and Sustainable Jhum Agroecosystem. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 57-82., Registrované v: WOS
 4. [1.1] LI WEI-HUA - LIU QI-ZHI. Changes in fungal community and diversity in strawberry rhizosphere soil after 12 years in the greenhouse. In JOURNAL OF INTEGRATIVE AGRICULTURE. ISSN 2095-3119, 2019, vol. 18, no. 3, pp. 677-687., Registrované v: WOS
 5. [1.1] LIU, Zhe - MA, Xuemiao - HE, Nan - ZHANG, Jia - WU, Juan - LIU, Cunshou. Shifts in microbial communities and networks are correlated with the soil ionome in a kiwifruit orchard under different fertilization regimes. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, 2020, vol. 149, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsoil.2020.103517>., Registrované v: WOS
 6. [1.1] LIU, Zhuxiu - LIU, Junjie - YU, Zhenhua - YAO, Qin - LI, Yansheng - LIANG, Aizhen - ZHANG, Wu - MI, Gang - JIN, Jian - LIU, Xiaobing - WANG, Guanghua. Long-term continuous cropping of soybean is comparable to crop rotation in mediating microbial abundance, diversity and community composition. In SOIL & TILLAGE RESEARCH. ISSN 0167-1987, 2020, vol. 197, no., pp. Dostupné na: <https://doi.org/10.1016/j.still.2019.104503>., Registrované v: WOS
 7. [1.1] MARTINEZ, A. - CAVELLO, I. - GARMENDIA, G. - RUFO, C. - CAVALITTO, S. - VERO, S. Yeasts from sub-Antarctic region: biodiversity, enzymatic activities and their potential as oleaginous microorganisms. In EXTREMOPHILES. ISSN 1431-0651, 2016, vol. 20, no. 5, pp. 759-769., Registrované v: WOS
 8. [1.1] MOHAMED, H. M. Effect of Arbuscular Mycorrhizal Fungus (*Glomus Mosseae*) and Soil Yeasts Interaction on Root Nodulation, N-Fixation

and Growth of Faba Bean (*Vicia faba*). In MALAYSIAN JOURNAL OF SOIL SCIENCE. ISSN 1394-7990, 2015, vol. 19, no., pp. 157-168., Registrované v: WOS

9. [1.1] YANG, Fenghuan - ZHANG, Jie - ZHANG, Huaying - JI, Guanghai - ZENG, Liexian - LI, Yan - YU, Chao - FERNANDO, W. G. Dilantha - CHEN, Wen. Bacterial Blight Induced Shifts in Endophytic Microbiome of Rice Leaves and the Enrichment of Specific Bacterial Strains With Pathogen Antagonism. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00963>., Registrované v: WOS

10. [1.1] YANG, Yang - DOU, Yanxing - HUANG, Yimei - AN, Shaoshan. Links between Soil Fungal Diversity and Plant and Soil Properties on the Loess Plateau. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

11. [1.1] YAO, Qin - LIU, Junjie - YU, Zhenhua - LI, Yansheng - JIN, Jian - LIU, Xiaobing - WANG, Guanghua. Three years of biochar amendment alters soil physiochemical properties and fungal community composition in a black soil of northeast China. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2017, vol. 110, no., pp. 56-67., Registrované v: WOS

12. [1.1] ZHANG, Huaying - CHEN, Wen - ZHAO, Baoping - PHILLIPS, Lori A. - ZHOU, Yi - LAPEN, David R. - LIU, Jinghui. Sandy soils amended with bentonite induced changes in soil microbiota and fungistasis in maize fields. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsoil.2019.103378>., Registrované v: WOS

ADCA1159 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Effects of pesticides on yeasts isolated from agricultural soil. In *Zeitschrift für Naturforschung C*, 2003, vol. 58, p. 855-859.

Ohlasy:

1. [1.1] ERGUVEN, Gokhan Onder - YILDIRIM, Numan - ADAR, Elanur. The ability of *Phanerochaete chrysosporium* (ME446) on chemical oxygen demand remediation in submerged culture medium supplemented with malathion insecticide. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2017, vol. 94, no., pp. 231-235., Registrované v: WOS

2. [1.1] GRANGETEAU, Cedric - ROULLIER-GALL, Chloe - ROUSSEAU, Sandrine - GOUGEON, Regis D. - SCHMITT-KOPPLIN, Philippe - ALEXANDRE, Herve - GUILLOUX-BENATIER, Michele. Wine microbiology is driven by vineyard and winery anthropogenic factors. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, 2017, vol. 10, no. 2, pp. 354-370., Registrované v: WOS

3. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

4. [1.1] YILDIRIM, N. - ERGUVEN, G. O. - ADAR, E. The chemical and biochemical oxygen demand reduction by *Armillaria tabescens* in malathion supplemented culture medium. In GLOBAL NEST JOURNAL. ISSN

1790-7632, 2018, vol. 20, no. 3, pp. 529-533., Registrované v: WOS
5. [1.2] SAHOO, Subhas - SINDHU, K. N. - SREEVEENA, K. The significance of 1, 2, 4 triazoles in agriculture science: a review. In *Research Journal of Pharmacy and Technology*. ISSN 09743618, 2019-10-01, 12, 10, pp. 5091-5097., Registrované v: SCOPUS

ADCA1160 SLÁVIKOVÁ, Elena - KOŠÍKOVÁ, Božena. Modification of lignin by *Geotrichum klebahnii*. In *World Journal of Microbiology & Biotechnology*, 2001, vol. 17, no. 1, p. 1-3. (2000: 0.530 - IF, Q3 - JCR, 0.345 - SJR, Q2 - SJR, Current Contents - CCC). (2001 - Current Contents). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1023/A:1016634322489>

Ohlasy:

1. [1.1] BARAPATRE, Anand - JHA, Harit. Degradation of alkali lignin by two ascomycetes and free radical scavenging activity of the products. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2017, vol. 35, no. 4, pp. 269-286., Registrované v: WOS
2. [1.1] BRINK, Daniel P. - RAVI, Krithika - LIDEN, Gunnar - GORWA-GRAUSLUND, Marie F. Mapping the diversity of microbial lignin catabolism: experiences from the eLignin database. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 3979-4002., Registrované v: WOS

ADCA1161 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Seasonal occurrence of yeasts and yeast-like organisms in the river Danube. In *Antonie van Leeuwenhoek*, 1997, vol. 72, p. 77-80. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1023/A:1000287005253>

Ohlasy:

1. [1.1] BRILHANTE, Raimunda S. N. - PAIVA, Manoel A. N. - SAMPAIO, Celia M. S. - CASTELO-BRANCO, Debora S. C. M. - ALENCAR, Lucas P. - BANDEIRA, Tereza J. P. G. - CORDEIRO, Rossana A. - PEREIRA NETO, Waldemiro de Aquino - MOREIRA, Jose L. B. - SIDRIM, Jose J. C. - ROCHA, Marcos F. G. Surveillance of Azole Resistance Among *Candida* spp. as a Strategy for the Indirect Monitoring of Freshwater Environments. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2015, vol. 226, no. 3, pp., Registrované v: WOS
2. [1.1] FOTEDAR, Rashmi - FELL, Jack W. - BOEKHOUT, Teun - KOLECKA, Anna - ZEYARA, Aisha - KAUL, Ridhima - AL-MALKI, Amina - AL MARRI, Masoud. *Cystobasidium halotolerans* sp. nov., a novel basidiomycetous yeast species isolated from the Arabian Gulf. In *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*. ISSN 1466-5026, 2019, vol. 69, no. 3, pp. 839-845., Registrované v: WOS
3. [1.1] LENGELER, Klaus B. - STOVICEK, Vratislav - FENNESSY, Ross T. - KATZ, Michael - FORSTER, Jochen. Never Change a Brewing Yeast? Why Not, There Are Plenty to Choose From. In *FRONTIERS IN GENETICS*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.582789>., Registrované v: WOS
4. [1.1] MONAPATHI, Mzimkhulu Ephraim - BEZUIDENHOUT, Carlos Cornelius - RHODE, Owen Howard James. Aquatic yeasts: diversity, characteristics and potential health implications. In *JOURNAL OF WATER*

AND HEALTH. ISSN 1477-8920, 2020, vol. 18, no. 2, pp. 91-105. Dostupné na: <https://doi.org/10.2166/wh.2020.270.>, Registrované v: WOS

5. [1.1] YURKOV, A. M. - KACHALKIN, A. V. - DANIEL, H. M. - GROENEWALD, M. - LIBKIND, D. - DE GARCIA, V. - ZALAR, P. - GOULIAMOVA, D. E. - BOEKHOUT, T. - BEGEROW, D. Two yeast species *Cystobasidium psychroaquaticum* f.a. sp nov and *Cystobasidium rietchiei* f.a. sp nov isolated from natural environments, and the transfer of *Rhodotorula minuta* clade members to the genus *Cystobasidium*. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2015, vol. 107, no. 1, pp. 173-185., Registrované v: WOS

6. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta - ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS

ADCA1162 SLÁVIKOVÁ, Elena - GRABINSKA-LONIEWSKA, A.

Sporobolomyces lactosus, a new species of ballistosporous yeast equipped with ubiquinone-10. In *Antonie van Leeuwenhoek*, 1992, vol. 61, p. 245-248. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1007/BF00584231>

Ohlasy:

1. [1.1] BARAL, H. O. - WEBER, E. - MARSON, G. - QUIJADA, L. A new connection between wood saprobism and beetle endosymbiosis: the rarely reported saprobic discomycete *Tromeropsis* is congeneric with the symbiotic yeast *Symbiotaphrina* (Symbiotaphrinales, Xylonomycetes) and two asexual morphs misplaced in *Hyphozyma*. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2018, vol. 17, no. 1-2, pp. 215-254., Registrované v: WOS

ADCA1163 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. The occurrence of yeasts in the forest soils. In *Journal of Basic Microbiology*, 2000, vol. 40, p. 207-212. ISSN 0233-111X. Dostupné na:

[https://doi.org/10.1002/1521-4028\(200007\)40:3<207::AID-JOBM207>3.0.CO;2-H](https://doi.org/10.1002/1521-4028(200007)40:3<207::AID-JOBM207>3.0.CO;2-H)

Ohlasy:

1. [1.1] CUTLER, Nick A. - ARRONIZ-CRESPO, Maria - STREET, Lorna E. - JONES, David L. - CHAPUT, Dominique L. - DELUCA, Thomas H. Long-Term Recovery of Microbial Communities in the Boreal Bryosphere Following Fire Disturbance. In MICROBIAL ECOLOGY. ISSN 0095-3628, 2017, vol. 73, no. 1, pp. 75-90., Registrované v: WOS

2. [1.1] DIAZ, Paola E. - ARANDA, Camila - MARTINEZ, Oscar - GODOY, Roberto - GONZALES, Aldo - VALENZUELA, Eduardo. Characterization of yeast in hapludands soil with biotechnological potential. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9516, 2017, vol. 17, no. 4, pp. 948-965., Registrované v: WOS

3. [1.1] GLUSHAKOVA, A. M. - KACHALKIN, A. V. - TIUNOV, A. V. - CHERNOV, I. Yu. Distribution of Yeast Complexes in the Profiles of Different Soil Types. In EURASIAN SOIL SCIENCE. ISSN 1064-2293, 2017, vol. 50, no. 7, pp. 820-825., Registrované v: WOS

4. [1.1] GROENEWALD, Marizeth - LOMBARD, Lorenzo - DE VRIES, Michel - LOPEZ, Alejandra Giraldo - SMITH, Maudy - CROUS, Pedro W. Diversity of yeast species from Dutch garden soil and the description of six novel Ascomycetes. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2018, vol.

18, no. 7, pp., Registrované v: WOS

5. [1.1] MASINOVA, Tereza - BAHNMANN, Barbara Doreen - VETROVSKY, Tomas - TOMSOVSKY, Michal - MERUNKOVA, Kristina - BALDRIAN, Petr. Drivers of yeast community composition in the litter and soil of a temperate forest. In FEMS MICROBIOLOGY ECOLOGY. ISSN 0168-6496, 2017, vol. 93, no. 2, pp., Registrované v: WOS

6. [1.1] MASINOVA, Tereza - YURKOV, Andrey - BALDRIAN, Petr. Forest soil yeasts: Decomposition potential and the utilization of carbon sources. In FUNGAL ECOLOGY. ISSN 1754-5048, 2018, vol. 34, no., pp. 10-19., Registrované v: WOS

7. [1.1] MOKHTARNEJAD, Lachin - ARZANLOU, Mahdi - BABAI-AHARI, Asadollah - DI MAURO, Simone - ONOFRI, Andrea - BUZZINI, Pietro - TURCHETTI, Benedetta. Characterization of basidiomycetous yeasts in hypersaline soils of the Urmia Lake National Park, Iran. In EXTREMOPHILES. ISSN 1431-0651, 2016, vol. 20, no. 6, pp. 915-928., Registrované v: WOS

8. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Occurrence of Yeast Species in Soils under Native and Modified Vegetation in an Iron Mining Area. In REVISTA BRASILEIRA DE CIENCIA DO SOLO. ISSN 0100-0683, 2018, vol. 42, no., pp., Registrované v: WOS

9. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Soil Yeast Communities in Revegetated Post-Mining and Adjacent Native Areas in Central Brazil. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081116>., Registrované v: WOS

10. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MANGARAVITE, Erica - VIEIRA, Nivea Moreira - DA SILVEIRA, Fernando Augusto - DA SILVEIRA, Wendel Batista - MARTINS DO VALE, Helson Mario. Yeast species and strains differing along an altitudinal gradient in the Brazilian forest domain. In REVISTA BRASILEIRA DE CIENCIA DO SOLO. ISSN 0100-0683, 2020, vol. 44, no., pp. Dostupné na: <https://doi.org/10.36783/18069657rbcs20200033>., Registrované v: WOS

11. [1.1] PONTES, Ana - ROEHL, Oliver - CARVALHO, Claudia - MALDONADO, Cristina - YURKOV, Andrey M. - SAMPAIO, Jose Paulo. Cystofilobasidium intermedium sp nov and Cystofilobasidium alribaticum f. a. sp nov., isolated from Mediterranean forest soils. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2016, vol. 66, no., pp. 1058-1062., Registrované v: WOS

12. [1.1] YURKOV, Andrey M. Yeasts of the soil obscure but precious. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS

13. [1.1] YURKOV, Andrey M. - ROEHL, Oliver - PONTES, Ana - CARVALHO, Claudia - MALDONADO, Cristina - SAMPAIO, Jose Paulo. Local climatic conditions constrain soil yeast diversity patterns in Mediterranean forests, woodlands and scrub biome. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2016, vol. 16, no. 1, pp., Registrované v: WOS

14. [1.2] BEGEROW, Dominik - KEMLER, Martin - FEIGE, Anja - YURKOV, Andrey. Parasitism in yeasts. In Yeasts in Natural Ecosystems: Ecology, 2017-01-01, pp. 179-210., Registrované v: SCOPUS

15. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta - ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS
16. [1.2] YURKOV, Andrey M. - RÖHL, Oliver - PONTES, Ana - CARVALHO, Cláudia - MALDONADO, Cristina - SAMPAIO, José Paulo. Local climatic conditions constrain soil yeast diversity patterns in mediterranean forests, woodlands and scrub biome. In *FEMS Yeast Research*. ISSN 15671356, 2015-12-20, 16, 1, pp., Registrované v: SCOPUS
17. [1.2] YURKOV, Andrey - POZO, María I. Yeast community composition and structure. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 73-100., Registrované v: SCOPUS
18. [1.2] YURKOV, Andrey. Temporal and geographic patterns in yeast distribution. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 101-130., Registrované v: SCOPUS
19. [1.2] YURKOV, Andrey. Yeasts in forest soils. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 87-116., Registrované v: SCOPUS
20. [3.1] Jamali, S., Gharaei, M., & Abbasi, S. (2016). Identification of yeast species from uncultivated soils by sequence analysis of the hypervariable D1/D2 domain of LSU-rDNA gene in Kermanshah province, Iran. *Mycologia Iranica*, 3(2), 87-98
21. [3.2] MOKHTARNEJAD, L.; ARZANLOU, M.; BABAI-AHARI, A.; TURCHETTI, B. Molecular identification of basidiomycetous yeasts from soils in Iran. IN *Rostaniha*, 2015, vol. 16, iss. 1, p. 61-80., Registrované v: BIOSIS Citation Index

ADCA1164 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, D. Yeasts colonizing the leaf surfaces. In *Journal of Basic Microbiology*, 2007, vol.47, p.344-350. (2006: 0.722 - IF, Q4 - JCR, 0.364 - SJR, Q2 - SJR). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.200710310>

Ohlasy:

1. [1.1] BECKER, Regina - ULRICH, Kristina - BEHRENDT, Undine - KUBE, Michael - ULRICH, Andreas. Analyzing Ash Leaf-Colonizing Fungal Communities for Their Biological Control of *Hymenoscyphus fraxineus*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.590944>., Registrované v: WOS
2. [1.1] CORBETT, Kereng M. - DE SMIDT, Olga. Culture-dependent diversity profiling of spoilage yeasts species by PCR-RFLP comparative analysis. In *FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL*. ISSN 1082-0132, 2019, vol. 25, no. 8, pp. 671-679., Registrované v: WOS
3. [1.1] CROSS, Hugh - SONSTEBO, Jorn Henrik - NAGY, Nina E. - TIMMERMAN, Volkmar - SOLHEIM, Halvor - BORJA, Isabella - KAUSERUD, Havard - CARLSEN, Tor - RZEPKA, Barbara - WASAK, Katarzyna - VIVIAN-SMITH, Adam - HIETALA, Ari M. Fungal diversity and seasonal succession in ash leaves infected by the invasive ascomycete *Hymenoscyphus fraxineus*. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 3, pp. 1405-1417., Registrované v: WOS
4. [1.1] DORADO-MORALES, Pedro - VILANOVA, Cristina - PERETO, Juli - CODONER, Francisco M. - RAMON, Daniel - PORCAR, Manuel. A highly diverse, desert-like microbial biocenosis on solar panels in a Mediterranean city. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2016, vol. 6,

no., pp., Registrované v: WOS

5. [1.1] FREIMOSER, Florian M. - RUEDA-MEJIA, Maria Paula - TILOCCA, Bruno - MIGHELI, Quirico. Biocontrol yeasts: mechanisms and applications. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 10, pp., Registrované v: WOS

6. [1.1] GORE-LLOYD, Deborah - SUMANN, Ines - BRACHMANN, Alexander O. - SCHNEEBERGER, Kerstin - ORTIZ-MERINO, Raul A. - MORENO-BELTRAN, Mauro - SCHLAFTI, Michael - KIRNER, Pascal - KRON, Amanda Santos - RUEDA-MEJIA, Maria Paula - SOMERVILLE, Vincent - WOLFE, Kenneth H. - PIEL, Jam - AHRENS, Christian H. - HENK, Daniel - FREIMOSER, Florian M. Snf2 controls pulcherriminic acid biosynthesis and antifungal activity of the biocontrol yeast *Metschnikowia pulcherrima*. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2019, vol. 112, no. 1, pp. 317-332., Registrované v: WOS

7. [1.1] GROSS, Simon - KUNZ, Liesa - MUELLER, Denise C. - KRON, Amanda Santos - FREIMOSER, Florian M. Characterization of antagonistic yeasts for biocontrol applications on apples or in soil by quantitative analyses of synthetic yeast communities. In *YEAST*. ISSN 0749-503X, 2018, vol. 35, no. 10, pp. 559-566., Registrované v: WOS

8. [1.1] KORICHA, Anbessa Dabassa - HAN, Da-Yong - BACHA, Ketema - BAI, Feng-Yan. Occurrence and Molecular Identification of Wild Yeasts from Jimma Zone, South West Ethiopia. In *MICROORGANISMS*, 2019, vol. 7, no. 12, pp., Registrované v: WOS

9. [1.1] KOWALLIK, Vienna - GREIG, Duncan. A systematic forest survey showing an association of *Saccharomyces paradoxus* with oak leaf litter. In *ENVIRONMENTAL MICROBIOLOGY REPORTS*. ISSN 1758-2229, 2016, vol. 8, no. 5, pp. 833-841., Registrované v: WOS

10. [1.1] LIMTONG, Savitree - KAEWWICHIAN, Rungluk. The diversity of culturable yeasts in the phylloplane of rice in Thailand. In *ANNALS OF MICROBIOLOGY*. ISSN 1590-4261, 2015, vol. 65, no. 2, pp. 667-675., Registrované v: WOS

11. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

12. [1.1] NASANIT, Rujikan - KRATAITHONG, Kultara - TANTIRUNGKIJ, Manee - LIMTONG, Savitree. Assessment of epiphytic yeast diversity in rice (*Oryza sativa*) phyllosphere in Thailand by a culture-independent approach. In *ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY*. ISSN 0003-6072, 2015, vol. 107, no. 6, pp. 1475-1490., Registrované v: WOS

13. [1.1] NASANIT, Rujikan - TANGWONG-O-THAI, Apirat - TANTIRUNGKIJ, Manee - LIMTONG, Savitree. The assessment of epiphytic yeast diversity in sugarcane phyllosphere in Thailand by culture-independent method. In *FUNGAL BIOLOGY*. ISSN 1878-6146, 2015, vol. 119, no. 12, pp. 1145-1157., Registrované v: WOS

14. [1.1] ORO, Lucia - CIANI, Maurizio - COMITINI, Francesca. Yeasts

- From Xerophilic Environments Reveal Antimicrobial Action Against Fruit Pathogenic Molds. In JOURNAL OF FOOD SAFETY. ISSN 0149-6085, 2016, vol. 36, no. 1, pp. 100-108., Registrované v: WOS
15. [1.1] PRETSCHER, Julia - FISCHKAL, Tilman - BRANSCHIEDT, Sina - JAEGER, Lucas - KAHL, Susann - SCHLANDER, Martina - THINES, Eckhard - CLAUS, Harald. Yeasts from Different Habitats and Their Potential as Biocontrol Agents. In FERMENTATION-BASEL, 2018, vol. 4, no. 2, pp., Registrované v: WOS
16. [1.1] RAMOS-GARZA, Juan - BUSTAMANTE-BRITO, Rafael - ANGELES DE PAZ, Gabriela - GABRIELA MEDINA-CANALES, Ma. - SOLEDAD VASQUEZ-MURRIETA, Maria - TAO WANG, En - VERONICA RODRIGUEZ-TOVAR, Aida. Isolation and characterization of yeasts associated with plants growing in heavy-metal- and arsenic-contaminated soils. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2016, vol. 62, no. 4, pp. 307-319., Registrované v: WOS
17. [1.1] ROBINSON, Heather A. - PINHARANDA, Ana - BENSASSON, Douda. Summer temperature can predict the distribution of wild yeast populations. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, 2016, vol. 6, no. 4, pp. 1236-1250., Registrované v: WOS
18. [1.1] SORIANO, Keylee - CLAVIJO-MCCORMICK, Andrea. Volatile emissions of six New Zealand fern species in response to physical damage and herbivory. In NEW ZEALAND JOURNAL OF ECOLOGY. ISSN 0110-6465, 2020, vol. 44, no. 1, pp. Dostupné na: <https://doi.org/10.20417/nzjecol.44.5.>, Registrované v: WOS
19. [1.1] WOJCIK, Anna - BLASZKOWSKA, Joanna - KURNATOWSKI, Piotr - GORALSKA, Katarzyna. Sandpits as a reservoir of potentially pathogenic fungi for children. In ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE. ISSN 1232-1966, 2016, vol. 23, no. 4, pp. 542-548., Registrované v: WOS
20. [1.1] YANG, Qingxiang - WANG, Ruifei - XU, Yuanyuan - KANG, Chunxiao - MIAO, Ying - LI, Mingjun. Dynamic change of the rhizosphere microbial community in response to growth stages of consecutively monocultured *Rehmannia glutinosa*. In BIOLOGIA. ISSN 0006-3088, 2016, vol. 71, no. 12, pp. 1320-1329., Registrované v: WOS
21. [1.2] LIMTONG, Savitree - NASANIT, Rujikan. Phylloplane yeasts in tropical climates. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 199-223., Registrované v: SCOPUS

ADCA1165 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, Dana. Yeasts colonizing the leaves of fruit trees. Dana Vránová. In *Annals of Microbiology*, 2009, vol.53, no.3., pp.419-424. Dostupné na: <https://doi.org/10.1007/BF03175125>

Ohlasy:

1. [1.1] ALBERTIN, Warren - SETATI, Mathabatha E. - MIOT-SERTIER, Cecile - MOSTERT, Talitha T. - COLONNA-CECCALDI, Benoit - COULON, Joana - GIRARD, Patrick - MOINE, Virginie - PILLET, Myriam - SALIN, Franck - BELY, Marina - DIVOL, Benoit - MASNEUF-POMAREDE, Isabelle. Hanseniaspora uvarum from Winemaking Environments Show Spatial and Temporal Genetic Clustering. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 6, no., pp., Registrované v:

WOS

2. [1.1] CIANI, Maurizio - CANONICO, Laura - ORO, Lucia - COMITINI, Francesca. FOOTPRINT OF NONCONVENTIONAL YEASTS AND THEIR CONTRIBUTION IN ALCOHOLIC FERMENTATIONS. In BIOTECHNOLOGICAL PROGRESS AND BEVERAGE CONSUMPTION, 2020, vol. 19, no., pp. 435-465., Registrované v: WOS
3. [1.1] CORADETTI, Samuel T. - PINEL, Dominic - GEISELMAN, Gina M. - ITO, Masakazu - MONDO, Stephen J. - REILLY, Morgann C. - CHENG, Ya-Fang - BAUER, Stefan - GRIGORIEV, Igor V. - GLADDEN, John M. - SIMMONS, Blake A. - BREM, Rachel B. - ARKIN, Adam P. - SKERKER, Jeffrey M. Functional genomics of lipid metabolism in the oleaginous yeast *Rhodospiridium toruloides*. In ELIFE. ISSN 2050-084X, 2018, vol. 7, no., pp., Registrované v: WOS
4. [1.1] GIACOMUZZI, Valentino - MATTHEIS, James P. - BASOALTO, Esteban - ANGELI, Sergio - KNIGHT, Alan L. Survey of conspecific herbivore-induced volatiles from apple as possible attractants for *Pandemis pyrusana* (Lepidoptera: Tortricidae). In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2017, vol. 73, no. 9, pp. 1837-1845., Registrované v: WOS
5. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS
6. [1.1] INTO, Parichat - PONTES, Ana - SAMPAIO, Jose Paulo - LIMTONG, Savitree. Yeast Diversity Associated with the Phylloplane of Corn Plants Cultivated in Thailand. In MICROORGANISMS, 2020, vol. 8, no. 1, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8010080>., Registrované v: WOS
7. [1.1] KAEWWICHIAN, Rungluk - JINDAMORAKOT, Sasitorn - AM-IN, Somjit - SIPICZKI, Matthias - LIMTONG, Savitree. *Hannaella siamensis* sp nov and *Hannaella phetchabunensis* sp nov., two new anamorphic basidiomycetous yeast species isolated from plants. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2015, vol. 65, no., pp. 1297-1303., Registrované v: WOS
8. [1.1] KHUNNAMWONG, Pannida - JINDAMORAKOT, Sasitorn - LIMTONG, Savitree. Endophytic yeast diversity in leaf tissue of rice, corn and sugarcane cultivated in Thailand assessed by a culture-dependent approach. In FUNGAL BIOLOGY. ISSN 1878-6146, 2018, vol. 122, no. 8, pp. 785-799., Registrované v: WOS
9. [1.1] LIMTONG, Savitree - KAEWWICHIAN, Rungluk. The diversity of culturable yeasts in the phylloplane of rice in Thailand. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2015, vol. 65, no. 2, pp. 667-675., Registrované v: WOS
10. [1.1] LIMTONG, Savitree - POLBUREE, Pirapan - CHAMNANPA, Thunnicha - KHUNNAMWONG, Pannida - LIMTONG, Pitayakon. *Meira siamensis* sp nov., a novel anamorphic ustilaginomycetous yeast species isolated from the vetiver grass phylloplane. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026,

- 2017, vol. 67, no. 7, pp. 2418-2422., Registrované v: WOS
11. [1.1] NASANIT, Rujikan - JAIBANGYANG, Sopin - TANTIRUNGKIJ, Manee - LIMTONG, Savitree. Yeast diversity and novel yeast D1/D2 sequences from corn phylloplane obtained by a culture-independent approach. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2016, vol. 109, no. 12, pp. 1615-1634., Registrované v: WOS
12. [1.1] NASANIT, Rujikan - TANGWONG-O-THAI, Apirat - TANTIRUNGKIJ, Manee - LIMTONG, Savitree. The assessment of epiphytic yeast diversity in sugarcane phyllosphere in Thailand by culture-independent method. In FUNGAL BIOLOGY. ISSN 1878-6146, 2015, vol. 119, no. 12, pp. 1145-1157., Registrované v: WOS
13. [1.1] SRISUK, N. - NUTARATAT, P. - SURUSSAWADEE, J. - LIMTONG, S. Yeast Communities in Sugarcane Phylloplane. In MICROBIOLOGY. ISSN 0026-2617, 2019, vol. 88, no. 3, pp. 353-369., Registrované v: WOS
14. [1.1] SUKMAWATI, Dalia - OETARI, Ariyanti - HENDRAYANTI, Dian - ATRIA, Mega - SJAMSURIDZAL, Wellyzar. Identification of phylloplane yeasts from paper mulberry (*Broussonetia papyrifera* (L.) L'Her. ex Vent.) in Java, Indonesia. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2015, vol. 11, no. 4, pp. 324-339., Registrované v: WOS
15. [1.1] WANG, Kai - SIPILA, Timo P. - OVERMYER, Kirk. The isolation and characterization of resident yeasts from the phylloplane of *Arabidopsis thaliana*. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
16. [1.2] DESHPANDE, Mukund V. - MANE, Sarika S. - GHORMADE, Vandana - TUPE, Santosh G. Diversity of natural yeast flora of grapes and its significance in wine making. In Yeast Diversity in Human Welfare, 2017-05-13, pp. 1-27., Registrované v: SCOPUS

ADCA1166 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - KOCKOVÁ-KRATOCHVÍLOVÁ, A. Yeasts isolated from artificial lake waters. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 1992, vol. 38, p. 1206-1209. ISSN 0008-4166.

Ohlasy:

1. [1.1] BRILHANTE, Raimunda S. N. - PAIVA, Manoel A. N. - SAMPAIO, Celia M. S. - CASTELO-BRANCO, Debora S. C. M. - ALENCAR, Lucas P. - BANDEIRA, Tereza J. P. G. - CORDEIRO, Rossana A. - PEREIRA NETO, Waldemiro de Aquino - MOREIRA, Jose L. B. - SIDRIM, Jose J. C. - ROCHA, Marcos F. G. Surveillance of Azole Resistance Among *Candida* spp. as a Strategy for the Indirect Monitoring of Freshwater Environments. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2015, vol. 226, no. 3, pp., Registrované v: WOS
2. [1.1] MONAPATHI, Mzimkhulu Ephraim - BEZUIDENHOUT, Carlos Cornelius - RHODE, Owen Howard James. Aquatic yeasts: diversity, characteristics and potential health implications. In JOURNAL OF WATER AND HEALTH. ISSN 1477-8920, 2020, vol. 18, no. 2, pp. 91-105. Dostupné na: <https://doi.org/10.2166/wh.2020.270>., Registrované v: WOS
3. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta

- ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS

ADCA1167 SLOVAKOVA, L. - LIŠKOVÁ, Desana - CAPEK, Peter - KUBAČKOVÁ, M. - KÁKONIOVÁ, Daniela - KARACSONYI, S.. Defence responses against TNV infection induced by galactoglucomannan-derived oligosaccharides in cucumber cells. In *European Journal of Plant Pathology*. ISSN 0929-1873. Dostupné na: <https://doi.org/10.1023/A:1008722318178>

Ohlasy:

1. [1.1] BOUTROT, Freddy - ZIPFEL, Cyril. Function, Discovery, and Exploitation of Plant Pattern Recognition Receptors for Broad-Spectrum Disease Resistance. In *ANNUAL REVIEW OF PHYTOPATHOLOGY*, VOL 55. ISSN 0066-4286, 2017, vol. 55, no., pp. 257-286., Registrované v: WOS
2. [1.2] MOENNE, Alejandra. Marine algae oligo-carrageenans (OCs) stimulate growth and defense responses in terrestrial plants. In *Research Progress in Oligosaccharins*, 2016-01-01, pp. 41-49., Registrované v: SCOPUS

ADCA1168 SLUSNA, Lenka** - HAIZER, Ludovit - JÁNÉ, Eduard - BONDAREV, Dmitrij - SZOCS, Vojtech - DRZIK, Milan - NOSKOVICOVA, Eva - LORENC, Dusan - VELIC, Dusan. Linear and multi-photon fluorescence of tiophene based copolymer with electron-accepting side chains. In *Journal of Fluorescence*, 2018, vol. 28, no. 6, p. 1333-1340. (2017: 1.665 - IF, Q3 - JCR, 0.391 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1053-0509. Dostupné na: <https://doi.org/10.1007/s10895-018-2295-3>

Ohlasy:

1. [1.1] ZAREBA, J.K. - NYK, M. - SAMOC, M. Nonlinear Optical Pigments. Two-Photon Absorption in Crosslinked Conjugated Polymers and Prospects for Remote Nonlinear Optical Thermometry. In *POLYMERS*. AUG 2020, vol. 12, no. 8., Registrované v: WOS

ADCA1169 SMITH, W.Stevenson - TOMASEC, P. - AICHELER, R. - LOEWENDORF, A. - NEMČOVIČOVÁ, Ivana - WANG, E.C. - STANTON, R.J. - MACAULEY, M. - WILLEN, L. - RUCKOVA, E. - NOMOTO, A. - SCHNEIDER, P. - HAHN, G. - ZAJONC, D.M. - WARE, C.F. - WILKINSON, G.W. - BENEDICT, C.A. Human cytomegalovirus glycoprotein UL141 targets the TRAIL death receptors to thwart host innate antiviral defenses. In *Cell Host & Microbe*, 2013, vol. 13, no. 3, p. 324-335. (2012: 12.609 - IF, Q1 - JCR, 7.668 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1931-3128. Dostupné na: <https://doi.org/10.1016/j.chom.2013.02.003>

Ohlasy:

1. [1.1] BERRY, R. - WATSON, G.M. - JONJIC, S. - DEGLI-ESPOSTI, M.A. - ROSSJOHN, J. Modulation of innate and adaptive immunity by cytomegaloviruses. In *NATURE REVIEWS IMMUNOLOGY*. ISSN 1474-1733, FEB 2020, vol. 20, no. 2, p. 113-127., Registrované v: WOS
2. [1.1] BRUNE, W. - ANDONIOU, C.E. Die Another Day: Inhibition of Cell Death Pathways by Cytomegalovirus. In *VIRUSES-BASEL*. ISSN 1999-4915, SEP 2017, vol. 9, no. 9., Registrované v: WOS
3. [1.1] BURWITZ, B.J. - MALOULI, D. - BIMBER, B.N. - REED, J.S. - VENTURA, A.B. - HANCOCK, M.H. - UEBELHOER, L.S. - BHUSARI, A. - HAMMOND, K.B. - TRETHEWY, R.G.E. - KLUG, A. - LEGASSE, A.W. -

- AXTHELM, M.K. - NELSON, J.A. - PARK, B.S. - STREBLOW, D.N. - HANSEN, S.G. - PICKER, L.J. - FRUH, K. - SACHA, J.B. Cross-Species Rhesus Cytomegalovirus Infection of Cynomolgus Macaques. In PLOS PATHOGENS. ISSN 1553-7366, NOV 2016, vol. 12, no. 11., Registrované v: WOS
4. [1.1] CLEMENT, M. - HUMPHREYS, I.R. Cytokine-Mediated Induction and Regulation of Tissue Damage During Cytomegalovirus Infection. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, JAN 29 2019, vol. 10., Registrované v: WOS
5. [1.1] CROW, M.S. - LUM, K.K. - SHENG, X.L. - SONG, B.K. - CRISTEA, I.M. Diverse mechanisms evolved by DNA viruses to inhibit early host defenses. In CRITICAL REVIEWS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 1040-9238, NOV-DEC 2016, vol. 51, no. 6, p. 452-481., Registrované v: WOS
6. [1.1] CRUZ, L. - BUCHKOVICH, N.J. Rerouting the traffic from a virus perspective. In FRONTIERS IN BIOSCIENCE-LANDMARK. ISSN 1093-9946, JUN 1 2017, vol. 22, p. 1845-1866., Registrované v: WOS
7. [1.1] DE PELSMAEKER, S. - ROMERO, N. - VITALE, M. - FAVOREEL, H.W. Herpesvirus Evasion of Natural Killer Cells. In JOURNAL OF VIROLOGY. ISSN 0022-538X, JUN 2018, vol. 92, no. 11., Registrované v: WOS
8. [1.1] DELL'OSTE, V. - BIOLATTI, M. - GALITSKA, G. - GRIFFANTE, G. - GUGLIESI, F. - PASQUERO, S. - ZINGONI, A. - CERBONI, C. - DE ANDREA, M. Tuning the Orchestra: HCMV vs. Innate Immunity. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, APR 15 2020, vol. 11., Registrované v: WOS
9. [1.1] FREEMAN, M.L. - LEDERMAN, M.M. - GIANELLA, S. Partners in Crime: The Role of CMV in Immune Dysregulation and Clinical Outcome During HIV Infection. In CURRENT HIV/AIDS REPORTS. ISSN 1548-3568, FEB 2016, vol. 13, no. 1, p. 10-19., Registrované v: WOS
10. [1.1] GOODIER, M.R. - JONJIC, S. - RILEY, E.M. - LISNIC, V.J. CMV and natural killer cells: shaping the response to vaccination. In EUROPEAN JOURNAL OF IMMUNOLOGY. ISSN 0014-2980, JAN 2018, vol. 48, no. 1, p. 50-65., Registrované v: WOS
11. [1.1] GOODRUM, F. Human Cytomegalovirus Latency: Approaching the Gordian Knot. In ANNUAL REVIEW OF VIROLOGY, VOL 3. ISSN 2327-056X, 2016, vol. 3, p. 333-357., Registrované v: WOS
12. [1.1] GRAUWET, K. - VITALE, M. - DE PELSMAEKER, S. - JACOB, T. - LAVAL, K. - MORETTA, L. - PARODI, M. - PAROLINI, S. - CANTONI, C. - FAVOREEL, H.W. Pseudorabies Virus US3 Protein Kinase Protects Infected Cells from NK Cell-Mediated Lysis via Increased Binding of the Inhibitory NK Cell Receptor CD300a. In JOURNAL OF VIROLOGY. ISSN 0022-538X, FEB 2016, vol. 90, no. 3, p. 1522-1533., Registrované v: WOS
13. [1.1] GUO, X. - HUANG, Y.J. - QI, Y. - LIU, Z.Y. - MA, Y.P. - SHAO, Y.Z. - JIANG, S.J. - SUN, Z.R. - RUAN, Q. Human cytomegalovirus miR-UL36-5p inhibits apoptosis via downregulation of adenine nucleotide translocator 3 in cultured cells. In ARCHIVES OF VIROLOGY. ISSN 0304-8608, OCT 2015, vol. 160, no. 10, p. 2483-2490., Registrované v: WOS
14. [1.1] HOLDER, K.A. - COMEAU, E.M. - GRANT, M.D. Origins of natural killer cell memory: special creation or adaptive evolution. In

IMMUNOLOGY. ISSN 0019-2805, MAY 2018, vol. 154, no. 1, p. 38-49.,
Registrované v: WOS

15. [1.1] LISNIC, B. - LISNIC, V.J. - JONJIC, S. NK cell interplay with cytomegaloviruses. In CURRENT OPINION IN VIROLOGY. ISSN 1879-6257, DEC 2015, vol. 15, p. 9-18., Registrované v: WOS

16. [1.1] MANCINI, M. - VIDAL, S.M. Mechanisms of Natural Killer Cell Evasion Through Viral Adaptation. In ANNUAL REVIEW OF IMMUNOLOGY, VOL 38. ISSN 0732-0582, 2020, vol. 38, p. 511-539.,
Registrované v: WOS

17. [1.1] MICHEAU, O. Posttranslational Modifications and Death Receptor Signalling. In TRAIL, FAS LIGAND, TNF AND TLR3 IN CANCER. ISSN 2196-5501, 2017, vol. 12, p. 247-290., Registrované v: WOS

18. [1.1] NGUYEN, C.C. - DOMMA, A.J. - ZHANG, H.B. - KAMIL, J.P. Endoplasmic Reticulum (ER) Reorganization and Intracellular Retention of CD58 Are Functionally Independent Properties of the Human Cytomegalovirus ER-Resident Glycoprotein UL148. In JOURNAL OF VIROLOGY. ISSN 0022-538X, MAR 2020, vol. 94, no. 5., Registrované v: WOS

19. [1.1] OMOTO, S. - GUO, H.Y. - TALEKAR, G.R. - ROBACK, L. - KAISER, W.J. - MOCARSKI, E.S. Suppression of RIP3-dependent Necroptosis by Human Cytomegalovirus. In JOURNAL OF BIOLOGICAL CHEMISTRY. MAY 1 2015, vol. 290, no. 18, p. 11635-11648., Registrované v: WOS

20. [1.1] POCOCK, J.M. - STORISTEANU, D.M.L. - REEVES, M.B. - JUSS, J.K. - WILLS, M.R. - COWBURN, A.S. - CHILVERS, E.R. Human Cytomegalovirus Delays Neutrophil Apoptosis and Stimulates the Release of a Prosurvival Secretome. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, SEP 25 2017, vol. 8., Registrované v: WOS

21. [1.1] SANDHU, P.K. - BUCHKOVICH, N.J. Human Cytomegalovirus Decreases Major Histocompatibility Complex Class II by Regulating Class II Transactivator Transcript Levels in a Myeloid Cell Line. In JOURNAL OF VIROLOGY. ISSN 0022-538X, APR 2020, vol. 94, no. 7.,
Registrované v: WOS

22. [1.1] SHAO, Y.Z. - QI, Y. - HUANG, Y.J. - LIU, Z.Y. - MA, Y.P. - GUO, X. - JIANG, S.J. - SUN, Z.R. - RUAN, Q. Human cytomegalovirus miR-US4-5p promotes apoptosis via downregulation of p21-activated kinase 2 in cultured cells. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, OCT 2017, vol. 16, no. 4, p. 4171-4178., Registrované v: WOS

23. [1.1] SHIN, G.C. - KANG, H.S. - LEE, A.R. - KIM, K.H. Hepatitis B virus-triggered autophagy targets TNFRSF10B/death receptor 5 for degradation to limit TNFSF10/TRAIL response. In AUTOPHAGY. ISSN 1554-8627, 2016, vol. 12, no. 12, p. 2451-2466., Registrované v: WOS

24. [1.1] SODAY, L. - LU, Y.X. - ALBARNAZ, J.D. - DAVIES, C.T.R. - ANTROBUS, R. - SMITH, G.L. - WEEKES, M.P. Quantitative Temporal Proteomic Analysis of Vaccinia Virus Infection Reveals Regulation of Histone Deacetylases by an Interferon Antagonist. In CELL REPORTS. ISSN 2211-1247, MAY 7 2019, vol. 27, no. 6, p. 1920-+, Registrované v: WOS

25. [1.1] TREVIRANUS, G.R.S. PSYCHOSES BY ATTACKS FROM SUBVERTED MAST CELLS: A ROLE FOR ARTERIAL INTRAMURAL FLOW BADLY STEERED BY THE NASAL GANGLIA?. In PSYCHIATRIA DANUBIANA. ISSN 0353-5053, 2020, vol. 32, p. 93-104., Registrované v: WOS

26. [1.1] UELAND, T. - ROLLAG, H. - HARTMANN, A. - JARDINE,

- A. - HUMAR, A. - BIGNAMINI, A.A. - ASBERG, A. - AUKRUST, P. Increased Osteoprotegerin Predicts Poor Virological Outcome During Anticytomegalovirus Therapy in Solid Organ Transplant Recipients. In TRANSPLANTATION. ISSN 0041-1337, JAN 15 2015, vol. 99, no. 1, p. 100-105., Registrované v: WOS
27. [1.1] WU, Z.G. - SINZGER, C. - REICHEL, J.J. - JUST, M. - MERTENS, T. Natural Killer Cells Can Inhibit the Transmission of Human Cytomegalovirus in Cell Culture by Using Mechanisms from Innate and Adaptive Immune Responses. In JOURNAL OF VIROLOGY. ISSN 0022-538X, MAR 2015, vol. 89, no. 5, p. 2906-2917., Registrované v: WOS
28. [1.1] YUAN, X. - GAJAN, A. - CHU, Q. - XIONG, H. - WU, K.M. - WU, G.S. Developing TRAIL/TRAIL death receptor-based cancer therapies. In CANCER AND METASTASIS REVIEWS. ISSN 0167-7659, DEC 2018, vol. 37, no. 4, SI, p. 733-748., Registrované v: WOS
29. [1.1] ZHOU, X.C. - JIANG, W.B. - LIU, Z.S. - LIU, S. - LIANG, X.Z. Virus Infection and Death Receptor-Mediated Apoptosis. In VIRUSES-BASEL. ISSN 1999-4915, NOV 2017, vol. 9, no. 11., Registrované v: WOS
30. [1.1] ZOU, F. - LU, Z.T. - WANG, S. - WU, S. - WU, Y.Y. - SUN, Z.R. Human cytomegalovirus UL141 protein interacts with CELF5 and affects viral DNA replication. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, MAR 2018, vol. 17, no. 3, p. 4657-4664., Registrované v: WOS

ADCA1170 SMRČOK, Ľubomír - SLÁDKOVIČOVÁ, Mariana - LANGER, Vratislav - WILSON, Chick C. - KOŮŠ, Miroslav. On hydrogen bonding in 1,6-anhydro-beta-D-glucopyranose (levoglucosan): X-ray and neutron diffraction and DFT study. In *Acta Crystallographica Section B*, 2006, vol. 62, p. 912-918. (2005: 1.910 - IF, Q1 - JCR, 3.021 - SJR, Q1 - SJR). ISSN 0108-7681. Dostupné na: <https://doi.org/10.1107/S010876810602489X>

Ohlasy:

1. [1.1] BOROWSKI, Daniel - ZWEIBOEHRER, Tobias - ZIEGLER, Thomas. 1,2-Annulated Sugars: Synthesis of Polyhydroxylated 2,10-Dioxadecalins with beta-manno Configuration. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2016, vol., no. 31, pp. 5248-5256., Registrované v: WOS
2. [1.1] GUO, Shuai - LIANG, Honglin - CHE, Deyong - LIU, Hongpeng - SUN, Baizhong. Quantitative study of the pyrolysis of levoglucosan to generate small molecular gases. In RSC ADVANCES. ISSN 2046-2069, 2019, vol. 9, no. 33, pp. 18791-18802., Registrované v: WOS
3. [1.1] HECZKO, Dawid - KAMINSKA, Ewa - MINECKA, Aldona - DZIENIA, Andrzej - JURKIEWICZ, Karolina - TARNACKA, Magdalena - TALIK, Agnieszka - KAMINSKI, Kamil - PALUCH, Marian. High-pressure dielectric studies on 1,6-anhydro-beta-D-mannopyranose (plastic crystal) and 2,3,4-tri-O-acetyl-1,6-anhydro-beta-D-glucopyranose (canonical glass). In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2018, vol. 148, no. 20, pp., Registrované v: WOS
4. [1.1] CHRISTENSEN, D. V. - SMITH, A. Is gamma-Al₂O₃ polar? In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2017, vol. 423, no., pp. 887-890., Registrované v: WOS
5. [1.1] JANOSZKA, Katarzyna. Determination of biomass burning

tracers in air samples by GC/MS. In X-TH SCIENTIFIC CONFERENCE AIR PROTECTION IN THEORY AND PRACTICE. ISSN 2267-1242, 2018, vol. 28, no., pp., Registrované v: WOS

6. [1.1] KABO, Gennady J. - PAULECHKA, Yauheni U. - VOITKEVICH, Olga V. - BLOKHIN, Andrey V. - STEPURKO, Elena N. - KOHUT, Sviataslau V. - VOZNYI, Yakov V. Experimental and theoretical study of thermodynamic properties of levoglucosan. In JOURNAL OF CHEMICAL THERMODYNAMICS. ISSN 0021-9614, 2015, vol. 85, no., pp. 101., Registrované v: WOS

7. [1.1] KAMINSKA, E. - TARNACKA, M. - JURKIEWICZ, K. - KAMINSKI, K. - PALUCH, M. High pressure dielectric studies on the structural and orientational glass. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2016, vol. 144, no. 5, pp., Registrované v: WOS

8. [1.1] MEL'NIKOVA, Svetlana - BOGDANOV, Evgeniy - MOLOKEEV, Maxim S. - LAPTASH, Natalia M. - FLEROV, Igor N. Optical and calorimetric studies of K₂TaF₇. In JOURNAL OF FLUORINE CHEMISTRY. ISSN 0022-1139, 2019, vol. 222, no., pp. 75-80., Registrované v: WOS

9. [1.1] MOURA RAMOS, Joaquim J. - DIOGO, Herminio P. Orientational glass, orientationally disordered crystal and crystalline polymorphism: A further study on the thermal behavior and molecular mobility in levoglucosan. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2019, vol. 286, no., pp., Registrované v: WOS

10. [1.1] NISHIYAMA, Yoshiharu. Molecular interactions in nanocellulose assembly. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES. ISSN 1364-503X, 2018, vol. 376, no. 2112, pp., Registrované v: WOS

11. [1.1] RIGHETTI, Maria Cristina - TOMBARI, Elpidio - JOHARI, G. P. Aging kinetics of levoglucosan orientational glass as a rate dispersion process and consequences for the heterogeneous dynamics view. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2016, vol. 145, no. 5, pp., Registrované v: WOS

12. [1.1] ROTHER, Christina - GUTMANN, Alexander - GUDIMINCHI, Ramakrishna - WEBER, Hansjoerg - LEPAK, Alexander - NIDETZKY, Bernd. Biochemical Characterization and Mechanistic Analysis of the Levoglucosan Kinase from *Lipomyces starkeyi*. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 6, pp. 596-603., Registrované v: WOS

13. [1.1] SUGIURA, Masayuki - NAKAHARA, Moe - YAMADA, Chihaya - ARAKAWA, Takatoshi - KITAOKA, Motomitsu - FUSHINOBU, Shinya. Identification, functional characterization, and crystal structure determination of bacterial levoglucosan dehydrogenase. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 45, pp. 17375-17386., Registrované v: WOS

14. [1.1] URIARTE, Iciar - ECIJA, Patricia - LOZADA-GARCIA, Rolando - CARCABAL, Pierre - COCINERO, Emilio J. Investigating the Conformation of the Bridged Monosaccharide Levoglucosan. In CHEMPHYSICHEM. ISSN 1439-4235, 2018, vol. 19, no. 6, pp. 766-773., Registrované v: WOS

ADCA1171 SMULEK, Wojciech - KACZOREK, Eva - HRICOVÍNIOVÁ, Zuzana. Alkyl xylosides: physico-chemical properties and influence on environmental bacteria cells. In *Journal of Surfactants and Detergents*, 2017, vol. 20, p. 1269-1279. (2016: 1.450 - IF, Q3 - JCR, 0.407 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 1097-3958. Dostupné na: <https://doi.org/10.1007/s11743-017-2012-2>

Ohlasy:

1. [1.1] GAUDIN, Theophile - LU, Huiling - FAYET, Guillaume - BERTHAULD-DRELICH, Audrey - ROTUREAU, Patricia - POURCEAU, Gwladys - WADOUACHI, Anne - VAN HECKE, Elizabeth - NESTERENKO, Alla - PEZRON, Isabelle. Impact of the chemical structure on amphiphilic properties of sugar-based surfactants: A literature overview. In *ADVANCES IN COLLOID AND INTERFACE SCIENCE*. ISSN 0001-8686, 2019, vol. 270, no., pp. 87-100., Registrované v: WOS
2. [1.1] LI, Zhencao - CHEN, Guoyong - CHEN, Langqiu - ZHANG, Yanhua - DAI, Zhiyong. Solution Properties of Alkyl beta-D-Maltosides. In *JOURNAL OF SURFACTANTS AND DETERGENTS*. ISSN 1097-3958, 2019, vol. 22, no. 4, pp. 731-742., Registrované v: WOS
3. [1.1] OGAWA, Shigesaburo - TAKAHASHI, Isao - KOGA, Maito - ASAKURA, Kouichi - OSANAI, Shuichi. Effect of Freeze-Thaw Treatment on the Precipitation of Octyl beta-D-Galactoside Hemihydrate Crystal from the Aqueous Solution. In *JOURNAL OF OLEO SCIENCE*. ISSN 1345-8957, 2018, vol. 67, no. 5, pp. 627-637., Registrované v: WOS
4. [1.1] WU, Xiubing - CHEN, Langqiu - FAN, Yulin - FU, Fang - LI, Jiping - ZHANG, Jing. Water Solubility and Surface Property of Alkyl Di-/Tri-/Tetraoxyethyl beta-D-Xylopyranosides. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2019, vol. 67, no. 37, pp. 10361-10372., Registrované v: WOS
5. [1.1] WU, Xiubing - CHEN, Langqiu - FU, Fang - FAN, Yulin - LUO, Zhiqiang. Synthesis and surface properties of alkyl beta-D-thioglucopyranoside. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2019, vol. 276, no., pp. 282-289., Registrované v: WOS
6. [1.1] WU, Xiubing - KUANG, Na - CHEN, Langqiu - FAN, Yulin - FU, Fang - LI, Jiping - ZHANG, Jing. Synthesis and property of alkyl dioxethyl alpha-D-xyloside. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2020, vol. 315, no., pp. Dostupné na: <https://doi.org/10.1016/j.molliq.2020.113770>., Registrované v: WOS

ADCA1172 SOBOLČIAK, Patrik - ŠPÍREK, Mário - KATRLÍK, Jaroslav - GEMEINER, Peter - LACÍK, Igor - KASÁK, Peter. Light-switchable polymer from cationic to zwitterionic form: Synthesis, characterization, and interactions with DNA and bacterial cells. In *Macromolecular Rapid Communications*, 2013, vol. 34, p. 635 - 639. (2012: 4.929 - IF, Q1 - JCR, 2.096 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1022-1336. Dostupné na: <https://doi.org/10.1002/marc.201200823>

Ohlasy:

1. [1.1] BOGDASHKINA, D.V. - MAKHAEVA, E.E. - KHOKHLOV, A.R. Behavior of thermosensitive N-isopropylacrylamide polyelectrolyte hydrogels in aqueous solutions of Alcian Blue. In *POLYMER SCIENCE SERIES A*. ISSN 0965-545X, NOV 2015, vol. 57, no. 6, p. 773-782.,

Registrowané v: WOS

2. [1.1] DINU, Ionel A. - DUSKEY, Jason T. - CAR, Anja - PALIVAN, Cornelia G. - MEIER, Wolfgang. Engineered non-toxic cationic nanocarriers with photo-triggered slow-release properties. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 20, pp. 3451-3464., Registrowané v: WOS
3. [1.1] GHOSH, S. - HALDAR, J. Cationic polymer-based antibacterial smart coatings. In ADVANCES IN SMART COATINGS AND THIN FILMS FOR FUTURE INDUSTRIAL AND BIOMEDICAL ENGINEERING APPLICATIONS. 2020, p. 557-582., Registrowané v: WOS
4. [1.1] JIANG, J.X. - FU, Y.C. - ZHANG, Q.H. - ZHAN, X.L. - CHEN, F.Q. Novel amphiphilic poly(dimethylsiloxane) based polyurethane networks tethered with carboxybetaine and their combined antibacterial and anti-adhesive property. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, AUG 1 2017, vol. 412, p. 1-9., Registrowané v: WOS
5. [1.1] LIAO, Y. - AN, N. - WANG, N. - ZHANG, Y.Y. - SONG, J.F. - ZHOU, J.X. - LIU, W.G. Photoactive Self-Shaping Hydrogels as Noncontact 3D Macro/Microscopic Photoprinting Platforms. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, DEC 2015, vol. 36, no. 24, p. 2129-2136., Registrowané v: WOS
6. [1.1] MANOURAS, T. - VAMVAKAKI, M. Field responsive materials: photo-, electro-, magnetic- and ultrasound-sensitive polymers. In POLYMER CHEMISTRY. ISSN 1759-9954, JAN 7 2017, vol. 8, no. 1, p. 74-96., Registrowané v: WOS
7. [1.1] WEI, T. - TANG, Z.C. - YU, Q. - CHEN, H. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, NOV 1 2017, vol. 9, no. 43, p. 37511-37523., Registrowané v: WOS
8. [1.1] WEI, T. - YU, Q. - CHEN, H. Responsive and Synergistic Antibacterial Coatings: Fighting against Bacteria in a Smart and Effective Way. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, FEB 7 2019, vol. 8, no. 3., Registrowané v: WOS
9. [1.1] XIE, Y. - CHEN, S.Q. - QIAN, Y.H. - ZHAO, W.F. - ZHAO, C.S. Photo-responsive membrane surface: Switching from bactericidal to bacteria-resistant property. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, MAR 1 2018, vol. 84, p. 52-59., Registrowané v: WOS
10. [1.1] XIE, Y. - TANG, C.Q. - WANG, Z.H. - XU, Y.T. - ZHAO, W.F. - SUN, S.D. - ZHAO, C.S. Co-deposition towards mussel-inspired antifouling and antibacterial membranes by using zwitterionic polymers and silver nanoparticles. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, SEP 14 2017, vol. 5, no. 34, p. 7186-7193., Registrowané v: WOS
11. [1.1] ZHAO, Hui - HOU, Bing - TANG, Yufu - HU, Wenbo - YIN, Chao - JI, Yu - LU, Xiaomei - FAN, Quli - HUANG, Wei. O-Nitrobenzyl-alt-(phenylethynyl)benzene copolymer-based nanoaggregates with highly efficient two-photon-triggered degradable properties via a FRET process. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 18, pp. 3117-3125., Registrowané v: WOS
12. [1.1] ZHAO, H. - HU, W.B. - MA, H.H. - JIANG, R.C. - TANG, Y.F. - JI, Y. - LU, X.M. - HOU, B. - DENG, W.X. - HUANG, W. - FAN, Q.L. Photo-Induced Charge-Variable Conjugated Polyelectrolyte Brushes

Encapsulating Upconversion Nanoparticles for Promoted siRNA Release and Collaborative Photodynamic Therapy under NIR Light Irradiation. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, NOV 24 2017, vol. 27, no. 44., Registrované v: WOS

13. [1.2] SUN, Z., ZHANG, Z.- ZHOU, R.- YAN, S.- YIN, J. Strategies in the Design of Zwitterionic Polymer Materials with Self-adaptive Transition Between Bactericidal and Anti-adhesive Functions. (2020) Cailiao

Daobao/Materials Reports, 34 (23), p. 23199-23204., Registrované v: Scopus

14. [1.2] XIE, Yi - CHEN, Shengqiu - QIAN, Yihui - ZHAO, Weifeng - ZHAO, Changsheng. Photo-responsive membrane surface: Switching from bactericidal to bacteria-resistant property. In Materials Science and Engineering C. ISSN 09284931, 2017-03-01, 84, pp. 52-59., Registrované v: SCOPUS

15. [1.2] ZHAO, H.- TAO, H.- HU, W.- MIAO, X.- TANG, Y.- HE, T.- LI, J.- WANG, Q.- GUO, L.- LU, X.- HUANG, W.- FAN, Q.

Two-Photon-Induced Charge-Variable Conjugated Polyelectrolyte Brushes for Effective Gene Silencing. (2019) ACS Applied Bio Materials, 2 (4), p. 1676-1685., Registrované v: Scopus

ADCA1173 SOBOLČIAK, Patrik - POPELKA, Anton - MIČUŠÍK, Matej - SLÁVIKOVÁ, Monika - KRUPA, Igor - MOSNÁČEK, Jaroslav - TKÁČ, Ján - LACÍK, Igor - KASÁK, Peter. Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. In *Journal of Colloid and Interface Science*, 2017, vol. 500, p. 294-303. (2016: 4.233 - IF, Q1 - JCR, 1.156 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2017.04.020>

Ohlasy:

1. [1.1] GHOSH, S. - ABANTERIBA, S. - WONG, S. - BRKLJACA, R. - HOUSHYAR, S. Optimisation of grafted phosphorylcholine-based polymer on additively manufactured titanium substrate for hip arthroplasty. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, AUG 2019, vol. 101, p. 696-706., Registrované v: WOS

2. [1.1] ISHIHARA, K. - ITO, M. - FUKAZAWA, K. - INOUE, Y. Interface of Phospholipid Polymer Grafting Layers to Analyze Functions of Immobilized Oligopeptides Involved in Cell Adhesion. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JUL 2020, vol. 6, no. 7, p. 3984-3993., Registrované v: WOS

3. [1.1] JIANG, J.X. - FU, Y.C. - ZHANG, Q.H. - ZHAN, X.L. - CHEN, F.Q. Novel amphiphilic poly(dimethylsiloxane) based polyurethane networks tethered with carboxybetaine and their combined antibacterial and anti-adhesive property. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, AUG 1 2017, vol. 412, p. 1-9., Registrované v: WOS

4. [1.1] MANOURAS, T. - VAMVAKAKI, M. Field responsive materials: photo-, electro-, magnetic- and ultrasound-sensitive polymers. In POLYMER CHEMISTRY. ISSN 1759-9954, JAN 7 2017, vol. 8, no. 1, p. 74-96., Registrované v: WOS

5. [1.1] WEI, T. - TANG, Z.C. - YU, Q. - CHEN, H. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, NOV 1 2017, vol. 9, no. 43, p. 37511-37523., Registrované v: WOS

6. [1.1] XIE, Y. - TANG, C.Q. - WANG, Z.H. - XU, Y.T. - ZHAO, W.F. - SUN, S.D. - ZHAO, C.S. Co-deposition towards mussel-inspired antifouling and antibacterial membranes by using zwitterionic polymers and silver nanoparticles. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, SEP 14 2017, vol. 5, no. 34, p. 7186-7193., Registrované v: WOS
7. [1.1] ZHAO, H. - HU, W.B. - MA, H.H. - JIANG, R.C. - TANG, Y.F. - JI, Y. - LU, X.M. - HOU, B. - DENG, W.X. - HUANG, W. - FAN, Q.L. Photo-Induced Charge-Variable Conjugated Polyelectrolyte Brushes Encapsulating Upconversion Nanoparticles for Promoted siRNA Release and Collaborative Photodynamic Therapy under NIR Light Irradiation. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, NOV 24 2017, vol. 27, no. 44., Registrované v: WOS

ADCA1174 SOLÁR, Rastislav - GEFFERTOVÁ, Jarmila - MAMOŇ, Miroslav - GEFFERT, Anton - KOŠÍKOVÁ, Božena. Influence of alkaline and alkaline/oxidation pretreatments of hornbeam wood on the properties of kraft pulp. Miroslav Mamoň, Anton Geffert, Božena Košíková. In *Cellulose Chemistry and Technology*, 2009, vol.43, no.4-6, p.163-177. (2008: 0.262 - IF, Q4 - JCR, 0.239 - SJR, Q3 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0576-9787.

Ohlasy:

1. [1.1] UNER, Birol - AKGUL, Mehmet - GUCUS, M. Onurhan - DEMIR, Serkan. THE EFFECT OF OXALIC ACID PRETREATMENT ON ALKALI PULPING PROCESS. In WOOD RESEARCH. ISSN 1336-4561, 2016, vol. 61, no. 1, pp. 75-81., Registrované v: WOS

ADCA1175 SOUKUP, Milan - MARTINKA, Michal - BOSNIČ, Dragana - ČAPLOVIČOVÁ, Mária - ELBAUM, Rivka - LUX, Alexander. Formation of silica aggregates in sorghum root endodermis is predetermined by cell wall architecture and development. In *Annals of Botany*, 2017, vol. 120, p. 739-753. (2016: 4.041 - IF, Q1 - JCR, 1.942 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcx060>

Ohlasy:

1. [1.1] DE TOMBEUR, Felix - VANDER LINDEN, Charles - CORNELIS, Jean-Thomas - GODIN, Bruno - COMPERE, Philippe - DELVAUX, Bruno. Soil and climate affect foliar silicification patterns and silica-cellulose balance in sugarcane (*Saccharum officinarum*). In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 452, no. 1-2, pp. 529-546. Dostupné na: <https://doi.org/10.1007/s11104-020-04588-z>, Registrované v: WOS
2. [1.1] GEORGE, Navomy - ANTONY, Asha - RAMACHANDRAN, Tholkappiyan - HAMED, Fathalla - KAMAL-ELDIN, Afaf. Microscopic Investigations of Silicification and Lignification Suggest Their Coexistence in Tracheary Phytoliths in Date Fruits (*Phoenix dactylifera* L.). In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00977>, Registrované v: WOS
3. [1.1] HESLOP-HARRISON, J. S. (Pat). Morphology, adaptation and speciation. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 120, no. 5, pp. 621-624., Registrované v: WOS
4. [1.1] KAISER, Sabine - WAGNER, Stephan - MOSCHNER, Christin - FUNKE, Claudia - WICHE, Oliver. Accumulation of germanium (Ge) in plant

tissues of grasses is not solely driven by its incorporation in phytoliths. In BIOGEOCHEMISTRY. ISSN 0168-2563, 2020, vol. 148, no. 1, pp. 49-68. Dostupné na: <https://doi.org/10.1007/s10533-020-00646-x>., Registrované v: WOS

5. [1.1] KRESZIES, Tino - KRESZIES, Victoria - LY, Falko - THANGAMANI, Priya Dharshini - SHELLAKKUTTI, Nandhini - SCHREIBER, Lukas. Suberized transport barriers in plant roots: the effect of silicon. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2020, vol. 71, no. 21, pp. 6799-6806. Dostupné na: <https://doi.org/10.1093/jxb/eraa203>., Registrované v: WOS

6. [1.1] LISZTES-SZABO, Zsuzsa - BRAUN, Mihaly - CSIK, Attila - PETO, Akos. Phytoliths of six woody species important in the Carpathians: characteristic phytoliths in Norway spruce needles. In VEGETATION HISTORY AND ARCHAEOBOTANY. ISSN 0939-6314, 2019, vol. 28, no. 6, pp. 649-662., Registrované v: WOS

7. [1.1] PAOLICCHI, Micaela - LAURA BENVENUTO, Maria - FERNANDEZ HONAIN, Mariana - OSTERRIETH, Margarita. Root silicification of grasses and crops from the Pampean region and its relevance to silica and silicophytolith content of soils. In PLANT AND SOIL. ISSN 0032-079X, 2019, vol. 444, no. 1-2, pp. 351-363., Registrované v: WOS

8. [1.1] PRUYNE, Derek T. - SCHLOSSBERG, Maxim J. - UDDIN, Wakar. Perennial Ryegrass Wear Resistance and Soil Amendment by Ca- and Mg-Silicates. In AGRONOMY-BASEL, 2019, vol. 9, no. 10, pp., Registrované v: WOS

9. [1.1] PRUYNE, Derek T. - SCHLOSSBERG, Maxim J. - UDDIN, Wakar. Creeping Bentgrass Fairway Wear Resistance by Granular Topdressing of Ca/Mg-rich Liming Agents. In AGRICULTURE-BASEL, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/agriculture10020043>., Registrované v: WOS

10. [1.1] PUTRA, Rocky - POWELL, Jeff R. - HARTLEY, Susan E. - JOHNSON, Scott N. Is it time to include legumes in plant silicon research? In FUNCTIONAL ECOLOGY. ISSN 0269-8463, 2020, vol. 34, no. 6, pp. 1142-1157. Dostupné na: <https://doi.org/10.1111/1365-2435.13565>., Registrované v: WOS

11. [1.1] RYALLS, James M. W. - MOORE, Ben D. - JOHNSON, Scott N. - CONNOR, Myles - HILTPOLD, Ivan. Root responses to domestication, precipitation and silicification: weeping meadow grass simplifies and alters toughness. In PLANT AND SOIL. ISSN 0032-079X, 2018, vol. 427, no. 1-2, pp. 291-304., Registrované v: WOS

12. [1.1] YEFREMOVA, Svetlana - ZHARMENOV, Abdurassul - SUKHARNIKOV, Yuriy - BUNCHUK, Lara - KABLANBEKOV, Askhat - ANARBEKOV, Kuanish - KULIK, Tetiana - NIKOLAICHUK, Alina - PALIANYTSIA, Borys. Rice Husk Hydrolytic Lignin Transformation in Carbonization Process. In MOLECULES, 2019, vol. 24, no. 17, pp., Registrované v: WOS

13. [1.2] HARRIS-SHULTZ, Karen R. - HAYES, Chad M. - KNOLL, Joseph E. Mapping QTLs and identification of genes associated with drought resistance in sorghum. In Methods in Molecular Biology. ISSN 10643745, 2019-01-01, 1931, pp. 11-40., Registrované v: SCOPUS

RAVASZOVÁ, Frederika - LUX, Alexander. New method for visualization of silica phytoliths in *Sorghum bicolor* roots by fluorescence microscopy revealed silicate concentration-dependent phytolith formation. In *Planta*, 2014, vol. 240, p. 1365-1372. (2013: 3.376 - IF, Q1 - JCR, 1.562 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0032-0935. Dostupné na: <https://doi.org/10.1007/s00425-014-2179-y>

Ohlasy:

1. [1.1] BHAT, Mudassir A. - SHAKOOR, Sheikh A. - BADGEL, Priya - SOODAN, Amarjit S. Taxonomic Demarcation of *Setaria pumila* (Poir.) Roem. & Schult., *S. verticillata* (L.) P. Beauv., and *S. viridis* (L.) P. Beauv. (Cenchrinae, Paniceae, Panicoideae, Poaceae) From Phytolith Signatures. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] DABNEY, Clemon - OSTERGAARD, Jason - WATKINS, Eric - CHEN, Changbin. A novel method to characterize silica bodies in grasses. In *PLANT METHODS*. ISSN 1746-4811, 2016, vol. 12, no., pp., Registrované v: WOS
3. [1.1] EVETT, Rand R. - CUTHRELL, Rob Q. A conceptual framework for a computer-assisted, morphometric-based phytolith analysis and classification system. In *JOURNAL OF ARCHAEOLOGICAL SCIENCE*. ISSN 0305-4403, 2016, vol. 68, no., pp. 70-78., Registrované v: WOS
4. [1.1] FERNANDEZ HONAIN, Mariana - LAURA BENVENUTO, Maria - OSTERRIETH, Margarita L. AN EASY TECHNIQUE FOR SILICOPHYTOLITH VISUALIZATION IN PLANTS THROUGH TISSUE CLEARING AND IMMERSION OIL MOUNTING. In *BOLETIN DE LA SOCIEDAD ARGENTINA DE BOTANICA*. ISSN 1851-2372, 2019, vol. 54, no. 3, pp. 353-365., Registrované v: WOS
5. [1.1] KAISER, S. - WAGNER, S. - MOSCHNER, C. - FUNKE, C. - WICHE, O. Accumulation of germanium (Ge) in plant tissues of grasses is not solely driven by its incorporation in phytoliths. In *BIOGEOCHEMISTRY*. ISSN 0168-2563, MAR 2020, vol. 148, no. 1, p. 49-68., Registrované v: WOS
6. [1.1] LISZTES-SZABO, Zsuzsa - BRAUN, Mihaly - CSIK, Attila - PETO, Akos. Phytoliths of six woody species important in the Carpathians: characteristic phytoliths in Norway spruce needles. In *VEGETATION HISTORY AND ARCHAEOBOTANY*. ISSN 0939-6314, 2019, vol. 28, no. 6, pp. 649-662., Registrované v: WOS
7. [1.1] OUT, Welmoed A. - MADELLA, Marco. Towards improved detection and identification of crop by-products: Morphometric analysis of bilobate leaf phytoliths of *Pennisetum glaucum* and *Sorghum bicolor*. In *QUATERNARY INTERNATIONAL*. ISSN 1040-6182, 2017, vol. 434, no., pp. 1-14., Registrované v: WOS
8. [1.1] PRUYNE, Derek T. - SCHLOSSBERG, Maxim J. - UDDIN, Wakar. Perennial Ryegrass Wear Resistance and Soil Amendment by Ca- and Mg-Silicates. In *AGRONOMY-BASEL*, 2019, vol. 9, no. 10, pp., Registrované v: WOS
9. [1.1] PRUYNE, D.T. - SCHLOSSBERG, M.J. - UDDIN, W. Creeping Bentgrass Fairway Wear Resistance by Granular Topdressing of Ca/Mg-rich Liming Agents. In *AGRICULTURE-BASEL*. FEB 2020, vol. 10, no. 2., Registrované v: WOS

10. [1.1] RASHID, Irfan - MIR, Showkat H. - ZURRO, Debora - DAR, Reyaz A. - RESHI, Zafar A. Phytoliths as proxies of the past. In EARTH-SCIENCE REVIEWS. ISSN 0012-8252, 2019, vol. 194, no., pp. 234-250., Registrované v: WOS
11. [1.1] SAHI, Vaidurya Pratap - BALUSKA, Frantisek. Apoplastic Barriers: Their Structure and Function from a Historical Perspective. In CONCEPTS IN CELL BIOLOGY HISTORY AND EVOLUTION. ISSN 1861-1370, 2018, vol. 23, no., pp. 155-183., Registrované v: WOS
12. [1.1] ZEXER, N. - ELBAUM, R. Unique lignin modifications pattern the nucleation of silica in sorghum endodermis. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6818-6829., Registrované v: WOS

ADCA1177 SPIWOK, Vojtech - TVAROŠKA, Igor. Conformational Free Energy Surface of alfa-N-Acetylneuraminic Acid: An Interplay Between Hydrogen Bonding and Solvation. In *Journal of Physical Chemistry*, 2009, vol.113, pp. 9589-9594.
Dostupné na: <https://doi.org/10.1021/jp8113495>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BURUSCO, Kepa K. - BRUCE, Neil J. - BRYCE, Richard A. Identification of Rare Lewis Oligosaccharide Conformers in Aqueous Solution Using Enhanced Sampling Molecular Dynamics. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 9, pp. 2462-2474., Registrované v: WOS
2. [1.1] DUAN, Yifeng - QIN, Lixia - LIU, Hanyu. Different evolutionary pathways from B4 to B1 phase in AlN and InN: metadynamics investigations. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, 2016, vol. 28, no. 20, pp., Registrované v: WOS
3. [1.1] DUAN, Yifeng - QIN, Lixia - LIU, Hanyu. Metadynamics investigations of the AlN/GaN superlattice. In EPL. ISSN 0295-5075, 2016, vol. 114, no. 4, pp., Registrované v: WOS
4. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS
5. [1.1] LIPNICANOVA, Sabina - CHMELOVA, Daniela - ONDREJOVIC, Miroslav - FRECEK, Vladimir - MIERTUS, Stanislav. Diversity of sialidases found in the human body A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 857-868. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.123>., Registrované v: WOS
6. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS
7. [1.1] PLAZINSKI, Wojciech - LONARDI, Alice - HUNENBERGER, Philippe H. Revision of the GROMOS 56A6(CARBO) force field: Improving the description of ring-conformational equilibria in hexopyranose-based carbohydrates chains. In JOURNAL OF

COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2016, vol. 37, no. 3, pp. 354-365., Registrované v: WOS

8. [1.1] RICHARDS, Michele R. - GUO, Tianlin - HUNTER, Carmanah D. - CAIRO, Christopher W. Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2018, vol. 26, no. 19, pp. 5349-5358., Registrované v: WOS

9. [1.1] TURUPCU, Ayseguel - BLAUKOPF, Markus - KOSMA, Paul - OOSTENBRINK, Chris. Molecular Conformations of Di-, Tri-, and Tetra-alpha-(2> 8)-Linked Sialic Acid from NMR Spectroscopy and MD Simulations. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 1, pp. Dostupné na: <https://doi.org/10.3390/ijms21010030>., Registrované v: WOS

10. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v: WOS

11. [1.1] ZHENG, Shaohui - PFAENDTNER, Jim. Enhanced sampling of chemical and biochemical reactions with metadynamics. In MOLECULAR SIMULATION. ISSN 0892-7022, 2015, vol. 41, no. 1-3, pp. 55-72., Registrované v: WOS

ADCA1178 SPIWOK, Vojtech - KRÁLOVÁ, B. - TVAROŠKA, Igor. Continuous metadynamics in essential coordinates as a tool for free energy modelling of conformational changes. In *Journal of molecular modeling*, 2008, vol. 14, p. 995-1002. (2007: 1.669 - IF, Q1 - JCR, 0.644 - SJR, Q2 - SJR). ISSN 1610-2940. Dostupné na: <https://doi.org/10.1007/s00894-008-0343-7>

Ohlasy:

1. [1.1] BRANDT, Artur M. L. - BATISTA, Paulo Ricardo - SOUZA-SILVA, Franklin - ALVES, Carlos Roberto - CAFFARENA, Ernesto Raul. Exploring the unbinding of Leishmania (L.) amazonensis CPB derived-epitopes from H2 MHC class I proteins. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS. ISSN 0887-3585, 2016, vol. 84, no. 4, pp. 473-487., Registrované v: WOS

2. [1.1] GALVELIS, Raimondas - SUGITA, Yuji. Neural Network and Nearest Neighbor Algorithms for Enhancing Sampling of Molecular Dynamics. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 6, pp. 2489-2500., Registrované v: WOS

3. [1.1] SINGH, Richa - BANSAL, Rohit - RATHORE, Anurag Singh - GOEL, Gaurav. Equilibrium Ensembles for Insulin Folding from Bias-Exchange Metadynamics. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2017, vol. 112, no. 8, pp. 1571-1585., Registrované v: WOS

4. [1.1] ZHANG, ChuanBiao - YE, FangFu - LI, Ming - ZHOU, Xin. Enhanced sampling based on slow variables of trajectory mapping. In SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY. ISSN 1674-7348, 2019, vol. 62, no. 6, pp., Registrované v: WOS

ADCA1179 SPIWOK, Vojtech - TVAROŠKA, Igor. Metadynamics modelling of the solvent effect on primary hydroxyl rotamer equilibria in hexopyranosides. In

Carbohydrate Research, 2009, vol.344, p.1575-1581. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2009.05.019>

Ohlasy:

1. [1.1] IGLESIAS-FERNANDEZ, Javier - RAICH, Lluís - ARDEVOL, Albert - ROVIRA, Carme. The complete conformational free energy landscape of beta-xylose reveals a two-fold catalytic itinerary for beta-xylanases. In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2015, vol. 6, no. 2, pp. 1167-1177., Registrované v: WOS
2. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In *HELVETICA CHIMICA ACTA*. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS
3. [1.1] MATSUO, Koichi - GEKKO, Kunihiro. Vacuum Ultraviolet Electronic Circular Dichroism Study of D-Glucose in Aqueous Solution. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2020, vol. 124, no. 4, pp. 642-651. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b09210>., Registrované v: WOS
4. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v: WOS

ADCA1180 SPIWOK, Vojtech - KRÁLOVÁ, Blanka. Metadynamics in the conformational space nonlinearly dimensionally reduced by Isomap. In *Journal of Chemical Physics*, 2011, vol. 135, p. 224504-224509. (2010: 2.921 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.3660208>

Ohlasy:

1. [1.1] BARDUCCI, Alessandro - PFAENDTNER, Jim - BONOMI, Massimiliano. Tackling Sampling Challenges in Biomolecular Simulations. In *MOLECULAR MODELING OF PROTEINS: 2ND EDITION*. ISSN 1064-3745, 2015, vol. 1215, no., pp. 151-171., Registrované v: WOS
2. [1.1] BONOMI, Massimiliano - CAMILLONI, Carlo - VENDRUSCOLO, Michele. Metadynamic metainference: Enhanced sampling of the metainference ensemble using metadynamics. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
3. [1.1] BOUVIER, Benjamin. Curvature as a Collective Coordinate in Enhanced Sampling Membrane Simulations. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2019, vol. 15, no. 12, pp. 6551-6561., Registrované v: WOS
4. [1.1] BUSSI, Giovanni - BRANDUARDI, Davide. Free-Energy Calculations with Metadynamics: Theory and Practice. In *REVIEWS IN COMPUTATIONAL CHEMISTRY*, VOL 28. ISSN 1069-3599, 2015, vol. 28, no., pp. 1-49., Registrované v: WOS
5. [1.1] BUSSI, Giovanni - TRIBELLO, Gareth A. Analyzing and

Biasing Simulations with PLUMED. In BIOMOLECULAR SIMULATIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2019, vol. 2022, no., pp. 529-578., Registrované v: WOS

6. [1.1] CAMILLONI, Carlo - PIETRUCCHI, Fabio. Advanced simulation techniques for the thermodynamic and kinetic characterization of biological systems. In ADVANCES IN PHYSICS-X. ISSN 2374-6149, 2018, vol. 3, no. 1, pp., Registrované v: WOS

7. [1.1] CERIOTTI, Michele. Unsupervised machine learning in atomistic simulations, between predictions and understanding. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2019, vol. 150, no. 15, pp., Registrované v: WOS

8. [1.1] DELEMOTTE, Lucie - KASIMOVA, Marina A. - KLEIN, Michael L. - TAREK, Mounir - CARNEVALE, Vincenzo. Free-energy landscape of ion-channel voltage-sensor-domain activation. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 1, pp. 124-129., Registrované v: WOS

9. [1.1] FERRAROTTI, Marco Jacopo - BOTTARO, Sandro - PEREZ-VILLA, Andrea - BUSSI, Giovanni. Accurate Multiple Time Step in Biased Molecular Simulations. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 1, pp. 139-146., Registrované v: WOS

10. [1.1] GALVELIS, Raimondas - SUGITA, Yuji. Neural Network and Nearest Neighbor Algorithms for Enhancing Sampling of Molecular Dynamics. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 6, pp. 2489-2500., Registrované v: WOS

11. [1.1] HASHEMIAN, Behrooz - ARROYO, Marino. Topological obstructions in the way of data-driven collective variables. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2015, vol. 142, no. 4, pp., Registrované v: WOS

12. [1.1] HASHEMIAN, Behrooz - MILLAN, Daniel - ARROYO, Marino. Charting molecular free-energy landscapes with an atlas of collective variables. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2016, vol. 145, no. 17, pp., Registrované v: WOS

13. [1.1] CHEN, Wei - FERGUSON, Andrew L. Molecular Enhanced Sampling with Autoencoders: On-The-Fly Collective Variable Discovery and Accelerated Free Energy Landscape Exploration. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2018, vol. 39, no. 25, pp. 2079-2102., Registrované v: WOS

14. [1.1] CHEN, Wei - TAN, Aik Rui - FERGUSON, Andrew L. Collective variable discovery and enhanced sampling using autoencoders: Innovations in network architecture and error function design. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2018, vol. 149, no. 7, pp., Registrované v: WOS

15. [1.1] LONG, Andrew W. - FERGUSON, Andrew L. Rational design of patchy colloids via landscape engineering. In MOLECULAR SYSTEMS DESIGN & ENGINEERING. ISSN 2058-9689, 2018, vol. 3, no. 1, pp. 49-65., Registrované v: WOS

16. [1.1] PFAENDTNER, Jim - BONOMI, Massimiliano. Efficient Sampling of High-Dimensional Free-Energy Landscapes with Parallel Bias

Metadynamics. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 11, pp. 5062-5067., Registrované v: WOS

17. [1.1] SEO, Bumjoon - KIM, Seulwoo - LEE, Minhwan - LEE, Youn-Woo - LEE, Won Bo. Driving Conformational Transitions in the Feature Space of Autoencoder Neural Network. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, 2018, vol. 122, no. 40, pp. 23224-23229., Registrované v: WOS

18. [1.1] SEO, Bumjoon - KIM, Seulwoo - LEE, Minhwan - KIM, Taewan - KIM, Hyoun-Soo - LEE, Won Bo - LEE, Youn-Woo. Prediction of the Crystal Morphology of beta-HMX using a Generalized Interfacial Structure Analysis Model. In CRYSTAL GROWTH & DESIGN. ISSN 1528-7483, 2018, vol. 18, no. 4, pp. 2349-2357., Registrované v: WOS

19. [1.1] SCHUETZ, Doris A. - BERNETTI, Mattia - BERTAZZO, Martina - MUSIL, Djordje - EGGENWEILER, Hans-Michael - RECANATINI, Maurizio - MASETTI, Matteo - ECKER, Gerhard F. - CAVALLI, Andrea. Predicting Residence Time and Drug Unbinding Pathway through Scaled Molecular Dynamics. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2019, vol. 59, no. 1, pp. 535-549., Registrované v: WOS

20. [1.1] TRIBELLO, Gareth A. - GASPAROTTO, Piero. Using Dimensionality Reduction to Analyze Protein Trajectories. In FRONTIERS IN MOLECULAR BIOSCIENCES, 2019, vol. 6, no., pp., Registrované v: WOS

21. [1.1] TRIBELLO, Gareth A. - GASPAROTTO, Piero. Using Data-Reduction Techniques to Analyze Biomolecular Trajectories. In BIOMOLECULAR SIMULATIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2019, vol. 2022, no., pp. 453-502., Registrované v: WOS

22. [1.1] WANG, J. - FERGUSON, A. L. Nonlinear machine learning in simulations of soft and biological materials. In MOLECULAR SIMULATION. ISSN 0892-7022, 2018, vol. 44, no. 13-14, pp. 1090-1107., Registrované v: WOS

23. [1.1] XIE, Tian - GROSSMAN, Jeffrey C. Hierarchical visualization of materials space with graph convolutional neural networks. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2018, vol. 149, no. 17, pp., Registrované v: WOS

24. [1.1] ZHANG, ChuanBiao - YE, FangFu - LI, Ming - ZHOU, Xin. Enhanced sampling based on slow variables of trajectory mapping. In SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY. ISSN 1674-7348, 2019, vol. 62, no. 6, pp., Registrované v: WOS

ADCA1181 SPIWOK, Vojtech - KRÁLOVÁ, Blanka - TVAROŠKA, Igor.

Modelling of beta-D-glucopyranose ring distortion in different force fields: a metadynamics study. In *Carbohydrate Research*, 2010, vol.345, p. 530-537. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2009.12.011>

Ohlasy:

1. [1.1] ALIBAY, Irfan - BRYCE, Richard A. Ring Puckering Landscapes of Glycosaminoglycan-Related Monosaccharides from Molecular Dynamics Simulations. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2019, vol. 59, no. 11, pp. 4729-4741.,

Registrované v: WOS

2. [1.1] CORREDOR, Miriam - BONET, Roman - MOURE, Alejandra - DOMINGO, Cecilia - BUJONS, Jordi - ALFONSO, Ignacio - PEREZ, Yolanda - MESSEGUER, Angel. Cationic Peptides and Peptidomimetics Bind Glycosaminoglycans as Potential Sema3A Pathway Inhibitors. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2016, vol. 110, no. 6, pp. 1291-1303., Registrované v: WOS

1291-1303., Registrované v: WOS

3. [1.1] HASHEMIAN, Behrooz - MILLAN, Daniel - ARROYO, Marino. Charting molecular free-energy landscapes with an atlas of collective variables. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2016, vol. 145, no. 17, pp., Registrované v: WOS

4. [1.1] IGLESIAS-FERNANDEZ, Javier - RAICH, Lluís - ARDEVOL, Albert - ROVIRA, Carme. The complete conformational free energy landscape of beta-xylose reveals a two-fold catalytic itinerary for beta-xylanases. In CHEMICAL SCIENCE. ISSN 2041-6520, 2015, vol. 6, no. 2, pp. 1167-1177., Registrované v: WOS

5. [1.1] JIANG, Xue-Wei - ZHANG, Hong-Hui - ZHONG, An-Hua. Analysis on Van der Waals and Electrostatic Interaction of Crystalline Cellulose I beta Based on Molecular Dynamics. In TEXTILE BIOENGINEERING AND INFORMATICS SYMPOSIUM PROCEEDINGS, 2017, VOL. 3. ISSN 1942-3438, 2017, vol., no., pp. 1260-1266., Registrované v: WOS

6. [1.1] KUTTEL, Michelle M. - RAVENSCROFT, Neil. The Role of Molecular Modeling in Predicting Carbohydrate Antigen Conformation and Understanding Vaccine Immunogenicity. In CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC. ISSN 0097-6156, 2018, vol. 1290, no., pp. 139-173., Registrované v: WOS

7. [1.1] LOERBROKS, Claudia - BOULANGER, Eliot - THIEL, Walter. Solvent Influence on Cellulose 1,4-beta-Glycosidic Bond Cleavage: A Molecular Dynamics and Metadynamics Study. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 14, pp. 5477-5487., Registrované v: WOS

8. [1.1] MARIANSKI, Mateusz - SUPADY, Adriana - INGRAM, Teresa - SCHNEIDER, Markus - BALDAUF, Carsten. Assessing the Accuracy of Across-the-Scale Methods for Predicting Carbohydrate Conformational Energies for the Examples of Glucose and alpha-Maltose. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2016, vol. 12, no. 12, pp. 6157-6168., Registrované v: WOS

9. [1.1] MONTGOMERY, Andrew P. - XIAO, Kela - WANG, Xingyong - SKROPETA, Danielle - YU, Haibo. Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. In STRUCTURAL AND MECHANISTIC ENZYMOLOGY. ISSN 1876-1623, 2017, vol. 109, no., pp. 25-76., Registrované v: WOS

10. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Perspective on computational simulations of glycosaminoglycans. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS

11. [1.1] PANCZYK, Karina - PLAZINSKI, Wojciech. Pyranose ring puckering in aldopentoses, ketohexoses and deoxyaldohexoses. A molecular dynamics study. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018,

vol. 455, no., pp. 62-70., Registrované v: WOS

12. [1.1] PLAZINSKI, Wojciech - DRACH, Mateusz. Kinetic characteristics of conformational changes in the hexopyranose rings. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 416, no., pp. 41-50., Registrované v: WOS

13. [1.1] PLAZINSKI, Wojciech - DRACH, Mateusz. The influence of the hexopyranose ring geometry on the conformation of glycosidic linkages investigated using molecular dynamics simulations. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 415, no., pp. 17-27., Registrované v: WOS

14. [1.1] PLAZINSKI, Wojciech - LONARDI, Alice - HUENENBERGER, Philippe H. Revision of the GROMOS 56A6(CARBO) force field: Improving the description of ring-conformational equilibria in hexopyranose-based carbohydrates chains. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2016, vol. 37, no. 3, pp. 354-365., Registrované v: WOS

15. [1.1] PLAZINSKI, Wojciech - PLAZINSKA, Anita. Molecular dynamics simulations of hexopyranose ring distortion in different force fields. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2017, vol. 89, no. 9, pp. 1283-1294., Registrované v: WOS

16. [1.1] RAICH, L. - NIN-HILL, A. - ARDEVOL, A. - ROVIRA, C. Enzymatic Cleavage of Glycosidic Bonds: Strategies on How to Set Up and Control a QM/MM Metadynamics Simulation. In COMPUTATIONAL APPROACHES FOR STUDYING ENZYME MECHANISM, PT A. ISSN 0076-6879, 2016, vol. 577, no., pp. 159-183., Registrované v: WOS

17. [1.1] TANKRATHOK, Anupong - IGLESIAS-FERNANDEZ, Javier - WILLIAMS, Rohan J. - PENGTHAISONG, Salila - BAIYA, Supaporn - HAKKI, Zalihe - ROBINSON, Robert C. - HRMOVA, Maria - ROVIRA, Carme - WILLIAMS, Spencer J. - CAIRNS, James R. Ketudat. A Single Glycosidase Harnesses Different Pyranoside Ring Transition State Conformations for Hydrolysis of Mannosides and Glucosides. In ACS CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 10, pp. 6041-6051., Registrované v: WOS

18. [1.1] UTO, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. Cellulose Crystal Dissolution in Imidazolium-Based Ionic Liquids: A Theoretical Study. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 1, pp. 258-266., Registrované v: WOS

19. [1.1] UTO, Takuya - YUI, Toshtfumi. Higher Ordered Structure of Cellulose Predicted by Computational Chemistry: Cellulose Nanotube in Cyclohexane and Ethyl Acetate. In JOURNAL OF FIBER SCIENCE AND TECHNOLOGY. ISSN 2189-7654, 2018, vol. 74, no. 8, pp. 171-176., Registrované v: WOS

20. [1.1] VICKMAN, Alison E. - ASHLEY, Daniel C. - BAIK, Mu-Hyun - POHL, Nicola L. B. Effects of varying the 6-position oxidation state of hexopyranoses: a systematic comparative computational analysis of 48 monosaccharide stereoisomers. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 7, pp., Registrované v: WOS

21. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v:

WOS

22. [1.1] YANG, Mingjun - MACKERELL, Alexander D. Conformational Sampling of Oligosaccharides Using Hamiltonian Replica Exchange with Two-Dimensional Dihedral Biasing Potentials and the Weighted Histogram Analysis Method (WHAM). In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2015, vol. 11, no. 2, pp. 788-799., Registrované v: WOS
23. [1.2] FRENCH, Alfred D. Computerized models of carbohydrates. In Polysaccharides: Bioactivity and Biotechnology, 2015-01-01, pp. 1397-1440., Registrované v: SCOPUS

ADCA1182 SROKOVÁ, Iva - TOMANOVÁ, V. - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna - HEINZE, T. Water-soluble amphiphilic O-(carboxymethyl)cellulose derivatives - synthesis and properties. In *Macromolecular Materials and Engineering*, 2004, vol. 289, p. 63-69. (2003: 1.170 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 1438-7492. Dostupné na: <https://doi.org/10.1002/mame.200300124>

Ohlasy:

1. [1.1] ATKINS, Christophe J. - PATIAS, Georgios - TOWN, James S. - WEMYSS, Alan M. - EISSA, Ahmed M. - SHEGIWAL, Ataulla - HADDLETON, David M. A simple and versatile route to amphiphilic polymethacrylates: catalytic chain transfer polymerisation (CCTP) coupled with post-polymerisation modifications. In POLYMER CHEMISTRY. ISSN 1759-9954, 2019, vol. 10, no. 5, pp. 646-655., Registrované v: WOS
2. [1.1] BORDALLO, Eduardo - RIEUMONT, Jacques - JOSE TIERA, Marcio - GOMEZ, Manuel - LAZZARI, Massimo. Self-assembly in aqueous solution of amphiphilic graft copolymers from oxidized carboxymethylcellulose. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 124, no., pp. 43-49., Registrované v: WOS
3. [1.1] JIN, Feng - JIA, Ling-Yan - TU, You-Ying. Structural analysis of an acidic polysaccharide isolated from white tea. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, 2015, vol. 24, no. 5, pp. 1623-1628., Registrované v: WOS
4. [1.1] WANG, Min Hui - KIM, Jin-Chul. Nanogels Composed of Cinnamoyl Alginate and Cinnamoyl Pluronic F127. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2015, vol. 36, no. 3, pp. 377-383., Registrované v: WOS
5. [1.1] XIE, MengXi - DUAN, YuMin - LI, FanShu - WANG, Xia - CUI, XiaoTong - BACHA, Umar - ZHU, MinPeng - XIAO, Zhigang - ZHAO, Zhuo. Preparation and characterization of modified and functional starch (hexadecyl corboxymethyl starch) ether using reactive extrusion. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 5-6, pp., Registrované v: WOS
6. [1.1] ZEMLJIC, Lidija Fras - DIMITRISEV, Nena - SAAKE, Bodo - STRNAD, Simona. Functionalisation of poly(ethylene terephthalate) (PET) surfaces with two cationised xylans by means of two anchoring polymers. In HOLZFORSCHUNG. ISSN 0018-3830, 2019, vol. 73, no. 7, pp. 695-704., Registrované v: WOS
7. [1.2] ZHANG, Shimiao - JIN, Liejiang - ARSHAD, Muhammad - ULLAH, Aman. Renewable biomaterials as nanocarriers for drug and gene

delivery. In Drug and Gene Delivery to the Central Nervous System for Neuroprotection: Nanotechnological Advances, 2017-06-05, pp. 1-32., Registrované v: SCOPUS

- ADCA1183 SROKOVÁ, I. - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna. Biodegradable polymeric surfactants from O-(carboxymethyl) starch. In *Fibres and Textiles in Eastern Europe*, 2007, vol.15, p. 118-120.
Ohlasy:
1. [1.1] SIRVIO, Juho Antti - HEISKANEN, Juha P. Carbamation of Starch with Amine Using Dimethyl Carbonate as Coupling Agent. In ACS OMEGA. ISSN 2470-1343, 2019, vol. 4, no. 13, pp. 15702-15710., Registrované v: WOS
- ADCA1184 STANKOVIČ, Ľudovít - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - BÍLIK, Vojtech. Isomerization of D-glycero-D-galacto-heptose to D-manno-heptulose by selected yeasts. In *Folia Microbiologica*, 1986, vol. 31, p. 344-345. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02926962>
Ohlasy:
1. [1.1] COWAN, A. Keith. Occurrence, metabolism, transport and function of seven-carbon sugars. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2017, vol. 16, no. 1, pp. 137-157., Registrované v: WOS
- ADCA1185 STANKOVSKÁ, Monika - ARNHOLD, Juergen - RYCHLÝ, Jozef - SPALTEHOLZ, Holger - GEMEINER, Peter - ŠOLTÉS, Ladislav. In vitro screening of the action of non-steroidal anti-inflammatory drugs on hypochlorous acid-induced hyaluronan degradation. In *Polymer Degradation and Stability*, 2007, vol. 92, p. 644-652. (2006: 2.174 - IF, Q1 - JCR, 1.380 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0141-3910. Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2007.01.002>
Ohlasy:
1. [1.1] CHEN, Shengjun - CHEN, Hui - GAO, Ruichang - LI, Laihao - YANG, Xianqing - WU, Yanyan - HU, Xiao. Degradation of hyaluronic acid derived from tilapia eyeballs by a combinatorial method of microwave, hydrogen peroxide, and ascorbic acid. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 112, no., pp. 117-121., Registrované v: WOS
2. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA1186 STANKOVSKÁ, Monika - ŠOLTÉS, Ladislav - VIKARTOVSKÁ, Alica - MENDICHI, Raniero - LATH, Dieter - MOLNÁROVÁ, Marianna - GEMEINER, Peter. Study of hyaluronan degradation by means of rotational viscometry: contribution of the material of viscometer. In *Chemical papers.* - Heidelberg : Springer-Verlag, 2017-, 2004, vol. 58, no. 5, p. 348-352. ISSN 0366-6352.

Ohlasy:

1. [1.1] NOUR, M.A. - HUSSAIN, M.M. A Review of the Real-Time Monitoring of Fluid-Properties in Tubular Architectures for Industrial Applications. In SENSORS. JUL 2020, vol. 20, no. 14., Registrované v: WOS
2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
3. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.
4. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
5. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA1187 STANKOVSKÁ, Monika - HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - MOLNÁROVÁ, Marianna - GEMEINER, Peter - ŠOLTÉS, Ladislav. The degradative action of peroxynitrite on high-molecular-weight hyaluronan. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 31-34. (2005: 1.005 - IF, Q4 - JCR, 0.453 - SJR, Q2 - SJR). (2006 - WOS, SCOPUS). ISSN 0172-780X.

Ohlasy:

1. [1.1] JACKSON-WEAVER, O. - FRIEDMAN, J.K. - RODRIGUEZ, L.A. - HOOFF, M.A. - DRURY, R.H. - PACKER, J.T. - SMITH, A. - GUIDRY, C. - DUCHESNE, J.C. Hypoxia/reoxygenation decreases endothelial glycocalyx via reactive oxygen species and calcium signaling in a cellular model for shock. In JOURNAL OF TRAUMA AND ACUTE CARE SURGERY. ISSN 2163-0755, 2019, vol. 87, no. 5, p. 1070-1076., Registrované v: WOS
2. [1.1] LAZRAK, A. - SONG, W.F. - ZHOU, T. - AGGARWAL, S. - JILLING, T. - GARANTZIOTIS, S. - MATALON, S. Hyaluronan and halogen-induced airway hyperresponsiveness and lung injury. In ANNALS OF THE NEW YORK ACADEMY OF SCIENCES. ISSN 0077-8923, NOV 2020, vol. 1479, no. 1, SI, p. 29-43., Registrované v: WOS
3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and

Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

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ADCA1188 STANO, J. - KOVACS, P. - PSENAK, M. - GAJDOŠ, Ján - ERDELSKÝ, K. - KÁKONIOVÁ, Daniela - NEUBERT, Karel. *Distribution of dipeptidyl peptidase IV in organs and tissue cultures of poppy plants Papaver somniferum L. cv. Amarin*

Ohlasy:

1. [1.1] SANCHEZ-MUNDO, M. L. - BAUTISTA-MUNOZ, C. - JARAMILLO-FLORES, M. E. Characterization of protease activities in a crude extract of germinated cacao. In CYTA-JOURNAL OF FOOD. ISSN 1947-6337, 2015, vol. 13, no. 4, pp. 578-587., Registrované v: WOS
2. [1.1] SANCHEZ-MUNDO, M. L. - QUINTANILLA-CARVAJAL, M. X. - BAUTISTA-MUNOZ, C. - GUTIERREZ-LOPEZ, G. F. - JARAMILLO-FLORES, M. E. Water Content, a(w), and Enzyme Activity (Xaa-Prolyl-Dipeptidyl Aminopeptidase) During the Germination Process of Cocoa Beans (Theobroma cacao L.). In WATER STRESS IN BIOLOGICAL, CHEMICAL, PHARMACEUTICAL AND FOOD SYSTEMS. ISSN 1571-0297, 2015, vol., no., pp. 533-540., Registrované v: WOS

ADCA1189 STAŠKO, Andrej - BREZOVÁ, Vlasta - ZALIBERA, Michal - BISKUPIČ, Stanislav - ONDRIAŠ, Karol. Electron transfer: A primary step in the reactions of sodium hydrosulphide, an H₂S/HS⁻ donor. In *Free Radical Research : official journal of the Society for Free Radical Research -European Region*, 2009, vol. 46, iss. 6, p. 581-593. (2008: 2.826 - IF, Q2 - JCR, 1.087 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1071-5762.

Ohlasy:

1. [1.1] AL-MAGABLEH, Mohammad R. - KEMP-HARPER, Barbara K. - HART, Joanne L. Hydrogen sulfide treatment reduces blood pressure and oxidative stress in angiotensin II-induced hypertensive mice. In HYPERTENSION RESEARCH. ISSN 0916-9636, 2015, vol. 38, no. 1, pp. 13-20., Registrované v: WOS
2. [1.1] ARTURO MARTINEZ-BANACLOCHA, Marcos. Cysteine Dysregulation in Muscular Dystrophies: A Pathogenic Network Susceptible to Therapy. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 3, pp. 312-330., Registrované v: WOS
3. [1.1] BERENYIOVA, Andrea - GRMAN, Marian - MISAK, Anton - GOLAS, Samuel - CUCHOROVA, Justina - CACANYIOVA, Sona. The Possible Role of the Nitroso-Sulfide Signaling Pathway in the Vasomotoric Effect of Garlic Juice. In MOLECULES, 2020, vol. 25, no. 3, pp. Dostupné na: <https://doi.org/10.3390/molecules25030590>., Registrované v: WOS
4. [1.1] CACANYIOVA, S. - BERENYIOVA, A. - KRISTEK, F. The Role of Hydrogen Sulphide in Blood Pressure Regulation. In PHYSIOLOGICAL RESEARCH. ISSN 0862-8408, 2016, vol. 65, no., pp. S273-S289., Registrované v: WOS
5. [1.1] HASHMI, Syed Fayaz - SATTAR, Munavvar Z. A. - RATHORE, Hassaan A. - AHMAD, Ashfaq - JOHNS, Edward J. A CRITICAL REVIEW ON PHARMACOLOGICAL SIGNIFICANCE OF HYDROGEN SULFIDE (H₂S) ON NF-kappa B CONCENTRATION AND ICAM-1

EXPRESSION IN RENAL ISCHEMIA REPERFUSION INJURY. In ACTA POLONIAE PHARMACEUTICA. ISSN 0001-6837, 2017, vol. 74, no. 3, pp. 747-752., Registrované v: WOS

6. [1.1] KUMAR, Mohit - SANDHIR, Rajat. Hydrogen Sulfide in Physiological and Pathological Mechanisms in Brain. In CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS. ISSN 1871-5273, 2018, vol. 17, no. 9, pp. 654-670., Registrované v: WOS

7. [1.1] MARTINEZ-BANACLOCHA, Marcos. Cysteine Network (CYSTEINET) Dysregulation in Parkinson's Disease: Role of N-acetylcysteine. In CURRENT DRUG METABOLISM. ISSN 1389-2002, 2016, vol. 17, no. 4, pp. 368-385., Registrované v: WOS

8. [1.1] ZHOU, Lin - DUAN, Xingmei - ZENG, Shi - MEN, Ke - ZHANG, Xueyan - YANG, Li - LI, Xiang. Codelivery of SH-aspirin and curcumin by mPEG-PLGA nanoparticles enhanced antitumor activity by inducing mitochondrial apoptosis. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2015, vol. 10, no., pp. 5205-5218., Registrované v: WOS

9. [1.1] ZHU, Lin - YANG, Bo - MA, Dongxia - WANG, Lan - DUAN, Wu. Hydrogen Sulfide, Adipose Tissue and Diabetes Mellitus. In DIABETES METABOLIC SYNDROME AND OBESITY-TARGETS AND THERAPY. ISSN 1178-7007, 2020, vol. 13, no., pp. 1873-1886. Dostupné na: <https://doi.org/10.2147/DMSO.S249605>., Registrované v: WOS

ADCA1190 STAŠKO, Andrej - LUŠPAI, Karol - BARBIERIKOVÁ, Zuzana - RIMARČÍK, Ján - VAGÁNEK, Adam - LUKEŠ, Vladimír - BELLA, Maroš - MILATA, Viktor - ZALIBERA, Michal - RAPTA, Peter - BREZOVÁ, Vlasta. Stable radical trianions from reversibly formed sigma-dimers of selenadiazoloquinolones studies by in situ EPR/UV-vis spectroelectrochemistry and quantum chemical calculations. In *Journal of Physical Chemistry A*. Molecules, spectroscopy, kinetics, environment, and general theory, 2012, vol. 116, p. 9919-9927. (2011: 2.946 - IF, Q2 - JCR, 1.422 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1089-5639. Dostupné na: <https://doi.org/10.1021/jp307270b>

Ohlasy:

1. [1.1] BRANOWSKA, Danuta - OLENDER, Ewa - WYSOCKI, Waldemar - KARCZMARZYK, Zbigniew - BANCERZ, Ilona - LEDWON, Przemyslaw - LAPKOWSKI, Mieczyslaw - MIROSLAW, Barbara - URBANCZYK-LIPKOWSKA, Zofia - KALICKI, Przemyslaw. Synthesis and electrochemical characterization of oligothiophenes with 1,2,4-triazine and 5,5'-bi-1,2,4-triazine as strong electron acceptor units. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2016, vol. 214, no., pp. 19-30., Registrované v: WOS

2. [1.1] GARRETT, Benjamin R. - POLEN, Shane M. - PIMPLIKAR, Maneesha - HADAD, Christopher M. - WU, Yiyang. Anion-Redox Mechanism of MoO(S-2)(2)(2,2'-bipyridine) for Electrocatalytic Hydrogen Production. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2017, vol. 139, no. 12, pp. 4342-4345., Registrované v: WOS

3. [1.1] KAHLFUSS, Christophe - METAY, Estelle - DUCLOS, Marie-Christine - LEMAIRE, Marc - MILET, Anne - SAINT-AMAN, Eric - BUCHER, Christophe. Chemically and Electrochemically Triggered Assembly of Viologen Radicals: Towards Multiaddressable Molecular Switches. In

CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 5, pp. 2090-2106., Registrované v: WOS

4. [1.1] NEMES, Coleen T. - SWIERK, John R. - SCHMUTTENMAER, Charles A. A Terahertz-Transparent Electrochemical Cell for In Situ Terahertz Spectroelectrochemistry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2018, vol. 90, no. 7, pp. 4389-4396., Registrované v: WOS

ADCA1191 STEELE, N. M. - SULOVÁ, Zdena - CAMPBELL, P. - BRAAM, J. - FARKAŠ, Vladimír - FRY, S. C. Ten isoenzymes of xyloglucan endotransglycosylase from plant cell walls select and cleave the donor substrate stochastically. In *Biochemical Journal*, 2001, vol. 355, p. 671-679. ISSN 0264-6021.

Ohlasy:

1. [1.1] HAN, Ye - BAN, Qiuyan - HOU, Yali - MENG, Kun - SUO, Jiangtao - RAO, Jingping. Isolation and Characterization of Two Persimmon Xyloglucan Endotransglycosylase/Hydrolase (XTH) Genes That Have Divergent Functions in Cell Wall Modification and Fruit Postharvest Softening. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS

2. [1.1] HAN, Ye - ZHU, Qinggang - ZHANG, Zhengke - MENG, Kun - HOU, Yali - BAN, Qiuyan - SUO, Jiangtao - RAO, Jingping. Analysis of Xyloglucan Endotransglycosylase/Hydrolase (XTH) Genes and Diverse Roles of Isoenzymes during Persimmon Fruit Development and Postharvest Softening. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

3. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. The Role of Auxin in Cell Wall Expansion. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS

4. [1.1] SIMMONS, Thomas J. - FRY, Stephen C. Bonds broken and formed during the mixed-linkage glucan : xyloglucan endotransglucosylase reaction catalysed by Equisetum hetero-trans-beta-glucanase. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2017, vol. 474, no., pp. 1055-1070., Registrované v: WOS

5. [1.2] GIDLEY, Michael J. - GRANT, Reid J.S. Galactomannans and other cell wall storage polysaccharides in seeds. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 181-215., Registrované v: SCOPUS

ADCA1192 STEINER, Bohumil - KOŮŠ, Miroslav - MATULOVÁ, Mária - PROKSA, B. Synthesis of 2-acetyl-3-methyl-4H-1,4-benzothiazine and its derivatives. In *Monatshefte fuer Chemie*, 1993, vol. 124, p. 425-430.

Ohlasy:

1. [1.1] EL-MAHDY, Ahmed F. M. - MOHAMED, Omima S. - EL-SHERIEF, Hassan A. H. - HOZIEN, Zeinab A. An Efficient One-Pot Synthesis of Benzo[1,4]Thiazines, Benzo[1,3]Thiazoles and Benzo[1,5]Thiazepines. In CURRENT ORGANIC SYNTHESIS. ISSN 1570-1794, 2017, vol. 14, no. 4, pp. 604-611., Registrované v: WOS

ADCA1193 STEINER, Bohumil - LANGER, Vratislav - KOŮŠ, Miroslav. Synthesis and X-ray structure of a C5-C4-linked glucofuranose-oxazolidin-2-one. Miroslav KoŮš. In *Carbohydrate Research*, 2009, vol.344, p.2079-2082. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, Current Contents - CCC). (2009 -

Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na:
<https://doi.org/10.1016/j.carres.2009.06.031>

Ohlasy:

1. [1.1] KAABI, Amani - BESBES, Rafaa. STEREOSELECTIVE SYNTHESIS OF CIS- AND TRANS-3,4,5-TRISUBSTITUTED-1,3-OXAZOLIDIN-2-ONE DERIVATIVES FROM 1,2-AMINO ALCOHOL MONOESTERS AND AZIRIDINE-2-CARBOXYLATES. In SYNTHETIC COMMUNICATIONS. ISSN 0039-7911, 2015, vol. 45, no. 1, pp. 111-118., Registrované v: WOS
2. [1.1] WOOD, Adam - BERNHARDT, Paul - VAN ALTENA, Ian - SIMONE, Michela. Crystal structure of 6-azido-6-deoxy-1,2-O-iso-propylidene-alpha-D-glucofuranose. In ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS. ISSN 2056-9890, 2020, vol. 76, no., pp. 1653-+. Dostupné na: <https://doi.org/10.1107/S2056989020012438>., Registrované v: WOS
3. [1.1] YANG QUANLI - SONG YUYE - YU PING - WANG LONG - LIU MINGGUO - HUANG NIANYU. 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU)-Promoted Stereoselective Synthesis of Oxazolidin-2-(thi)one Derivatives. In CHINESE JOURNAL OF ORGANIC CHEMISTRY. ISSN 0253-2786, 2017, vol. 37, no. 12, pp. 3177-3185., Registrované v: WOS

ADCA1194 STERN, Robert - KOGAN, Grigorij - JEDRZEJAS, Mark J. - ŠOLTÉS, Ladislav. The many ways to cleave hyaluronan. In *Biotechnology Advances*, 2007, vol. 25, p. 537-557. (2006: 4.943 - IF, Q1 - JCR, 1.715 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2007.07.001>

Ohlasy:

1. [1.1] AGRAHARI, V. - MENG, J.N. - EZOULIN, M.J.M. - YOUM, I. - DIM, D.C. - MOLTENI, A. - HUNG, W.T. - CHRISTENSON, L.K. - YOUAN, B.B.C. Stimuli-sensitive thiolated hyaluronic acid based nanofibers: synthesis, preclinical safety and in vitro anti-HIV activity. In NANOMEDICINE. ISSN 1743-5889, 2016, vol. 11, no. 22, p. 2935-2958., Registrované v: WOS
2. [1.1] AIDA, T.M. - OSHIMA, M. - SHARMIN, T. - MISHIMA, K. - SMITH, R.L. Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 155, art. no. UNSP 104638., Registrované v: WOS
3. [1.1] AL-QADI, S. - ALATORRE-MEDA, M. - MARTIN-PASTOR, M. - TABOADA, P. - REMUÑÁN-LÓPEZ, C. The role of hyaluronic acid inclusion on the energetics of encapsulation and release of a protein molecule from chitosan-based nanoparticles. In COLLOIDS AND SURFACES B: BIOINTERFACES. ISSN 0927-7765, 2016, vol. 141, p. 223-232., Registrované v: WOS
4. [1.1] ARNHOLD, J. Oxidation and Reduction of Biological Material. In CELL AND TISSUE DESTRUCTION: MECHANISMS, PROTECTION, DISORDERS. ISBN:978-0-12-816735-9; 978-0-12-816388-7, 2020, p. 55-97., Registrované v: WOS
5. [1.1] BAEK, J. - FAN, Y. - JEONG, S.H. - LEE, H.Y. - JUNG, H.D. - KIM, H.E. - KIM, S. - JANG, T.S. Facile strategy involving low-temperature

- chemical cross-linking to enhance the physical and biological properties of hyaluronic acid hydrogel. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, p. 545-553., Registrované v: WOS
6. [1.1] BAUER, J. - ROTHLEY, M. - SCHMAUS, A. - QUAGLIATA, L. - EHRET, M. - BISKUP, M. - ORIAN-ROUSSEAU, V. - JACKSON, D.G. - PETTIS, R.J. - HARVEY, A. - BRASE, S. - THIELE, W. - SLEEMAN, J.P. TGF beta counteracts LYVE-1-mediated induction of lymphangiogenesis by small hyaluronan oligosaccharides. In JOURNAL OF MOLECULAR MEDICINE-JMM. ISSN 0946-2716, 2018, vol. 96, no. 2, p. 199-209., Registrované v: WOS
7. [1.1] BELL, T.J. - BRAND, O.J. - MORGAN, D.J. - SALEK-ARDAKANI, S. - JAGGER, C. - FUJIMORI, T. - CHOLEWA, L. - TILAKARATNA, V. - ÖSTLING, J. - THOMAS, M. - DAY, A.J. - SNELGROVE, R.J. - HUSSELL, T. Defective lung function following influenza virus is due to prolonged, reversible hyaluronan synthesis. In MATRIX BIOLOGY. ISSN 0945-053X, 2019, vol. 80, p. 14-28., Registrované v: WOS
8. [1.1] BINER, O. - TRACHSEL, C. - MOSER, A. - KOPP, L. - LANGENEGGER, N. - KAMPFER, U. - VON BALLMOOS, C. - NENTWIG, W. - SCHURCH, S. - SCHALLER, J. - KUHN-NENTWIG, L. Isolation, N-glycosylations and Function of a Hyaluronidase-Like Enzyme from the Venom of the Spider Cupiennius salei. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 12, article number e0143963., Registrované v: WOS
9. [1.1] BOHAUMILITZKY, L. - HUBER, A.K. - STORK, E.M. - WENGERT, S. - WOELFL, F. - BOEHM, H. A Trickster in Disguise: Hyaluronan's Ambivalent Roles in the Matrix. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2017, vol. 7, art. no. 242., Registrované v: WOS
10. [1.1] BORKE, T. - NAJBERG, M. - ILINA, P. - BHATTACHARYA, M. - URTTI, A. - TENHU, H. - HIETALA, S. Hyaluronic Acid Graft Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2018, vol. 18, no. 1, SI., art. no. 1700200., Registrované v: WOS
11. [1.1] BOTHA, C. - KUNTZ, J.F. - MOIRE, C. - FARCET, C. - PFUKWA, H. - PASCH, H. Molar Mass Analysis of Hydrophobically Modified Hyaluronic Acid by SEC-MALLS: Facing the Challenges of Amphiphilic Biomacromolecules. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2018, vol. 219, no. 19, art. no. 1800233., Registrované v: WOS
12. [1.1] CONROZIER, T. Is the addition of a polyol to hyaluronic acid a significant advance in the treatment of osteoarthritis? In CURRENT RHEUMATOLOGY REVIEWS. ISSN 1573-3971, 2018, vol. 14, no. 3, p. 226-230., Registrované v: WOS
13. [1.1] CONROZIER, T. - EYMARD, F. - AFIF, N. - BALBLANC, J.C. - LEGRE-BOYER, V. - CHEVALIER, X. Safety and efficacy of intra-articular injections of a combination of hyaluronic acid and mannitol (HAnOX-M) in patients with symptomatic knee osteoarthritis Results of a double-blind, controlled, multicenter, randomized trial. In KNEE. ISSN 0968-0160, 2016, vol. 23, no. 5, p. 842-848., Registrované v: WOS
14. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS
15. [1.1] COZIKOVA, D. - HERMANNOVA, M. - MORAVCOVA, V. -

- VELEBNY, V. Preparation of hyaluronan fragments with low polydispersity obtained from acid-catalyzed hydrolysis. In PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016. ISSN 2336-6796, 2016, p. 29-30., Registrované v: WOS
16. [1.1] COZIKOVA, D. - HERMANNOVA, M. - SMEJKALOVA, D. - NESPOROVA, K. - CERNOHOUSOVA, Z. - VELEBNY, V. Degradation products originating from acid-catalyzed hydrolysis of hyaluronan. In PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2017, p. 43-45., Registrované v: WOS
17. [1.1] COZIKOVA, D. - HERMANNOVA, M. - BUFFA, R. - FOGLOVA, T. - NESPOROVA, K. - KOTLAND, O. - VELEBNY, V. COMPARISON OF DEGRADATION PRODUCTS GENERATED DURING OXIDATIVE REDUCTIVE DEPOLYMERIZATION AND ACID HYDROLYSIS OF HYALURONAN. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, p. 37-39., Registrované v: WOS
18. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS
19. [1.1] DE MELO, B.A.G. - SANTANA, M.H.A. Structural Modifications and Solution Behavior of Hyaluronic Acid Degraded with High pH and Temperature. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 2, p. 424-436., Registrované v: WOS
20. [1.1] DOCAMPO, M.J. - CABRERA, J. - BASSOLS, A. Hyaluronan mediates the adhesion of porcine peripheral blood mononuclear cells to poly (I:C)-treated intestinal cells and modulates their cytokine production. In VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY. ISSN 0165-2427, 2017, vol. 184, p. 8-17., Registrované v: WOS
21. [1.1] DOGNE, S. - FLAMION, B. Endothelial Glycocalyx Impairment in Disease Focus on Hyaluronan Shedding. In AMERICAN JOURNAL OF PATHOLOGY. ISSN 0002-9440, 2020, vol. 190, no. 4, p. 768-780., Registrované v: WOS
22. [1.1] DOSIO, F. - ARPICCO, S. - STELLA, B. - FATTAL, El. Hyaluronic acid for anticancer drug and nucleic acid delivery. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2016, vol. 97, p. 204-236., Registrované v: WOS
23. [1.1] D'AGOSTINO, A. - STELLAVATO, A. - CORSUTO, L. - DIANA, P. - FILOSA, R. - LA GATTA, A. - DE ROSA, M. - SCHIRALDI, C. Is molecular size a discriminating factor in hyaluronan interaction with human cells?. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 21-30., Registrované v: WOS
24. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. - VERTUANI, S. Hyaluronic Acid in the Third Millennium. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701., Registrované v: WOS
25. [1.1] FERGUSON, E.L. - VARACHE, M. - STOKNIENE, J. -

- THOMAS, D.W. Polysaccharides for protein and peptide conjugation. In POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION AND BEYOND. ISBN:978-0-44-464082-6; 978-0-444-64081-9, 2020, p. 421-453., Registrované v: WOS
26. [1.1] FERRAZ, R.M. - SANDKVIST, U. - LUNDGREN, B. Degradation of Hyaluronic Acid Fillers Using Hyaluronidase in an In Vivo Model. In JOURNAL OF DRUGS IN DERMATOLOGY. ISSN 1545-9616, 2018, vol. 17, no. 5, p. 548-553., Registrované v: WOS
27. [1.1] FLEGEAU, K. - TOQUET, C. - RETHORE, G. - D'ARROS, C. - MESSENGER, L. - HALGAND, B. - DUPONT, D. - AUTRUSSEAU, F. - LESOEUR, J. - VEZIER, J. - BORDAT, P. - BRESIN, A. - GUICHEUX, J. - DELPLACE, V. - GAUTIER, H. - WEISS, P. In Situ Forming, Silanized Hyaluronic Acid Hydrogels with Fine Control Over Mechanical Properties and In Vivo Degradation for Tissue Engineering Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 19, art. no. 2000981., Registrované v: WOS
28. [1.1] GALLO, N. - NASSER, H. - SALVATORE, L. - NATALI, M.L. - CAMPA, L. - MAHMOUD, M. - CAPOBIANCO, L. - SANNINO, A. - MADAGHIELE, M. Hyaluronic acid for advanced therapies: Promises and challenges. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2019, vol. 117, p. 134-147., Registrované v: WOS
29. [1.1] GAMARRA, A. - MISSAGIA, B. - URPI, L. - MORATO, J. - MUNOZ-GUERRA, S. Ionic coupling of hyaluronic acid with ethyl N-lauroyl L-arginate (LAE): Structure, properties and biocide activity of complexes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 1 2018, vol. 197, p. 109-116., Registrované v: WOS
30. [1.1] GRIESSER, J. - HETÉNYI, G. - BERNKOP-SCHNÜRCH, A. Thiolated hyaluronic acid as versatile mucoadhesive polymer: From the chemistry behind to product developments-What are the capabilities? In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 3, art. no. 243., Registrované v: WOS
31. [1.1] GUPTA, R.C. - LALL, R. - SRIVASTAVA, A. - SINHA, A. Hyaluronic Acid: Molecular Mechanisms and Therapeutic Trajectory. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2019, vol. 6, art. no. 192., Registrované v: WOS
32. [1.1] HELDIN, P. - KOLLIPOULOS, C. - LIN, C.Y. - HELDIN, C.H. Involvement of hyaluronan and CD44 in cancer and viral infections. In CELLULAR SIGNALLING. ISSN 0898-6568, 2020, vol. 65, art. no. 109427., Registrované v: WOS
33. [1.1] HELLMAN, U. - ENGSTRÖM-LAURENT, A. - LARSSON, A. - LINDQVIST, U. Hyaluronan concentration and molecular mass in psoriatic arthritis: biomarkers of disease severity, resistance to treatment, and outcome. In SCANDINAVIAN JOURNAL OF RHEUMATOLOGY. ISSN 0300-9742, 2019, vol. 48, no. 4, p. 284-293., Registrované v: WOS
34. [1.1] HE, J. - HUANG, H. - ZOU, X.P. - WANG, Y. - DU, G.C. - KANG, Z. Construction of saturated odd- and even-numbered hyaluronan oligosaccharide building block library. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 231, art. no. 115700., Registrované v: WOS
35. [1.1] HE, T.Q. - WU, D. - WANG, X.L. - RONG, J.H. - ZHAO, J.H. Photo-crosslinking hyaluronan-heparin hybrid hydrogels for BMP-2 sustained

- delivery. In JOURNAL OF POLYMER ENGINEERING. ISSN 0334-6447, 2017, vol. 37, no. 2, p. 125-133., Registrované v: WOS
36. [1.1] HUANG, H. - LIANG, Q.X. - WANG, Y. - CHEN, J. - KANG, Z. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant *Pichia pastoris*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, p. 1621-1632., Registrované v: WOS
37. [1.1] HUANG, X.Y. - SCHMIDT, T.A. - SHORTT, C. - ARORA, S. - ASARI, A. - KIRSCH, T. - COWMAN, M.K. A competitive alphascreen assay for detection of hyaluronan. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 3, p. 137-147., Registrované v: WOS
38. [1.1] HUYNH, V. - D'ANGELO, A.D. - WYLIE, R.G. Tunable degradation of low-fouling carboxybetaine-hyaluronic acid hydrogels for applications in cell encapsulation. In BIOMEDICAL MATERIALS. ISSN 1748-6041, 2019, vol. 14, no. 5, art. no. 055003., Registrované v: WOS
39. [1.1] CHOUDHARY, A. - KUMAR, A. - KAUR, N. ROS and oxidative burst: Roots in plant development. In PLANT DIVERSITY. ISSN 2096-2703, 2020, vol. 42, no. 1, p. 33-43., Registrované v: WOS
40. [1.1] CHO, S.Y. - PARK, J.W. - AN, H. - KO, H.J. - KIM, H. - CHOI, J.K. - CHOI, S.Y. - KIM, S.M. - KO, E.J. - KIM, B.J. Physical properties of a novel small-particle hyaluronic acid filler: In vitro, invivo, and clinical studies. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, 2018, vol. 17, no. 3, p. 347-354., Registrované v: WOS
41. [1.1] ICHIKAWA, M. - HIRAYAMA, T. - FUKUSHIMA, M. - KITAZAWA, I. - KOJIMA, K. - SAKAI, T. - TAKATSU, Y. - OHTAKI, T. Glycosaminoglycan Conjugation for Improving the Duration of Therapeutic Action of Glucagon-Like Peptide-1. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 5, p. 5346-5354., Registrované v: WOS
42. [1.1] JIAO, Y. - PANG, X. - ZHAI, G.X. Advances in Hyaluronic Acid-Based Drug Delivery Systems. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2016, vol. 17, no. 6, p. 720-730., Registrované v: WOS
43. [1.1] JING, J. - BANKEFORS, J. - BONNEAUD, C. - SAWEN, E. - GERFAUD, T. - WESTIN, J. - EL-BAZBOUZ, G. - KANDELIN, L. - ROUSSEAU, A. - OLSSON, J. - KARLSSON, A. - NORD, L. - BOUX-PETER, C. - KENNE, A.H. - BOITEAU, J.G. - TOMAS, L. - HENNEQUIN, L. - HARRIS, C.S. Rapid and Selective Cleavage of Amide Groups at Neutral pH: Applications from Hyaluronic Acid to Small Molecules. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, no. 23, p. 2995-3000., Registrované v: WOS
44. [1.1] JIN, P. - KANG, Z. - YUAN, P. - DU, G. - CHEN, J. Production of specific-molecular-weight hyaluronan by metabolically engineered *Bacillus subtilis* 168. In METABOLIC ENGINEERING. ISSN 1096-7176, 2016, vol. 35, p. 21-30., Registrované v: WOS
45. [1.1] KADOYA, H. - YU, N. - SCHIESSL, I.M. - RIQUIER-BRISON, A. - GYARMATI, G. - DESPOSITO, D. - KIDOKORO, K. - BUTLER, M.J. - JACOB, C.O. - PETI-PETERDI, J. Essential role and therapeutic targeting of the glomerular endothelial glycocalyx in lupus nephritis. In JCI INSIGHT. 2020, vol. 5, no. 19., Registrované v: WOS
46. [1.1] KANG, Zhen - LIU, Long - LIU, Song. MICROBIAL PRODUCTION OF HYALURONIC ACID Current State, Challenges, and

Perspectives. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE. ISBN:978-1-4987-1878-3; 978-1-4987-1877-6, 2018, p. 21-42., Registrované v: WOS

47. [1.1] KANG, Z. - ZHANG, N. - ZHANG, Y.F. Enhanced production of leech hyaluronidase by optimizing secretion and cultivation in *Pichia pastoris*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 2, p. 707-717., Registrované v: WOS

48. [1.1] KANG, Z. - ZHOU, Z.X. - WANG, Y. - HUANG, H. - DU, G.C. - CHEN, J. Bio-Based Strategies for Producing Glycosaminoglycans and Their Oligosaccharides. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 8, p. 806-818., Registrované v: WOS

49. [1.1] KARAMANOS, N.K. - PIPERIGKOU, Z. - THEOCHARIS, A.D. - WATANABE, H. - FRANCHI, M. - BAUD, S. - BREZILLON, S. - GOTTE, M. - PASSI, A. - VIGETTI, D. - RICARD-BLUM, S. - SANDERSON, R.D. - NEILL, T. - IOZZO, R.V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, p. 9152-9232., Registrované v: WOS

50. [1.1] KARVINEN, J. - JOKI, T. - YLÄ-OUTINEN, L. - KOIVISTO, J.T. - NARKILAHTI, S. - KELLOMÄKI, M. Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. In REACTIVE AND FUNCTIONAL POLYMERS. ISSN 1381-5148, 2018, vol. 124, p. 29-39., Registrované v: WOS

51. [1.1] KAUR, H. - BHAGWAT, S.R. - SHARMA, T.K. - KUMAR, A. Analytical techniques for characterization of biological molecules - proteins and aptamers/oligonucleotides. In BIOANALYSIS. ISSN 1757-6180, 2019, vol. 11, no. 2, p. 103-+, Registrované v: WOS

52. [1.1] KAZEZIAN, Z. - JOYCE, K. - PANDIT, A. The Role of Hyaluronic Acid in Intervertebral Disc Regeneration. In APPLIED SCIENCES-BASEL. 2020, vol. 10, no. 18., Registrované v: WOS

53. [1.1] KIM, Y. - DE LA MOTTE, C.A. The Role of Hyaluronan Treatment in Intestinal Innate Host Defense. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, APR 29 2020, vol. 11., Registrované v: WOS

54. [1.1] KRUPKOVA, O. - GREUTERT, H. - BOOS, N. - LEMCKE, J. - LIEBSCHER, T. - WUERTZ-KOZAK, K. Expression and activity of hyaluronidases HYAL-1, HYAL-2 and HYAL-3 in the human intervertebral disc. In EUROPEAN SPINE JOURNAL. ISSN 0940-6719, 2020, vol. 29, no. 3, p. 605-615., Registrované v: WOS

55. [1.1] LALL, R.K. - SYED, D.N. - KHAN, M.I. - ADHAMI, V.M. - GONG, Y.S. - LUCEY, J.A. - MUKHTAR, H. Dietary flavonoid fisetin increases abundance of high-molecular-mass hyaluronan conferring resistance to prostate oncogenesis. In CARCINOGENESIS. ISSN 0143-3334, SEP 2016, vol. 37, no. 9, p. 918-928., Registrované v: WOS

56. [1.1] LEE, H.Y. - HWANG, C.H. - KIM, H.E. - JEONG, S.H. Enhancement of bio-stability and mechanical properties of hyaluronic acid hydrogels by tannic acid treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 186, p. 290-298., Registrované v: WOS

57. [1.1] LEE, W. - OH, W. - OH, S.M. - YANG, E.J. Comparative

- Effectiveness of Different Interventions of Perivascular Hyaluronidase. In PLASTIC AND RECONSTRUCTIVE SURGERY. ISSN 0032-1052, 2020, vol. 145, no. 4, p. 957-964., Registrované v: WOS
58. [1.1] LEE-SAYER, S.S.M. - DONG, Y.F. - ARIF, A.A. - OLSSON, M. - BROWN, K.L. - JOHNSON, P. The where, when, how, and why of hyaluronan binding by immune cells. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2015, vol. 6, article number 150., Registrované v: WOS
59. [1.1] LI, J.M. - QIAO, M. - JI, Y. - LIN, L. - ZHANG, X. - LINHARDT, R.J. Chemical, enzymatic and biological synthesis of hyaluronic acids. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 152, p. 199-206., Registrované v: WOS
60. [1.1] LI, W.H. - WONG, H.K. - SERRANO, J. - RANDHAWA, M. - KAUR, S. - SOUTHALL, M.D. - PARSA, R. Topical stabilized retinol treatment induces the expression of HAS genes and HA production in human skin in vitro and in vivo. In ARCHIVES OF DERMATOLOGICAL RESEARCH. ISSN 0340-3696, 2017, vol. 309, no. 4, p. 275-283., Registrované v: WOS
61. [1.1] LOEBEL, C. - SZCZESNY, S.E. - COSGROVE, B.D. - ALINI, M. - ZENOBI-WONG, M. - MAUCK, R.L. - EGLIN, D. Cross-linking chemistry of tyramine modified hyaluronan hydrogels alters mesenchymal stem cell early attachment and behavior. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 3, p. 855-864., Registrované v: WOS
62. [1.1] LUO, C.H. - XU, G.G. - WANG, X.H. - TU, M. - ZENG, R. - RONG, J.H. - ZHAO, J.H. Self-reinforcement and protein sustained delivery of hyaluronan hydrogel by tailoring a dually cross-linked network. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 46, p. 316-324., Registrované v: WOS
63. [1.1] LV, M. - WANG, M. - CAI, W. - HAO, W. - YUAN, P. - KANG, Z. Characterisation of separated end hyaluronan oligosaccharides from leech hyaluronidase and evaluation of angiogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, p. 309-316., Registrované v: WOS
64. [1.1] MAI, V.Q. - VO, T.T. - MEERE, M. Modelling hyaluronan degradation by streptococcus pneumoniae hyaluronate lyase. In MATHEMATICAL BIOSCIENCES. ISSN 0025-5564, 2018, vol. 303, p. 126-138., Registrované v: WOS
65. [1.1] MARELLA, M. - JADIN, L. - KELLER, G.A. - SUGARMAN, B.J. - FROST, G.I. - SHEPARD, H.M. KIAA1199 expression and hyaluronan degradation colocalize in multiple sclerosis lesions. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 12, p. 958-967., Registrované v: WOS
66. [1.1] MARTIN-MARTIN, I. - CHAGAS, A.C. - GUIMARAES-COSTA, A.B. - AMO, L. - OLIVEIRA, F. - MOORE, I.N. - DESOUSA-VIEIRA, T.S. - SANCHEZ, E.E. - SUNTRAVAT, M. - VALENZUELA, J.G. - RIBEIRO, J.M.C. - CALVO, E. Immunity to LuloHya and Lundep, the salivary spreading factors from Lutzomyia longipalpis, protects against Leishmania major infection. In PLOS PATHOGENS. ISSN 1553-7366, 2018, vol. 14, no. 5, art. no. e1007006., Registrované v: WOS
67. [1.1] MATSUDA, M. - SEKI, E. The liver fibrosis niche: Novel insights into the interplay between fibrosis-composing mesenchymal cells,

immune cells, endothelial cells, and extracellular matrix. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, SEP 2020, vol. 143.,

Registrované v: WOS

68. [1.1] MATUSKA, B. - COMHAIR, S. - FARVER, C. - CHMIEL, J. - MIDURA, R.J. - BONFIELD, T. - LAUER, M.E. Pathological hyaluronan matrices in cystic fibrosis airways and secretions. In AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. ISSN 1044-1549, 2016, vol. 55, no. 4, p. 576-585., Registrované v: WOS

69. [1.1] MEI, J.F. - DONG, Z.H. - YI, Y. - ZHANG, Y.L. - YING, G.Q. A simple method for the production of low molecular weight hyaluronan by in situ degradation in fermentation broth. In E-POLYMERS. ISSN 1618-7229, 2019, vol. 19, no. 1, p. 477-481., Registrované v: WOS

70. [1.1] MENZINGER, S. - KAYA, A. - SAURAT, J.H. - KAYA, G. Injected hyaluronidase reduces the volume of exogenous hyaluronate fillers in mice and results in clinical improvement in a patient with pretibial myxedema. In DERMATOPATHOLOGY. ISSN 2296-3529, 2016, vol. 3, no. 3, p. 61-67., Registrované v: WOS

71. [1.1] MIGUEL, S.P. - SIMOES, D. - MOREIRA, A.F. - SEQUEIRA, R.S. - CORREIA, I.J. Production and characterization of electrospun silk fibroin based asymmetric membranes for wound dressing applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, p. 524-535., Registrované v: WOS

72. [1.1] MIHOUB, A.B. - SAIDAT, B. - BAL, Y. - FROCHOT, C. - VANDERESSE, R. - ACHERAR, S. Development of new ionic gelation strategy: Towards the preparation of new monodisperse and stable hyaluronic acid/beta-cyclodextrin-grafted chitosan nanoparticles as drug delivery carriers for doxorubicin. In FRONTIERS OF MATERIALS SCIENCE. ISSN 2095-025X, 2018, vol. 12, no. 1, p. 83-94., Registrované v: WOS

73. [1.1] MIRZAPOIAZOVA, T. - MAMBETSARIEV, N. - LENNON, F.E. - MAMBETSARIEV, B. - BERLIND, J.E. - SALGIA, R. - SINGLETON, P.A. HABP2 is a novel regulator of hyaluronan-mediated human lung cancer progression. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2015, vol. 5, article number 164., Registrované v: WOS

74. [1.1] MONDEK, J. - KALINA, M. - SIMULESCU, V. - PEKAR, M. Thermal degradation of high molar mass hyaluronan in solution and in powder; comparison with BSA. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 120, p. 107-113., Registrované v: WOS

75. [1.1] MONTANARI, E. - DI MEO, C. - OATES, A. - COVIELLO, T. - MATRICARDI, P. Pursuing Intracellular Pathogens with Hyaluronan. From a 'Pro-Infection' Polymer to a Biomaterial for 'Trojan Horse' Systems. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 4, art. no. 939., Registrované v: WOS

76. [1.1] MONTANARI, E. - OATES, A. - DI MEO, C. - MEADE, J. - CERRONE, R. - FRANCIOSO, A. - DEVINE, D. - COVIELLO, T. - MANCINI, P. - MOSCA, L. - MATRICARDI, P. Hyaluronan-Based Nanohydrogels for Targeting Intracellular S-Aureus in Human Keratinocytes. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2018, vol. 7, no. 12, art. no. 1701483., Registrované v: WOS

77. [1.1] MONTANARI, E. - ZORATTO, N. - MOSCA, L. - CERVONI, L. - LALLANA, E. - ANGELINI, R. - MATASSA, R. - COVIELLO, T. - DI

- MEO, C. - MATRICARDI, P. Halting hyaluronidase activity with hyaluronan-based nanohydrogels: development of versatile injectable formulations. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 221, p. 209-220., Registrované v: WOS
78. [1.1] NIEMIETZ, Iwona - MORAES, Abigail T. - SUNDQVIST, Martina - BROWN, Kelly L. Hyaluronan primes the oxidative burst in human neutrophils. In JOURNAL OF LEUKOCYTE BIOLOGY. ISSN 0741-5400, 2020, vol. 108, no. 2, pp. 705-713. Dostupné na: <https://doi.org/10.1002/JLB.3MA0220-216RR>., Registrované v: WOS
79. [1.1] NOGAMI, E. - WATANABE, I. - HOSHI, H. - KASAHARA, M. - HONDA, N. - SATO, M. - SUZUKI, K. D-sorbitol can keep the viscosity of dispersive ophthalmic viscosurgical device at room temperature for long term. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, art. no. 16815., Registrované v: WOS
80. [1.1] OSSIPOV, D.A. Hyaluronan-based delivery of therapeutic oligonucleotides for treatment of human diseases. In EXPERT OPINION ON DRUG DELIVERY. ISSN 1742-5247, 2019, vol. 16, no. 6, p. 621-637., Registrované v: WOS
81. [1.1] PALUMBO, F.S. - FIORICA, C. - DI STEFANO, M. - PITARRESI, G. - GULINO, A. - AGNELLO, S. - GIAMMONA, G. In situ forming hydrogels of hyaluronic acid and inulin derivatives for cartilage regeneration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 122, p. 408-416., Registrované v: WOS
82. [1.1] PANOGEORGOU, T. - TSERBINI, E. - FILOU, S. - VYNIOS, D.H. - NAXAKIS, S.S. - PAPADAS, T.A. - GOUMAS, P.D. - MASTRONIKOLIS, N.S. Hyaluronan synthases and hyaluronidases in nasal polyps. In EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY. ISSN 0937-4477, 2016, vol. 273, no. 7, p. 1801-1808., Registrované v: WOS
83. [1.1] PARK, C. - KIM, Y.H. - LEE, S.R. - PARK, S. - JUNG, Y. - LEE, Y. - KIM, J.S. - EOM, T. - KIM, J.S. - LEE, D.M. - SONG, B.S. - SIM, B.W. - KIM, S.U. - CHANG, K.T. - KIM, E. Characterization of Recombinant Bovine Sperm Hyaluronidase and Identification of an Important Asn-X-Ser/Thr Motif for Its Activity. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2018, vol. 28, no. 9, p. 1547-1553., Registrované v: WOS
84. [1.1] PARK, C. - SONG, Y.K. - KIM, Y.H. - JUNG, Y. - PARK, Y.H. - SONG, B.S. - EOM, T. - KIM, J.S. - KIM, S.H. - KIM, J.S. - KIM, S.U. - LEE, S.R. - KIM, E. Development of a New Type of Recombinant Hyaluronidase Using a Hexahistidine; Possibilities and Challenges in Commercialization. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2019, vol. 29, no. 8, p. 1310-1315., Registrované v: WOS
85. [1.1] PASSI, A. - VIGETTI, D. Hyaluronan as tunable drug delivery system. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2019, vol. 146, SI, p. 83-96., Registrované v: WOS
86. [1.1] PÉREZ-GARNES, M. - MONLEÓN-PRADAS, M. Poly (methacrylated hyaluronan-co-ethyl acrylate) copolymer networks with tunable properties and enzymatic degradation. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 144, p. 241-250., Registrované v: WOS
87. [1.1] PLUDA, S. - PAVAN, M. - GALESSO, D. - GUARISE, C.

- Hyaluronic acid auto-crosslinked polymer (ACP): Reaction monitoring, process investigation and hyaluronidase stability. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 433, p. 47-53., Registrované v: WOS
88. [1.1] RASHID, H. - CHEN, H.Y. - HASSAN, Q. - JAVED, A. Dwarfism in homozygous Agc1(CreERT) mice is associated with decreased expression of aggrecan. In GENESIS. ISSN 1526-954X, 2017, vol. 55, no. 10, art. no. e23070., Registrované v: WOS
89. [1.1] RAYAHIN, J.E. - BUHRMAN, J.S. - ZHANG, Y. - KOH, T.J. - GEMEINHART, R.A. High and Low Molecular Weight Hyaluronic Acid Differentially Influence Macrophage Activation. In ACS BIOMATERIALS-SCIENCE & ENGINEERING. ISSN 2373-9878, 2015, vol. 1, no. 7, p. 481-493., Registrované v: WOS
90. [1.1] RIPPE, M. - MICHELAS, M. - PUTAUX, J.L. - FRATZL, M. - ESLAVA, G.G. - DEMPSEY, N.M. - AUZELY-VELTY, R. - SZARPAK, A. Synthesis and magnetic manipulation of hybrid nanobeads based on Fe₃O₄ nanoclusters and hyaluronic acid grafted with an ethylene glycol-based copolymer. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 510, art. no. 145354., Registrované v: WOS
91. [1.1] RODRIGUEZ-RIOS, L. - DIAZ-PENA, L.F. - LAZCANO-PEREZ, F. - ARREGUIN-ESPINOSA, R. - ROJAS-MOLINA, A. - GARCIA-ARREDONDO, A. Hyaluronidase-like enzymes are a frequent component of venoms from theraphosid spiders. In TOXICON. ISSN 0041-0101, 2017, vol. 136, p. 34-43., Registrované v: WOS
92. [1.1] ROECK, K. - JOOSSE, S.A. - MULLER, J. - HEINISCH, N. - FUCHS, N. - MEUSCH, M. - ZIPPER, P. - REIFENBERGER, J. - PANTEL, K. - FISCHER, J.W. Chronic UVB-irradiation actuates perpetuated dermal matrix remodeling in female mice: Protective role of estrogen. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, article number 30482., Registrované v: WOS
93. [1.1] ROSHANBINFAR, K. - VOGT, L. - RUTHER, F. - ROETHER, J.A. - BOCCACCINI, A.R. - ENGEL, F.B. Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 7, art. no. 1908612., Registrované v: WOS
94. [1.1] SALTI, G. - FUNDARO, S.P. Evaluation of the Rheologic and Physicochemical Properties of a Novel Hyaluronic Acid Filler Range with eXcellent Three-Dimensional Reticulation (XTR (TM)) Technology. In POLYMERS. AUG 2020, vol. 12, no. 8., Registrované v: WOS
95. [1.1] SCOGNAMIGLIO, F. - TRAVAN, A. - DONATI, I. - BORGOGNA, M. - MARSICH, E. A hydrogel system based on a lactose-modified chitosan for viscosupplementation in osteoarthritis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, NOV 15 2020, vol. 248., Registrované v: WOS
96. [1.1] SEELBACH, R.J. - D'ESTE, M. - ALINI, M. - MATA, A. - EGLIN, D. Copper catalyst efficiency for the CuAAC synthesis of a poly(N-isopropylacrylamide) conjugated hyaluronan. In CLINICAL HEMORHEOLOGY AND MICROCIRCULATION. ISSN 1386-0291, 2015, vol. 60, no. 1, p. 25-37., Registrované v: WOS
97. [1.1] SHAH, K. - CHAWLA, S. - GADEVAL, A. - REDDY, G. - MAHESHWARI, R. - KALIA, K. - TEKADE, R.K. Nanostructured Hyaluronic

- Acid-based Materials for the Delivery of siRNA. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2018, vol. 24, no. 23, p. 2678-2691., Registrované v: WOS
98. [1.1] SHA, Y.Y. - QIU, Y.B. - ZHU, Y.F. - SUN, T. - LUO, Z.S. - GAO, J. - FENG, X.H. - LI, S. - XU, H. CRISPRi-Based Dynamic Regulation of Hydrolase for the Synthesis of Poly-gamma-Glutamic Acid with Variable Molecular Weights. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, 2020, vol. 9, no. 9, p. 2450-2459., Registrované v: WOS
99. [1.1] SHEN, X.Q. - GUO, M.M. - YU, H.Y. - LIU, D. - LU, Z. - LU, Y.H. Propionibacterium acnes related anti-inflammation and skin hydration activities of madecassoside, a pentacyclic triterpene saponin from Centella asiatica. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2019, vol. 83, no. 3, p. 561-568., Registrované v: WOS
100. [1.1] SHIOZAWA, J. - DE VEGA, S. - CILEK, M.Z. - YOSHINAGA, C. - NAKAMURA, T. - KASAMATSU, S. - YOSHIDA, H. - KANEKO, H. - ISHIJIMA, M. - KANEKO, K. - OKADA, Y. Implication of HYBID (Hyaluronan-Binding Protein Involved in Hyaluronan Depolymerization) in Hyaluronan Degradation by Synovial Fibroblasts in Patients with Knee Osteoarthritis. In AMERICAN JOURNAL OF PATHOLOGY. ISSN 0002-9440, 2020, vol. 190, no. 5, p. 1046-1058., Registrované v: WOS
101. [1.1] SILVA, F. - HUANG, Y. - YANG, V. - MU, X.D. - SHI, Q. - ANTUNES, A. Transcriptomic Characterization of the South American Freshwater Stingray Potamotrygon motoro Venom Apparatus. In TOXINS. ISSN 2072-6651, 2018, vol. 10, no. 12, art. no. 544., Registrované v: WOS
102. [1.1] SIMEK, M. - LEMR, K. - HERMANNOVA, M. - HAVLICEK, V. Analysis of hyaluronan and its derivatives using chromatographic and mass spectrometric techniques. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250., Registrované v: WOS
103. [1.1] SIMULESCU, V. - KALINA, M. - MONDEK, J. - PEKAR, M. Long-term degradation study of hyaluronic acid in aqueous solutions without protection against microorganisms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, p. 664-668., Registrované v: WOS
104. [1.1] SIMULESCU, V. - MONDEK, J. - KALINA, M. - PEKAR, M. Kinetics of long-term degradation of different molar mass hyaluronan solutions studied by SEC-MALLS. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 111, p. 257-262., Registrované v: WOS
105. [1.1] SINGH, R. - SINGH, S. - PARIHAR, P. - MISHRA, R.K. - TRIPATHI, D.K. - SINGH, V.P. - CHAUHAN, D.K. - PRASAD, S.M. Reactive oxygen species (ROS): Beneficial companions of plants' developmental processes. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, p. 1-19., Registrované v: WOS
106. [1.1] SNETKOV, P. - ZAKHAROVA, K. - MOROZKINA, S. - OLEKHNOVICH, R. - USPENSKAYA, M. Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer. In POLYMERS. AUG 2020, vol. 12, no. 8., Registrované v: WOS
107. [1.1] SRIVASTAVA, T. - SHERMAN, L.S. - BACK, S.A. Dysregulation of Hyaluronan Homeostasis During White Matter Injury. In NEUROCHEMICAL RESEARCH. ISSN 0364-3190, 2020, vol. 45, no. 3, SI, p. 672-683., Registrované v: WOS

108. [1.1] TAO, L. - SONG, F. - XU, N.Y. - LI, D.X. - LINHARDT, R.J. - ZHANG, Z.Q. New insights into the action of bacterial chondroitinase AC I and hyaluronidase on hyaluronic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 158, p. 85-92., Registrované v: WOS
109. [1.1] TEMPLE-WONG, M.M. - REN, S.W. - QUACH, P. - HANSEN, B.C. - CHEN, A.C. - HASEGAWA, A. - D'LIMA, D.D. - KOZIOL, J. - MASUDA, K. - LOTZ, M.K. - SAH, R.L. Hyaluronan concentration and size distribution in human knee synovial fluid: variations with age and cartilage degeneration. In ARTHRITIS RESEARCH & THERAPY. ISSN 1478-6354, 2016, vol. 18. DOI: 10.1186/s13075-016-0922-4, Registrované v: WOS
110. [1.1] TRUSEK, A. - NIESOBSKA, A. - SEMBA, D. Enzymatic Hydrolysis of Hyaluronic Layer before Drug Dosing. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2018, vol. 19, no. 12, p. 963-972., Registrované v: WOS
111. [1.1] TSENG, V. - NI, K. - ALLAWZI, A. - PROHASKA, C. - HERNANDEZ-LAGUNAS, L. - ELAJAILI, H. - CALI, V. - MIDURA, R. - HASCALL, V. - TRIGGS-RAINE, B. - PETRACHE, I. - HART, C.M. - NOZIK-GRAYCK, E. Extracellular Superoxide Dismutase Regulates Early Vascular Hyaluronan Remodeling in Hypoxic Pulmonary Hypertension. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2020, vol. 10, no. 1., Registrované v: WOS
112. [1.1] VALCARCEL, J. - GARCIA, M.R. - VARELA, U.R. - VAZQUEZ, J.A. Hyaluronic acid of tailored molecular weight by enzymatic and acid depolymerization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, FEB 15 2020, vol. 145, p. 788-794., Registrované v: WOS
113. [1.1] VAN WITTELOOSTUIJN, S.B. - PEDERSEN, S.L. - JENSEN, K.J. Half-life extension of biopharmaceuticals using chemical methods: Alternatives to PEGylation. In CHEMMEDCHEM. ISSN 1860-7179, 2016, vol. 11, no. 22, p. 2474-2495., Registrované v: WOS
114. [1.1] VASILIEVA, T. - CHUHCHIN, D. - LOPATIN, S. - VARLAMOV, V. - SIGAREV, A. - VASILIEV, M. Chitin and Cellulose Processing in Low-Temperature Electron Beam Plasma. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 11, art. no. 1908., Registrované v: WOS
115. [1.1] VASVANI, S. - KULKARNI, P. - RAWTANI, D. Hyaluronic acid: A review on its biology, aspects of drug delivery, route of administrations and a special emphasis on its approved marketed products and recent clinical studies. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, p. 1012-1029., Registrované v: WOS
116. [1.1] VIKTOR, Z. - FARCET, C. - MOIRE, C. - BROTHIER, F. - PFUKWA, H. - PASCH, H. Comprehensive two-dimensional liquid chromatography for the characterization of acrylate-modified hyaluronic acid. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 15, p. 3321-3330., Registrované v: WOS
117. [1.1] VOLFOVA, V. - TOTHOVA, V. - VOLF, P. Hyaluronidase activity in the salivary glands of tabanid flies. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2016, vol. 73, p. 38-46., Registrované v: WOS
118. [1.1] VULPE, R. - POPA, M. - PICTON, L. - PEPTU, C.A. -

- TUDORACHI, N. - VERESTIUC, L. Scaffolds Based on Collagen, Hyaluronan and Sericin with Potential Applications as Controlled Drug Delivery System. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, 2018, vol. 18, no. 3, p. 1528-1533., Registrované v: WOS
119. [1.1] WANG, S.C. - SUN, F.R. - HAN, M.T. - LIU, Y.H. - ZOU, Q.Y. - WANG, F.X. - TAO, Y. - LI, D.J. - DU, M.R. - LI, H. - ZHU, R. Trophoblast-derived hyaluronan promotes the regulatory phenotype of decidual macrophages. In REPRODUCTION. ISSN 1470-1626, 2019, vol. 157, no. 2, p. 189-198., Registrované v: WOS
120. [1.1] WEI, Q.S. - ZHANG, X.W. - ZHOU, C.J. - REN, Q. - ZHANG, Y.T. Roles of large aggregating proteoglycans in human intervertebral disc degeneration. In CONNECTIVE TISSUE RESEARCH. ISSN 0300-8207, 2019, vol. 60, no. 3, p. 209-218., Registrované v: WOS
121. [1.1] WENDLING, R.J. - CHRISTENSEN, A.M. - QUAST, A.D. - ATZET, S.K. - MANN, B.K. Effect of carboxymethylation on the rheological properties of hyaluronan. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 9, art. no. e0162849., Registrované v: WOS
122. [1.1] WIGHT, T.N. Provisional matrix: A role for versican and hyaluronan. In MATRIX BIOLOGY. ISSN 0945-053X, 2017, vol. 60-61, p. 38-56., Registrované v: WOS
123. [1.1] WOLK, A. - HATİPOĞLU, D. - CUTLER, A. - ALI, M. - BELL, L. - QI, J.H. - SINGH, R. - BATOKI, J. - KARLE, L. - BONILHA, V.L. - WESSELY, O. - STOEHR, H. - HASCALL, V. - ANAND-APTE, B. Role of FGF and Hyaluronan in Choroidal Neovascularization in Sorsby Fundus Dystrophy. In CELLS. eISSN: 2073-4409, 2020, vol. 9, no. 3, art. no. 608., Registrované v: WOS
124. [1.1] WU, R.L. - HUANG, L. - ZHAO, H.C. - GENG, X.P. Hyaluronic acid in digestive cancers. In JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY. ISSN 0171-5216, 2017, vol. 143, no. 1, p. 1-16., Registrované v: WOS
125. [1.1] WU, Y.H. - LONG, Y.B. - LI, Q.L. - HAN, S.Y. - MA, J.B. - YANG, Y.W. - GAOT, H. Layer-by-Layer (LBL) Self-Assembled Biohybrid Nanomaterials for Efficient Antibacterial Applications. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 31, p. 17255-17263., Registrované v: WOS
126. [1.1] XIE, J. - LI, A.Q. - LI, J.S. Advances in pH-Sensitive Polymers for Smart Insulin Delivery. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2017, vol. 38, no. 23, SI., art. no. 1700413., Registrované v: WOS
127. [1.1] YAMAGUCHI, Y. - YAMAMOTO, H. - TOBISAWA, Y. - IRIE, F. TMEM2: A missing link in hyaluronan catabolism identified? In MATRIX BIOLOGY. ISSN 0945-053X, 2019, vol. 78-79, p. 139-146., Registrované v: WOS
128. [1.1] YAMAMOTO, H. - TOBISAWA, Y. - INUBUSHI, T. - IRIE, F. - OHYAMA, C. - YAMAGUCHI, Y. A mammalian homolog of the zebrafish transmembrane protein 2 (TMEM2) is the long-sought-after cell-surface hyaluronidase. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2017, vol. 292, no. 18, p. 7304-7313., Registrované v: WOS
129. [1.1] YANG, Y.B. - ABDALLA, S. Scaffolds of Macroporous Tannin Spray With Human-Induced Pluripotent Stem Cells. In FRONTIERS IN

BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8.,
Registrované v: WOS

130. [1.1] YE H, C.J. - ZULUETA, M.M.L. - LI, Y.K. - HUNG, S.C.
Synthesis of hyaluronic acid oligosaccharides with a GlcNAc-GlcA repeating
pattern and their binding affinity with CD44. In ORGANIC &
BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, JUL 28 2020, vol. 18, no.
28, p. 5370-5387., Registrované v: WOS

131. [1.1] YOSHIDA, H. - OKADA, Y. Role of HYBID (Hyaluronan
Binding Protein Involved in Hyaluronan Depolymerization), Alias
KIAA1199/CEMIP, in Hyaluronan Degradation in Normal and Photoaged Skin.
In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019, vol.
20, no. 22, art. no. 5804., Registrované v: WOS

132. [1.1] YOSHIDA, H. - YAMAZAKI, K. - KOMIYA, A. - AOKI, M. -
KASAMATSU, S. - MURATA, T. - SAYO, T. - CILEK, M.Z. - OKADA, Y. -
TAKAHASHI, Y. Inhibitory effects of Sanguisorba officinalis root extract on
HYBID (KIAA1199)-mediated hyaluronan degradation and skin wrinkling. In
INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463,
2019, vol. 41, no. 1, p. 12-20., Registrované v: WOS

133. [1.1] YUAN, P.H. - LV, M.X. - JIN, P. - WANG, M. - DU, G.C. -
CHEN, J. - KANG, Z. Enzymatic production of specifically distributed
hyaluronan oligosaccharides. In CARBOHYDRATE POLYMERS. ISSN
0144-8617, 2015, vol. 129, p. 194-200., Registrované v: WOS

134. [1.1] YUAN, X. - LI, R. - RAO, Z. - LI, H. - RONG, J. - TU, M. -
ZENG, R. - ZHAO, J. Synthesis and characterization of a dually crosslinked
heparin-conjugated HA hydrogel for BMP-2 sustained delivery. In
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND
POLYMERIC BIOMATERIALS. ISSN 0091-4037, 2016, vol. 65, no. 18, p.
928-937., Registrované v: WOS

135. [1.1] ZHU, Y. - KRUGLIKOV, I.L. - AKGUL, Y. - SCHERER, P.E.
Hyaluronan in adipogenesis, adipose tissue physiology and systemic metabolism.
In MATRIX BIOLOGY. ISSN 0945-053X, 2019, vol. 78-79, p. 284-291.,
Registrované v: WOS

136. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. -
GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. -
TROMBETTA, M. Hyaluronan: An overview. In JOURNAL OF
BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS. ISSN
0393-974X, E-ISSN 1724-6083, 2017, vol. 31, no. 4, p. 9-22., Registrované v:
SCOPUS

137. [1.2] ANDRÉ, P. - KAYA, G. Hyaluronic acid: Science, indications,
and results. (Book Chapter). In COSMETIC MEDICINE AND SURGERY.
CRC Press, 2017, p. 617-625. ISBN 978-131536326-4;978-148220809-2,
Registrované v: SCOPUS

138. [1.2] ARNHOLD, Jürgen. Cell and tissue destruction: Mechanisms,
protection, disorders. In Cell and Tissue Destruction: Mechanisms, Protection,
Disorders, 2019-01-01, pp. 1-334., Registrované v: SCOPUS

139. [1.2] BARTZOKA, E.D. - CRESTINI, C. - LANGE, H. Biomass
derived and biomass inspired polymers in pharmaceutical applications. (Book
Chapter). In HANDBOOK OF POLYMERS FOR PHARMACEUTICAL
TECHNOLOGIES. Wiley, 2015, vol. 3, p. 127-203. ISBN
978-111904145-0;978-111904142-9., Registrované v: SCOPUS

140. [1.2] BHATIA, S. Systems for drug delivery: Safety, animal, and microbial polysaccharides. In SYSTEMS FOR DRUG DELIVERY: SAFETY, ANIMAL, AND MICROBIAL POLYSACCHARIDES. Springer International Publishing, 2016, p. 1-197. ISBN 978-331941926-8; 978-331941925-1., Registrované v: SCOPUS
141. [1.2] CYPHERT, J.M. - TREMPUS, C.S. - GARANTZIOTIS, S. Size Matters: Molecular Weight Specificity of Hyaluronan Effects in Cell Biology. In INTERNATIONAL JOURNAL OF CELL BIOLOGY. ISSN 1687-8876, 2015, vol. 2015, article number 563818., Registrované v: SCOPUS
142. [1.2] HEDTRICH, S. - FRIE, W. Hyaluronic acid for percutaneous drug delivery. (Book Chapter). In PERCUTANEOUS PENETRATION ENHANCERS CHEMICAL METHODS IN PENETRATION ENHANCEMENT: MODIFICATION OF THE STRATUM CORNEUM. Springer Berlin Heidelberg 2015, p. 1-10. ISBN 978-366247039-8; 978-366247038-1, Registrované v: SCOPUS
143. [1.2] KUCHE, Kaushik - PANDEY, Pramina Kumari - PATHARKAR, Abhimanyu - MAHESHWARI, Rahul - TEKADE, Rakesh K. Hyaluronic Acid as an Emerging Technology Platform for Silencing RNA Delivery. In Biomaterials and Bionanotechnology, 2019-05-29, pp. 415-458., Registrované v: SCOPUS
144. [1.2] LAUER, M.E. - DWEIK, R.A. - GARANTZIOTIS, S. - ARONICA, M.A. The Rise and Fall of Hyaluronan in Respiratory Diseases. In INTERNATIONAL JOURNAL OF CELL BIOLOGY. ISSN 1687-8876, 2015, vol. 2015, article number 712507., Registrované v: SCOPUS
145. [1.2] LIANG, J. - JIANG, D. - NOBLE, P.W. Hyaluronan as a therapeutic target in human diseases. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2016, vol. 97, p. 186-203., Registrované v: SCOPUS
146. [1.2] MANOU, D. - CAON, I. - BOURIS, P. - TRIANTAPHYLLOIDOU, I.E. - GIARONI, C. - PASSI, A. - KARAMANOS, N.K. - VIGETTI, D. - THEOCHARIS, A.D. The complex interplay between extracellular matrix and cells in tissues. In METHODS IN MOLECULAR BIOLOGY. ISSN 10643745, 2019, vol. 1952, p. 1-20., Registrované v: SCOPUS
147. [1.2] MATTHES, S.A. - HADLEY, R. - ROMAN, J. - WHITE, E.S. Comparative Biology of the Normal Lung Extracellular Matrix. (Book Chapter). In COMPARATIVE BIOLOGY OF THE NORMAL LUNG: Second Edition. Elsevier Inc., 2015, p. 387-402. ISBN 978-012404577-4; 978-012404726-6, Registrované v: SCOPUS
148. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS
149. [1.2] PEREIRA, H. - SOUSA, D.A. - CUNHA, A. - ANDRADE, R. - ESPREGUEIRA-MENDES, J. - OLIVEIRA, J.M. - REIS, R.L. Hyaluronic acid. (Book Chapter). In ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY. ISSN 0065-2598, 2018, vol. 1059, p. 137-153., Registrované v: SCOPUS
150. [1.2] WIDOWATI, W. - GUNANEGARA, R. F. - RIZAL, R. -

WIDODO, W. S. - AMALIA, A. - WIBOWO, S. H.B. - HANDONO, K. - MARLINA, M. - LISTER, I. N.E. - CHIUMAN, L. Comparative Analysis of Wharton's Jelly Mesenchymal Stem Cell (WJ-MSCs) Isolated Using Explant and Enzymatic Methods. In Journal of Physics: Conference Series. ISSN 17426588, 2019-11-22, 1374, 1, pp., Registrované v: SCOPUS

151. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

152. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1195 STRATILOVÁ, Barbora - FIRÁKOVÁ, Zuzana, Zemková - KLAUDINY, Jaroslav - ŠESTÁK, Sergej - KOZMON, Stanislav - STROUHALOVÁ, Dana - GARAJOVÁ, Soňa - AIT-MOHAND, Fairouz - HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír - STRATILOVÁ, Eva - HRMOVÁ, Mária**. Engineering the acceptor substrate specificity in the xyloglucan endotransglycosylase TmXET6.3 from nasturtium seeds (*Tropaeolum majus* L.). In *Plant Molecular Biology*, 2019, vol. 100, no. 1-2, p. 181-197. (2018: 3.928 - IF, Q1 - JCR, 1.705 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0167-4412. Dostupné na: <https://doi.org/10.1007/s11103-019-00852-8>

Ohlasy:

1. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - SANHUEZA, Dayan - ROIG-SANCHEZ, Soledad - MEULEWAETER, Frank - HUDSON, Andrew - THOMSON, Axel - LAROMAIN, Anna - BUDTOVA, Tatiana - FRY, Stephen C. Enzymically attaching oligosaccharide-linked 'cargoes' to cellulose and other commercial polysaccharides via stable covalent bonds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 4359-4369. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.039>., Registrované v: WOS

2. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - PICMANOVA, Martina - LOH, Jia Wooi - VALENZUELA-ORTEGA, Marcos - MEULEWAETER, Frank - HUDSON, Andrew D. - FRENCH, Christopher E. - FRY, Stephen C. Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In MOLECULAR PLANT. ISSN 1674-2052, 2020, vol. 13, no. 7, pp. 1047-1062. Dostupné na: <https://doi.org/10.1016/j.molp.2020.04.011>., Registrované v: WOS

3. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované

v: WOS

4. [1.1] WANG, Tianwen - LIANG, Chen - HOU, Yajing - ZHENG, Mengyuan - XU, Hongju - AN, Yafei - XIAO, Sa - LIU, Lu - LIAN, Shuaibin. Small design from big alignment: engineering proteins with multiple sequence alignment as the starting point. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1305-1315. Dostupné na: <https://doi.org/10.1007/s10529-020-02914-0>., Registrované v: WOS

ADCA1196 STRATILOVÁ, Barbora - KLAUDINY, Jaroslav - ŘEHULKA, Pavel - STRATILOVÁ, Eva - MÉSZÁROSOVÁ, Csilla - GARAJOVÁ, Soňa - PAVLATOVSKÁ, Barbora - ŘEHULKOVÁ, Helena - KOZMON, Stanislav - ŠESTÁK, Sergej - FIRÁKOVÁ, Zuzana - Zemková - VADKERTIOVÁ, Renáta**. Characterization of a long-chain alfa-galactosidase from *Papiliotrema flavescens*. In *World Journal of Microbiology & Biotechnology*, 2018, vol. 34, article no. 19. (2017: 2.100 - IF, Q3 - JCR, 0.604 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1007/s11274-017-2403-6>

Ohlasy:

1. [1.1] BHATIA, Sonu - SINGH, Abhinashi - BATRA, Navneet - SINGH, Jagtar. Microbial production and biotechnological applications of alpha-galactosidase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1294-1313. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.140>., Registrované v: WOS

2. [1.1] INTO, Parichat - PONTES, Ana - SAMPAIO, Jose Paulo - LIMTONG, Savitree. Yeast Diversity Associated with the Phylloplane of Corn Plants Cultivated in Thailand. In MICROORGANISMS, 2020, vol. 8, no. 1, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8010080>., Registrované v: WOS

ADCA1197 STRATILOVÁ, Eva - DZÚROVÁ, Mária - BREIEROVÁ, Emília - OMELKOVÁ, Jiřina. Purification and biochemical characterization of polygalacturonases produced by *Aureobasidium pullulans*. In *Zeitschrift für Naturforschung C*, 2005, vol. 60, p. 91-96. ISSN 0939-5075.

Ohlasy:

1. [1.1] BENNAMOUN, Leila - HILIGSMANN, Serge - DAKHMOUCHE, Scheherazad - AIT-KAKI, Amel - LABBANI, Fatima-Zohra Kenza - NOUADRI, Tahar - MERAIHI, Zahia - TURCHETTI, Benedetta - BUZZINI, Pietro - THONART, Philippe. Production and Properties of a Thermostable, pH-Stable Exo-Polygalacturonase Using *Aureobasidium pullulans* Isolated from Saharan Soil of Algeria Grown on Tomato Pomace. In FOODS. ISSN 2304-8158, 2016, vol. 5, no. 4, pp., Registrované v: WOS

2. [1.1] LUEPONGPATTANA, S. - THANIYAVARN, J. - MORIKAWA, M. Production of massoia lactone by *Aureobasidium pullulans* YTP6-14 isolated from the Gulf of Thailand and its fragrant biosurfactant properties. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2017, vol. 123, no. 6, pp. 1488-1497., Registrované v: WOS

ADCA1198 STRATILOVÁ, Eva - AIT-MOHAND, Fairouz - ŘEHULKA, Pavel - GARAJOVÁ, Soňa - FLODROVÁ, Dana - ŘEHULKOVÁ, Helena - FARKAŠ,

Vladimír. Xyloglucan endotransglycosylases (XETs) from germinating nasturtium (*Tropaeolum majus*) seeds: Isolation and characterization of the major form. In *Plant Physiology and Biochemistry*, 2010, vol.48, p. 207-215. (2009: 2.485 - IF, 1.153 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2010.01.016>

Ohlasy:

1. [1.1] FRANKOVA, Lenka - FRY, Stephen C. A general method for assaying homo- and hetero-transglycanase activities that act on plant cell-wall polysaccharides. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2015, vol. 57, no. 4, pp. 411-428., Registrované v: WOS
2. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
3. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - PICMANOVA, Martina - LOH, Jia Wooi - VALENZUELA-ORTEGA, Marcos - MEULEWAETER, Frank - HUDSON, Andrew D. - FRENCH, Christopher E. - FRY, Stephen C. Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In *MOLECULAR PLANT*. ISSN 1674-2052, 2020, vol. 13, no. 7, pp. 1047-1062. Dostupné na: <https://doi.org/10.1016/j.molp.2020.04.011>., Registrované v: WOS
4. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované v: WOS
5. [1.1] NGUYEN-PHAN, Tu C. - FRY, Stephen C. Functional and chemical characterization of XAF: a heat-stable plant polymer that activates xyloglucan endotransglucosylase/hydrolase (XTH). In *ANNALS OF BOTANY*. ISSN 0305-7364, 2019, vol. 124, no. 1, pp. 131-147., Registrované v: WOS
6. [1.1] SARITHA, M. - ARORA, Anju - CHOUDHARY, Jairam - RANI, Vijaya - SINGH, Surender - SHARMA, Anamika - SHARMA, Shalley - NAIN, Lata. The Role and Applications of Xyloglucan Hydrolase in Biomass Degradation/Bioconversion. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 231-248., Registrované v: WOS
7. [1.1] SHINOHARA, Naoki - SUNAGAWA, Naoki - TAMURA, Satoru - YOKOYAMA, Ryusuke - UEDA, Minoru - IGARASHI, Kiyohiko - NISHITANI, Kazuhiko. The plant cell-wall enzyme AtXTH3 catalyses covalent cross-linking between cellulose and cello-oligosaccharide. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
8. [1.1] SIMMONS, Thomas J. - MOHLER, Kyle E. - HOLLAND, Claire - GOUBET, Florence - FRANKOVA, Lenka - HOUSTON, Douglas R. - HUDSON, Andrew D. - MEULEWAETER, Frank - FRY, Stephen C. Hetero-trans--glucanase, an enzyme unique to Equisetum plants, functionalizes cellulose. In *PLANT JOURNAL*. ISSN 0960-7412, 2015, vol. 83, no. 5, pp.

753-769., Registrované v: WOS

9. [1.1] ZOU, Hanyan - WENWEN, Yihao - ZANG, Guangchao - KANG, Zhenhui - ZHANG, Zhiyong - HUANG, Junli - WANG, Guixue. OsEXPB2, a beta-expansin gene, is involved in rice root system architecture. In MOLECULAR BREEDING. ISSN 1380-3743, 2015, vol. 35, no. 1, pp., Registrované v: WOS

ADCA1199 STREĎANSKÝ, Miroslav - MONOŠÍK, Rastislav - MASTIHUBA, Vladimír - ŠTURDÍK, Ernest. Monitoring of PQQ-Dependent Glucose Dehydrogenase Substrate Specificity for Its Potential Use in Biocatalysis and Bioanalysis. In *Applied Biochemistry and Biotechnology*, 2013, vol. 171, p. 1032-1041. (2012: 1.893 - IF, Q3 - JCR, 0.765 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0273-2289. Dostupné na: <https://doi.org/10.1007/s12010-013-0419-4>

Ohlasy:

1. [1.1] GALANT, A. L. - KAUFMAN, R. C. - WILSON, J. D. Glucose: Detection and analysis. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 188, no., pp. 149-160., Registrované v: WOS
2. [1.1] LISDAT, Fred. PQQ-GDH Structure, function and application in bioelectrochemistry. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107496>., Registrované v: WOS
3. [1.1] OH, Yu-Ri - JANG, Young-Ah - HONG, Soon Ho - EOM, Gyeong Tae. Purification and Characterization of a Malate:Quinone Oxidoreductase from Pseudomonas taetrolens Capable of Producing Valuable Lactobionic Acid. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 47, pp. 13770-13778. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c04094>., Registrované v: WOS
4. [1.1] PU, Yue - DONG, Chang - HANG, Baojian - HUANG, Lei - CAI, Jin - XU, Zhinan. Novel approach for the evolution of pyrroloquinoline quinone glucose dehydrogenase by multiplex-site in situ engineering. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2016, vol. 51, no. 12, pp. 2011-2016., Registrované v: WOS
5. [1.1] VAITKUTE, Greta - BRATKOVSKAJA, Irina - CASAITE, Vida - STANKEVICIUTE, Jonita - MESKYS, Rolandas - TETIANEC, Lidija. Electron transfer mediators for PQQ dependent soluble glucose dehydrogenase catalyzed lactose oxidation reaction. In CHEMIJA. ISSN 0235-7216, 2019, vol. 30, no. 3, pp. 194-200., Registrované v: WOS
6. [1.1] YANG, Yufeng - HUANG, Lei - WANG, Jufang - XU, Zhinan. Expression, characterization and mutagenesis of an FAD-dependent glucose dehydrogenase from Aspergillus terreus. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 68, no., pp. 43-49., Registrované v: WOS
7. [1.2] TOYAMA, Hirohide. Pyrroloquinoline Quinone (PQQ). In Industrial Biotechnology of Vitamins, Biopigments, and Antioxidants, 2016-04-29, pp. 367-388., Registrované v: SCOPUS

ADCA1200 STREĎANSKÝ, Miroslav - REDIVO, Luca** - MAGDOLEN, Peter - STREĎANSKÝ, Adam - NAVARINI, Luciano. Rapid sucrose monitoring in green coffee samples using multienzymatic biosensor. In *Food Chemistry*, 2018, vol. 254,

p. 8-12. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2018.01.171>

Ohlasy:

1. [1.1] AKSORN, Jinakan - TEEPOO, Siriwan. Development of the simultaneous colorimetric enzymatic detection of sucrose, fructose and glucose using a microfluidic paper-based analytical device. In TALANTA. ISSN 0039-9140, 2020, vol. 207, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2019.120302>., Registrované v: WOS
2. [1.1] KUCHERENKO, I. S. - SOLDATKIN, O. O. - DZYADEVYCH, S. V. - SOLDATKIN, A. P. Electrochemical biosensors based on multienzyme systems: Main groups, advantages and limitations A review. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1111, no., pp. 114-131. Dostupné na: <https://doi.org/10.1016/j.aca.2020.03.034>., Registrované v: WOS
3. [1.1] LEBOT, Vincent - MELTERAS, Marie - PILECKI, Andre - LABOUISE, Jean-Pierre. Chemometric evaluation of cocoa (*Theobroma cacao* L.) and coffee (*Coffea* spp.) germplasm using HPTLC. In GENETIC RESOURCES AND CROP EVOLUTION. ISSN 0925-9864, 2020, vol. 67, no. 4, pp. 895-911. Dostupné na: <https://doi.org/10.1007/s10722-020-00888-6>., Registrované v: WOS
4. [1.1] LI, Na - DONG, Jing - DONG, Chenglong - HAN, Yehua - LIU, Huwei - DU, Fuyou - NIE, Honggang. Spatial Distribution of Endogenous Molecules in Coffee Beans by Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2020, vol. 31, no. 12, pp. 2503-2510. Dostupné na: <https://doi.org/10.1021/jasms.0c00202>., Registrované v: WOS
5. [1.1] MACHIN, Belen - CHAVES, Silvina - AVILA, Cesar - PERA, Licia Maria - CHEHIN, Rosana Nieves - PINGITORE, Esteban Vera. Highly reusable invertase biocatalyst: Biological fibrils functionalized by photocrosslinking. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 331, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127322>., Registrované v: WOS
6. [1.1] REN, Sizhu - LI, Conghai - JIAO, Xiaobo - JIA, Shiru - JIANG, Yanjun - BILAL, Muhammad - CUI, Jiandong. Recent progress in multienzymes co-immobilization and multienzyme system applications. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2019, vol. 373, no., pp. 1254-1278., Registrované v: WOS
7. [1.1] SHITANDA, Isao - KATAGISHI, Kensuke - KISHIRO, Kanako - SUZUKI, Norihiro - NAKATA, Kazuya - KATSUMATA, Ken-ichi - TERASHIMA, Chiaki - HOSHI, Yoshinao - ITAGAKI, Masayuki - FUJISHIMA, Akira. Proof of Concept of Sucrose Measurement Method that Combines Photocatalysis with Enzymatic Reaction. In CHEMISTRY LETTERS. ISSN 0366-7022, 2019, vol. 48, no. 10, pp. 1251-1253., Registrované v: WOS
8. [1.1] SOGANCI, Tugba - AYRANCI, Rukiye - HARPUTLU, Ersan - OCAKOGLU, Kasim - ACET, Mehmet - FARLE, Michael - UNLU, C. Gokhan - AK, Metin. An effective non-enzymatic biosensor platform based on copper nanoparticles decorated by sputtering on CVD graphene. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 273, no., pp.

1501-1507., Registrované v: WOS

9. [1.1] WANG, Xiaodan - DUAN, Jinjiao - CAI, Yingming - LIU, Dengyong - LI, Xing - DONG, Yanli - HU, Feng. A modified nanocomposite biosensor for quantitative L-glutamate detection in beef. In MEAT SCIENCE. ISSN 0309-1740, 2020, vol. 168, no., pp. Dostupné na: <https://doi.org/10.1016/j.meatsci.2020.108185>., Registrované v: WOS

ADCA1201 SUGITA, T. - TAKEO, K. - HAMA, K. - VIRTUDAZO, E. - TAKASHIMA, M. - NISHIKAWA, A. - KUCSERA, J. - DOROG, J. - KOMORI, S. - NAKAGAKO, K. - VOLLEKOVÁ, A. - SLÁVIKOVÁ, Elena - FARKAŠ, Vladimír. DNA sequences diversity of intergenic spacer I region in the non-lipid-dependent species *Malassezia pachydermatis* isolated from animals. In *Medical mycology*, 2005, vol. 43, p. 21-26.

Ohlasy:

1. [1.1] CZYZEWSKA, Urszula - SIEMIENIUK, Magdalena - BARTOSZEWICZ, Marek - TYLICKI, Adam. Fungi of the genus *Malassezia* as opportunists of humans and animals. In POSTĘPY HIGIENY I MEDYCYNY DOSWIADCZALNEJ. ISSN 0032-5449, 2018, vol. 72, no., pp. 359-375., Registrované v: WOS

2. [1.1] HADINA, Suzana - BORAS, Jadranko - BATA, Ingeborg - SKRLIN, Branimir - STARESINA, Vilim - BARBIC, Ljubo - PERKO, Vesna Mojcec - STRITOF, Zrinka - STEVANOVIC, Vladimir - HABUS, Josipa - PERHARIC, Matko - MILAS, Zoran - TURK, Nenad - PINTER, Ljiljana. Isolation and molecular characterization of *Malassezia pachydermatis* from a cutaneous lesion in a California sea lion (*Zalophus californianus*). In VETERINARSKI ARHIV. ISSN 0372-5480, 2019, vol. 89, no. 2, pp. 211-221., Registrované v: WOS

3. [1.1] ILAHI, Amin - HADRICHI, Ines - GOUDJIL, Sabrina - KONGOLO, Guy - CHAZAL, Christele - LEKE, Andre - AYADI, Ali - CHOUAKI, Taieb - RANQUE, Stephane. Molecular epidemiology of a *Malassezia pachydermatis* neonatal unit outbreak. In MEDICAL MYCOLOGY. ISSN 1369-3786, 2018, vol. 56, no. 1, pp. 69-77., Registrované v: WOS

4. [1.1] PUIG, Laura - CASTELLA, Gemma - JAVIER CABAES, F. Cryptic Diversity of *Malassezia pachydermatis* from Healthy and Diseased Domestic Animals. In MYCOPATHOLOGIA. ISSN 0301-486X, 2016, vol. 181, no. 9-10, pp. 681-688., Registrované v: WOS

5. [1.1] SONG XIAO-XIA - ZHAO YAN - SONG CHUN-YAN - LI CHUAN-HUA - CHEN MING-JIE - HUANG JIAN-CHUN - TAN QI. Intergenic spacer 1 (IGS1) polymorphism map: A marker for the initial classification of cultivated *Lentinula edodes* strains in China. In JOURNAL OF INTEGRATIVE AGRICULTURE. ISSN 2095-3119, 2018, vol. 17, no. 11, pp. 2458-2466., Registrované v: WOS

ADCA1202 SUCHÁNKOVÁ, Magda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MAJER, Ivan - TEDLOVÁ, Eva - NOVOSADOVÁ, Helena - TIBENSKÁ, Elena - TEDLA, Miroslav. Increased antifungal antibodies in bronchoalveolar lavage fluid and serum in pulmonary sarcoidosis. In *Scandinavian Journal of Immunology*, 2015, vol. 81, p. 259-264. (2014: 1.739 - IF, Q4 - JCR, 0.901 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0300-9475. Dostupné na: <https://doi.org/10.1111/sji.12273>

Ohlasy:

1. [1.1] BENITO-LEON, Julian - LAURENCE, Martin. The Role of Fungi in the Etiology of Multiple Sclerosis. In FRONTIERS IN NEUROLOGY. ISSN 1664-2295, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] CARLEO, Alfonso - BENNETT, David - ROTTOLI, Paola. Biomarkers in sarcoidosis: the contribution of system biology. In CURRENT OPINION IN PULMONARY MEDICINE. ISSN 1070-5287, 2016, vol. 22, no. 5, pp. 509-514., Registrované v: WOS
3. [1.1] CLARKE, Erik L. - LAUDER, Abigail P. - HOFSTAEDTER, Casey E. - HWANG, Young - FITZGERALD, Ayannah S. - IMAI, Ize - BIERNAT, Wojciech - REKAWIECKI, Bartłomiej - MAJEWSKA, Hanna - DUBANIEWICZ, Anna - LITZKY, Leslie A. - FELDMAN, Michael D. - BITTINGER, Kyle - ROSSMAN, Milton D. - PATTERSON, Karen C. - BUSHMAN, Frederic D. - COLLMAN, Ronald G. Microbial Lineages in Sarcoidosis A Metagenomic Analysis Tailored for Low-Microbial Content Samples. In AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE. ISSN 1073-449X, 2018, vol. 197, no. 2, pp. 225-234., Registrované v: WOS
4. [1.1] ESTEVES, Tiago - APARICIO, Gloria - GARCIA-PATOS, Vicente. Is there any association between Sarcoidosis and infectious agents?: a systematic review and meta-analysis. In BMC PULMONARY MEDICINE. ISSN 1471-2466, 2016, vol. 16, no., pp., Registrované v: WOS
5. [1.1] HWANG, De-Kuang - SHEU, Shwu-Jiuan. An update on the diagnosis and management of ocular sarcoidosis. In CURRENT OPINION IN OPHTHALMOLOGY. ISSN 1040-8738, 2020, vol. 31, no. 6, pp. 521-531. Dostupné na: <https://doi.org/10.1097/ICU.0000000000000704>., Registrované v: WOS
6. [1.1] JUDSON, Marc A. Environmental Risk Factors for Sarcoidosis. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.01340>., Registrované v: WOS
7. [1.1] ROSSIDES, Marios - KULLBERG, Susanna - ASKLING, Johan - EKLUND, Anders - GRUNEWALD, Johan - DI GIUSEPPE, Daniela - ARKEMA, Elizabeth V. Are infectious diseases risk factors for sarcoidosis or a result of reverse causation? Findings from a population-based nested case-control study. In EUROPEAN JOURNAL OF EPIDEMIOLOGY. ISSN 0393-2990, 2020, vol. 35, no. 11, pp. 1087-1097. Dostupné na: <https://doi.org/10.1007/s10654-020-00611-w>., Registrované v: WOS
8. [1.1] TERCELJ, Marjeta - SALOBIR, Barbara - RYLANDER, Ragnar. beta-GLUCAN IN THE LYMPH NODES IN SARCOIDOSIS AND IN KVEIM-SILTZBACH TEST REAGENT. In SARCOIDOSIS VASCULITIS AND DIFFUSE LUNG DISEASES. ISSN 1124-0490, 2017, vol. 34, no. 2, pp. 130-135., Registrované v: WOS
9. [1.1] VITERI, Ernesto - FORAY, Nathalie - SONG, Mingchen - LONG, Danxuan. A Case of Chronic Cough in a Winemaker. In RESPIRATORY MEDICINE CASE REPORTS. ISSN 2213-0071, 2017, vol. 21, no., pp. 46-48., Registrované v: WOS

ADCA1203 SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - TEDLOVÁ, Eva - DEMIAN, Juraj - MAJER, Ivan - NOVOSADOVÁ, Helena - TEDLA, Miroslav - PAULOVICHOVÁ, Ema - KANTAROVÁ, Daniela. Triggering

receptor expressed on myeloid cells-1 and 2 in bronchoalveolar lavage fluid in pulmonary sarcoidosis. In *Respirology*, 2013, vol. 18, p. 455-462. (2012: 2.781 - IF, Q2 - JCR, 1.089 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1323-7799. Dostupné na: <https://doi.org/10.1111/resp.12028>

Ohlasy:

1. [1.1] BASSYOUNI, Iman H. - FAWZI, Samar - GHEITA, Tamer A. - BASSYOUNI, Rasha H. - NASR, Aml S. - EL BAKRY, Samah A. - AFIFI, Naglaa. Clinical Association of a Soluble Triggering Receptor Expressed on Myeloid Cells-1 (sTREM-1) in Patients with Systemic Lupus Erythematosus. In *IMMUNOLOGICAL INVESTIGATIONS*. ISSN 0882-0139, 2017, vol. 46, no. 1, pp. 38-47., Registrované v: WOS
2. [1.1] HALL, Sannette C. - AGRAWAL, Devendra K. Increased TREM-2 expression on the subsets of CD11c(+) cells in the lungs and lymph nodes during allergic airway inflammation. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] SHEN, Yongchun - PANG, Caishuang - WU, Yanqiu - LI, Diandian - WAN, Chun - LIAO, Zenglin - YANG, Ting - CHEN, Lei - WEN, Fuqiang. Diagnostic Performance of Bronchoalveolar Lavage Fluid CD4/CD8 Ratio for Sarcoidosis: A Meta-analysis. In *EBIOMEDICINE*. ISSN 2352-3964, 2016, vol. 8, no., pp. 302-308., Registrované v: WOS
4. [1.2] MARCO, Sean A. - BROWN, Craig - PANCOAST, Thomson. Diagnostic Utility of CD4/CD8 Ratio in Bronchoalveolar Lavage. In *Clinical Pulmonary Medicine*. ISSN 10680640, 2018-01-01, 25, 2, pp. 67-73., Registrované v: SCOPUS
5. [1.2] TAO, Ye - ZHAO, Xin You - FANG, Guang. Calcitonin effect on cartilage morphology and proteoglycan expression in rats with osteoarthritis. In *Chinese Journal of Tissue Engineering Research*. ISSN 16738225, 2015-01-01, 19, 42, pp. 6735-6739., Registrované v: SCOPUS
6. [1.2] YE, Pei - LI, Jian hua - XU, Jin huang - HUANG, Sheng hui - LIU, Gui wang - ZHANG, Wei qiong - ZHENG, Pei zhong - HUANG, Jian rong. Triggering receptor expressed on myeloid cells 2 in synovial tissue of rheumatoid arthritis rats. In *Chinese Journal of Tissue Engineering Research*. ISSN 16738225, 2015-04-30, 19, 18, pp. 2807-2813., Registrované v: SCOPUS

ADCA1204 SUCHÝ, M. - KUTSCHY, P. - DZURILLA, M. - KOVÁČIK, Vladimír - ANDREANI, A. - ALFOLDI, Juraj. 1,3-Thiazino[6,5-b]indol-4-one derivatives. The first synthesis of indole phytoalexin cyclobrassinon. In *Tetrahedron Letters*, 2001, vol. 42, p. 6961-6963. ISSN 0040-4039. Dostupné na: [https://doi.org/10.1016/S0040-4039\(01\)01422-8](https://doi.org/10.1016/S0040-4039(01)01422-8)

Ohlasy:

1. [1.1] SILVERBERG, Lee J. - MOYER, Quentin J. Chemistry of 1,3-thiazin-4-ones and their derivatives, 1995-mid-2018. In *ARKIVOC*. ISSN 1551-7004, 2019, vol., no., pp. 139-227., Registrované v: WOS

ADCA1205 SULO, Pavol - LAURENČÍK, M. - POLÁKOVÁ, S. - MINÁRIK, G. - SLÁVIKOVÁ, Elena. *Geotrichum bryndzae* sp. nov., a novel asexual arthroconidial yeast species related to the genus *Galactomyces*. In *International journal of systematic and evolutionary microbiology*, vol. ISSN 1466-5026. Dostupné na: <https://doi.org/10.1099/ij.s.0.008938-0>

Ohlasy:

1. [1.1] KONUCHOVA, Martina - LIPTAKOVA, Denisa - SIPKOVA, Anna - VALIK, L'ubomir. Role of *Geotrichum candidum* in Dairy Industry. In CHEMICKE LISTY. ISSN 0009-2770, 2016, vol. 110, no. 7, pp. 491-497., Registrované v: WOS
2. [1.2] PLANÝ, Matej - KUČHTA, Tomáš - ŠOLTÝS, Katarína - SZEMES, Tomáš - PANGALLO, Domenico - SIEKEL, Peter. Metagenomic analysis of slovak bryndza cheese using next-generation 16S rDNA amplicon sequencing. In Nova Biotechnologica et Chimica. ISSN 13386905, 2016-06-01, 15, 1, pp. 23-34., Registrované v: SCOPUS

ADCA1206 SULO, Pavol - LAURENČÍK, Michal - POLÁKOVÁ, Silvia - MINÁRIK, Gabriel - SLÁVIKOVÁ, Elena. *Geotrichum bryndzae* sp. nov. a novel asexual arthroconidial yeast species related to the genus *Galactomyces*. Silvia Poláková, Gabriel Minarik, Elena Sláviková. In *International Journal of Systematic and Evolutionary Microbiology*, 2009, vol.59, p.2370-2374. (2008: 2.222 - IF, Q2 - JCR, 1.068 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1466-5026. Dostupné na: <https://doi.org/10.1099/ijms.0.008938-0>

Ohlasy:

1. [1.1] CAI, Shiyu - SNYDER, Abigail B. Machinery Mold (*Galactomyces geotrichum*) Survival following Thermal and Hydrostatic Pressure Processing. In JOURNAL OF FOOD PROTECTION. ISSN 0362-028X, 2019, vol. 82, no. 6, pp. 1034-1038., Registrované v: WOS
2. [1.1] DROUIN, Pascal - TREMBLAY, Julien - CHAUCHEYRAS-DURAND, Frederique. Dynamic Succession of Microbiota during Ensiling of Whole Plant Corn Following Inoculation with *Lactobacillus buchneri* and *Lactobacillus hilgardii* Alone or in Combination. In MICROORGANISMS, 2019, vol. 7, no. 12, pp., Registrované v: WOS
3. [1.1] JACQUES, Noemie - MALLET, Sandrine - LAAGHOUITI, Fatima - TINSLEY, Colin R. - CASAREGOLA, Serge. Specific populations of the yeast *Geotrichum candidum* revealed by molecular typing. In YEAST. ISSN 0749-503X, 2017, vol. 34, no. 4, pp. 165-178., Registrované v: WOS
4. [1.1] KONUCHOVA, Martina - VALIK, Lubomir. Evaluation of radial growth dynamics variability of *Geotrichum candidum*: A quantitative approach. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2017, vol. 56, no. 2, pp. 155-166., Registrované v: WOS

ADCA1207 SULOVÁ, Zdena - LEDNICKA, M. - FARKAŠ, Vladimír. A colorimetric assay for xyloglucan-endotransglycosylase from germinating-seeds. In *Analytical Biochemistry*, 1995, vol. 229, issue 1, p. 80-85. ISSN 0003-2697. Dostupné na: <https://doi.org/10.1006/abio.1995.1381>

Ohlasy:

1. [1.1] DOGRA, Vivek - SHARMA, Ruchika - YELAM, Sreenivasulu. Xyloglucan endo-transglycosylase/hydrolase (XET/H) gene is expressed during the seed germination in *Podophyllum hexandrum*: a high altitude Himalayan plant. In PLANTA. ISSN 0032-0935, 2016, vol. 244, no. 2, pp. 505-515., Registrované v: WOS
2. [1.1] FRANKOVA, Lenka - FRY, Stephen C. A general method for assaying homo- and hetero-transglycanase activities that act on plant cell-wall polysaccharides. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN

1672-9072, 2015, vol. 57, no. 4, pp. 411., Registrované v: WOS

3. [1.1] HAN, Ye - ZHU, Qinggang - ZHANG, Zhengke - MENG, Kun - HOU, Yali - BAN, Qiuyan - SUO, Jiangtao - RAO, Jingping. Analysis of Xyloglucan Endotransglycosylase/Hydrolase (XTH) Genes and Diverse Roles of Isoenzymes during Persimmon Fruit Development and Postharvest Softening. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

4. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS

5. [1.1] JIANG, Yan - LI, Yuhua - LU, Chen - TANG, Yanni - JIANG, Xiangning - GAI, Ying. Isolation and characterization of Populus xyloglucan endotransglycosylase/hydrolase (XTH) involved in osmotic stress responses. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1277-1287. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.099>., Registrované v: WOS

6. [1.1] MENDEZ-YANEZ, Angela - BELTRAN, Dina - CAMPANO-ROMERO, Constanza - MOLINETT, Sebastian - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria - MORALES-QUINTANA, Luis. Glycosylation is important for FcXTH1 activity as judged by its structural and biochemical characterization. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 119, no., pp. 200-210., Registrované v: WOS

7. [1.1] MORALES-QUINTANA, Luis - CARRASCO-ORELLANA, Cristian - BELTRAN, Dina - ALEJANDRA MOYA-LEON, Maria - HERRERA, Raul. Molecular insights of a xyloglucan endo-transglycosylase/hydrolase of radiata pine (PrXTH1) expressed in response to inclination: Kinetics and computational study. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2019, vol. 136, no., pp. 155-161., Registrované v: WOS

8. [1.1] MORALES-QUINTANA, Luis - BELTRAN, Dina - MENDEZ-YANEZ, Angela - VALENZUELA-RIFFO, Felipe - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria. Characterization of FcXTH2, a Novel Xyloglucan Endotransglycosylase/Hydrolase Enzyme of Chilean Strawberry with Hydrolase Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 9, pp. Dostupné na: <https://doi.org/10.3390/ijms21093380>., Registrované v: WOS

9. [1.1] RAMOS, Patricio - PARRA-PALMA, Carolina - FIGUEROA, Carlos R. - ZUNIGA, Paz E. - VALENZUELA-RIFFO, Felipe - GONZALEZ, Jaime - GAETE-EASTMAN, Carlos - MORALES-QUINTANA, Luis. Cell wall-related enzymatic activities and transcriptional profiles in four strawberry (Fragaria x ananassa) cultivars during fruit development and ripening. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2018, vol. 238, no., pp. 325-332., Registrované v: WOS

10. [1.1] SHI, Yuan Zhi - ZHU, Xiao Fang - MILLER, Janice G. - GREGSON, Timothy - ZHENG, Shao Jian - FRY, Stephen C. Distinct catalytic capacities of two aluminium-repressed Arabidopsis thaliana xyloglucan endotransglucosylase/hydrolases, XTH15 and XTH31, heterologously produced in Pichia. In PHYTOCHEMISTRY. ISSN 0031-9422, 2015, vol. 112, no., pp. 160., Registrované v: WOS

11. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS
12. [1.1] ZHANG, Zongying - WANG, Nan - JIANG, Shenghui - XU, Haifeng - WANG, Yicheng - WANG, Chuanzeng - LI, Min - LIU, Jingxuan - QU, Changzhi - LIU, Wen - WU, Shujing - CHEN, Xiaoliu - CHEN, Xuesen. Analysis of the Xyloglucan Endotransglucosylase/Hydrolase Gene Family during Apple Fruit Ripening and Softening. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 2, pp. 429-434., Registrované v: WOS
13. [1.2] LIU, Jingxuan - XU, Haifeng - WANG, Deyun - ZHANG, Zongying - WANG, Yicheng - ZUO, Weifang - WANG, Nan - JIANG, Shenghui - MAO, Zhiquan - CHEN, Xuesen. Changes of firmness, aroma, cell wall-modifying enzyme activities and analysis of related-gene expression in 2 red flesh apple strains during fruit storage. In Acta Horticulturae Sinica. ISSN 0513353X, 2017-02-25, 44, 2, pp. 330-342., Registrované v: SCOPUS

ADCA1208 SULOVÁ, Zdena - BARAN, R. - FARKAŠ, Vladimír. Divergent modes of action on xyloglucan of two isoenzymes of xyloglucan endo-transglycosylase from *Tropaeolum majus*. In *Plant Physiology and Biochemistry : an official journal of the Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant Biology (Société Française de Biologie Végétale (SFBV))*, 2003, vol. 41, no. 5, p. 431-437. ISSN 0981-9428. Dostupné na: [https://doi.org/10.1016/S0981-9428\(03\)00050-0](https://doi.org/10.1016/S0981-9428(03)00050-0)

Ohlasy:

1. [1.1] HAN, Ye - BAN, Qiuyan - HOU, Yali - MENG, Kun - SUO, Jiangtao - RAO, Jingping. Isolation and Characterization of Two Persimmon Xyloglucan Endotransglycosylase/Hydrolase (XTH) Genes That Have Divergent Functions in Cell Wall Modification and Fruit Postharvest Softening. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2016, vol. 7, no., pp., Registrované v: WOS
2. [1.1] HAN, Ye - BAN, Qiuyan - LI, Hua - HOU, Yali - JIN, Mijing - HAN, Shoukun - RAO, Jingping. DkXTH8, a novel xyloglucan endotransglucosylase/hydrolase in persimmon, alters cell wall structure and promotes leaf senescence and fruit postharvest softening. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2016, vol. 6, no., pp., Registrované v: WOS
3. [1.1] HAN, Ye - ZHU, Qinggang - ZHANG, Zhengke - MENG, Kun - HOU, Yali - BAN, Qiuyan - SUO, Jiangtao - RAO, Jingping. Analysis of Xyloglucan Endotransglycosylase/Hydrolase (XTH) Genes and Diverse Roles of Isoenzymes during Persimmon Fruit Development and Postharvest Softening. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 4, pp., Registrované v: WOS

ADCA1209 SULOVÁ, Zdena - HRMOVÁ, Mária - FARKAŠ, Vladimír. Photostimulated oxygen uptake in *Trichoderma viride*. In *Journal of General Microbiology*, 1990, vol. 136, p. 2287.

Ohlasy:

1. [1.1] LOKHANDWALA, Jameela - HOPKINS, Hilary C. - RODRIGUEZ-IGLESIAS, Aroa - DATTENBOECK, Christoph - SCHMOLL,

Monika - ZOLTOWSKI, Brian D. Structural Biochemistry of a Fungal LOV Domain Photoreceptor Reveals an Evolutionarily Conserved Pathway Integrating Light and Oxidative Stress. In *STRUCTURE*. ISSN 0969-2126, 2015, vol. 23, no. 1, pp. 116., Registrované v: WOS

2. [1.1] SCHMOLL, Monika. Light, stress, sex and carbon The photoreceptor ENVOY as a central checkpoint in the physiology of *Trichoderma reesei*. In *FUNGAL BIOLOGY*. ISSN 1878-6146, 2018, vol. 122, no. 6, pp. 479-486., Registrované v: WOS

ADCA1210 SULOVA, Zdena - BARAN, Richard - FARKAS, Vladimir. Release of complexed xyloglucan endotransglycosylase (XET) from plant cell walls by a transglycosylation reaction with xyloglucan-derived oligosaccharides. In *Plant Physiology and Biochemistry*, 2001, vol. 39, p. 927-932. ISSN 0981-9428. Dostupné na: [https://doi.org/10.1016/S0981-9428\(01\)01313-4](https://doi.org/10.1016/S0981-9428(01)01313-4)

Ohlasy:

1. [1.1] ALVES, Ana - CAEIRO, Andre - CORREIA, Sandra Isabel - VERISSIMO, Paula - CANHOTO, Jorge. Establishment and biochemical characterization of tamarillo (*Solanum betaceum* Cav.) embryogenic cell suspension cultures. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2017, vol. 53, no. 6, pp. 606-618., Registrované v: WOS

2. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>, Registrované v: WOS

3. [1.1] LIN, Shoukai - WU, Ti - LIN, Hailan - ZHANG, Yanqing - XU, Shichang - WANG, Jing - WU, Bisha - CHEN, Yu - LIN, Suying - LIN, Dahe - WANG, Xiumei - ZHAO, Xiaoxu - WU, Jincheng. De Novo Analysis Reveals Transcriptomic Responses in *Eriobotrya japonica* Fruits during Postharvest Cold Storage. In *GENES*. ISSN 2073-4425, 2018, vol. 9, no. 12, pp., Registrované v: WOS

ADCA1211 SULOVA, Zdena - MISLOVIČOVÁ, Danica - GIBALOVÁ, Lenka - VAJCNEROVÁ, Z - POLÁKOVÁ, Eva - UHRÍK, Branislav - TYLKOVÁ, Lucia - KOVÁROVÁ, Annamaria - SEDLÁK, Ján - BREIER, Albert. Vincristine-Induced Overexpression of P-Glycoprotein in L1210 Cells Is Associated with Remodeling of Cell Surface Saccharides. In *Journal of Proteome Research*, 2009, vol. 8, no. 2, p. 513-520. (2008: 5.684 - IF, Q1 - JCR, 2.036 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1535-3893.

Ohlasy:

1. [1.1] ALZATE, Juliana M. - MONTROYA-FLOREZ, Luis M. - PEREZ, Jorge E. - ROCHA, Noeme S. - PEDRAZA-ORDONEZ, Francisco J. The role of the multi-drug resistance 1, p53, b cell lymphoma 2, and bcl 2-associated X genes in the biologic behavior and chemotherapeutic resistance of canine transmissible venereal tumors. In *VETERINARY CLINICAL PATHOLOGY*. ISSN 0275-6382, 2019, vol. 48, no. 4, pp. 730-739., Registrované v: WOS

2. [1.1] FLOREZ, M. M. - FEO, H. B. - DA SILVA, G. N. - YAMATOGLI, R. S. - AGUIAR, A. J. - ARAUJO, J. P. - ROCHA, N. S. Cell cycle kinetics, apoptosis rates and gene expressions of MDR-1, TP53, BCL-2 and BAX in transmissible venereal tumour cells and their association with therapy response. In VETERINARY AND COMPARATIVE ONCOLOGY. ISSN 1476-5810, 2017, vol. 15, no. 3, pp. 793-807., Registrované v: WOS
3. [1.2] PALEČEK, Emil - TKÁČ, Jan - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of nonconjugated proteins and glycoproteins. Toward sensors for biomedicine and glycomics. In Chemical Reviews. ISSN 00092665, 2015-01-01, 115, 5, pp. 2045-2108., Registrované v: SCOPUS

ADCA1212 SULOVA, Zdena - TAKACOVA, M. - STEELE, N.M. - FRY, S.C. - FARKAŠ, Vladimír. Xyloglucan endotransglycosylase: evidence for the existence of a relatively stable glycosyl-enzyme intermediate. In *Biochemical Journal*, 1998, vol. 330, p. 1475-1480. ISSN 0264-6021.

Ohlasy:

1. [1.1] BISSARO, Bastien - MONSAN, Pierre - FAURE, Regis - O&APOS;DONOHUE, Michael J. Glycosynthesis in a waterworld: new insight into the molecular basis of transglycosylation in retaining glycoside hydrolases. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2015, vol. 467, no., pp. 17., Registrované v: WOS
2. [1.1] COSGROVE, Daniel J. Microbial Expansins. In ANNUAL REVIEW OF MICROBIOLOGY, VOL 71. ISSN 0066-4227, 2017, vol. 71, no., pp. 479-497., Registrované v: WOS
3. [1.1] OTULAK-KOZIEL, Katarzyna - KOZIEL, Edmund - BUJARSKI, Jozef J. Spatiotemporal Changes in Xylan-1/Xyloglucan and Xyloglucan Xyloglucosyl Transferase (XTH-Xet5) as a Step-In of Ultrastructural Cell Wall Remodelling in Potato-Potato Virus Y (PVYNTN) Hypersensitive and Susceptible Reaction. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2018, vol. 19, no. 8, pp., Registrované v: WOS
4. [1.1] SHARPLES, Sandra C. - NGUYEN-PHAN, Tu C. - FRY, Stephen C. Xyloglucan endotransglucosylase/hydrolases (XTHs) are inactivated by binding to glass and cellulosic surfaces, and released in active form by a heat-stable polymer from cauliflower florets. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2017, vol. 218, no., pp. 135-143., Registrované v: WOS
5. [1.1] ZHANG, Chunhong - XIONG, Zhenhao - YANG, Haiyan - WU, Wenlong. Changes in pericarp morphology, physiology and cell wall composition account for flesh firmness during the ripening of blackberry (*Rubus* spp.) fruit. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2019, vol. 250, no., pp. 59-68., Registrované v: WOS

ADCA1213 SUSHYTSKYI, Leonid** - LUKÁČ, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVÁ, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - ČOPÍKOVÁ, Jana - KAŠTÁNEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HY1 (*Chlorellaceae*). In *Carbohydrate Polymers*, 2020, vol. 246, art. no. 116588 [11] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, Current Contents

- CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2020.116588>

Ohlasy:

1. [1.1] MO'O, Faradila Ratu Cindana - WILAR, Gofarana - DEVKOTA, Hari Prasad - WATHONI, Nasrul. Ulvan, a Polysaccharide from Macroalga *Ulvasp.*: A Review of Chemistry, Biological Activities and Potential for Food and Biomedical Applications. In *APPLIED SCIENCES-BASEL*, 2020, vol. 10, no. 16, pp. Dostupné na: <https://doi.org/10.3390/app10165488>, Registrované v: WOS
2. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. Isolation, structures and biological activities of polysaccharides from *Chlorella*: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>, Registrované v: WOS

ADCA1214 SYNYTSYA, Andriy - CHOI, Doo Jin - POHL, Radek - NA, Ye Seul - CAPEK, Peter - LATTOVÁ, Erika - TAUBNER, Tomáš - CHOI, Ji Won - LEE, Chang Won - PARK, Jae Kweon - KIM, Woo Jung - KIM, Sung Min - LEE, Jisun - PARK, Yong Il. Structural features and anti-coagulant activity of the sulphated polysaccharide SPS-CF from a green alga *Capsosiphon fulvescens*. In *Marine Biotechnology*, 2015, vol. 17, p. 718-735. (2014: 3.269 - IF, Q1 - JCR, 1.157 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1436-2228. Dostupné na: <https://doi.org/10.1007/s10126-015-9643-y>

Ohlasy:

1. [1.1] ADRIEN, Amandine - BONNET, Antoine - DUFOUR, Delphine - BAUDOUIN, Stanislas - MAUGARD, Thierry - BRIDIAU, Nicolas. Anticoagulant Activity of Sulfated Ulvan Isolated from the Green Macroalga *Ulva rigida*. In *MARINE DRUGS*. ISSN 1660-3397, 2019, vol. 17, no. 5, pp., Registrované v: WOS
2. [1.1] BAILLY, Christian - HECQUET, Paul-Emile - KOUACH, Mostafa - THURU, Xavier - GOOSSENS, Jean-Francois. Chemical reactivity and uses of 1-phenyl-3-methyl-5-pyrazolone (PMP), also known as edaravone. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2020, vol. 28, no. 10, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115463>, Registrované v: WOS
3. [1.1] BARZKAR, Noora - JAHROMI, Saeid Tamadoni - POORSAHELI, Hadi Bolooki - VIANELLO, Fabio. Metabolites from Marine Microorganisms, Micro, and Macroalgae: Immense Scope for Pharmacology. In *MARINE DRUGS*, 2019, vol. 17, no. 8, pp., Registrované v: WOS
4. [1.1] BINSI, P. K. - ZYNUDHEEN, A. A. FUNCTIONAL AND NUTRACEUTICAL INGREDIENTS FROM MARINE RESOURCES. In *VALUE-ADDED INGREDIENTS AND ENRICHMENTS OF BEVERAGES*, 2019, vol. 14, no., pp. 101-171., Registrované v: WOS
5. [1.1] CARVALHAL, Francisca - CRISTELO, Ricardo R. - RESENDE, Diana I. S. P. - PINTO, Madalena M. M. - SOUSA, Emilia - CORREIA-DA-SILVA, Marta. Antithrombotics from the Sea: Polysaccharides and Beyond. In *MARINE DRUGS*, 2019, vol. 17, no. 3, pp., Registrované v: WOS
6. [1.1] GESKOVSKI, Nikola - SAZDOVSKA, Simona Dimchevska -

- GORACINOVA, Katerina. Macroalgal Polysaccharides in Biomimetic Nanodelivery Systems. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2019, vol. 25, no. 11, pp. 1265-1289., Registrované v: WOS
7. [1.1] KIDGELL, Joel T. - MAGNUSSON, Marie - DE NYS, Rocky - GLASSON, Christopher R. K. Ulvan: A systematic review of extraction, composition and function. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2019, vol. 39, no., pp., Registrované v: WOS
8. [1.1] KUZNETSOVA, Tatyana A. - ANDRYUKOV, Boris G. - BESEDNOVA, Natalia N. - ZAPOROZHETS, Tatyana S. - KALININ, Andrey V. Marine Algae Polysaccharides as Basis for Wound Dressings, Drug Delivery, and Tissue Engineering: A Review. In JOURNAL OF MARINE SCIENCE AND ENGINEERING, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/jmse8070481>., Registrované v: WOS
9. [1.1] LI, Peipei - WEN, Songsong - SUN, Kunlai - ZHAO, Yuqin - CHEN, Yin. Structure and Bioactivity Screening of a Low Molecular Weight Ulvan from the Green Alga *Ulothrix flacca*. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 8, pp., Registrované v: WOS
10. [1.1] LI, Qingqing - LUO, Jing - WANG, Chengmin - TAI, Wenjing - WANG, Haihua - ZHANG, Xu - LIU, Kongshang - JIA, Yaxiong - LYV, Xueze - WANG, Liang - HE, Hongxuan. Ulvan extracted from green seaweeds as new natural additives in diets for laying hens. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 3, pp. 2017-2027., Registrované v: WOS
11. [1.1] MARINVAL, Nicolas - SABOURAL, Pierre - HADDAD, Oualid - MAIRE, Murielle - BASSAND, Kevin - GEINGUENAUD, Frederic - DJAKER, Nadia - BEN AKROUT, Khadija - DE LA CHAPELLE, Marc Lamy - ROBERT, Romain - OUDAR, Olivier - GUYOT, Erwan - LAGUILLIER-MORIZOT, Christelle - SUTTON, Angela - CHAUVIERRE, Cedric - CHAUBET, Frederic - CHARNAUX, Nathalie - HLAWATY, Hanna. Identification of a Pro-Angiogenic Potential and Cellular Uptake Mechanism of a LMW Highly Sulfated Fraction of Fucoidan from *Ascophyllum nodosum*. In MARINE DRUGS. ISSN 1660-3397, 2016, vol. 14, no. 10, pp., Registrované v: WOS
12. [1.1] MOHAN, Kannan - RAVICHANDRAN, Samuthirapandian - MURALISANKAR, Thirunavukkarasu - UTHAYAKUMAR, Venkatachalam - CHANDIRASEKAR, Ramachandran - SEEDEVI, Palaniappan - ABIRAMI, Ramu Ganesan - RAJAN, Durairaj Karthick. Application of marine-derived polysaccharides as immunostimulants in aquaculture: A review of current knowledge and further perspectives. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2019, vol. 86, no., pp. 1177-1193., Registrované v: WOS
13. [1.1] MORELLI, Andrea - PUPPI, Dario - CHIELLINI, Federica. Perspectives on Biomedical Applications of Ulvan. In SEAWEED POLYSACCHARIDES: ISOLATION, BIOLOGICAL AND BIOMEDICAL APPLICATIONS, 2017, vol., no., pp. 305-330., Registrované v: WOS
14. [1.1] PANGESTUTI, Ratih - KURNIANTO, Dedy. Green Seaweeds-Derived Polysaccharides Ulvan: Occurrence, Medicinal Value and Potential Applications. In SEAWEED POLYSACCHARIDES: ISOLATION, BIOLOGICAL AND BIOMEDICAL APPLICATIONS, 2017, vol., no., pp. 205-221., Registrované v: WOS

15. [1.1] SONG, Jianxi - WU, Ye - JIANG, Guiquan - FENG, Lijuan - WANG, Zhiguo - YUAN, Guangxin - TONG, Haibin. Sulfated polysaccharides from *Rhodiola sachalinensis* reduce D-gal-induced oxidative stress in NIH 3T3 cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 140, no., pp. 288-293., Registrované v: WOS
16. [1.1] SONG, Young-Ran - SUNG, Su-Kyung - JANG, Mi - LIM, Tae-Gyu - CHO, Chang-Won - HAN, Chun-Ji - HONG, Hee-Do. Enzyme-assisted extraction, chemical characteristics, and immunostimulatory activity of polysaccharides from Korean ginseng (*Panax ginseng* Meyer). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 1089-1097., Registrované v: WOS
17. [1.1] TZIVELEKA, Leto-Aikaterini - IOANNOU, Efstathia - ROUSSIS, Vassilios. Ulvan, a bioactive marine sulphated polysaccharide as a key constituent of hybrid biomaterials: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 218, no., pp. 355-370., Registrované v: WOS
18. [1.1] WANG, Miaomiao - LIU, Yong - QIANG, Mingliang - WANG, Junhui. Structural elucidation of a pectin-type polysaccharide from *Hovenia dulcis* peduncles and its proliferative activity on RAW264.7 cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 1246-1253., Registrované v: WOS
19. [1.1] XU, Shu-Ying - HUANG, Xuesong - CHEONG, Kit-Leong. Recent Advances in Marine Algae Polysaccharides: Isolation, Structure, and Activities. In *MARINE DRUGS*. ISSN 1660-3397, 2017, vol. 15, no. 12, pp., Registrované v: WOS
20. [1.1] YUN, Mi-Young - LEE, Jae-Sug - KIM, Byoung-Soo - CHOI, Hwa-Jung. *Capsosiphon fulvescens* extracts improve obesity-associated metabolic disorders and hepatic steatosis in high-fat diet-induced obese mice. In *ANIMAL SCIENCE JOURNAL*. ISSN 1344-3941, 2018, vol. 89, no. 3, pp. 589-596., Registrované v: WOS
21. [1.1] ZHAO, Jing - DENG, Yong - LI, Shao-ping. Advanced analysis of polysaccharides, novel functional components in food and medicine dual purposes Chinese herbs. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2017, vol. 96, no., pp. 138-150., Registrované v: WOS
22. [1.2] SANJEEWA, K. K.Asanka - LEE, Won Woo - JEON, You Jin. Nutrients and bioactive potentials of edible green and red seaweed in Korea. In *Fisheries and Aquatic Sciences*. ISSN 22341749, 2018-07-09, 21, 1, pp., Registrované v: SCOPUS
23. [3.2] Castañeda Antonio, Ma. Dolores; Martínez Carrera, Daniel Claudio; Rivera Tapia, José Antonio; Portillo Reyes, Roberto; Morales Almora, Porfirio; Sobal Cruz, Mercedes; Macías López, Antonio; Leal Lara, Hermilo. Detection of polysaccharides in *Ganoderma lucidum* extracts. In: *Nova scientia* Vol. 10 (2018), Issue: 21, p. 247-257, Registrované v: SciELO Citation Index

ADCA1215 SZU, S.C. - BYSTRICKÝ, Slavomír - HINOJOSA-AHUMADA, M. - EGAN, W. - ROBBINS, J.B. Synthesis and some immunological properties of an O-acetyl pectin (poly(1-4)-alfa-D-galpA)-protein conjugate as a vaccine for typhoid-fever. In *Infection and Immunity*, 1994, p. 5545-5549, vol. 62. ISSN 0019-9567.

Ohlasy:

1. [1.1] ARCURI, M. - DI BENEDETTO, R. - CUNNINGHAM, A. F. - SAUL, A. - MACLENNAN, C. A. - MICOLI, F. The influence of conjugation variables on the design and immunogenicity of a glycoconjugate vaccine against Salmonella Typhi. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS

2. [1.1] KHATUN, Farjana - STEPHENSON, Rachel J. - TOTH, Istvan. An Overview of Structural Features of Antibacterial Glycoconjugate Vaccines That Influence Their Immunogenicity. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 18, pp. 4233-4254., Registrované v: WOS

3. [1.1] MICOLI, Francesca - BJARNARSON, Stefania P. - ARCURI, Melissa - PIND, Audur Anna Aradottir - MAGNUSDOTTIR, Gudbjorg J. - NECCHI, Francesca - DI BENEDETTO, Roberta - CARDUCCI, Martina - SCHIAVO, Fabiola - GIANNELLI, Carlo - PISONI, Ivan - MARTIN, Laura B. - DEL GIUDICE, Giuseppe - MACLENNAN, Calman A. - RAPPUOLI, Rino - JONSDOTTIR, Ingileif - SAUL, Allan. Short Vi-polysaccharide abrogates T-independent immune response and hyporesponsiveness elicited by long Vi-CRM197 conjugate vaccine. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 39, pp. 24443-24449. Dostupné na: <https://doi.org/10.1073/pnas.2005857117>., Registrované v: WOS

4. [1.1] NI, Yawei - SPRINGER, Michael J. - GUO, Jianhua - FINGER-BAKER, Isaac - WILSON, James P. - COBB, Ronald R. - TURNER, Debra - TIZARD, Ian. Development of a synthetic Vi polysaccharide vaccine for typhoid fever. In VACCINE. ISSN 0264-410X, 2017, vol. 35, no. 51, pp. 7121-7126., Registrované v: WOS

5. [1.1] ROSALES-MENDOZA, Sergio - SALAZAR-GONZALEZ, Jorge A. - DECKER, Eva L. - RESKI, Ralf. Implications of plant glycans in the development of innovative vaccines. In EXPERT REVIEW OF VACCINES. ISSN 1476-0584, 2016, vol. 15, no. 7, pp. 915-925., Registrované v: WOS

ADCA1216 ŠAFÁŘ, Peter - ŽÚŽIOVÁ, Jozefína - MARCHALÍN, Štefan - PRÓNAYOVÁ, Nadežda - ŠVORC, Ľubomír - VRÁBEL, Viktor - ŠESTÁK, Sergej - RENDIČ, Dubravko - TOGNETTI, Vincent - JOUBERT, Laurent - DAICH, Adam. Combined chemical, biological and theoretical DFT-QTAIM study of potent glycosidase inhibitors based on quaternary indolizinium salts. In *European Journal of Organic Chemistry*, 2012, vol. 2012, p. 5498-5514. (2011: 3.329 - IF, Q1 - JCR, 1.576 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1434-193X. Dostupné na: <https://doi.org/10.1002/ejoc.201200431>

Ohlasy:

1. [1.1] BOBOVSKA, Adela - TVAROSKA, Igor - KONA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi alpha-Mannosidase II. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2016, vol. 66, no., pp. 47-57., Registrované v: WOS

2. [1.1] ELATTAR, Khaled M. - YOUSSEF, Ibrahim - FADDA, Ahmed A. Reactivity of indolizines in organic synthesis. In SYNTHETIC COMMUNICATIONS. ISSN 0039-7911, 2016, vol. 46, no. 9, pp. 719-744., Registrované v: WOS

3. [1.1] FIRME, Caio L. - MONTEIRO, Norberto K. V. - SILVA, Sergio R. B. QTAIM and NCI analysis of intermolecular interactions in steroid ligands binding a cytochrome P450 enzyme Beyond the most obvious interactions. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2017, vol. 1111, no., pp. 40-49., Registrované v: WOS
4. [1.1] OLIVEIRA, Boaz G. - ALENCAR FILHO, Edilson B. - VASCONCELLOS, Mario L. A. A. Comparisons between Crystallography Data and Theoretical Parameters and the Formation of Intramolecular Hydrogen Bonds: Benznidazole. In CRYSTALS. ISSN 2073-4352, 2016, vol. 6, no. 5, pp., Registrované v: WOS
5. [1.1] RISQUEZ-CUADRO, Rocio - MATSUMOTO, Reimi - ORTEGA-CABALLERO, Fernando - NANBA, Eiji - HIGAKI, Katsumi - GARCIA FERNANDEZ, Jose Manuel - ORTIZ MELLET, Carmen. Pharmacological Chaperones for the Treatment of alpha-Mannosidosis. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2019, vol. 62, no. 12, pp. 5832-5843., Registrované v: WOS
6. [1.1] RUIZ, Isela - MATITO, Eduard - JOSE HOLGUIN-GALLEGO, Fernando - FRANCISCO, Evelio - MARTIN PENDAS, Angel - ROCHA-RINZA, Tomas. Fermi and Coulomb correlation effects upon the interacting quantum atoms energy partition. In THEORETICAL CHEMISTRY ACCOUNTS. ISSN 1432-881X, 2016, vol. 135, no. 9, pp., Registrované v: WOS
7. [1.1] UPADHYAY, Nitinkumar Satyadev - JAYAKUMAR, Jayachandran - CHENG, Chien-Hong. Facile one-pot synthesis of 2,3-dihydro-1H-indolizinium derivatives by rhodium(III)-catalyzed intramolecular oxidative annulation via C-H activation: application to ficuseptine synthesis. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 16, pp. 2491-2494., Registrované v: WOS

ADCA1217 ŠAMAJ, J. - BOBÁK, M. - BLEHOVÁ, A. - KRIŠTÍN, J. - AUXTOVÁ- ŠAMAJOVÁ, O.. Developmental SEM observations of an extracellular matrix in embryogenic calli of *Drosera rotundifolia* and *Zea mays*. In *Protoplasma*, 1995, vol. 186, p. 45-49. ISSN 0033-183X. Dostupné na: <https://doi.org/10.1007/BF01276934>

Ohlasy:

1. [1.1] BETEKHTIN, Alexander - ROJEK, Magdalena - MILEWSKA-HENDEL, Anna - GAWECKI, Robert - KARCZ, Jagna - KURCZYNSKA, Ewa - HASTEROK, Robert. Spatial Distribution of Selected Chemical Cell Wall Components in the Embryogenic Callus of *Brachypodium distachyon*. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS
2. [1.1] HRIB, Jiri - VOOKOVA, Bozena - NEDELA, Vilem. Imaging of native early embryogenic tissue of Scots pine (*Pinus sylvestris* L.) by ESEM. In OPEN LIFE SCIENCES. ISSN 2391-5412, 2015, vol. 10, no. 1, pp. 285-290., Registrované v: WOS
3. [1.1] KORINEK, R. - MIKULKA, J. - HRIB, J. - HUDEC, J. - HAVEL, L. - BARTUSEK, K. Characterization of the Embryogenic Tissue of the Norway Spruce Including a Transition Layer between the Tissue and the Culture Medium by Magnetic Resonance Imaging. In MEASUREMENT SCIENCE REVIEW. ISSN 1335-8871, 2017, vol. 17, no. 1, pp. 19-26., Registrované v:

WOS

4. [1.1] LELJAK-LEVANIC, Dunja - MIHALJEVIC, Snjezana - BAUER, Natasa. Somatic and zygotic embryos share common developmental features at the onset of plant embryogenesis. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2015, vol. 37, no. 7, pp., Registrované v: WOS
5. [1.1] MAKOWSKA, Katarzyna - KALUZNIAK, Marta - OLESZCZUK, Sylwia - ZIMNY, Janusz - CZAPLICKI, Andrzej - KONIECZNY, Robert. Arabinogalactan proteins improve plant regeneration in barley (*Hordeum vulgare* L.) anther culture. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2017, vol. 131, no. 2, pp. 247-257., Registrované v: WOS
6. [1.1] NAZ, Ruphi - ANIS, Mohammad - ALATAR, Abdulrahman A. Embling Production in *Althaea officinalis* L., Through Somatic Embryogenesis and Their Appraisal via Histological and Scanning Electron Microscopical Studies. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 3, pp. 1182-1197., Registrované v: WOS
7. [1.1] NEDELA, Vilem - HRIB, Jiri - HAVEL, Ladislav - HUDEC, Jiri - RUNSTUK, Jiri. Imaging of Norway spruce early somatic embryos with the ESEM, Cryo-SEM and laser scanning microscope. In MICRON. ISSN 0968-4328, 2016, vol. 84, no., pp. 67-71., Registrované v: WOS

ADCA1218 ŠAMŠULOVÁ, Veronika - POLÁKOVÁ, Monika** - HORÁK, Radim - ŠEDIVÁ, Mária - KVAPIL, Lubomír - HRADIL, Pavel. Synthetic approach to novel glycosyltriazole-3-hydroxyquinolone conjugate and their antimicrobial properties. In *Journal of Molecular Structure*, 2019, vol. 1177, p. 16-25. (2018: 2.120 - IF, Q3 - JCR, 0.434 - SJR, Q3 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2018.09.030>

Ohlasy:

1. [1.1] FILALI BABA, Yassir - SERT, Yusuf - KANDRI RODI, Youssef - HAYANI, Sonia - MAGUE, Joel T. - PRIM, Damien - MARROT, Jerome - OUAZZANI CHANDI, Fouad - KHEIRA SEBBAR, Nada - ESSASSI, El Mokhtar. Synthesis, crystal structure, spectroscopic characterization, Hirshfeld surface analysis, molecular docking studies and DFT calculations, and antioxidant activity of 2-oxo-1,2-dihydroquinoline-4-carboxylate derivatives. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2019, vol. 1188, no., pp. 255-268., Registrované v: WOS
2. [1.1] FILALI BABA, Yassir - GOKCE, Halil - KANDRI RODI, Youssef - HAYANI, Sonia - OUAZZANI CHAHDI, Fouad - BOUKIR, Abdellatif - JASINSKI, Jerry P. - KAUR, Manpreet - HOKELEK, Tuncer - KHEIRA SEBBAR, Nada - MOKHTAR ESSASSI, El. Syntheses of novel 2-oxo-1,2-dihydroquinoline derivatives: Molecular and crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies and density functional theory calculations. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1217, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2020.128461>., Registrované v: WOS
3. [1.1] FILALI BABA, Yassir - GOKCE, Halil - KANDRI RODI, Youssef - HAYANI, Sonia - OUAZZANI CHAHDI, Fouad - BOUKIR, Abdellatif - JASINSKI, Jerry P. - KAUR, Manpreet - HOKELEK, Tuncer -

KHEIRA SEBBAR, Nada - MOKHTAR ESSASSI, El. Syntheses of novel 2-oxo-1,2-dihydroquinoline derivatives: Molecular and crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies and density functional theory calculations. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1217, no., pp., Registrované v: WOS

4. [1.1] ZHANG, Bo. Comprehensive review on the anti-bacterial activity of 1,2,3-triazole hybrids. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2019, vol. 168, no., pp. 357-372., Registrované v: WOS

ADCA1219 ŠANDULA, Jozef - MERKEL, M. Chemical structure of Candida albicans. In *Bulletin de l'Academie Polonaise des Sciences: Serie des Sciences Biologiques.*, 1965, vol. 13, p. 463-468.

Ohlasy:

1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA1220 ŠANDULA, Jozef - KOGAN, Grigorij - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva. Microbial (1-3)-beta-glucans, their preparation, physico-chemical characterization and immunomodulatory activity. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1999, vol. 38, p 247-253. (1998: 1.129 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.1] ALZORQI, Ibrahim - SUDHEER, Surya - LU, Ting-Jang - MANICKAM, Sivakumar. Ultrasonically extracted beta-D-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2017, vol. 35, no., pp. 531-540., Registrované v: WOS

2. [1.1] BAEVA, Ekaterina - BLEHA, Roman - LAVROVA, Ekaterina - SUSHYTSKYI, Leonid - COPIKOVA, Jana - JABLONSKY, Ivan - KLOUCEK, Pavel - SYNYTSYA, Andriy. Polysaccharides from Basidiocarps of Cultivating Mushroom *Pleurotus ostreatus*: Isolation and Structural Characterization. In MOLECULES, 2019, vol. 24, no. 15, pp., Registrované v: WOS

3. [1.1] BAKIR, Gorkem - GIROUARD, Benoit E. - JOHNS, Robert W. - FINDLAY, Catherine R.J. - BECHTEL, Hans A. - EISELE, Max - KAMINSKYJ, Susan G. W. - DAHMS, Tanya E. S. - GOUGH, Kathleen M. Ultrastructural and SINS analysis of the cell wall integrity response of *Aspergillus nidulans* to the absence of galactofuranose. In ANALYST. ISSN 0003-2654, 2019, vol. 144, no. 3, pp. 928-934., Registrované v: WOS

4. [1.1] BANCERZ, Renata - OSINSKA-JAROSZUK, Monika - JASZEK, Magdalena - SULEJ, Justyna - WIATER, Adrian - MATUSZEWSKA, Anna - ROGALSKI, Jerzy. Fungal polysaccharides as a water-adsorbing material in esters production with the use of lipase from *Rhizomucor variabilis*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 957-964., Registrované v: WOS

5. [1.1] BEZERRA, Lorena Soares - MAGNANI, Marciane - HERNAN CASTRO-GOMEZ, Raul Jorge - CAVALCANTE, Hassler Clementino -

- FELISBERTO DA SILVA, Tays Amanda - PAIXAO VIEIRA, Renata Layne - DE MEDEIROS, Isac Almeida - VERAS, Robson Cavalcante. Modulation of vascular function and anti-aggregation effect induced by (1 \rightarrow 3) (1 \rightarrow 6)-(beta-D-glucan of *Saccharomyces cerevisiae* and its carboxymethylated derivative in rats. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2017, vol. 69, no. 3, pp. 448-455., Registrované v: WOS
6. [1.1] BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - MOLENDNA, Magdalena - RECZEK, Lidia. Biosynthesis of beta(1,3)/(1,6)-glucans of cell wall of the yeast *Candida utilis* ATCC 9950 strains in the culture media supplemented with deproteinated potato juice water and glycerol. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 240, no. 5, pp. 1023-1034., Registrované v: WOS
7. [1.1] BZDUCHA-WROBEL, Anna - POBIEGA, Katarzyna - BLAZEJAK, Stanislaw - KIELISZEK, Marek. The scale-up cultivation of *Candida utilis* in waste potato juice water with glycerol affects biomass and beta(1,3)/(1,6)-glucan characteristic and yield. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9131-9145., Registrované v: WOS
8. [1.1] CERTANO, Amanda K. - FERNANDEZ, Christopher W. - HECKMAN, Katherine A. - KENNEDY, Peter G. The afterlife effects of fungal morphology: Contrasting decomposition rates between diffuse and rhizomorphic necromass. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2018, vol. 126, no., pp. 76-81., Registrované v: WOS
9. [1.1] FRANCIOSO, Antonio - DINARELLI, Simone - GIRASOLE, Marco - CERVONI, Laura - D'ERME, Maria - MURA, Francesco - BOFFI, Alberto - MONTANARI, Elita - MOSCA, Luciana. Behind Resveratrol Stabilization by Carboxymethylated (1,3/1,6)-beta-D-Glucan: Does the Polyphenol Play a Role in Polymer Structural Organization? In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
10. [1.1] FRANCISCO DELGADO, Juan - PELTZER, Mercedes A. - SALVAY, Andres G. - DE LA OSA, Orlando - WAGNER, Jorge R. Characterization of thermal, mechanical and hydration properties of novel films based on *Saccharomyces cerevisiae* biomass. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2018, vol. 48, no., pp. 240-247., Registrované v: WOS
11. [1.1] GUPTA, Barun Shankar - JELLE, Bjorn Petter - GAO, Tao. Application of ATR-FTIR Spectroscopy to Compare the Cell Materials of Wood Decay Fungi with Wood Mould Fungi. In INTERNATIONAL JOURNAL OF SPECTROSCOPY. ISSN 1687-9449, 2015, vol., no., pp., Registrované v: WOS
12. [1.1] CHUDZIK, Barbara - BONIO, Katarzyna - DABROWSKI, Wojciech - PIETRZAK, Daniel - NIEWIADOMY, Andrzej - OLENDER, Alina - PAWLIKOWSKA-PAWLEGA, Bozena - GAGOS, Mariusz. Antifungal effects of a 1,3,4-thiadiazole derivative determined by cytochemical and vibrational spectroscopic studies. In PLOS ONE. ISSN 1932-6203, 2019, vol. 14, no. 9, pp., Registrované v: WOS
13. [1.1] KAUR, Taranpreet - GHOSH, Moushumi. Characterization and toxicity of a phosphate-binding exobiopolymer produced by *Acinetobacter haemolyticus* MG606. In JOURNAL OF WATER AND HEALTH. ISSN 1477-8920, 2017, vol. 15, no. 1, pp. 103-111., Registrované v: WOS

14. [1.1] KIM, In Sung - LEE, Seung Ho - KIM, Jeong A. - YU, Da Yoon - HONG, Yeon Hee - KIM, Jae Young - LIM, Jong Min - LEE, Sang Suk - YUN, Cheol-Heui - CHOI, In Soon - CHO, Kwang Keun. Effect of oral administration of beta-glucans derived from *Aureobasidium pullulans* SM-2001 in model mice and rat with atopic dermatitis-like phenotypes. In *FOOD SCIENCE AND BIOTECHNOLOGY*. ISSN 1226-7708, 2018, vol. 27, no. 4, pp. 1185-1192., Registrované v: WOS
15. [1.1] KOROLENKO, Tatiana A. - BGATOVA, Nataliya P. - VETVICKA, Vaclav. Glucan and Mannan-Two Peas in a Pod. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2019, vol. 20, no. 13, pp., Registrované v: WOS
16. [1.1] LEE, Hye Ji - PARK, Jaehong - LEE, Gyeong Jin - OH, Jae-Min - KIM, Tae-il. Polyethylenimine-functionalized cationic barley beta-glucan derivatives for macrophage RAW264.7 cell-targeted gene delivery systems. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2019, vol. 226, no., pp., Registrované v: WOS
17. [1.1] LEE, Sang Hoon - JANG, Gwi Yeong - KIM, Min Young - HWANG, In Guk - KIM, Hyun Young - WOO, Koan Sik - LEE, Mi Ja - KIM, Tae Jip - LEE, Junsoo - JEONG, Heon Sang. Physicochemical and in vitro binding properties of barley beta-glucan treated with hydrogen peroxide. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2016, vol. 192, no., pp. 729-735., Registrované v: WOS
18. [1.1] LIU, Na - DONG, Zhonghua - ZHU, Xiaosong - XU, Hongya - ZHAO, Zhongxi. Characterization and protective effect of *Polygonatum sibiricum* polysaccharide against cyclophosphamide-induced immunosuppression in Balb/c mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 796-802., Registrované v: WOS
19. [1.1] LV, Mengyuan - HU, Ying - GANZLE, Michael G. - LIN, Jianguo - WANG, Changgao - CAI, Jun. Preparation of chitooligosaccharides from fungal waste mycelium by recombinant chitinase. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 430, no., pp. 1-7., Registrované v: WOS
20. [1.1] MALINOWSKA, Eliza - KLIMASZEWSKA, Marzenna - STRACZEK, Tomasz - SCHNEIDER, Krystyna - KAPUSTA, Czeslaw - PODSADNI, Piotr - LAPIENIS, Grzegorz - DAWIDOWSKI, Maciej - KLEPS, Jerzy - GORSKA, Sandra - PISKLAK, Dariusz M. - TURLO, Jadwiga. Selenized polysaccharides Biosynthesis and structural analysis. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 198, no., pp. 407-417., Registrované v: WOS
21. [1.1] MATIJASEVIC, Danka - PANTIC, Milena - RASKOVIC, Bozidar - PAVLOVIC, Vladimir - DUVNJAK, Dunja - SKNEPNEK, Aleksandra - NIKSIC, Miomir. The Antibacterial Activity of *Coriolus versicolor* Methanol Extract and Its Effect on Ultrastructural Changes of *Staphylococcus aureus* and *Salmonella Enteritidis*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS
22. [1.1] NGUYEN THANH LONG - NGUYEN THI NGOC ANH - BACH LONG GIANG - HOANG NGHIA SON - LE QUANG LUAN. Radiation Degradation of beta-Glucan with a Potential for Reduction of Lipids and Glucose in the Blood of Mice. In *POLYMERS*, 2019, vol. 11, no. 6, pp., Registrované v:

WOS

23. [1.1] NGUYEN THANH LONG - TRAN LE TRUC HA - HOANG NGHIA SON - LE QUANG LUAN. Radiation Degradation of beta-Glucan Extracted from Brewer's Yeast for Enhancing Growth Promotion and Immunostimulant Activities on Broilers. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2019, vol. 2019, no., pp., Registrované v: WOS

24. [1.1] PARDO-RUIZ, Zenia - MENENDEZ-SARDINAS, Dalia E. - PACIOS-MICHELENA, Anabel - GABILONDO-RAMIREZ, Tatiana - MONTERO-ALEJO, Vivian - PERDOMO-MORALES, Rolando. Soluble beta-(1,3)-glucans enhance LPS-induced response in the monocyte activation test, but inhibit LPS-mediated febrile response in rabbits: Implications for pyrogenicity tests. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2016, vol. 81, no., pp. 18-26., Registrované v: WOS

25. [1.1] PEJIN, Boris - TESANOVIC, Kristina - JAKOVLJEVIC, Dragica - KAISAREVIC, Sonja - SIBUL, Filip - RASETA, Milena - KARAMAN, Maja. The polysaccharide extracts from the fungi *Coprinus comatus* and *Coprinellus truncorum* do exhibit AChE inhibitory activity. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2019, vol. 33, no. 5, pp. 750-754., Registrované v: WOS

26. [1.1] PELTZER, Mercedes - DELGADO, Juan F. - SALVAY, Andres G. - WAGNER, Jorge R. beta-Glucan, a Promising Polysaccharide for Bio-based Films Developments for Food Contact Materials and Medical Applications. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 12, pp. 1249-1254., Registrované v: WOS

27. [1.1] PELTZER, M. A. - SALVAY, A. G. - DELGADO, J. F. - DE LA OSA, O. - WAGNER, J. R. Use of Residual Yeast Cell Wall for New Biobased Materials Production: Effect of Plasticization on Film Properties. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 11, pp. 1995-2007., Registrované v: WOS

28. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS

29. [1.1] PETTONGKHAO, Sittiporn - CHURNGCHOW, Nunta. Novel Cell Death-Inducing Elicitors from *Phytophthora palmivora* Promote Infection on *Hevea brasiliensis*. In PHYTOPATHOLOGY. ISSN 0031-949X, 2019, vol. 109, no. 10, pp. 1769-1778., Registrované v: WOS

30. [1.1] PETTONGKHAO, Sittiporn - BILANGLDOD, Abdulmuhaimin - KHOMPATARA, Khemmikar - CHURNGCHOW, Nunta. Sulphated Polysaccharide from *Acanthophora spicifera* Induced *Hevea brasiliensis* Defense Responses Against *Phytophthora palmivora* Infection. In PLANTS-BASEL. ISSN 2223-7747, 2019, vol. 8, no. 3, pp., Registrované v: WOS

31. [1.1] PIOTROWSKA, Malgorzata - MASEK, Anna. *Saccharomyces Cerevisiae* Cell Wall Components as Tools for Ochratoxin A Decontamination. In TOXINS. ISSN 2072-6651, 2015, vol. 7, no. 4, pp. 1151-1162., Registrované v: WOS

32. [1.1] QI, Lu-Ming - ZHANG, Ji - LIU, Hong-Gao - LI, Tao - WANG, Yuan-Zhong. Fourier transform mid-infrared spectroscopy and chemometrics to

- identify and discriminate *Boletus edulis* and *Boletus tomentipes* mushrooms. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no., pp. S56-S68., Registrované v: WOS
33. [1.1] QUILLES, Fabienne - ACCOCEBERRY, Isabelle - COUZIGOU, Cella - FRANCIUS, Gregory - NOEL, Thierry - EL-KIRAT-CHATEL, Sofiane. AFM combined to ATR-FTIR reveals *Candida* cell wall changes under caspofungin treatment. In NANOSCALE. ISSN 2040-3364, 2017, vol. 9, no. 36, pp. 13731-13738., Registrované v: WOS
34. [1.1] SALON, Ivan - HANUS, Jaroslav - ULBRICH, Pavel - STEPANEK, Frantisek. Suspension stability and diffusion properties of yeast glucan microparticles. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2016, vol. 99, no., pp. 128-135., Registrované v: WOS
35. [1.1] SHAH, Asima - GANI, Adil - AHMAD, Mudasar - ASHWAR, Bilal Ahmad - MASOODI, F. A. beta-Glucan as an encapsulating agent: Effect on probiotic survival in simulated gastrointestinal tract. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 82, no., pp. 217-222., Registrované v: WOS
36. [1.1] SHAO, Yujing - WANG, Zhong - TIAN, Xiangyu - GUO, Yuming - ZHANG, Haibo. Yeast beta-D-glucans induced antimicrobial peptide expressions against *Salmonella* infection in broiler chickens. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 85, no., pp. 573-584., Registrované v: WOS
37. [1.1] SKNEPNEK, Aleksandra - PANTIC, Milena - MATIJASEVIC, Danka - MILETIC, Dunja - LEVIC, Steva - NEDOVIC, Viktor - NIKSIC, Miomir. Novel Kombucha Beverage from Lingzhi or Reishi Medicinal Mushroom, *Ganoderma lucidum*, with Antibacterial and Antioxidant Effects. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 3, pp. 243-258., Registrované v: WOS
38. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257., Registrované v: WOS
39. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying - ZHOU, Lu - HUANG, Shiqi - LI, Hui. The antioxidant activities of six (1>3)-beta-D-glucan derivatives prepared from yeast cell wall. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS
40. [1.1] TRYGG, Jani - BELTRAME, Gabriele - YANG, Baoru. Rupturing fungal cell walls for higher yield of polysaccharides: Acid treatment of the basidiomycete prior to extraction. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, 2019, vol. 57, no., pp., Registrované v: WOS
41. [1.1] VARELAS, Vassileios - LIOUNI, Maria - CALOKERINOS, Antony C. - NERANTZIS, Elias T. An evaluation study of different methods for the production of D-glucan from yeast biomass. In DRUG TESTING AND ANALYSIS. ISSN 1942-7603, 2016, vol. 8, no. 1, pp. 46-56., Registrované v: WOS
42. [1.1] VAZQUEZ-CAMPOS, Xabier - KINSELA, Andrew S. - COLLINS, Richard N. - NEILAN, Brett A. - AOYAGI, Noboru - WAITE, T. David. Uranium Binding Mechanisms of the Acid-Tolerant Fungus *Coniochaeta*

- fodinicola. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2015, vol. 49, no. 14, pp. 8487-8496., Registrované v: WOS
43. [1.1] WANG, Jinjing - LI, Mengqi - ZHENG, Feiyan - NIU, Chengtuo - LIU, Chunfeng - LI, Qi - SUN, Jinyuan. Cell wall polysaccharides: before and after autolysis of brewer's yeast. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 9, pp., Registrované v: WOS
44. [1.1] XING, Yan - CHEN, Chaonan - SUN, Wenlong - ZHANG, Bowei - SANG, Yuanbin - XIU, Zhilong - DONG, Yuesheng. An environment-friendly approach to isolate and purify glucan from spent cells of recombinant *Pichia pastoris* and the bioactivity characterization of the purified glucan. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2018, vol. 18, no. 4, pp. 227-235., Registrované v: WOS
45. [1.1] ZHANG, Bing - GUAN, Ying - BIAN, Jing - PENG, Feng - REN, Jun-Li - YAO, Chun-Li - SUN, Run-Cang. STRUCTURE OF HEMICELLULOSES UPON MATURATION OF BAMBOO (*Neosinocalamus affinis*) CULMS. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2016, vol. 50, no. 2, pp. 189-198., Registrované v: WOS
46. [1.1] ZHANG, Xiudong - LI, Mingfei - ZHONG, Linxin - PENG, Xinwen - SUN, Runcang. Microwave-assisted Extraction of Polysaccharides from Bamboo (*Phyllostachys acuta*) Leaves and their Antioxidant Activity. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5100-5112., Registrované v: WOS
47. [1.2] DHUA, Manabendra - SEN, Kalyan Kumar - MAITI, Sabyasachi. Bio-targets for polyionic glucan derivatives and their nano-therapeutic systems. In Bio-Targets and Drug Delivery Approaches, 2016-11-03, pp. 487-521., Registrované v: SCOPUS
48. [1.2] JAMIL, Muhammad - MANSOOR, Muhammad - ALI, Asghar - SHAHZAD, Haroon - RIZWAN-UL-HAQ - AWAN, Aftab Ahmad - GUL, Jaweria. Role of herbal immunomodulators in control of coccidiosis disease. In Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences. ISSN 22216421, 2017-01-01, 60, 3, pp. 176-182., Registrované v: SCOPUS
49. [1.2] LEE, Sang Hoon - JANG, Gwi Yeong - HWANG, In Guk - KIM, Hyun Young - WOO, Koan Sik - KIM, Kee Jong - LEE, Mi Ja - KIM, Tae Jip - LEE, Junsoo - JEONG, Heon Sang. Physicochemical properties of β -glucan from acid hydrolyzed barley. In Preventive Nutrition and Food Science. ISSN 22871098, 2015-01-01, 20, 2, pp. 110-118., Registrované v: SCOPUS
50. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In Bioactive Polysaccharides (Elsevier, pp. 1-554), Registrované v: SCOPUS

ADCA1221 ŠANDULA, Jozef - MACHOVÁ, Eva - HRIBALOVA, V. Mitogenic activity of particulate yeast beta-(1,3)-D-glucan and its water-soluble derivatives. In *International Journal of Biological Macromolecules*, 1995, vol. 17, no. 6, p. 323-326. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/0141-8130\(96\)81839-3](https://doi.org/10.1016/0141-8130(96)81839-3)

Ohlasy:

1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN

1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS

2. [1.1] CEBIN, Aleksandra Vojvodic - PETRAVIC-TOMINAC, Vlatka - DJAKOVIC, Senka - SRECEC, Sinisa - ZECHNER-KRPAN, Vesna - PILJAC-ZEGARAC, Jasenka - ISIKHUEMHEN, Omoanghe S. Polysaccharides and Antioxidants from Culinary-Medicinal White Button Mushroom, *Agaricus bisporus* (Agaricomycetes), Waste Biomass. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 8, pp. 797-808., Registrované v: WOS

3. [1.1] TAGHAVI, Mehdi - MORTAZ, Esmaeil - KHOSRAVI, Alireza - VAHEDI, Ghasem - FOLKERTS, Gert - VARAHRAM, Mohammad - KAZEMPOUR-DIZAJI, Mehdi - GARSSSEN, Johan - ADCOCK, Ian M. Zymosan attenuates melanoma growth progression, increases splenocyte proliferation and induces TLR-2/4 and TNF-alpha expression in mice. In JOURNAL OF INFLAMMATION-LONDON. ISSN 1476-9255, 2018, vol. 15, no., pp., Registrované v: WOS

4. [1.1] TANG, Qilin - HUANG, Gangliang. Progress in Polysaccharide Derivatization and Properties. In MINI-REVIEWS IN MEDICINAL CHEMISTRY. ISSN 1389-5575, 2016, vol. 16, no. 15, pp. 1244-1257., Registrované v: WOS

5. [1.1] ZHENG, Zhaomin - HUANG, Qilin - LUO, Xiaogang - XIAO, Yidong - CAI, Wenfei - MA, Huiyu. Effects and mechanisms of ultrasound- and alkali-assisted enzymolysis on production of water-soluble yeast beta-glucan. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 273, no., pp. 394-403., Registrované v: WOS

6. [1.2] FRIIOUI, Mohamed - SHAMTSYAN, Mark - ZHILNIKOVA, Natalia A. Development of new methods for isolation of mushroom beta-glucans for the use in the food industry and their comparative evaluation. In Journal of Hygienic Engineering and Design, 2018-01-01, 25, pp. 107-111., Registrované v: SCOPUS

7. [1.2] PELTZER, Mercedes A. - SALVAY, Andres G. - DELGADO, Juan F. - WAGNER, Jorge R. Use of edible films and coatings for functional foods developments: A review. In Functional Foods: Sources, Health Effects and Future Perspectives, 2016-01-01, pp. 1-26., Registrované v: SCOPUS

8. [1.2] PELTZER, Mercedes A. - SALVAY, Andres G. - DELGADO, Juan F. - WAGNER, Jorge R. Use of edible films and coatings for functional foods developments: A review. In Functional Foods: Sources, Health Effects and Future Perspectives, 2016-01-01, pp. 1-26., Registrované v: SCOPUS

ADCA1222 ŠANDULA, Jozef - EBRINGEROVÁ, Anna - PRUŽINEC, J. The effect of gamma-radiation on yeast cell wall glucans. In *Journal of radioanalytical and nuclear chemistry*, 1990, vol. 144, p. 287-295. ISSN 0236-5731. Dostupné na: <https://doi.org/10.1007/BF02225703>

Ohlasy:

1. [1.1] Todaro, S (Todaro, Simona); Sabatino, MA (Sabatino, Maria Antonietta); Mangione, MR (Mangione, Maria Rosalia); Picone, P (Picone, Pasquale); Di Giacinto, ML (Di Giacinto, Maria Laura); Bulone, D (Bulone, Donatella); Dispenza, C (Dispenza, Celia): Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. In: CARBOHYDRATE POLYMERS Volume: 152 Pages: 382-390, Registrované v: WOS

ADCA1223 ŠEDIVÁ, Mária - KLAUDINY, Jaroslav. Antimikrobiálne látky z materskej kašičky. In *Chemické Listy*, 2015, vol. 109, p. 755-761. (2014: 0.272 - IF, Q4 - JCR, 0.198 - SJR, Q3 - SJR, Current Contents - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] ABDULLAH, Mai Shihah - ABDULLAH, Nasuruddin. SKIN TEST REACTIVITY TO BEE HIVE PRODUCTS (HONEY BEES, HONEY, ROYAL JELLY AND POLLEN). In *JURNAL TEKNOLOGI*. ISSN 0127-9696, 2016, vol. 78, no. 5-10, pp. 16-22., Registrované v: WOS
2. [1.1] NEGRI, Pedro - VILLALOBOS, Ethel - SZAWARSKI, Nicolas - DAMIANI, Natalia - GENDE, Liesel - GARRIDO, Melisa - MAGGI, Matias - QUINTANA, Silvina - LAMATTINA, Lorenzo - EGUARAS, Martin. Towards Precision Nutrition: A Novel Concept Linking Phytochemicals, Immune Response and Honey Bee Health. In *INSECTS*, 2019, vol. 10, no. 11, pp., Registrované v: WOS

ADCA1224 ŠEDIVÁ, Mária - LAHO, Maroš - KOHÚTOVÁ, Lenka - MOJŽISOVÁ, Andrea - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. 10-HDA, a major fatty acid of royal jelly, exhibits pH dependent growth-inhibitory activity against different strains of *Paenibacillus* larvae. In *Molecules*, 2018, vol. 23, iss. 12, art. no. 3236, 14 p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules23123236>

Ohlasy:

1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. JAN 2 2020, vol. 21, no. 2, 382., Registrované v: WOS
2. [1.1] BALAN, A. - MOGA, M.A. - DIMA, L. - TOMA, S. - NECULAU, A.E. - ANASTASIU, C.V. Royal Jelly-A Traditional and Natural Remedy for Postmenopausal Symptoms and Aging-Related Pathologies. In *MOLECULES*. JUL 2020, vol. 25, no. 14, 3291., Registrované v: WOS
3. [1.1] BELSKY, Joseph - JOSHI, Neelendra K. Impact of Biotic and Abiotic Stressors on Managed and Feral Bees. In *INSECTS*, 2019, vol. 10, no. 8, pp., Registrované v: WOS
4. [1.1] DE LEON-DOOR, A.P. - PEREZ-ORDONEZ, G. - ROMO-CHACON, A. - RIOS-VELASCO, C. - ORNELAS-PAZ, J.D.J. - ZAMUDIO-FLORES, P.B. - ACOSTA-MUNIZ, C.H. PATHOGENESIS, EPIDEMIOLOGY AND VARIANTS OF *MELISSOCOCCUS PLUTONIUS* (EX WHITE), THE CAUSAL AGENT OF EUROPEAN FOULBROOD. In *JOURNAL OF APICULTURAL SCIENCE*. ISSN 1643-4439, DEC 2020, vol. 64, no. 2, p. 173-188., Registrované v: WOS
5. [1.1] KUNUGI, Hiroshi - ALI, Amira Mohammed. Royal Jelly and Its Components Promote Healthy Aging and Longevity: From Animal Models to Humans. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 19, pp., Registrované v: WOS
6. [1.1] MOLINE, M.D. - FERNANDEZ, N.J. - DAMIANI, N. - CHURIO, M.S. - GENDE, L.B. The effect of diet on *Apis mellifera* larval susceptibility to *Paenibacillus* larvae. In *JOURNAL OF APICULTURAL*

RESEARCH. ISSN 0021-8839, OCT 19 2020, vol. 59, no. 5, p. 817-824.,
Registrované v: WOS

7. [1.1] TASDOGAN, A.M. - KILIC, E.T. - PANCAR, Z. - OZDAL, M.
A folk remedy: royal jelly improves lung capacity in smokers. In PROGRESS IN
NUTRITION. ISSN 1129-8723, MAR 2020, vol. 22, no. 1, p. 297-303.,
Registrované v: WOS

ADCA1225 ŠEFČOVIČ, P. - DÚBRAVKOVÁ, L. - TORTO, F. G. Alkaloids from
the leaves of *Strychnos nux vomica* L. In *Planta Medica*, 1968, vol. 16, p. 143-146.
Ohlasy:

1. [1.1] ELDAHSHAN, Omayma A. - ABDEL-DAIM, Mohamed M.
Phytochemical study, cytotoxic, analgesic, antipyretic and anti-inflammatory
activities of *Strychnos nux-vomica*. In CYTOTECHNOLOGY. ISSN 0920-9069,
2015, vol. 67, no. 5, pp. 831-844., Registrované v: WOS

ADCA1226 ŠESTÁK, Sergej - FARKAŠ, Vladimír. In situ assays of fungal
enzymes in cells permeabilized by osmotic shock. In *Analytical Biochemistry*, 2001,
vol. 292, p. 34-39. ISSN 0003-2697. Dostupné na:
<https://doi.org/10.1006/abio.2001.5056>

Ohlasy:

1. [1.1] PATIL, Mahesh D. - DEV, Manoj J. - SHINDE, Ashok S. -
BHILARE, Kiran D. - PATEL, Gopal - CHISTI, Yusuf - BANERJEE, Uttam
Chand. Surfactant-mediated permeabilization of *Pseudomonas putida* KT2440
and use of the immobilized permeabilized cells in biotransformation. In
PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 63, no., pp. 113-121.,
Registrované v: WOS

ADCA1227 ŠESTÁK, Sergej - FARKAŠ, Vladimír. Metabolic regulation of
endoglucanase synthesis in *Trichoderma reesei*-participation of cyclic AMP and
glucose-6-phosphate. In *Canadian journal of microbiology : revue canadienne de
microbiologie*, 1993, vol. 39, p. 342-347. ISSN 0008-4166.

Ohlasy:

1. [1.1] DE PAULA, Renato Graciano - CAMPOS ANTONIETO,
Amanda Cristina - COSTA RIBEIRO, Liliane Fraga - CARRARO, Claudia
Batista - VIEIRA NOGUEIRA, Karoline Maria - BORGES LOPES, Douglas
Christian - SILVA, Alinne Costa - ZERBINI, Mariana Taise - PEDERSOLI,
Wellington Ramos - COSTA, Mariana do Nascimento - SILVA, Roberto
Nascimento. New Genomic Approaches to Enhance Biomass Degradation by the
Industrial Fungus *Trichoderma reesei*. In INTERNATIONAL JOURNAL OF
GENOMICS. ISSN 2314-436X, 2018, vol., no., pp., Registrované v: WOS
2. [1.1] DRUZHININA, I. S. - KUBICEK, C. P. Familiar Stranger:
Ecological Genomics of the Model Saprotroph and Industrial Enzyme Producer
Trichoderma reesei Breaks the Stereotypes. In ADVANCES IN APPLIED
MICROBIOLOGY, VOL 95. ISSN 0065-2164, 2016, vol. 95, no., pp. 69-147.,
Registrované v: WOS

3. [1.1] LIU, Qian - LI, Jingen - GAO, Ranran - LI, Jinyang - MA, Guoli
- TIAN, Chaoguang. CLR-4, a novel conserved transcription factor for cellulase
gene expression in ascomycete fungi. In MOLECULAR MICROBIOLOGY.
ISSN 0950-382X, 2019, vol. 111, no. 2, pp. 373-394., Registrované v: WOS

4. [1.1] RASSINGER, A. - MELLO-DE-SOUSA, T. M. - REGNAT, K.

- DERNTL, C. - MACH, R. L. - MACH-AIGNER, A. R. Impact of xylanase expression-inducing compounds on DNA accessibility in *Trichoderma reesei*. In MYCOSPHERE. ISSN 2077-7000, 2017, vol. 8, no. 3, pp. 432-444., Registrované v: WOS

5. [1.1] SCHMOLL, Monika - DATTENBOECK, Christoph - CARRERAS-VILLASENOR, Nohem - MENDOZA-MENDOZA, Artemio - TISCH, Doris - IVAN ALEMAN, Mario - BAKER, Scott E. - BROWN, Christopher - GUADALUPE CERVANTES-BADILLO, Mayte - CETZ-CHEL, Jose - ROSA CRISTOBAL-MONDRAGON, Gema - DELAYE, Luis - ULISES ESQUIVEL-NARANJO, Edgardo - FRISCHMANN, Alexa - DE JESUS GALLARDO-NEGRETE, Jose - GARCA-ESQUIVEL, Monica - YAZMIN GOMEZ-RODRIGUEZ, Elida - GREENWOOD, David R. - HERNANDEZ-ONATE, Miguel - KRUSZEWSKA, Joanna S. - LAWRY, Robert - MORA-MONTES, Hector M. - MUNOZ-CENTENO, Tania - NIETO-JACOBO, Maria Fernanda - LOPEZ, Guillermo Nogueira - OLMEDO-MONFIL, Vianey - OSORIO-CONCEPCION, Macario - PILSYK, Sebastian - POMRANING, Kyle R. - RODRIGUEZ-IGLESIAS, Aroa - TERESA ROSALES-SAAVEDRA, Maria - ALEJANDRO SANCHEZ-ARREGUIN, J. - SEIDL-SEIBOTH, Verena - STEWART, Alison - ELENA URESTI-RIVERA, Edith - WANG, Chih-Li - WANG, Ting-Fang - ZEILINGER, Susanne - CASAS-FLORES, Sergio - HERRERA-ESTRELLA, Alfredo. The Genomes of Three Uneven Siblings: Footprints of the Lifestyles of Three *Trichoderma* Species, 2016, vol. 80, iss. 1, p. 205-327., Registrované v: WOS

6. [1.1] STAPPLER, Eva - RODRIGUEZ-IGLESIAS, Aroa - BAZAFKAN, Hoda - LI, Guofen - SCHMOLL, Monika. Relevance of Signal Transduction Pathways for Efficient Gene Expression in Fungi. In GENE EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 309-334., Registrované v: WOS

7. [1.1] VIEIRA NOGUEIRA, Karoline Maria - COSTA, Mariana do Nascimento - DE PAULA, Renato Graciano - MENDONCA-NATIVIDADE, Flavia Costa - RICCI-AZEVEDO, Rafael - SILVA, Roberto Nascimento. Evidence of cAMP involvement in cellobiohydrolase expression and secretion by *Trichoderma reesei* in presence of the inducer sophorose. In BMC MICROBIOLOGY. ISSN 1471-2180, 2015, vol. 15, no., pp., Registrované v: WOS

8. [1.2] HINTERDOBLER, Wolfgang - SCHUSTER, André - TISCH, Doris - ÖZKAN, Ezgi - BAZAFKAN, Hoda - SCHINNERL, Johann - BRECKER, Lothar - BÖHMDORFER, Stefan - SCHMOLL, Monika. The role of PKAc1 in gene regulation and trichodimerol production in *Trichoderma reesei*. In Fungal Biology and Biotechnology, 2019-09-10, 6, 1, pp., Registrované v: SCOPUS

9. [1.2] KADOWAKI, Marina Kimiko - DE CÁSSIA GARCIA SIMÃO, Rita - DA CONCEIÇÃO SILVA, Jose Luís - OSAKU, Clarice Aoki - GUIMARÃES, Luis Henrique Souza. Biotechnological advances in fungal invertases. In Fungal Enzymes, 2016-04-19, pp. 1-30., Registrované v: SCOPUS

10. [1.2] SCHMOLL, Monika. Regulation of plant cell wall degradation by light in *trichoderma*. In Fungal Biology and Biotechnology, 2018-01-01, 5, 1, pp. 1-20., Registrované v: SCOPUS

11. [1.2] SILVA, Roberto N. Regulation of plant cell wall degrading enzymes formation in filamentous fungi. In *Fungal Enzymes*, 2016-04-19, pp. 173-213., Registrované v: SCOPUS

ADCA1228 ŠESTÁK, Sergej - BELLA, Maroš - KLUNDA, Tomáš - GURSKÁ, Soňa - DŽUBÁK, Petr - WOLS, Florian - WILSON, Iain B.H. - SLÁDEK, Vladimír - HAJDÚCH, Marián - POLÁKOVÁ, Monika** - KÓŇA, Juraj**. N-benzyl substitution of polyhydroxypyrrolidines: The way to selective inhibitors of Golgi alfa-mannosidase II. In *ChemMedChem*, 2018, vol. 13, p. 373-383. (2017: 3.009 - IF, Q2 - JCR, 1.137 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1860-7179. Dostupné na: <https://doi.org/10.1002/cmdc.201700607>

Ohlasy:

1. [1.1] KOYAMA, Ryosuke - HAKAMATA, Wataru - HIRANO, Takako - NISHIO, Toshiyuki. Identification of Small-Molecule Inhibitors of Human Golgi Mannosidase via a Drug Repositioning Screen. In *CHEMICAL & PHARMACEUTICAL BULLETIN*. ISSN 0009-2363, 2018, vol. 66, no. 6, pp. 678-681., Registrované v: WOS

2. [1.1] LI, Chenglong - GUO, Linjie - CHEN, Fan - YU, Weiming - RAO, Ting - RUAN, Yuan. Golgi Alpha-Mannosidase II as a Novel Biomarker Predicts Prognosis in Clear Cell Renal Cell Carcinoma. In *ONCOLOGY RESEARCH AND TREATMENT*. ISSN 2296-5270, 2020, vol. 43, no. 6, pp. 264-274. Dostupné na: <https://doi.org/10.1159/000505931>., Registrované v: WOS

3. [1.1] SLÁDEK, Vladimír - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein Residue Networks from Energetic and Geometric Data: Are They Identical? In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 12, pp. 6623-6631. Dostupné na: <https://doi.org/10.1021/acs.jctc.8b00733>., Registrované v: WOS

4. [1.1] WOOD, Adam - BERNHARDT, Paul - VAN ALTENA, Ian - SIMONE, Michela. Crystal structure of 6-azido-6-deoxy-1,2-O-iso-propylidene-alpha-D-glucofuranose. In *ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS*. ISSN 2056-9890, 2020, vol. 76, no., pp. 1653-+. Dostupné na: <https://doi.org/10.1107/S2056989020012438>., Registrované v: WOS

5. [1.1] YANG, Lin-Feng - SHIMADATE, Yuna - KATO, Atsushi - LI, Yi-Xian - JIA, Yue-Mei - FLEET, George W. J. - YU, Chu-Yi. Synthesis and glycosidase inhibition of N-substituted derivatives of 1,4-dideoxy-1,4-imino-d-mannitol (DIM). In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 5, pp. 999-1011. Dostupné na: <https://doi.org/10.1039/c9ob02029b>., Registrované v: WOS

ADCA1229 ŠESTÁK, Sergej - HAGEN, I. - TANNER, W. - STRAHL, S. Scw10p, a cell-wall glucanase/transglucosidase important for cell-wall stability in *Saccharomyces cerevisiae*. In *Microbiology-SGM*, 2004, vol. 150, pp. 3197-3208. ISSN 1350-0872. Dostupné na: <https://doi.org/10.1099/mic.0.27293-0>

Ohlasy:

1. [1.1] ALVES, S. L. - THEVELEIN, J. M. - STAMBUK, B. U. Extracellular maltotriose hydrolysis by *Saccharomyces cerevisiae* cells lacking the AGT1 permease. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN

- 0266-8254, 2018, vol. 67, no. 4, pp. 377-383., Registrované v: WOS
2. [1.1] BOROVIKOVA, Diana - TEPARIC, Renata - MRSA, Vladimir - RAPOPORT, Alexander. Anhydrobiosis in yeast: cell wall mannoproteins are important for yeast *Saccharomyces cerevisiae* resistance to dehydration. In YEAST. ISSN 0749-503X, 2016, vol. 33, no. 8, pp. 347-353., Registrované v: WOS
3. [1.1] FREY, Stefan - LAHMANN, Yasmine - HARTMANN, Thomas - SEILER, Stephan - POEGGELER, Stefanie. Deletion of Smgpi1 encoding a GPI-anchored protein suppresses sterility of the STRIPAK mutant Smmob3 in the filamentous ascomycete *Sordaria macrospora*. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, 2015, vol. 97, no. 4, pp. 676-697., Registrované v: WOS
4. [1.1] KALEBINA, Tatyana S. - SOKOLOV, Sviatoslav S. - SELYAKH, Irina O. - VANICHKINA, Darya P. - SEVERIN, Fedor F. Amiodarone induces cell wall channel formation in yeast *Hansenula polymorpha*. In SPRINGERPLUS. ISSN 2193-1801, 2015, vol. 4, no., pp., Registrované v: WOS
5. [1.1] KUTTY, Geetha - DAVIS, A. Sally - SCHUCK, Kaitlynn - MASTERSON, Mya - WANG, Honghui - LIU, Yueqin - KOVACS, Joseph A. Characterization of *Pneumocystis murina* Bgl2, an Endo-beta-1,3-Glucanase and Glucanosyltransferase. In JOURNAL OF INFECTIOUS DISEASES. ISSN 0022-1899, 2019, vol. 220, no. 4, pp. 657-665., Registrované v: WOS
6. [1.1] MARTINEZ-NUNEZ, Leonora - RIQUELME, Meritxell. Role of BGT-1 and BGT-2, two predicted GPI-anchored glycoside hydrolases/glycosyltransferases, in cell wall remodeling in *Neurospora crassa*. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2015, vol. 85, no., pp. 58-70., Registrované v: WOS
7. [1.1] MILLET, Nicolas - LATGE, Jean-Paul - MOUYNA, Isabelle. Members of Glycosyl-Hydrolase Family 17 of *A. fumigatus* Differentially Affect Morphogenesis. In JOURNAL OF FUNGI, 2018, vol. 4, no. 1, pp., Registrované v: WOS
8. [1.1] QIN, Zhen - YAN, Qiaojuan - LEI, Jian - YANG, Shaoqing - JIANG, Zhengqiang - WU, Shiwang. The first crystal structure of a glycoside hydrolase family 17-1,3-glucanosyltransferase displays a unique catalytic cleft. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2015, vol. 71, no., pp. 1714-1724., Registrované v: WOS
9. [1.1] QIN, Zhen - YAN, Qiaojuan - YANG, Shaoqing - JIANG, Zhengqiang. Modulating the function of a beta-1,3-glucanosyltransferase to that of an endo-beta-1,3-glucanase by structure-based protein engineering. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 4, pp. 1765-1776., Registrované v: WOS
10. [1.1] WEINHANDL, Katrin - BALLACH, Melanie - WINKLER, Margit - AHMAD, Mudassar - GLIEDER, Anton - BIRNER-GRUENBERGER, Ruth - FOTHERINGHAM, Ian - ESCALETES, Franck - CAMATTARI, Andrea. *Pichia pastoris* mutants as host strains for efficient secretion of recombinant branched chain aminotransferase (BCAT). In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 235, no., pp. 84-91., Registrované v: WOS
11. [1.1] ZHAO, Guozhong - YAO, Yunping - HAO, Guangfei - FANG, Dongsheng - YIN, Boxing - CAO, Xiaohong - CHEN, Wei. Gene regulation in

Aspergillus oryzae promotes hyphal growth and flavor formation in soy sauce koji. In RSC ADVANCES. ISSN 2046-2069, 2015, vol. 5, no. 31, pp.

24224-24230., Registrované v: WOS

12. [1.2] VERDÍN, Jorge - SÁNCHEZ-LEÓN, Eddy - RICO-RAMÍREZ, Adriana M. - MARTÍNEZ-NÚÑEZ, Leonora - FAJARDO-SOMERA, Rosa A. - RIQUELME, Meritxell. Off the wall: The rhyme and reason of *Neurospora crassa* hyphal morphogenesis. In *Cell Surface*, 2019-12-01, 5, pp., Registrované v: SCOPUS

ADCA1230 ŠIKL, D. - MASLER, Ladislav - BAUER, Štefan - ŠANDULA, Jozef - TOMŠÍKOVÁ, A. - ZAVÁZAL, V. Allergen activity of the polysaccharide-protein complex of candida. In *Zeitschrift fur Immunitatsforschung, Allergie und klinische Immunologie*, 1969, vol. 138, p. 207-216.

Ohlasy:

1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA1231 ŠIKL, J. - MASLER, Ladislav - BAUER, Štefan. Mannan from the extracellular surface of *Candida albicans* Berkhout. In *Experientia*, 1964, vol. 20, p. 456. ISSN 0014-4754.

Ohlasy:

1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA1232 ŠIMKOVIC, Ivan - ALFOLDI, Juraj. Acetylation of (4-O-methyl-D-glucurono)-D-xylan under homogenous conditions using trifluoroacetic acid-acetic anhydride. In *Carbohydrate Research*. - Elsevier, 1990, vol. 201, p. 346-348. (1990 - Current Contents, SCOPUS). ISSN 0008-6215.

Dostupné na: [https://doi.org/10.1016/0008-6215\(90\)84251-O](https://doi.org/10.1016/0008-6215(90)84251-O)

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

2. [1.1] TOSHIMA, Kazunobu - TAKAHASHI, Daisuke. Chemical approach for target-selective degradation of oligosaccharides using photoactivatable organic molecules. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2015, vol. 32, no. 7, pp. 475-482., Registrované v: WOS

ADCA1233 ŠIMKOVIC, Ivan - SYNYTSYA, Andriy - UHLIARIKOVÁ, Iveta - ČOPIKOVÁ, J. Amidated pectin derivatives with n-propyl-, 3-aminopropyl-, 3-propanol-or 7-aminoheptyl-substituent. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol. 76, s. 602-606. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617.

Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.11.022>

Ohlasy:

1. [1.1] EL BARKANY, Soufian - EL IDRISSI, Abderahmane -

- ZANNAGUI, Chahid - TABAGHT, Fatima - MAAROUFI, Abdel-Karim - ABOU-SALAMA, Mohamed - AMHAMDI, Hassan. Homogeneous Grafting of New Amido Groups onto Hydroxyethyl Cellulose Acetate Microfibrils: Solubility Study. In MOROCCAN JOURNAL OF CHEMISTRY. ISSN 2351-812X, 2016, vol. 4, no. 3, pp. 743-758., Registrované v: WOS
2. [1.1] CHEN, Jun - NIU, Xiaoqin - DAI, Taotao - HUA, Hui - FENG, Sijie - LIU, Chengmei - MCCLEMENTS, David Julian - LIANG, Ruihong. Amino acid-amidated pectin: Preparation and characterization. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 309, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.125768>., Registrované v: WOS
3. [1.1] LIANG, Rui-hong - LI, Ya - HUANG, Li - WANG, Xue-dong - HU, Xiao-xue - LIU, Cheng-mei - CHEN, Ming-shun - CHEN, Jun. Pb²⁺ adsorption by ethylenediamine-modified pectins and their adsorption mechanisms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115911>., Registrované v: WOS
4. [1.1] RANGELOVA, Nadezhda - ALEKSANDROV, Lyubomir - NENKOVA, Sanchi. Synthesis and characterization of pectin/SiO₂ hybrid materials. In JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. ISSN 0928-0707, 2018, vol. 85, no. 2, pp. 330-339., Registrované v: WOS
5. [1.1] TAVAKOL, Moslem - VASHEGHANI-FARAHANI, Ebrahim - MOHAMMADIFAR, Mohammad Amin - SOLEIMANI, Masoud - HASHEMI-NAJAFABADI, Sameereh. Synthesis and characterization of an in situ forming hydrogel using tyramine conjugated high methoxyl gum tragacanth. In JOURNAL OF BIOMATERIALS APPLICATIONS. ISSN 0885-3282, 2016, vol. 30, no. 7, pp. 1016-1025., Registrované v: WOS
6. [1.2] PAWAR, Harshal Ashok - KAMAT, Swati Ramesh - CHOUDHARY, Pritam Dinesh. An overview of natural polysaccharides as biological macromolecules: Their chemical modifications and pharmaceutical applications. In Biology and Medicine, 2015-01-01, 7, 1, pp., Registrované v: SCOPUS

ADCA1234 ŠIMKOVIC, Ivan - UHLIARIKOVÁ, Iveta - YADAV, Madhav P. - MENDICHI, Raniero. Branched arabinan obtained from sugar beet pulp by quaternization under acidic conditions. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2010, vol. 82, p. 815-821. (2009: 3.167 - IF, 1.426 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2010.05.057>

Ohlasy:

1. [1.1] DING, Huihuang H. - CUI, Steve W. - GOFF, H. Douglas - CHEN, Jie - WANG, Qi - HAN, Nam Fong. Arabinan-rich rhamnogalacturonan-I from flaxseed kernel cell wall. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 47, no., pp. 158-167., Registrované v: WOS
2. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS
3. [1.1] MAKAROVA, E. N. - SHAKHMATOV, E. G. - UDORATINA, E. V. - KUTCHIN, A. V. Structural and chemical characteristics

of pectins, arabinogalactans, and arabinogalactan proteins from conifers. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2015, vol. 64, no. 6, pp. 1302-1318., Registrované v: WOS

ADCA1235

ŠIMKOVIC, Ivan - KELNAR, Ivan - UHĽARIKOVÁ, Iveta -

MENDICHI, Raniero - MANDALIKA, Anurag - ELDER, Thomas.

Carboxymethylated-, hydroxypropylsulfonated- and quaternized xylan derivative films. In *Carbohydrate Polymers*, 2014, vol. 110, p. 464-471. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.04.055>

Ohlasy:

1. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (*Populus grandidentata*) and its potential in water-soluble oxygen barrier films. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na:

<https://doi.org/10.1007/s10570-020-02993-2>, Registrované v: WOS

2. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS

3. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Enhanced formability and mechanical performance of wood hydrolysate films through reductive amination chain extension. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 117, no., pp. 346-354., Registrované v: WOS

4. [1.1] KONDURI, Mohan K. R. - FATEHI, Pedram. Synthesis and characterization of carboxymethylated xylan and its application as a dispersant. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 146, no., pp. 26-35., Registrované v: WOS

5. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In *BIOTECHNOLOGY PROGRESS*. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS

6. [1.1] LIU, Zhongming - XU, Dingding - ZHAO, Xin - XIA, Nannan - YANG, Guihua - FATEHI, Pedram - KONG, Fangong - WANG, Shoujuan. PREPARATION AND APPLICATION OF CARBOXYMETHYLATED XYLAN AS A FLOCCULANT FOR ETHYL VIOLET DYE IN AQUEOUS SYSTEMS. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2018, vol. 38, no. 4, pp. 324-337., Registrované v: WOS

7. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS

8. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated

arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na:

<https://doi.org/10.1002/app.48325>., Registrované v: WOS

9. [1.1] MIKKONEN, Kirsi S. - LAINE, Christiane - KONTRO, Inkeri - TALJA, Riku A. - SERIMAA, Ritva - TENKANEN, Maija. Combination of internal and external plasticization of hydroxypropylated birch xylan tailors the properties of sustainable barrier films. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 66, no., pp. 307-318., Registrované v: WOS

10. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS

11. [1.1] RAMOS, Ana - SOUSA, Sonia - EVTUGUIN, Dmitry V. - GARNELAS, Jose A. F. Functionalized xylans in the production of xylan-coated paper laminates. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 117, no., pp. 89-96., Registrované v: WOS

12. [1.1] SHAO, Hui - SUN, Hui - YANG, Biao - ZHANG, Huijuan - HU, Yu. Facile and green preparation of hemicellulose-based film with elevated hydrophobicity via cross-linking with citric acid. In RSC ADVANCES, 2019, vol. 9, no. 5, pp. 2395-2401., Registrované v: WOS

13. [1.1] SOUSA, Sonia - PEDROSA, Jorge - RAMOS, Ana - FERREIRA, Paulo J. - GAMELAS, Jose A. F. Surface properties of xylan and xylan derivatives measured by inverse gas chromatography. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2016, vol. 506, no., pp. 600-606., Registrované v: WOS

14. [1.1] SOUSA, Sonia - RAMOS, Ana - EVTUGUIN, Dmitry V. - GAMELAS, Jose A. F. Xylan and xylan derivatives-Their performance in bio-based films and effect of glycerol addition. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2016, vol. 94, no., pp. 682-689., Registrované v: WOS

15. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

16. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS

ADCA1236 ŠIMKOVIC, Ivan - MENDICHI, Raniero - KELNAR, Ivan - FILIP, Jaroslav - HRICOVÍNI, Miloš. Cationization of heparin for film applications. In Carbohydrate Polymers, 2015, vol. 115, p. 551-558. (2014: 4.074 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.09.021>

Ohlasy:

1. [1.1] BARAHONA, Tamara - PRADO, Hector J. - BONELLI, Pablo R. - CUKIERMAN, Ana L. - FISSORE, Eliana L. - GERSCHENSON, Lia N. - MATULEWICZ, Maria C. Cationization of kappa- and iota-carrageenan Characterization and properties of amphoteric polysaccharides. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 126, no., pp. 70-77., Registrované v: WOS

2. [1.1] BEDINI, Emiliano - LAEZZA, Antonio - IADONISI, Alfonso. Chemical Derivatization of Sulfated Glycosaminoglycans. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2016, vol., no. 18, pp. 3018-3042., Registrované v: WOS
3. [1.1] VENKATARAMAN, Shrinivas - LEE, Ashlynn L. Z. - TAN, Jeremy P. K. - NG, Yi Chien - LIN, Amelia Lee Yi - YONG, Jaron Y. K. - YI, Guangshun - ZHANG, Yugen - LIM, Ivor J. - PHAN, Thang T. - YANG, Yi Yan. Functional cationic derivatives of starch as antimicrobial agents. In POLYMER CHEMISTRY. ISSN 1759-9954, 2019, vol. 10, no. 3, pp. 412-423., Registrované v: WOS

ADCA1237 ŠIMKOVIC, Ivan - KELNAR, Ivan - MENDICHI, Raniero - BERTÓK, Tomáš - FILIP, Jaroslav. Composite films prepared from agricultural by-products. In *Carbohydrate Polymers*, 2017, vol. 156, p. 77-85. (2016: 4.811 - IF, Q1 - JCR, 1.419 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.09.014>

Ohlasy:

1. [1.1] ALVAREZ, Ana - CACHERO, Sofia - GONZALEZ-SANCHEZ, Carlos - MONTEJO-BERNARDO, Jose - PIZARRO, Consuelo - BUENO, Julio L. Novel method for holocellulose analysis of non-woody biomass wastes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 189, no., pp. 250-256., Registrované v: WOS
2. [1.1] FAZELI, Mahyar - KELEY, Meysam - BIAZAR, Esmaeil. Preparation and characterization of starch-based composite films reinforced by cellulose nanofibers. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 272-280., Registrované v: WOS
3. [1.1] MONTANES, N. - GARCIA-SANOQUERA, D. - SEGUI, V. J. - FENOLLAR, O. - BORONAT, T. Processing and Characterization of Environmentally Friendly Composites from Biobased Polyethylene and Natural Fillers from Thyme Herbs. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1218-1230., Registrované v: WOS
4. [1.1] SASIMOWSKI, Emil - MAJEWSKI, Lukasz - GROCHOWICZ, Marta. Analysis of Selected Properties of Biocomposites Based on Polyethylene with a Natural Origin Filler. In MATERIALS, 2020, vol. 13, no. 18, pp. Dostupné na: <https://doi.org/10.3390/ma13184182>., Registrované v: WOS

ADCA1238 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - MENDICHI, R. - VAN SOEST, J.J.G. Cross-linking of starch with 1,2,3,4-diepoxbutane or 1,2,7,8-diepoxyoctane. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2004, vol. 55, p. 299-305. (2003: 1.597 - IF, Current Contents - CCC). (2004 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2003.10.002>

Ohlasy:

1. [1.1] BARCLAY, Thomas G. - DAY, Candace Minhthu - PETROVSKY, Nikolai - GARG, Sanjay. Review of polysaccharide particle-based functional drug delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 221, no., pp. 94-112., Registrované v: WOS

2. [1.1] GE, Xiaoyan - YU, Long - LIU, Zengshe - LIU, Hongsheng - CHEN, Ying - CHEN, Ling. Developing acrylated epoxidized soybean oil coating for improving moisture sensitivity and permeability of starch-based film. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 125, no., pp. 370-375., Registrované v: WOS
3. [1.1] RIBBA, Laura - GARCIA, Nancy L. - D' ACCORSO, Norma - GOYANES, Silvia. Disadvantages of Starch-Based Materials, Feasible Alternatives in Order to Overcome These Limitations. In STARCH-BASED MATERIALS IN FOOD PACKAGING: PROCESSING, CHARACTERIZATION AND APPLICATIONS, 2017, vol., no., pp. 37-76., Registrované v: WOS
4. [1.1] SHEN, Li - XU, Helan - KONG, Lingjuan - YANG, Yiqi. Non-Toxic Crosslinking of Starch Using Polycarboxylic Acids: Kinetic Study and Quantitative Correlation of Mechanical Properties and Crosslinking Degrees. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2015, vol. 23, no. 4, pp. 588-594., Registrované v: WOS
5. [1.1] XU, Helan - CANISAG, Hazal - MU, Bingnan - YANG, Yiqi. Robust and Flexible Films from 100% Starch Cross-Linked by Biobased Disaccharide Derivative. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2015, vol. 3, no. 11, pp. 2631-2639., Registrované v: WOS
6. [1.2] GANJI, Yasaman. Polyethylene/Starch-Based Biocomposites and Bionanocomposites. In Polyethylene-Based Biocomposites and Bionanocomposites, 2016-12-12, pp. 69-98., Registrované v: SCOPUS
7. [1.2] LI, Z. - MA, X. - FAN, D. - ZHU, C. - ZHAO, L. - LIU, Y. - CHANG, L. Cross-linking of hyaluronic acid with 1, 2, 7, 8-diepoxyoctane. In Materials Research Innovations. ISSN 14328917, 2015-11-01, 19, pp. S9268-S9272., Registrované v: SCOPUS

ADCA1239 ŠIMKOVIC, Ivan - ALFOLDI, Juraj - SCHULTEN, H.R. Effect of pretreatment on pyrolysis-field ionization mass spectrometric data of (4-O-methyl-D-glucurono)-D-xylan from beech wood. In *Biomass and Bioenergy*, 1993, vol. 4, p. 373-378. ISSN 0961-9534. Dostupné na: [https://doi.org/10.1016/0961-9534\(93\)90054-8](https://doi.org/10.1016/0961-9534(93)90054-8)

Ohlasy:

1. [1.1] JEGAJEEVAGAN, K. - MABILDE, L. - GEBREMIKAEL, M. T. - AMELOOT, N. - DE NEVE, S. - LEINWEBER, P. - SLEUTEL, S. Artisanal and controlled pyrolysis-based biochars differ in biochemical composition, thermal recalcitrance, and biodegradability in soil. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2016, vol. 84, no., pp. 1-11., Registrované v: WOS
2. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In ENERGY TECHNOLOGY. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
3. [1.2] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A mechanistic model of fast pyrolysis of hemicellulose. In Energy and Environmental Science. ISSN 17545692, 2018-05-01, 11, 5, pp. 1240-1260., Registrované v: SCOPUS

ADCA1240 ŠIMKOVIC, Ivan - ŠURINA, Igor - MIKULÁŠIK, Radoslav - ORSÁGOVÁ, Anna - HÁZ, Aleš - SCHWARZINGER, Clemens. Evaluation of the phytomass source for composite preparation. In *Journal of Applied Polymer Science*, 2013, vol. 127, p. 508-515. (2012: 1.395 - IF, Q2 - JCR, 0.658 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.37807>

Ohlasy:

1. [1.1] SLEZAK, Radoslaw - KRZYSZEK, Liliana - DZIUGAN, Piotr - LEDAKOWICZ, Stanislaw. Co-Pyrolysis of Beet Pulp and Defecation Lime in TG-MS System. In *ENERGIES*, 2020, vol. 13, no. 9, pp. Dostupné na: <https://doi.org/10.3390/en13092304>., Registrované v: WOS

ADCA1241 ŠIMKOVIC, Ivan - PASTÝR, J. - CSOMOROVÁ, Katarína - BALOG, K. - MICKO, M.M. Flame Retardancy Effect of Crosslinking of Lignocellulose Materials. In *Journal of Applied Polymer Science*, 1990, vol. 41, no. 6, p. 1333-1337.

Ohlasy:

1. [1.1] TABRIZI, A.K. - KHADEMIESLAM, H. - HEMMASI, A.H. - BAZYAR, B. - ATGHIA, S.V. Luffa as a lignocellulosic material for fabrication of a new and green catalyst in promoting of coumarin and bis(indolyl)methane derivatives. In *GREEN CHEMISTRY LETTERS AND REVIEWS*. ISSN 1751-8253, OCT 1 2020, vol. 13, no. 4, p. 64-76., Registrované v: WOS
2. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA1242 ŠIMKOVIC, Ivan - MARTVOŇOVÁ, H. - MANÍKOVÁ, D. - GREXA, O. Flame retardance of immobilized silica inside of wood material. In *Journal of Applied Polymer Science*, 2005, vol. 97, p. 1948-1952. (2004: 1.021 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0021-8995.

Ohlasy:

1. [1.1] GUO, Chuigen - WANG, Shijing - WANG, Qingwen. Synergistic effect of treatment with disodium octaborate tetrahydrate and guanidyl urea phosphate on flammability of pine wood. In *EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS*. ISSN 0018-3768, 2018, vol. 76, no. 1, pp. 213-220., Registrované v: WOS
2. [1.1] HAN, Xiaoshuai - ZHANG, Qinqin - YIN, Yihui - PU, Junwen. Fire retardancy of graphene oxide/wood composite (GOW) prepared by a vacuum-pulse dipping technique. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2018, vol. 72, no. 5, pp. 375-378., Registrované v: WOS
3. [1.1] MERK, Vivian - CHANANA, Munish - KEPLINGER, Tobias - GAAN, Sabyasachi - BURGERT, Ingo. Hybrid wood materials with improved fire retardance by bio-inspired mineralisation on the nano- and submicron level. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2015, vol. 17, no. 3, pp. 1423-1428., Registrované v: WOS
4. [1.1] MERK, Vivian - CHANANA, Munish - GAAN, Sabyasachi - BURGERT, Ingo. Mineralization of wood by calcium carbonate insertion for improved flame retardancy. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2016, vol. 70, no. 9, pp. 867-876., Registrované v: WOS

5. [1.1] RAHMAN, M. R. - LAI, J. C. H. Introduction to Reinforcing Potential of Various Clay and Monomers Dispersed Wood Nanocomposites'. In WOOD POLYMER NANOCOMPOSITES: CHEMICAL MODIFICATIONS, PROPERTIES AND SUSTAINABLE APPLICATIONS. ISSN 1612-1317, 2018, vol., no., pp. 1-36., Registrované v: WOS
6. [1.1] THI THAM NGUYEN - THI VINH KHANH NGUYEN - XIAO, Zefang - WANG, Fengqiang - ZHENG, Zhongguo - CHE, Wenbo - XIE, Yanjun. Combustion behavior of poplar (*Populus adenopoda* Maxim.) and radiata pine (*Pinus radiata* Don.) treated with a combination of styrene-acrylic copolymer and sodium silicate. In EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS. ISSN 0018-3768, 2019, vol. 77, no. 3, pp. 439-452., Registrované v: WOS
7. [1.1] THI THAM NGUYEN - XIAO, Zefang - CHE, Wenbo - HIEN MAI TRINH - XIE, Yanjun. Effects of modification with a combination of styrene-acrylic copolymer dispersion and sodium silicate on the mechanical properties of wood. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2019, vol. 65, no. 1, pp., Registrované v: WOS
8. [1.1] WANG, Tiansheng - LIU, Tao - MA, Tongtong - LI, Liping - WANG, Qingwen - GUO, Chuigen. Study on degradation of phosphorus and nitrogen composite UV-cured flame retardant coating on wood surface. In PROGRESS IN ORGANIC COATINGS. ISSN 0300-9440, 2018, vol. 124, no., pp. 240-248., Registrované v: WOS
9. [1.1] WEN, Gang - GUO, ZhiGuang. Nonflammable superhydrophobic paper with biomimetic layered structure exhibiting boiling-water resistance and repairable properties for emulsion separation. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2018, vol. 6, no. 16, pp. 7042-7052., Registrované v: WOS
10. [1.1] XIAO, Zefang - XU, Jiejie - MAI, Carsten - MILITZ, Holger - WANG, Qingwen - XIE, Yanjun. Combustion behavior of Scots pine (*Pinus sylvestris* L.) sapwood treated with a dispersion of aluminum oxychloride-modified silica. In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 12, pp. 1165-1173., Registrované v: WOS

ADCA1243 ŠIMKOVIC, Ivan. Flame retarded composite panels from sugar beet residues. In *Journal of Thermal Analysis and Calorimetry*, 2012, vol. 109, p. 1445-1455. ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-011-1879-9>

Ohlasy:

1. [1.1] KARAKUS, Kadir - BIRBILEN, Yildiz - MENGELOGLU, Fatih. Assessment of selected properties of LDPE composites reinforced with sugar beet pulp. In MEASUREMENT. ISSN 0263-2241, 2016, vol. 88, no., pp. 137-146., Registrované v: WOS
2. [1.1] WANG, Wenjia - GUO, Jia - LIU, Xiaodong - LI, Hongfei - SUN, Jun - GU, Xiaoyu - WANG, Julin - ZHANG, Sheng - LI, Wei. Constructing eco-friendly flame retardant coating on cotton fabrics by layer-by-layer self-assembly. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5377-5389. Dostupné na: <https://doi.org/10.1007/s10570-020-03140-7>, Registrované v: WOS

ADCA1244

ŠIMKOVIC, Ivan - WHITE, Robert, H. - FULLER, Anne, M.

Flammability studies of impregnated paper sheets. In *Journal of Thermal Analysis and Calorimetry*, 2012, vol. 107, p. 519-526. (2011: 1.604 - IF, Q3 - JCR, 0.532 - SJR, Q2 - SJR). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-011-1690-7>

Ohlasy:

1. [1.1] SHA, Li-Zheng - CHEN, Ke-Fu. Surface modification of ammonium polyphosphate-diatomaceous earth composite filler and its application in flame-retardant paper. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2016, vol. 123, no. 1, pp. 339-347., Registrované v: WOS
2. [1.1] ZHANG, X. J. - ZHAO, H. F. - SHA, L. Z. - LI, J. - LI, Y. - MA, C. - HU, H. W. TERNARY FLAME RETARDANT SYSTEM OF AMMONIUM POLYPHOSPHATE-DIATOMITE-NANO-SiO₂ AND ITS APPLICATION IN FIBROUS MATERIALS. In *DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES*. ISSN 1842-3582, 2020, vol. 15, no. 1, pp. 85-92., Registrované v: WOS
3. [1.1] ZHAO, H. F. - SHA, L. Z. SYNERGISTIC EFFECT OF NANO-TiO₂, AMMONIUM POLYPHOSPHATE AND DIATOMITE TERNARY SYSTEM ON FLAME RETARDANCY AND SMOKE SUPPRESSION OF FILLED PAPER. In *DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES*. ISSN 1842-3582, 2017, vol. 12, no. 2, pp. 473-481., Registrované v: WOS
4. [1.2] ZHAO, Hui Fang - SHA, Li Zheng - ZHANG, Xue Jin - CHEN, Hua. Preparation of flame retardant and smoke suppression paper using ammonium polyphosphate (APP)-diatomite as filler. In *IPPTA: Quarterly Journal of Indian Pulp and Paper Technical Association*. ISSN 03795462, 2017-06-01, 29, 2, pp. 141-147., Registrované v: SCOPUS

ADCA1245

ŠIMKOVIC, Ivan - MARTVOŇOVÁ, H. - MANIKOVÁ, D. -

GREXA, O. Flammability studies of sodium thiosulphate or metabisulphite impregnated wood using cone calorimeter. In *Fire and Materials*, 2007, vol. 31, p. 137-145. (2006: 0.492 - IF, Q3 - JCR, 0.404 - SJR, Q1 - SJR). ISSN 0308-0501. Dostupné na: <https://doi.org/10.1002/fam.930>

Ohlasy:

1. [1.1] GUO, Chuigen - WANG, Shijing - WANG, Qingwen. Synergistic effect of treatment with disodium octaborate tetrahydrate and guanidyl urea phosphate on flammability of pine wood. In *EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS*. ISSN 0018-3768, 2018, vol. 76, no. 1, pp. 213-220., Registrované v: WOS
2. [1.1] MERK, Vivian - CHANANA, Munish - KEPLINGER, Tobias - GAAN, Sabyasachi - BURGERT, Ingo. Hybrid wood materials with improved fire retardance by bio-inspired mineralisation on the nano- and submicron level. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2015, vol. 17, no. 3, pp. 1423-1428., Registrované v: WOS
3. [1.1] MERK, Vivian - CHANANA, Munish - GAAN, Sabyasachi - BURGERT, Ingo. Mineralization of wood by calcium carbonate insertion for improved flame retardancy. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2016, vol. 70, no. 9, pp. 867-876., Registrované v: WOS

ADCA1246 ŠIMKOVIC, Ivan - ANTAL, Miroslav - ALFOLDI, Juraj. Fractionation of wheat straw meal after pretreatment with acidified zinc chloride solutions. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1994, vol. 23, p. 111-114. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90034-5](https://doi.org/10.1016/0144-8617(94)90034-5)

Ohlasy:

1. [1.1] HU, Zhijun - MUSIKAVANHU, Brian - LI, Jing - LIN, Jiang - HE, Zhibin. ZnCl₂ Pretreatment of Bamboo Chips to Produce Chemi-thermomechanical Pulp: Saving Refining Energy and Improving Pulp Properties. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 5164-5178., Registrované v: WOS
2. [1.1] Wassie, AB (Wassie, A. B.); Srivastava, VC (Srivastava, V. C.): Chemical treatment of teff straw by sodium hydroxide, phosphoric acid and zinc chloride: adsorptive removal of chromium. In: *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY* Volume: 13 Issue: 10 Pages: 2415-2426, Registrované v: WOS

ADCA1247 ŠIMKOVIC, Ivan - NUNEZ, Alberto - STRAHAN, Gary D. - YADAV, Madhav P. - MENDICHI, Raniero - HICKS, Kevin B. Fractionation of sugar beet pulp by introducing ion-exchange groups. Gary D. Strahan, Madhav P. Yadav, Raniero Mendichi, Kevin B. Hicks. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol.78, s.806-812. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2009.06.022>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2009-2010. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2015, vol. 34, no. 3, pp. 268-422., Registrované v: WOS
2. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS
3. [1.1] KHAN, Ruhul A. - SALEM, Hayder J. - KOREHEI, Reza - MARTINEZ, D. Mark - OLSON, James A. APPLICATION OF FRACTIONATED BLEACHED PULP FIBRES ON SODIUM ALGinate FILMS. In *CANADIAN JOURNAL OF CHEMICAL ENGINEERING*. ISSN 0008-4034, 2017, vol. 95, no. 1, pp. 33-38., Registrované v: WOS
4. [1.1] PENG, Xiao-Yan - MU, Tai-Hua - ZHANG, Miao - SUN, Hong-Nan - CHEN, Jing-Wang - YU, Ming. Optimisation of production yield by ultrasound-/microwave-assisted acid method and functional property of pectin from sugar beet pulp. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2015, vol. 50, no. 3, pp. 758-765., Registrované v: WOS
5. [1.1] SONG, Jianxin - BI, Jinfeng - CHEN, Qinqin - WU, Xinye - LYU, Ying - MENG, Xianjun. Assessment of sugar content, fatty acids, free amino acids, and volatile profiles in jujube fruits at different ripening stages. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 270, no., pp. 344-352., Registrované v: WOS

6. [1.2] CAO, Feng - LIU, Xuan - BI, Jin Feng - WU, Xin Ye - ZHANG, Biao - LIU, Jia Ning. Difference analysis of pectin content and structure from various apple cultivars. In *Scientia Agricultura Sinica*. ISSN 05781752, 2019-01-01, 52, 13, pp. 2328-2340., Registrované v: SCOPUS
7. [1.2] XIAO, Min - YI, Jian Yong - BI, Jin Feng - LV, Jian - ZHOU, Lin Yan - ZHOU, Mo. Influence of Different Dehydration Processes on the Texture and Pectin Characteristics of Apple Chips. In *Modern Food Science and Technology*. ISSN 16739078, 2017-07-20, 33, 7, pp., Registrované v: SCOPUS

ADCA1248 ŠIMKOVIC, Ivan. Free radicals in wood chemistry. In *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics.*, 1986, vol. C26, p. 67-80. Dostupné na: <https://doi.org/10.1080/07366578608081969>
Ohlasy:

1. [1.1] YANG, Xianpeng - KU, Ting-Hsuan - BISWAS, Subir K. - YANO, Hiroyuki - ABE, Kentaro. UV grafting: surface modification of cellulose nanofibers without the use of organic solvents. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2019, vol. 21, no. 17, pp. 4619-4624., Registrované v: WOS

ADCA1249 ŠIMKOVIC, Ivan - YADAV, Madhav P. - ZALIBERA, Michal - HICKS, Kevin B. Chemical modification of corn fiber with ion-exchanging groups. Michal Zalibera, Kevin B. Hicks. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol.76, s.250-254. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.10.017>

Ohlasy:

1. [1.1] BRAZ, Luis - GRENHA, Ana - CORVO, Marta C. - LOURENCO, Joao Paulo - FERREIRA, Domingos - SARMENTO, Bruno - ROSA DA COSTA, Ana M. Synthesis and characterization of Locust Bean Gum derivatives and their application in the production of nanoparticles. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 974-985., Registrované v: WOS
2. [1.1] DIONISIO, M. - BRAZ, L. - CORVO, M. - LOURENCO, J. P. - GRENHA, A. - ROSA DA COSTA, A. M. Charged pullulan derivatives for the development of nanocarriers by polyelectrolyte complexation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 129-138., Registrované v: WOS
3. [1.1] KONG, Fangong - PARHIALA, Kristy - WANG, Shoujuan - FATEHI, Pedram. Preparation of cationic softwood kraft lignin and its application in dye removal. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2015, vol. 67, no., pp. 335-345., Registrované v: WOS

ADCA1250 ŠIMKOVIC, Ivan - MLYNÁR, Juraj - ALFOLDI, Juraj. Modification of corn cob meal with quaternary ammonium groups. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*. - Oxford : Elsevier, 1992, vol. 17, p. 285-288. ISSN 0144-8617.

Ohlasy:

1. [1.1] TYAGI, Rakhi - SHARMA, Pradeep - NAUTIYAL, Raman - LAKHERA, Ajeet K. - KUMAR, Vineet. Synthesis of quaternised guar gum using Taguchi L-(16) orthogonal array. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 237, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116136>., Registrované v: WOS
2. [1.1] ZENG, Yining - YARBROUGH, John M. - MITTAL, Ashutosh - TUCKER, Melvin P. - VINZANT, Todd B. - DECKER, Stephen R. - HIMMEL, Michael E. In situ label-free imaging of hemicellulose in plant cell walls using stimulated Raman scattering microscopy. In *Biotechnology for Biofuels*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS

ADCA1251 ŠIMKOVIC, Ivan - MENDRICHI, R. - UHLÍŘIKOVÁ, Iveta.
Modification of polygalacturonic acid hydroxyls with trimethylammonium-and/or sulfonate-2-hydroxypropyl group. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 74, p. 611-616. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617.
Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.04.024>

Ohlasy:

1. [1.1] CIZOVA, Alzbeta - NESCAKOVA, Zuzana - MALOVIKOVA, Anna - BYSTRICKY, Slavomir. Preparation and characterization of cationic and amphoteric mannans from *Candida albicans*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 149, no., pp. 1-7., Registrované v: WOS

2. [1.1] EL BARKANY, Soufian - EL IDRISI, Abderahmane - ZANNAGUI, Chahid - TABAGHT, Fatima - MAAROUFI, Abdel-Karim - ABOU-SALAMA, Mohamed - AMHAMDI, Hassan. Homogeneous Grafting of New Amido Groups onto Hydroxyethyl Cellulose Acetate Microfibrils: Solubility Study. In *MOROCCAN JOURNAL OF CHEMISTRY*. ISSN 2351-812X, 2016, vol. 4, no. 3, pp. 743-758., Registrované v: WOS

3. [1.1] GUO, Yanzhu - GAO, Weijue - KONG, Fangong - FATEHI, Pedram. One-pot preparation of zwitterion-type lignin polymers. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 140, no., pp. 429-440., Registrované v: WOS

4. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS

5. [1.1] VALARIKOVA, Jana - CIZOVA, Alzbeta - RACKOVA, Lucia - BYSTRICKY, Slavomir. Anti-staphylococcal activity of quaternized mannan from the yeast *Candida albicans*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116288>., Registrované v: WOS

ADCA1252 ŠIMKOVIC, Ivan - PASTÝR, J. - ANTAL, Miroslav - BALOG, K. - KOŠÍK, M. - PLAČEK, J. New aspects in cationization of lignocellulose materials. IX. Flame retardancy effect of modification with nitrogen- and sulfur-containing groups. In *Journal of Applied Polymer Science*, 1987, vol. 33, p. 1057-. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1987.070340315>

Ohlasy:

1. [1.1] NIE, Kangchen - XU, Lulu - QIAN, Temeng - SHEN, Xiaoping - SUN, Qingfeng. Fabrication of a Robust and Flame-Retardant Alooh-Lignocellulose Composite with a Lotus-Leaf-Like Superhydrophobic Coating. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN

0277-3813, 2020, vol. 40, no. 1, pp. 44-57. Dostupné na:
<https://doi.org/10.1080/02773813.2019.1654517>., Registrované v: WOS

- ADCA1253 ŠIMKOVIC, Ivan - MLYNÁR, Juraj - ALFOLDI, Juraj - MICKO, M.M. New aspects in cationization of lignocellulose materials. 11. Modification of bagasse with quaternary ammonium groups. In *Holzforschung*, 1990, vol. 44, p. 113-116. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1990.44.2.113>
Ohlasy:
1. [1.1] AGUADO, Roberto - MORAL, Ana - TIJERO, Antonio. Cationic fibers from crop residues: Making waste more appealing for papermaking. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2018, vol. 174, no., pp. 1503-1512., Registrované v: WOS
 2. [1.1] JAMAL, Nahi - RADHAKRISHNAN, Asha - RAGHAVAN, Raveendran - BHASKARAN, Beena. Efficient photocatalytic degradation of organic dye from aqueous solutions over zinc oxide incorporated nanocellulose under visible light irradiation. In MAIN GROUP METAL CHEMISTRY. ISSN 0792-1241, 2020, vol. 43, no. 1, pp. 84-91. Dostupné na: <https://doi.org/10.1515/mgmc-2020-0009>., Registrované v: WOS
 3. [1.1] MORAL, Ana - AGUADO, Roberto - JARABO, Rocio - TIJERO, Antonio. Cationized fibers from pine kraft pulp: advantages of refining before functionalization. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 11, pp. 843-851., Registrované v: WOS
 4. [1.1] PLERMJAI, Kittiya - BOONYARATTANAKALIN, Kanokthip - MEKPRASART, Wanichaya - PAVASUPREE, Sorapong - PHOOHINKONG, Weerachon - PECHARAPA, Wisanu. Extraction and Characterization of Nanocellulose from Sugarcane Bagasse by Ball-milling-assisted Acid Hydrolysis. In INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY OF EMERGING MATERIALS 2018 (STEMA2018). ISSN 0094-243X, 2018, vol. 2010, no., pp., Registrované v: WOS

- ADCA1254 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLLARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Positively and negatively charged xylan films. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 83, p. 769-775. (2010: 3.463 - IF, Q1 - JCR, 1.370 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2010.08.047>
Ohlasy:
1. [1.1] GUADALUPE PEREZ-FLORES, Jestis - CONTRERAS-LOPEZ, Elizabeth - CASTANEDA-OVANDO, Araceli - PEREZ-MORENO, Fidel - AGUILAR-ARTEAGA, Karina - ALVAREZ-ROMERO, Giaan A. - TELLEZ-JURADO, Alejandro. Physicochemical characterization of an arabinoxylan-rich fraction from brewers' spent grain and its application as a release matrix for caffeine. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 116, no., pp. 1020-1030., Registrované v: WOS
 2. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207.,

Registrované v: WOS

3. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
4. [1.1] SILVA, Teresa Cristina Fonseca - SILVA, Deusanilde - LUCIA, Lucian A. THE MULTIFUNCTIONAL CHEMICAL TUNABILITY OF WOOD-BASED POLYMERS FOR ADVANCED BIOMATERIALS APPLICATIONS. In *GREEN BIORENEWABLE BIOCOMPOSITES: FROM KNOWLEDGE TO INDUSTRIAL APPLICATIONS*, 2015, vol., no., pp. 427-459., Registrované v: WOS
5. [1.1] VEGA, Beatriz - GRIGORAY, Olga - GUSTAFSSON, Jan - FARDIM, Pedro. Advances in Sugar-based Polymers: Xylan and its Derivatives for Surface Modification of Pulp Fibres. In *BIOMASS SUGARS FOR NON-FUEL APPLICATIONS*. ISSN 1757-7039, 2016, vol., no. 44, pp. 134-158., Registrované v: WOS
6. [1.1] VELKOVA, Nena - ZEMLJIC, Lidija Fras - SAAKE, Bodo - STRNAD, Simona. Adsorption of cationized xylans onto polyethylene terephthalate fabrics for antimicrobial medical textiles. In *TEXTILE RESEARCH JOURNAL*. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 473-486., Registrované v: WOS
7. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In *Biopackaging*, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
8. [1.2] PENG, Xinwen - DU, Fan - ZHONG, Linxin. Synthesis, characterization, and applications of hemicelluloses based eco-friendly polymer composites. In *Sustainable Polymer Composites and Nanocomposites*, 2019-01-01, pp. 1267-1322., Registrované v: SCOPUS

ADCA1255 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - ŠOLTÉS, Ladislav - MENDICHI, Raniero - COSENTINO, C. Preparation of water-soluble/insoluble derivatives of hyaluronic acid by cross-linking with epichlorohydrin in aqueous NaOH/NH₄OH solution. In *Carbohydrate Polymers*, 2000, vol. 41, p. 9-14. (1999: 0.987 - IF, Current Contents - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(99\)00061-2](https://doi.org/10.1016/S0144-8617(99)00061-2)

Ohlasy:

1. [1.1] AL-SIBANI, M. - AL HARASSI, A. - NEUBERT, R.H.H. Study of the effect of mixing approach on cross-linking efficiency of hyaluronic acid-based hydrogel cross-linked with 1,4-butanediol diglycidyl ether. In *EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 0928-0987, 2016, vol. 91, p. 131-137., Registrované v: WOS
2. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS
3. [1.1] HANKE-ROOS, M. - MESECK, G.R. - ROSENHAHN, A. Catch bond interaction allows cells to attach to strongly hydrated interfaces. In *BIOINTERPHASES*. ISSN 1934-8630, 2016, vol. 11, no. 1, art. no. 018905.,

Registrované v: WOS

4. [1.1] LINK, J.M. - SALINAS, E.Y. - HU, J.C. - ATHANASIOU, K.A. The tribology of cartilage: Mechanisms, experimental techniques, and relevance to translational tissue engineering. In CLINICAL BIOMECHANICS. ISSN 0268-0033, OCT 2020, vol. 79, SI., Registrované v: WOS
5. [1.1] PLUDA, S. - PAVAN, M. - GALESSO, D. - GUARISE, C. Hyaluronic acid auto-crosslinked polymer (ACP): Reaction monitoring, process investigation and hyaluronidase stability. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 433, p. 47-53., Registrované v: WOS
6. [1.1] SAHINER, N. - SUNER, S.S. - AYYALA, R.S. Mesoporous, degradable hyaluronic acid microparticles for sustainable drug delivery application. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2019, vol. 177, p. 284-293., Registrované v: WOS
7. [1.1] SEDLACEK, J. - HERMANNOVA, M. - SATINSKY, D. - VELEBNY, V. Current analytical methods for the characterization of N-deacetylated hyaluronan: A critical review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, DEC 1 2020, vol. 249, art. no. 116720., Registrované v: WOS
8. [1.1] SHI, S. - ZHOU, M. - LI, X. - HU, M. - LI, C. - LI, M. - SHENG, F. - LI, Z. - WU, G. - LUO, M. - CUI, H. - LI, Z. - FU, R. - XIANG, M. - XU, J. - ZHANG, Q. - LU, L. Synergistic active targeting of dually integrin $\alpha(v)\beta(3)$ /CD44-targeted nanoparticles to B16F10 tumors located at different sites of mouse bodies. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2016, vol. 235, p. 1-13., Registrované v: WOS
9. [1.1] SUNER, S.S. - ARI, B. - ONDER, F.C. - OZPOLAT, B. - AY, M. - SAHINER, N. Hyaluronic acid and hyaluronic acid: Sucrose nanogels for hydrophobic cancer drug delivery. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 126, p. 1150-1157., Registrované v: WOS
10. [1.2] SHI, S. Synergistic Active Targeting to B16F10 Tumors by $\alpha v \beta 3$ /CD44-Targeted Nanoparticles Loaded with Docetaxel. (Book Chapter). In METHODS IN PHARMACOLOGY AND TOXICOLOGY. Book series. ISSN 1557-2153, 2018, no. 9781493974436 p. 207-223., Registrované v: SCOPUS
11. [1.2] VILDANOVA, R.R. - SIGAEVA, N.N. - KUKOVINETS, O.S. - VOLODINA, V.P. - SPIRIKHIN, L.V. - ZAIDULLIN, I.S. - KOLESOV, S.V. Modification of chitosan and hyaluronic acid to obtain sustainable hydrogels. (Book Chapter). In PHYSICAL CHEMISTRY FOR THE CHEMICAL AND BIOCHEMICAL SCIENCES. Apple Academic Press, 2016, p. 13-30. ISBN 978-177188289-7;978-177188149-4, Registrované v: SCOPUS

ADCA1256 ŠIMKOVIC, Ivan - LASZLO, J.A. - THOMPSON, A.R. Preparation of weakly basic ion exchanger by crosslinking starch with epichlorohydrin in the presence of NH₄OH. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1996, vol. 30, p. 25-30. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(96\)00060-4](https://doi.org/10.1016/S0144-8617(96)00060-4)

Ohlasy:

1. [1.1] EUNICE, Sugirtharaj Luna - MEENARATHI, Balakrishnan - PALANIKUMAR, Shanmugavel - ANBARASAN, Ramasamy. Synthesis and characterization of magnetic and fluorescent styrene co-polymer nanofiber. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol.

132, no. 46, pp., Registrované v: WOS

2. [1.1] GAO, Xiangpeng - GUO, Cheng - HAO, Junjie - ZHAO, Zhuo - LONG, Hongming - LI, Mingyang. Adsorption of heavy metal ions by sodium alginate based adsorbent-a review and new perspectives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 4423-4434. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.09.046>., Registrované v: WOS

3. [1.1] GUO, Lei - JIN, Kaijin - CAO, Yuanchao - LI, Guiying - LIU, Junshen. Crosslinked amino starch prepared via a dry process and its decoloration performance of Congo Red. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2019, vol. 159, no., pp. 193-199., Registrované v: WOS

4. [1.1] KEMIN, Lionel Victor - CHIN, Suk-Fun. Amino-starch Nanoparticles as Controlled Release Nanocarriers for Curcumin. In JOURNAL OF PHYSICAL SCIENCE. ISSN 1675-3402, 2020, vol. 31, no. 2, pp. 1-14.

Dostupné na: <https://doi.org/10.21315/jps2020.31.2.1>., Registrované v: WOS

5. [1.1] KHAN, Muhammad Imran - AKHTAR, Shahbaz - ZAFAR, Shagufta - SHAHEEN, Aqeela - KHAN, Muhammad Ali - LUQUE, Rafael - REHMAN, Aziz Ur. Removal of Congo Red from Aqueous Solution by Anion Exchange Membrane (EBTAC): Adsorption Kinetics and Thermodynamics. In MATERIALS, 2015, vol. 8, no. 7, pp. 4147-4161., Registrované v: WOS

6. [1.1] MEENARATHI, B. - JEYASELVI, J. - SOWMIYA, S. - TUNG, Kuo-Lun - ANBARASAN, R. Synthesis, characterization and drug release activity of poly(epichlorohydrin-g-furosemide) system. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 2987-2996., Registrované v: WOS

7. [1.1] PARHI, Rabinarayan. Nanocomposite for transdermal drug delivery. In APPLICATIONS OF NANOCOMPOSITE MATERIALS IN DRUG DELIVERY. ISSN 2049-9485, 2018, vol., no., pp. 353-389., Registrované v: WOS

8. [1.1] RAEISI, Ahmad - SHABANIAN, Meisam - FAGHIHI, Khalil. Preparation of beta-cyclodextrin-ester network and new organo-modified LDH as dual additives of PVA: Thermal, dynamic-mechanical and migration study. In PROGRESS IN ORGANIC COATINGS. ISSN 0300-9440, 2017, vol. 111, no., pp. 402-415., Registrované v: WOS

9. [1.1] SAHA, Nayan Ranjan - SARKAR, Gunjan - ROY, Indranil - RANA, Dipak - BHATTACHARYYA, Amartya - ADHIKARI, Arpita - MUKHOPADHYAY, Asis - CHATTOPADHYAY, Dipankar. Studies on methylcellulose/pectin/montmorillonite nanocomposite films and their application possibilities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 136, no., pp. 1218-1227., Registrované v: WOS

10. [1.1] SAHA, Nayan Ranjan - ROY, Indranil - SARKAR, Gunjan - BHATTACHARYYA, Amartya - DAS, Rituparna - RANA, Dipak - BANERJEE, Rajdeb - PAUL, Amal Kanti - MISHRA, Roshnara - CHATTOPADHYAY, Dipankar. Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/aryl ammonium cation modified clay. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 187, no., pp. 8-18., Registrované v: WOS

11. [1.1] SIMANAVICIUTE, Deimante - LIUDVINAVICIUTE, Dovile - KLIMAVICIUTE, Rima - RUTKAITE, Ramune. Cross-linked cationic starch derivatives for immobilization of chlorogenic acid. In EUROPEAN POLYMER

JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 833-842., Registrované v: WOS

12. [1.1] SIMANAVICIUTE, Deimante - KLIMAVICIUTE, Rima - RUTKAITE, Ramune. Equilibrium adsorption of caffeic, chlorogenic and rosmarinic acids on cationic cross-linked starch with quaternary ammonium groups. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 788-795., Registrované v: WOS

ADCA1257 ŠIMKOVIC, Ivan - LASZLO, J.A. Preparation of ion exchangers from bagasse by crosslinking with epichlorohydrin-imidazole. In *Journal of Applied Polymer Science*, 1997, vol. 64, p. 2561-2566. (1996: 0.934 - IF, Current Contents - CCC). (1997 - Current Contents). ISSN 0021-8995.

Ohlasy:

1. [1.1] ALI, Ahmed Hassoon. Treatment of wastewater contaminated with dyes using modified low-cost adsorbents. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2019, vol. 140, no., pp. 326-336., Registrované v: WOS

2. [1.1] EUNICE, Sugirtharaj Luna - MEENARATHI, Balakrishnan - PALANIKUMAR, Shanmugavel - ANBARASAN, Ramasamy. Synthesis and characterization of magnetic and fluorescent styrene co-polymer nanofiber. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 46, pp., Registrované v: WOS

3. [1.1] GOTO, Tatsuru - DOLPHEN, Rujira - AMANO, Yoshimasa - THIRAVETYAN, Paitip - MACHIDA, Motoi. Efficient nitrate removal by Ca-treated activated carbon derived from agricultural residues. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2017, vol. 59, no., pp. 287-294., Registrované v: WOS

4. [1.1] KARACHALIOS, Antonis - WAZNE, Mahmoud. Phosphate removal from water by modified pine bark using ionic liquid analog. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2015, vol. 54, no. 7, pp. 1881-1892., Registrované v: WOS

5. [1.1] OLASEHINDE, Emmanuel F. - ADEGUNLOYE, Ajibola V. - ADEBAYO, Matthew A. - OSHODI, Aladesanmi A. Sequestration of Aqueous Lead(II) Using Modified and Unmodified Red Onion Skin. In ANALYTICAL LETTERS. ISSN 0003-2719, 2018, vol. 51, no. 17, pp. 2708-2730., Registrované v: WOS

ADCA1258 ŠIMKOVIC, Ivan - ŠURINA, I. - VRIČAN, M. Primary reaction of sucrose thermal degradation. In *Journal of Analytical and Applied Pyrolysis*, 2003, vol. 70, p. 493-504. ISSN 0165-2370. Dostupné na: [https://doi.org/10.1016/S0165-2370\(03\)00007-X](https://doi.org/10.1016/S0165-2370(03)00007-X)

Ohlasy:

1. [1.1] DUCAT, Giseli - FELSNER, Maria L. - DA COSTA NETO, Pedro R. - QUINAIA, Sueli P. Development and in house validation of a new thermogravimetric method for water content analysis in soft brown sugar. In FOOD CHEMISTRY. ISSN 0308-8146, 2015, vol. 177, no., pp. 158-164., Registrované v: WOS

2. [1.1] HOU, Feina - MU, Taihua - MA, Mengmei - BLECKER, Christophe. Sensory evaluation of roasted sweet potatoes influenced by different

- cultivars: A correlation study with respect to sugars, amino acids, volatile compounds, and colors. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfpp.14646>., Registrované v: WOS
3. [1.1] CHKHARTISHVILI, L. - MIKELADZE, A. - CHEDIA, R. - TSAGAREISHVILI, O. - BARBAKADZE, N. - SARAJISHVILI, K. - DARCHIASHVILI, M. - UGREKHELIDZE, V - KORKIA, T. Synthesizing fine-grained powders of complex compositions B4C-TiB2-WC-Co. In *SOLID STATE SCIENCES*. ISSN 1293-2558, 2020, vol. 108, no., pp. Dostupné na: <https://doi.org/10.1016/j.solidstatesciences.2020.106439>., Registrované v: WOS
4. [1.1] LI, Ye - LIANG, Jun - SHEN, Yu - KUANG, Hai-Xue - XIA, Yong-Gang. A new application of acetylation for analysis of acidic heteropolysaccharides by liquid chromatography-electrospray mass spectrometry. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 245, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116439>., Registrované v: WOS
5. [1.1] LU, Yingshuang - THOMAS, Leonard C. - JERRELL, John P. - CADWALLADER, Keith R. - SCHMIDT, Shelly J. Investigating the thermal decomposition differences between beet and cane sucrose sources. In *JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION*. ISSN 2193-4126, 2017, vol. 11, no. 4, pp. 1640-1653., Registrované v: WOS
6. [1.1] MATOS, Juan - MIRALLES-CUEVAS, Sara - RUIZ-DELGADO, Ana - OLLER, Isabel - MALATO, Sixto. Development of TiO₂-C photocatalysts for solar treatment of polluted water. In *CARBON*. ISSN 0008-6223, 2017, vol. 122, no., pp. 361-373., Registrované v: WOS
7. [1.1] MATOS, Juan - MIRANDA, Cristian - POON, Po S. - MANSILLA, Hector D. Nanostructured hybrid TiO₂-C for the photocatalytic conversion of phenol. In *SOLAR ENERGY*. ISSN 0038-092X, 2016, vol. 134, no., pp. 64-71., Registrované v: WOS
8. [1.1] MORIKAWA, Hitomi - OKUDA, Keita - KUNIHIRA, Yuji - INADA, Aoi - MIYAGI, Chika - MATSUO, Yosuke - SAITO, Yoshinori - TANAKA, Takashi. Oligomerization mechanism of tea catechins during tea roasting. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 285, no., pp. 252-259., Registrované v: WOS
9. [1.1] NGUYEN, Ha T. - VAN DER FELS-KLERX, H. J. (Ine) - VAN BOEKEL, M. A. J. S. Acrylamide and 5-hydroxymethylfurfural formation during biscuit baking. Part II: Effect of the ratio of reducing sugars and asparagine. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 230, no., pp. 14-23., Registrované v: WOS
10. [1.1] NOBRE, Clarisse - DO NASCIMENTO, Ana Karoline Caitano - SILVA, Soraia Pires - COELHO, Elisabete - COIMBRA, Manuel A. - HOLANDA CAVALCANTI, Maria Taciana - TEIXEIRA, Jose Antonio - FIGUEIREDO PORTO, Ana Lucia. Process development for the production of prebiotic fructo-oligosaccharides by *penicillium citreonigrum*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2019, vol. 282, no., pp. 464-474., Registrované v: WOS
11. [1.1] ZHENG, Lina - KULKARNI, Pramod - BIRCH, M. Eileen - DEYE, Gregory - DIONYSIOU, Dionysios D. Near real-time measurement of carbonaceous aerosol using microplasma spectroscopy: Application to measurement of carbon nanomaterials. In *AEROSOL SCIENCE AND*

TECHNOLOGY. ISSN 0278-6826, 2016, vol. 50, no. 11, pp. 1155-1166.,
Registrované v: WOS

12. [1.2] LI, Ying Jie - CAI, Ren Hao - LYU, Ren Jiang - GAO, Li Di -
QIN, Shi Li. Preparation and Adsorption of Magnetic Bamboo-like Hollow
Carbon Nanofibers. In Rengong Jingti Xuebao/Journal of Synthetic Crystals.
ISSN 1000985X, 2018-08-01, 47, 8, pp., Registrované v: SCOPUS

13. [1.2] YUANITA, L. - WIKANDARI, P. R. - ISNAWATI -
SABTIAWAN, W. B. The effect of storage and boiling time of yacon tubers to
SCFA and lactic acid concentrations by bifidobacteriumlongum reuter ATCC
15707 and lactobacillus acidophilus IFO 13951. In Rasayan Journal of
Chemistry. ISSN 09741496, 2018-10-01, 11, 4, pp. 1635-1642., Registrované v:
SCOPUS

ADCA1259 ŠIMKOVIC, Ivan - FRANCIS, B. A. - REEVES, J.B. Pyrolysis-gas
chromatography mass spectrometry analysis of starch-based ion-exchangers. In
Journal of Analytical and Applied Pyrolysis, 1997, vol. 43, p. 145-155. Dostupné na:
[https://doi.org/10.1016/S0165-2370\(97\)00063-6](https://doi.org/10.1016/S0165-2370(97)00063-6)

Ohlasy:

1. [1.1] KUCBEL, Marek - RACLAYSKA, Helena - RUZICKOVA,
Jana - SVEDOVA, Barbora - SASSMANOVA, Veronika - DROZDOVA,
Jarmila - RACLAYSKY, Konstantin - JUCHELKOVA, Dagmar. Properties of
composts from household food waste produced in automatic composters. In
JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2019,
vol. 236, no., pp. 657-666., Registrované v: WOS

2. [1.1] WORZAKOWSKA, Marta - TORRES-GARCIA, E. -
GROCHOWICZ, Marta. Degradation kinetics of starch-g-poly(phenyl
methacrylate) copolymers. In THERMOCHIMICA ACTA. ISSN 0040-6031,
2015, vol. 619, no., pp. 8-15., Registrované v: WOS

3. [1.1] WORZAKOWSKA, Marta - TORRES-GARCIA, Enelio. The
effect of the grafting percentage of starch-g-poly(phenyl acrylate) copolymers on
their pyrolysis and kinetics studied by the TG/DSC/FTIR/QMS-coupled method.
In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017,
vol. 139, no., pp. 67-75., Registrované v: WOS

4. [1.1] WORZAKOWSKA, Marta. Starch-g-poly(benzyl methacrylate)
copolymers Characterization and thermal properties. In JOURNAL OF
THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2016, vol.
124, no. 3, pp. 1309-1318., Registrované v: WOS

ADCA1260 ŠIMKOVIC, Ivan - TRACZ, Adam - KELNAR, Ivan -
UHLIARIKOVÁ, Iveta - MENDICHI, Raniero. Quaternized and sulfated xylan
derivative films. In *Carbohydrate Polymers*, 2014, vol. 99, p. 356-364. (2013: 3.916
- IF, Q1 - JCR, 1.346 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current
Contents). ISSN 0144-8617. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2013.08.075>

Ohlasy:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA,
Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA
MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development
of xylan and xylan/gelatin biofilms for production of biodegradable packages. In
POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2017, vol. 27, no.,

pp. 35-41., Registrované v: WOS

2. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS

3. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS

4. [1.1] MIKKONEN, Kirsi S. - LAINE, Christiane - KONTRO, Inkeri - TALJA, Riku A. - SERIMAA, Ritva - TENKANEN, Maija. Combination of internal and external plasticization of hydroxypropylated birch xylan tailors the properties of sustainable barrier films. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2015, vol. 66, no., pp. 307-318., Registrované v: WOS

5. [1.1] REN, Junli - WANG, Shuaiyang - GAO, Cundian - CHEN, Xiaofeng - LI, Weiying - PENG, Feng. TiO₂-containing PVA/xylan composite films with enhanced mechanical properties, high hydrophobicity and UV shielding performance. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 593-602., Registrované v: WOS

6. [1.1] SCHNELL, Carla N. - GALVAN, Maria V. - PERESIN, Maria S. - INALBON, Maria C. - VARTIAINEN, Jari - ZANUTTINI, Miguel A. - MOCCHIUTTI, Paulina. Films from xylan/chitosan complexes: preparation and characterization. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 10, pp. 4393-4403., Registrované v: WOS

7. [1.1] SUNDBERG, Johan - TORIZ, Guillermo - GATENHOLM, Paul. Effect of xylan content on mechanical properties in regenerated cellulose/xylan blend films from ionic liquid. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 3, pp. 1943-1953., Registrované v: WOS

8. [1.1] WU, Guan-ya - LI, He-ping - YANG, Xu - SUN, Yan - ZOU, Ying-dong. Synthesis and Characterization of Sulfonic Groups Bagasse Xylan Salicylate. In 2016 INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND ENGINEERING (ESE 2016), 2016, vol., no., pp. 382-385., Registrované v: WOS

9. [1.1] ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS

10. [1.2] ALI, Akbar - AHMED, Shakeel. Natural polymers: An overview. In Natural Polymers: Derivatives, Blends and Composites, Volume I, 2016-01-01, pp. 1-22., Registrované v: SCOPUS

11. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS

12. [1.2] IBRAHIM, Saber - SULTAN, Maha - ADEEB, Zenat. Water soluble cationic xylan-alginate polymer as packaging retardant-release peptide drug delivery. In International Journal of PharmTech Research. ISSN 09744304, 2016-01-01, 9, 5, pp. 119-128., Registrované v: SCOPUS

ŠIMKOVIC, Ivan. TG/DTG/DTA evaluation of flame retarded cotton fabrics and comparison to cone calorimeter data. In *Carbohydrate Polymers*, 2012, vol. 90, p. 976-981. (2011: 3.628 - IF, Q1 - JCR, 1.291 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.06.030>

Ohlasy:

1. [1.1] ATAKAN, Raziye - OZCAN, Gulay. A Comparative Thermal Analysis of Fire-off Treated Cotton, PET and Co/PET Fabrics. In *TEKSTIL VE KONFEKSIYON*. ISSN 1300-3356, 2019, vol. 29, no. 4, pp. 311-316., Registrované v: WOS
2. [1.1] BAKIRTZIS, D. S. - TSAPARA, V. C. - KOLOVOS, K. G. - LIODAKIS, S. E. Assessment of the impact of fire retardants on the combustion of natural polymers employing DTG and LOI. In *FIRE AND MATERIALS*. ISSN 0308-0501, 2015, vol. 39, no. 2, pp. 109-118., Registrované v: WOS
3. [1.1] FAHEEM, Sajid - BAHETI, Vijay - NAHID, Nazia - TUNAK, Maros - WIENER, Jakub - MILITKY, Jiri. Flame Retardancy, Physiological Comfort and Durability of Casein Treated Cotton Fabrics. In *FIBERS AND POLYMERS*. ISSN 1229-9197, 2019, vol. 20, no. 5, pp. 1011-1020., Registrované v: WOS
4. [1.1] FAHEEM, Sajid - BAHETI, Vijay - TUNAK, Maros - WIENER, Jakub - MILITKY, Jiri. Flame resistance behavior of cotton fabrics coated with bilayer assemblies of ammonium polyphosphate and casein. In *CELLULOSE*. ISSN 0969-0239, 2019, vol. 26, no. 5, pp. 3557-3574., Registrované v: WOS
5. [1.1] FAHEEM, Sajid - BAHETI, Vijay - TUNAK, Maros - WIENER, Jakub - MILITKY, Jiri. Comparative performance of flame retardancy, physiological comfort, and durability of cotton textiles treated with alkaline and acidic casein suspension. In *JOURNAL OF INDUSTRIAL TEXTILES*. ISSN 1528-0837, 2019, vol. 48, no. 6, pp. 969-991., Registrované v: WOS
6. [1.1] FLACH, Michel Vinicius - SEIBT, Ellen - SCHNEIDER, Eduardo Luis - DE LIMA, Viviane - SOLDI, Valdir - ROBINSON, Luiz Carlos - BIANCHIN, Liane - JAHNO, Vanusca Dalosto. Recycling Footwear Industry Waste and Evaluation the Deterioration in Soil. In *REVISTA VIRTUAL DE QUIMICA*. ISSN 1984-6835, 2017, vol. 9, no. 6, pp. 2178-2192., Registrované v: WOS
7. [1.1] CHEN, Xilei - MA, Cuiyong - JIAO, Chuanmei. Synergistic effects between iron-graphene and ammonium polyphosphate in flame-retardant thermoplastic polyurethane. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2016, vol. 126, no. 2, pp. 633-642., Registrované v: WOS
8. [1.1] JIANG, Jinxue - LI, Jianzhang - GAO, Qiang. Effect of flame retardant treatment on dimensional stability and thermal degradation of wood. In *CONSTRUCTION AND BUILDING MATERIALS*. ISSN 0950-0618, 2015, vol. 75, no., pp. 74-81., Registrované v: WOS
9. [1.1] LIU, Li - ZHAO, Xiaolong - MA, Cuiyong - CHEN, Xilei - LI, Shaoxiang - JIAO, Chuanmei. Smoke suppression properties of carbon black on flame retardant thermoplastic polyurethane based on ammonium polyphosphate. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, 2016, vol. 126, no. 3, pp. 1821-1830., Registrované v: WOS

10. [1.1] TANG, Hao - ZHOU, Hong. A novel nitrogen, phosphorus, and boron ionic pair compound toward fire safety and mechanical enhancement effect for epoxy resin. In POLYMERS FOR ADVANCED TECHNOLOGIES. ISSN 1042-7147, 2020, vol. 31, no. 4, pp. 885-897. Dostupné na: <https://doi.org/10.1002/pat.4823>., Registrované v: WOS
11. [1.1] WAN, Caiyan - ZHANG, Guangxian - ZHANG, Fengxiu. A novel guanidine ammonium phosphate for preparation of a reactive durable flame retardant for cotton fabric. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3469-3483. Dostupné na: <https://doi.org/10.1007/s10570-020-03003-1>., Registrované v: WOS

ADCA1262 ŠIMKOVIC, Ivan - DLAPA, P. - DOERR, S.H. - MATAIX-SOLERA, J. - SASINKOVÁ, Vlasta. Thermal destruction of soil water repellency and associated changes to soil organic matters as observed by FTIR spectroscopy. In CATENA, 2008, vol.74, p. 205-211. (2007: 1.346 - IF, Q2 - JCR, 0.897 - SJR, Q1 - SJR). ISSN 0341-8162. Dostupné na: <https://doi.org/10.1016/j.catena.2008.03.003>

Ohlasy:

1. [1.1] ADELOPO, Abdulganiyu O. - HARIS, Parvez I. - ALO, Babajide - HUDDERSMAN, Katherine - JENKINS, Richard O. Comparative Characterisation of Closed and Active Landfill Composites Using EDX, FTIR and Proximate Techniques. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 4, pp. 1313-1323., Registrované v: WOS
2. [1.1] AZNAR, Javier M. - GONZALEZ-PEREZ, Jose A. - BADIA, David - MARTI, Clara. AT WHAT DEPTH ARE THE PROPERTIES OF A GYPSEOUS FOREST TOPSOIL AFFECTED BY BURNING? In LAND DEGRADATION & DEVELOPMENT. ISSN 1085-3278, 2016, vol. 27, no. 5, pp. 1344-1353., Registrované v: WOS
3. [1.1] COMINO, Francisco - ARANDA, Victor - DOMINGUEZ-VIDAL, Ana - AYORA-CANADA, Maria Jose. Thermal destruction of organic waste hydrophobicity for agricultural soils application. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2017, vol. 202, no., pp. 94-105., Registrované v: WOS
4. [1.1] COMINO, Francisco - ARANDA, Victor - DOMINGUEZ-VIDAL, Ana - AYORA-CANADA MARIA, Jose. Improvement of quality and agronomic properties of raw organic amendment mixtures by thermal treatment. In JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT. ISSN 1438-4957, 2020, vol. 22, no. 1, pp. 159-166. Dostupné na: <https://doi.org/10.1007/s10163-019-00923-4>., Registrované v: WOS
5. [1.1] DEVELIOGLU, Inci - PULAT, Hasan Firat. Compressibility behaviour of natural and stabilized dredged soils in different organic matter contents. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, 2019, vol. 228, no., pp., Registrované v: WOS
6. [1.1] DEVELIOGLU, Inci - PULAT, Hasan Firat. Improvement of shear strength characteristics of Izmir Bay's dredged soil. In ARABIAN JOURNAL OF GEOSCIENCES. ISSN 1866-7511, 2019, vol. 12, no. 20, pp., Registrované v: WOS
7. [1.1] DONG, Xinliang - GUAN, Tianyu - LI, Guitong - LIN, Qimei - ZHAO, Xiaorong. Long-term effects of biochar amount on the content and composition of organic matter in soil aggregates under field conditions. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, 2016, vol. 16, no.

- 5, pp. 1481-1497., Registrované v: WOS
8. [1.1] DONG, Xinliang - LI, Guitong - LIN, Qimei - ZHAO, Xiaorong. Quantity and quality changes of biochar aged for 5 years in soil under field conditions. In CATENA. ISSN 0341-8162, 2017, vol. 159, no., pp. 136-143., Registrované v: WOS
9. [1.1] EL FELS, Loubna - ZAMAMA, Mohamed - AGUELMOUS, Anas - EL HAYANY, Bouchra - EL MEZOUARI EL GLAOUI, Ghizlen - BENKSIM, Abdelhafid - RAHHOU, Ilyesse - MOUNIR, Abdelfetah - KHAJMI, Hassan - RIHANI, Mohammed - HAFIDI, Mohamed. Assessment of organo-mineral fraction during co-composting of sewage sludge-lignocellulosic waste by XRD and FTIR analysis. In MOROCCAN JOURNAL OF CHEMISTRY. ISSN 2351-812X, 2017, vol. 5, no. 4, pp. 730-739., Registrované v: WOS
10. [1.1] CHEN, Jingjing - MCGUIRE, Kevin J. - STEWART, Ryan D. Effect of soil water-repellent layer depth on post-wildfire hydrological processes. In HYDROLOGICAL PROCESSES. ISSN 0885-6087, 2020, vol. 34, no. 2, pp. 270-283. Dostupné na: <https://doi.org/10.1002/hyp.13583>., Registrované v: WOS
11. [1.1] CHEN, Jingjing - PANGLE, Luke A. - GANNON, John P. - STEWART, Ryan D. Soil water repellency after wildfires in the Blue Ridge Mountains, United States. In INTERNATIONAL JOURNAL OF WILDLAND FIRE. ISSN 1049-8001, 2020, vol. 29, no. 11, pp. 1009-1020. Dostupné na: <https://doi.org/10.1071/WF20055>., Registrované v: WOS
12. [1.1] CHEN, Jingjing - SHANG, Chao - EICK, Matthew J. - STEWART, Ryan D. Water Repellency Decreases Vapor Sorption of Clay Minerals. In WATER RESOURCES RESEARCH. ISSN 0043-1397, 2018, vol. 54, no. 9, pp. 6114-6125., Registrované v: WOS
13. [1.1] CHEN, Xi - JIN, Mengcan - ZHANG, Yajie - HU, Jingwei - GAO, Hongjian - CHU, Wenying - MAO, Jingdong - THOMPSON, Michael L. Nitrogen Application Increases Abundance of Recalcitrant Compounds of Soil Organic Matter: A 6-Year Case Study. In SOIL SCIENCE. ISSN 0038-075X, 2018, vol. 183, no. 5, pp. 169-178., Registrované v: WOS
14. [1.1] CHEN, Xi - MAO, Alice - ZHANG, Yajie - ZHANG, Ligan - CHANG, Jiang - GAO, Hongjian - THOMPSON, Michael L. Carbon and nitrogen forms in soil organic matter influenced by incorporated wheat and corn residues. In SOIL SCIENCE AND PLANT NUTRITION. ISSN 0038-0768, 2017, vol. 63, no. 4, pp. 377-387., Registrované v: WOS
15. [1.1] CHEN, Xi - XU, Yujun - GAO, Hong-jian - MAO, Jingdong - CHU, Wenying - THOMPSON, Michael L. Biochemical stabilization of soil organic matter in straw-amended, anaerobic and aerobic soils. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 625, no., pp. 1065-1073., Registrované v: WOS
16. [1.1] CHUA, Lynn - HEAD, Kerry - THOMAS, Paul - STUART, Barbara. FTIR and Raman microscopy of organic binders and extraneous organic materials on painted ceremonial objects from the Highlands of Papua New Guinea. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2017, vol. 134, no., pp. 246-256., Registrované v: WOS
17. [1.1] KANIA, M. - GAUTIER, M. - NI, Z. - BONJOUR, E. - GUEGAN, R. - MICHEL, P. - JAME, P. - LIU, J. - GOURDON, R. Analytical indicators to characterize Particulate Organic Matter (POM) and its evolution in French Vertical Flow Constructed Wetlands (VFCWs). In SCIENCE OF THE

TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 622, no., pp. 801-813., Registrované v: WOS

18. [1.1] KECK, Hannes - FELDE, Vincent John Martin Noah Linus - DRAHORAD, Sylvie Laureen - FELIX-HENNINGSSEN, Peter. Biological soil crusts cause subcritical water repellency in a sand dune ecosystem located along a rainfall gradient in the NW Negev desert, Israel. In JOURNAL OF HYDROLOGY AND HYDROMECHANICS. ISSN 0042-790X, 2016, vol. 64, no. 2, pp. 133-140., Registrované v: WOS

19. [1.1] LIU, Junguang - LIU, Lingling - SHU, Yuehong - JIANG, Shaojun - HUANG, Renlong - JIA, Zhenzhen - WEI, Dongyang. Effect of ageing process on bisphenol A sorption and retention in agricultural soils amended with biochar. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 14, pp. 17401-17411. Dostupné na: <https://doi.org/10.1007/s11356-020-08330-1>., Registrované v: WOS

20. [1.1] LIU, Qiyuan - CHEN, Binghui - HADERLEIN, Stefan - GOPALAKRISHNAN, Gnanachandrasamy - ZHOU, Yongzhang. Characteristics and environmental response of secondary minerals in AMD from Dabaoshan Mine, South China. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2018, vol. 155, no., pp. 50-58., Registrované v: WOS

21. [1.1] LOURENCO, S. D. N. - SAULICK, Y. - ZHENG, S. - KANG, H. - LIU, D. - LIN, H. - YAO, T. Soil wettability in ground engineering: fundamentals, methods, and applications. In ACTA GEOTECHNICA. ISSN 1861-1125, 2018, vol. 13, no. 1, pp. 1-14., Registrované v: WOS

22. [1.1] MARGENOT, Andrew J. - CALDERON, Francisco J. - PARIKH, Sanjai J. Limitations and Potential of Spectral Subtractions in Fourier-Transform Infrared Spectroscopy of Soil Samples. In SOIL SCIENCE SOCIETY OF AMERICA JOURNAL. ISSN 0361-5995, 2016, vol. 80, no. 1, pp. 10-26., Registrované v: WOS

23. [1.1] MILLER, J. J. - OWEN, M. L. - ELLERT, B. H. - YANG, X. M. - DRURY, C. F. - CHANASYK, D. S. Influence of crop residues and nitrogen fertilizer on soil water repellency and soil hydrophobicity under long-term no-till. In CANADIAN JOURNAL OF SOIL SCIENCE. ISSN 0008-4271, 2019, vol. 99, no. 3, pp. 334-344., Registrované v: WOS

24. [1.1] NASONOVA, Alla - LEVY, Guy J. - BORISOVER, Mikhail. Bulk and water-extractable organic matter from compost: evaluation of the selective dissolution in water using infrared absorbance ratios. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 34, pp. 42644-42655. Dostupné na: <https://doi.org/10.1007/s11356-020-10153-z>., Registrované v: WOS

25. [1.1] PARADA, J. - RUBILAR, O. - DIEZ, M. C. - CEA, M. - SANT'ANA DA SILVA, A. - RODRIGUEZ-RODRIGUEZ, C. E. - TORTELLA, G. R. Combined pollution of copper nanoparticles and atrazine in soil: Effects on dissipation of the pesticide and on microbiological community profiles. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2019, vol. 361, no., pp. 228-236., Registrované v: WOS

26. [1.1] PAROLO, Maria Eugenia - SAVINI, Monica Claudia - LOEWY, Ruth Miriam. Characterization of soil organic matter by FT-IR spectroscopy and its relationship with chlorpyrifos sorption. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2017, vol. 196, no.,

pp. 316-322., Registrované v: WOS

27. [1.1] RAKHMATULINA, Ekaterina - THOMPSON, Sally. Freeze-thaw processes degrade post-fire water repellency in wet soils. In HYDROLOGICAL PROCESSES. ISSN 0885-6087, 2020, vol. 34, no. 26, pp. 5229-5241. Dostupné na: <https://doi.org/10.1002/hyp.13931>., Registrované v: WOS

28. [1.1] RIAL, Marcela - MARTINEZ CORTIZAS, Antonio - RODRIGUEZ-LADO, Luis. Mapping soil organic carbon content using spectroscopic and environmental data: A case study in acidic soils from NW Spain. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2016, vol. 539, no., pp. 26-35., Registrované v: WOS

29. [1.1] SINGH, Devendra Narain. Novel Techniques to Simulate and Monitor Contaminant-Geomaterial Interactions. In INDIAN GEOTECHNICAL JOURNAL. ISSN 0971-9555, 2019, vol. 49, no. 1, pp. 2-36., Registrované v: WOS

30. [1.1] TAN, Lianshuai - SUN, Cengceng - WANG, Ying - WANG, Tongtong - WU, Gao-Lin - HE, Honghua - ZHENG, Jiyong. Changes in biochar properties in typical loess soil under a 5-year field experiment. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, 2020, vol. 20, no. 1, pp. 340-351. Dostupné na: <https://doi.org/10.1007/s11368-019-02398-0>., Registrované v: WOS

31. [1.1] WU, Yichen - ZHANG, Nan - SLATER, Greg - WADDINGTON, James Michael - DE LANNOY, Charles-Francois. Hydrophobicity of peat soils: Characterization of organic compound changes associated with heat-induced water repellency. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 714, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.136444>., Registrované v: WOS

32. [1.1] YANG, Fei - WANG, Longmian - WANG, Guoxiang - DU, Peng - ZHANG, Yimin. Organic Matter and Nitrogen Distribution, and Functional Groups of Filter at Earthworm Packing Bed in Vermifiltration. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2015, vol. 24, no. 1, pp. 375-380., Registrované v: WOS

33. [1.1] ZHANG, Man - CHENG, Gong - FENG, Hao - SUN, Benhua - ZHAO, Ying - CHEN, Haixin - CHEN, Jing - DYCK, Miles - WANG, Xudong - ZHANG, Jianguo - ZHANG, Afeng. Effects of straw and biochar amendments on aggregate stability, soil organic carbon, and enzyme activities in the Loess Plateau, China. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 11, pp. 10108-10120., Registrované v: WOS

34. [1.1] ZHANG, Zhe - LIU, Congmin - LIU, Wei - DU, Xu - CUI, Yong - GONG, Jian - GUO, Hua - DENG, Yulin. Direct conversion of sewage sludge to electricity using polyoxometalate catalyzed flow fuel cell. In ENERGY. ISSN 0360-5442, 2017, vol. 141, no., pp. 1019-1026., Registrované v: WOS

35. [1.1] ZHENG, Tianyuan - ZHENG, Xilai - WANG, Huan - XIN, Jia - ZHANG, Bo - WALTHER, Marc. Innovative Techniques for Measuring the Oil Content of Oil-Contaminated Porous Media. In GROUND WATER MONITORING AND REMEDIATION. ISSN 1069-3629, 2019, vol. 39, no. 3, pp. 78-83., Registrované v: WOS

36. [1.1] ZORNOZA, Raul - ROSALES, R. M. - ACOSTA, Jose A. - MARIA DE LA ROSA, Jose - ARCENEGUI, Victoria - FAZ, Angel -

PEREZ-PASTOR, Alejandro. Efficient irrigation management can contribute to reduce soil CO₂ emissions in agriculture. In GEODERMA. ISSN 0016-7061, 2016, vol. 263, no., pp. 70-77., Registrované v: WOS
 37. [1.2] DEEPAYAN, Priyadarshi - KARAR, Paul Kakoli. Utilising FTIR and Gas chromatograph for optimizing lipid extraction for biodiesel production from domestic sewage sludge and food waste. In Research Journal of Chemistry and Environment. ISSN 09720626, 2017-08-01, 21, 8, pp. 26-36., Registrované v: SCOPUS

ADCA1263 ŠIMKOVIC, Ivan - HIRSCH, Ján - EBRINGEROVÁ, Anna - KONIGSTEIN, Jozef. Thermal degradation of model compounds with blocked hemiacetal group related to (4-O-methyl-D-glucurono)-D-xylan. In *Journal of Applied Polymer Science*, 1987, vol. 33, p. 1473-1477.

Ohlasy:

1. [1.1] LV, Pin - ALMEIDA, Giana - PERRE, Patrick. TGA-FTIR Analysis of Torrefaction of Lignocellulosic Components (cellulose, xylan, lignin) in Isothermal Conditions over a Wide Range of Time Durations. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 3, pp. 4239-4251., Registrované v: WOS
2. [1.1] SHEN, Dekui - JIN, Wei - HU, Jun - XIAO, Rui - LUO, Kaihong. An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2015, vol. 51, no., pp. 761-774., Registrované v: WOS
3. [1.1] SHEN, Dekui - ZHANG, Lanqing - XUE, Jiangtao - GUAN, Shipian - LIU, Qian - XIAO, Rui. Thermal degradation of xylan-based hemicellulose under oxidative atmosphere. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 127, no., pp. 363-371., Registrované v: WOS

ADCA1264 ŠIMKOVIC, Ivan - BALOG, K. - CSOMOROVÁ, Katarína.

Thermal-degradation and thermooxidation of 0-acetyl-(4-O-methyl-D-glucurono)-D-xylan and related derivatives. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1995, vol. 49, no. 6, p. 512-516. ISSN 0018-3830.

Ohlasy:

1. [1.1] SHEN, D.K. - JIN, W. - HU, J. - XIAO, R. - LUO, K.H. An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, NOV 2015, vol. 51, p. 761-774., Registrované v: WOS
2. [1.1] VANSKA, E. - VUORINEN, T. Effect of cellulase-assisted refining on the thermal degradation of bleached high-density paper. In HOLZFORSCHUNG. ISSN 0018-3830, AUG 2015, vol. 69, no. 6, SI, p. 703-712., Registrované v: WOS

ADCA1265 ŠIMKOVIC, Ivan - CSOMOROVÁ, Katarína. Thermogravimetric analysis of agricultural residues: Oxygen effect and environmental impact. In *Journal of Applied Polymer Science*, 2006, vol. 100, no. 2, p. 1318-1322. (2005: 1.072 - IF, Q2 - JCR, 0.778 - SJR, Q1 - SJR, Current Contents - CCC). (2006 -

Current Contents). ISSN 0021-8995. Dostupné na:
<https://doi.org/10.1002/app.23818>

Ohlasy:

1. [1.1] AHOU, Y.S. - CHRISTAMI, M.N.A. - AWAD, S. - PRIADI, C.R. - BABA-MOUSSA, L. - MOERSIDIK, S.S. - ANDRES, Y. Wet Oxidation Pretreatment Effect for Enhancing Bioethanol Production from Cassava Peels, Water Hyacinth, and Green Algae (Ulva). In 4TH INTERNATIONAL TROPICAL RENEWABLE ENERGY CONFERENCE (I-TREC 2019). ISSN 0094-243X, 2020, vol. 2255., Registrované v: WOS
2. [1.1] CRUZ, G. - SILVA, A.V.S. - DA SILVA, J.B.S. - CALDEIRAS, R.D. - DE SOUZA, M.E.P. Biofuels from oilseed fruits using different thermochemical processes: opportunities and challenges. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, MAY 2020, vol. 14, no. 3, p. 696-719., Registrované v: WOS
3. [1.1] ELYOUNSSI, K. - VOLLE, G. - EL HAMIDI, A. - BLIN, J. Yield and quality of charcoals from olive mill residues and its stone and pulp fractions: An enhanced comparative study. In INTERNATIONAL JOURNAL OF GREEN ENERGY. ISSN 1543-5075, 2018, vol. 15, no. 8, p. 489-495., Registrované v: WOS
4. [1.1] EL-SAYED, S.A. - ISMAIL, M.A. - MOSTAFA, M.E. Thermal decomposition and combustion characteristics of biomass materials using TG/DTG at different high heating rates and sizes in the air. In ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY. ISSN 1944-7442, JUL 2019, vol. 38, no. 4., Registrované v: WOS
5. [1.1] EL-SAYED, S.A. - MOSTAFA, M.E. Kinetic Parameters Determination of Biomass Pyrolysis Fuels Using TGA and DTA Techniques. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, JUN 2015, vol. 6, no. 3, p. 401-415., Registrované v: WOS
6. [1.1] OKOROIGWE, E. Combustion Analysis and Devolatilization kinetics of Gmelina, Mango, Neem and Tropical Almond Woods under Oxidative Condition. In INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH. ISSN 1309-0127, 2015, vol. 5, no. 4, p. 1024-1033., Registrované v: WOS
7. [1.1] SASITHORN, S. - CHALERMSINSUWAN, B. - PIUMSOMBOON, P. Artificial neural network model for the prediction of kinetic parameters of biomass pyrolysis from its constituents. In FUEL. ISSN 0016-2361, APR 1 2017, vol. 193, p. 142-158., Registrované v: WOS
8. [1.1] SIDDIQI, M.H. - LIU, X.M. - QURESHI, T. - TABISH, A.N. - NAWAZ, S. - IQBAL, T. Performance analysis of bio-fuel blends for clean energy production: Thermogravimetric analysis. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, NOV 10 2020, vol. 273., Registrované v: WOS
9. [1.1] VARMA, Anil Kumar - MONDAL, Prasenjit. Physicochemical characterization and kinetic study of pine needle for pyrolysis process. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2016, vol. 124, no. 1, pp. 487-497., Registrované v: WOS
10. [2.1] MAITLO, G. - UNAR, I.N. - SHAH, S.A.K. Thermogravimetric analysis of Pakistani biomasses using nitrogen and oxygen as a carrier gas. In CHEMICAL PAPERS. ISSN 2585-7290, MAR 2019, vol. 73, no. 3, p. 601-609., Registrované v: WOS

- ADCA1266 ŠIMKOVIC, Ivan - CSOMOROVÁ, Katarína. Thermogravimetric study of flame-retarding properties on phosphorylated beech sawdust. In *Polymer Degradation and Stability*, 2003, vol. 80, no. 3, p. 519 - 523. (2002: 0.890 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0141-3910.
Ohlasy:
1. [1.1] NISHITA, R. - KURODA, K. - OTA, S. - ENDO, T. - SUZUKI, S. - NINOMIYAC, K. - TAKAHASHI, K. Flame-retardant thermoplastics derived from plant cell wall polymers by single ionic liquid substitution. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, FEB 7 2019, vol. 43, no. 5, p. 2057-2064., Registrované v: WOS
- ADCA1267 ŠIMKOVIC, Ivan - VARHEGYI, G. - ANTAL, M. - EBRINGEROVÁ, Anna - SZEKELY, T. - SZABO, P. Thermogravimetric mass-spectrometric characterization of the thermal decomposition of (4-O-methyl-D-glucurono)-D-xylan. In *Journal of Applied Polymer Science*, 1988, vol. 36, p. 721-728. ISSN 0021-8995.
Ohlasy:
1. [1.1] SHEN, Dekui - JIN, Wei - HU, Jun - XIAO, Rui - LUO, Kaihong. An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2015, vol. 51, no., pp. 761-774., Registrované v: WOS
 2. [1.1] SHEN, Dekui - ZHANG, Lanqing - XUE, Jiangtao - GUAN, Shipian - LIU, Qian - XIAO, Rui. Thermal degradation of xylan-based hemicellulose under oxidative atmosphere. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 127, no., pp. 363-371., Registrované v: WOS
- ADCA1268 ŠIMKOVIC, Ivan - VARHEGYI, G. - ANTAL, Michael J. - EBRINGEROVÁ, Anna - SZEKELY, T. - SZABO, P. Thermogravimetric mass-spectrometric characterization of the thermal decomposition of (4-O-methyl-D-glucurono)-D-xylan. In *Journal of Applied Polymer Science*, 1988, vol. 36, p. 721-728. ISSN 0021-8995.
Ohlasy:
1. [1.1] ASMADI, Mohd - KAWAMOTO, Haruo - SAKA, Shiro. Characteristics of softwood and hardwood pyrolysis in an ampoule reactor. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, 2017, vol. 124, no., pp. 523-535., Registrované v: WOS
 2. [1.1] BRANCA, C. - DI BLASI, C. - GALGANO, A. Chemical characterization of volatile products of biomass pyrolysis under significant reaction-induced overheating. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, 2016, vol. 119, no., pp. 8-17., Registrované v: WOS
 3. [1.1] JANKOVIC, Bojan - MANIC, Nebojsa - DODEVSKI, Vladimir - POPOVIC, Jasmina - RUSMIROVIC, Jelena D. - TOSIC, Milos. Characterization analysis of Poplar fluff pyrolysis products. Multi-component kinetic study. In *FUEL*. ISSN 0016-2361, 2019, vol. 238, no., pp. 111-128., Registrované v: WOS
 4. [1.1] MATSUOKA, Seiji - KAWAMOTO, Haruo - SAKA, Shiro. Reactivity of cellulose reducing end in pyrolysis as studied by methyl

- glucoside-impregnation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 420, no., pp. 46-50., Registrované v: WOS
5. [1.1] MOTHE, Cheila G. - DE MIRANDA, Iara C. Decomposition through pyrolysis process of coconut fiber and rice husk and determination of kinetic parameters according isoconversional methods. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2018, vol. 131, no. 1, pp. 601-609., Registrované v: WOS
 6. [1.1] WANG, Jiawei - ASMADI, Mohd - KAWAMOTO, Haruo. The effect of uronic acid moieties on xylan pyrolysis. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2018, vol. 136, no., pp. 215-221., Registrované v: WOS
 7. [1.1] ZHANG, Yue - XU, Xiaoyun - CAO, Lingzhi - OK, Yong Sik - CAO, Xinde. Characterization and quantification of electron donating capacity and its structure dependence in biochar derived from three waste biomasses. In CHEMOSPHERE. ISSN 0045-6535, 2018, vol. 211, no., pp. 1073-1081., Registrované v: WOS
 8. [1.2] HUANG, Jin Bao - WU, Long Qin - TONG, Hong - LIU, Chao - HE, Chao - PAN, Gui Ying. Theoretical study on thermal degradation mechanism of hemicellulose model compound. In Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology. ISSN 02532409, 2016-08-01, 44, 8, pp. 911-920., Registrované v: SCOPUS
 9. [1.2] CHUKHAREVA, N. V. - SARTAKOV, M. P. Changes in peat composition after heat treatment. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2019-01-01, 19, 3.2, pp. 79-88., Registrované v: SCOPUS
 10. [1.2] Wang, S., & Luo, Z. (2017). In Pyrolysis of Biomass (Walter de Gruyter, pp. 1-255), Registrované v: SCOPUS
 11. [1.2] ZENG, Liang - WU, Min - WU, Guo Juan. Electron exchange capacity of rice biochar at different preparation temperatures. In Zhongguo Huanjing Kexue/China Environmental Science. ISSN 10006923, 2019-10-20, 39, 10, pp. 4329-4336., Registrované v: SCOPUS

ADCA1269 ŠIMKOVIC, Ivan - JAKAB, E. Thermogravimetry/mass spectrometry study of weakly basic starch-based ion exchanger. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2001, vol. 45, p. 53-59. (2000: 1.184 - IF, Current Contents - CCC). (2001 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00230-7](https://doi.org/10.1016/S0144-8617(00)00230-7)

Ohlasy:

1. [1.1] BRANCA, Carmen - DI BLASI, Colomba. A lumped kinetic model for banana peel combustion. In THERMOCHIMICA ACTA. ISSN 0040-6031, 2015, vol. 614, no., pp. 68-75., Registrované v: WOS
2. [1.1] COSTES, Lucie - LAOUTID, Fouad - BROHEZ, Sylvain - DUBOIS, Philippe. Bio-based flame retardants: When nature meets fire protection. In MATERIALS SCIENCE & ENGINEERING R-REPORTS. ISSN 0927-796X, 2017, vol. 117, no., pp. 1-25., Registrované v: WOS
3. [1.1] GLADYSZ-PLASKA, A. - LIPKE, A. - STERNIK, D. - TRYTEK, M. - MAJDAN, M. Spectroscopic, thermal and equilibrium characterization of U(VI) ions sorption on inulin in the presence of phosphates. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2018, vol.

1166, no., pp. 169-182., Registrované v: WOS

4. [1.1] GRABOWSKA, Beata - HODOR, Krzysztof - KACZMARSKA, Karolina - BOBROWSKI, Artur - KURLETO-KOZIOL, Zaneta - FISCHER, Carolin. Thermal analysis in foundry technology Part 2. TG-DTG-DSC, TG-MS and TG-IR study of the new class of polymer binders BioCo. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2017, vol. 130, no. 1, pp. 301-309., Registrované v: WOS

5. [1.1] HASSAN, M. M. - TUCKER, N. - LE GUEN, M. J. Thermal, mechanical and viscoelastic properties of citric acid-crosslinked starch/cellulose composite foams. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115675>., Registrované v: WOS

6. [1.1] OJOGBO, Ewomazino - BLANCHARD, Rachel - MEKONNEN, Tizazu. Hydrophobic and Melt Processable Starch-Laurate Esters: Synthesis, Structure-Property Correlations. In JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY. ISSN 0887-624X, 2018, vol. 56, no. 23, pp. 2611-2622., Registrované v: WOS

7. [1.1] SOBOLKINA, Anastasia - MECHTCHERINE, Viktor - BERGOLD, Sebastian T. - NEUBAUER, Juergen - BELLMANN, Cornelia - KHAVRUS, Vyacheslav - OSWALD, Steffen - LEONHARDT, Albrecht - RESCHETILOWSKI, Wladimir. Effect of Carbon-Based Materials on the Early Hydration of Tricalcium Silicate. In JOURNAL OF THE AMERICAN CERAMIC SOCIETY. ISSN 0002-7820, 2016, vol. 99, no. 6, pp. 2181-2196., Registrované v: WOS

8. [1.1] WORZAKOWSKA, Marta - TORRES-GARCIA, E. - GROCHOWICZ, Marta. Degradation kinetics of starch-g-poly(phenyl methacrylate) copolymers. In THERMOCHIMICA ACTA. ISSN 0040-6031, 2015, vol. 619, no., pp. 8-15., Registrované v: WOS

9. [1.2] JIN, Ding Feng - YANG, Xiao - WU, Pan Pan - ZHANG, Ming - GE, Hong Liang - WANG, Zheng Bao - LOU, Hui. Kinetics of thermal degradation of porous corn starch. In Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities. ISSN 10039015, 2015-12-01, 29, 6, pp. 1371-1376., Registrované v: SCOPUS

ADCA1270 ŠIMKOVIC, Ivan. Unexplored possibilities of all-polysaccharide composites. In *Carbohydrate Polymers*, 2013, vol. 95, p. 697-715. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.03.040>

Ohlasy:

1. [1.1] AZEVEDO, Viviane Machado - BORGES, Soraia Vilela - MARCONCINI, Jose Manoel - YOSHIDA, Maria Irene - SENA NETO, Alfredo Rodrigues - PEREIRA, Tamara Coelho - GONCALVES PEREIRA, Camila Ferreira. Effect of replacement of corn starch by whey protein isolate in biodegradable film blends obtained by extrusion. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 971-980., Registrované v: WOS

2. [1.1] BAGAL-KESTWAL, Dipali R. - PAN, M. H. - CHIANG, Been-Huang. Processing Methods for Bionanocomposites. In BIO MONOMERS FOR GREEN POLYMERIC COMPOSITE MATERIALS, 2019, vol., no., pp.

25-55., Registrované v: WOS

3. [1.1] BISMARCK LINARES, Arturo - CARLOS JIMENEZ, Juan - LOPEZ, Pedro - ROJAS DE GASCUE, Blanca. Biodegradability Study by FTIR and DSC of Polymers Films Based on Polypropylene and Cassava Starch. In ORBITAL-THE ELECTRONIC JOURNAL OF CHEMISTRY. ISSN 1984-6428, 2019, vol. 11, no. 2, pp. 71-82., Registrované v: WOS

4. [1.1] BOCHEK, A. M. - SHEVCHUK, I. L. - GAVRILOVA, I. I. - LEBEDEVA, M. F. - LAVRENT'EV, V. K. - PANARIN, E. F. Properties of Composite Films of Hydroxyethyl Cellulose and Hydroxypropyl Cellulose with Poly-N-methyl-N-vinylacetamide. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2018, vol. 60, no. 6, pp. 788-795., Registrované v: WOS

5. [1.1] BOCHEK, A. M. - SHEVCHUK, I. L. Properties of Aqueous Solutions of O,N-Carboxymethyl Chitosan with Various Additives. In FIBRE CHEMISTRY. ISSN 0015-0541, 2018, vol. 50, no. 3, pp. 193-196., Registrované v: WOS

6. [1.1] BOCHEK, A. M. - SHEVCHUK, L. - LEBEDEVA, M. F. - LAVRENT'EV, V. K. Properties of Mixed Aqueous Solutions of Polyethylene Oxide and Carboxymethyl Cellulose with Different Degrees of Ionization and of Composite Films Prepared from Them. In RUSSIAN JOURNAL OF APPLIED CHEMISTRY. ISSN 1070-4272, 2019, vol. 92, no. 5, pp. 707-713., Registrované v: WOS

7. [1.1] BOCHEK, A. M. - VOKHIDOVA, N. R. - SAPRYKINA, N. N. - ASHUROV, N. Sh. - YUGAI, S. M. - RASHIDOVA, S. Sh. The properties of chitosan-cobalt nanoparticle solutions and related composite films. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2015, vol. 57, no. 4, pp. 460-466., Registrované v: WOS

8. [1.1] BOCHEK, A. M. - ZABIVALOVA, N. M. - GOFMAN, I. V. - LEBEDEVA, M. F. - POPOVA, E. N. - LAVRENT'EV, V. K. Properties of composite films of methylcellulose with arabinogalactan. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2015, vol. 57, no. 4, pp. 430-436., Registrované v: WOS

9. [1.1] BOUTTIER-FIGUEROA, D. C. - GARCIA-VALENZUELA, J. A. - CABRERA-GERMAN, D. - COTA-LEAL, M. - QUEVEDO-LOPEZ, M. A. - ROSAS-DURAZO, A. - SOTELO-LERMA, M. Characterization of the antibacterial galactomannan/Zn(OH)(2)-ZnO composite material prepared boldin situ/bold from a green process using mesquite seeds as a biopolymer source. In BULLETIN OF MATERIALS SCIENCE. ISSN 0250-4707, 2019, vol. 42, no. 3, pp., Registrované v: WOS

10. [1.1] BULATOVIC, Vesna Ocelic - JAKIC, Mice - GRGIC, Dajana Kucic. Kinetic Analysis of Poly(epsilon-caprolactone)/poly(lactic acid) Blends with Low-cost Natural Thermoplastic Starch. In ACTA CHIMICA SLOVENICA. ISSN 1318-0207, 2020, vol. 67, no. 2, pp. 651-665. Dostupné na: <https://doi.org/10.17344/acsi.2019.5676>., Registrované v: WOS

11. [1.1] DE CAMPO, Camila - HAAS COSTA, Tania Maria - RIOS, Alessandro de Oliveira - FLORES, Simone Hickmann. Effect of incorporation of nutraceutical capsule waste of safflower oil in the mechanical characteristics of corn starch films. In FOOD SCIENCE AND TECHNOLOGY. ISSN 0101-2061, 2016, vol. 36, no., pp. 33-36., Registrované v: WOS

12. [1.1] DEEPA, B. - CHIRAYIL, Cintil Jose - POTHAN, Laly A. - THOMAS, Sabu. Lignocellulose-Based Nanoparticles and Nanocomposites:

- Preparation, Properties, and Applications. In LIGNOCELLULOSE FOR FUTURE BIOECONOMY, 2019, vol., no., pp. 41-69., Registrované v: WOS
13. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS
 14. [1.1] FADIDA, Tania - SELILAT-WEISS, Adi - POVERENOV, Elena. N-hexylimine-chitosan, a biodegradable and covalently stabilized source of volatile, antimicrobial hexanal. Next generation controlled-release system. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2015, vol. 48, no., pp. 213-219., Registrované v: WOS
 15. [1.1] FEKETE, Erika - BELLA, Eva - CSISZAR, Emilia - MOCZO, Janos. Improving physical properties and retrogradation of thermoplastic starch by incorporating agar. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 136, no., pp. 1026-1033., Registrované v: WOS
 16. [1.1] FERNANDES, Clara - ACHARYA, Pratap Chandra - BHATT, Shikha. Preparation of Lauroyl Grafted Alginate-Psyllium Husk Gel Composite Film with Enhanced Physicochemical, Mechanical and Antimicrobial Properties. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
 17. [1.1] GUTIERREZ, Tomy J. - ALVAREZ, Vera A. Cellulosic materials as natural fillers in starch-containing matrix-based films: a review. In POLYMER BULLETIN. ISSN 0170-0839, 2017, vol. 74, no. 6, pp. 2401-2430., Registrované v: WOS
 18. [1.1] GUTIERREZ, Tomy J. - ALVAREZ, Vera A. Properties of native and oxidized corn starch/polystyrene blends under conditions of reactive extrusion using zinc octanoate as a catalyst. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 112, no., pp. 33-44., Registrované v: WOS
 19. [1.1] CHEN, Pei - XIE, Fengwei - TANG, Fengzai - MCNALLY, Tony. Unexpected Plasticization Effects on the Structure and Properties of Polyelectrolyte Complexed Chitosan/Alginate Materials. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, 2020, vol. 2, no. 7, pp. 2957-2966. Dostupné na: <https://doi.org/10.1021/acsapm.0c00433>., Registrované v: WOS
 20. [1.1] IBRAHIM, Nabil A. - EID, Basma M. Potential Applications of Sustainable Polymers in Functionalization of Cellulosic Textile Materials. In HANDBOOK OF SUSTAINABLE POLYMERS: PROCESSING AND APPLICATIONS, 2016, vol., no., pp. 215-264., Registrované v: WOS
 21. [1.1] KARARNANOS, Nikos K. - PIPERIGKOU, Zoi - THEOCHARIS, Achilleas D. - WATANABE, Hideto - FRANCHI, Marco - BAUD, Stephanie - BREZILLON, Stephane - GOETTE, Martin - PASSI, Alberto - VIGETTI, Davide - RICARD-BLUM, Sylvie - SANDERSON, Ralph D. - NEILL, Thomas - IOZZO, Renato V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, pp. 9152-9232., Registrované v: WOS
 22. [1.1] KELNAR, Ivan - KOVAROVA, Jana - TISHCHENKO, Galina - KAPRALKOVA, Ludmila - PAVLOVA, Ewa - CAREZZI, Francesco - MORGANTI, Pierfrancesco. Chitosan/Chitin nanowhiskers composites: effect of

- plasticisers on the mechanical behaviour. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2015, vol. 22, no. 2, pp., Registrované v: WOS
23. [1.1] KELNAR, Ivan - ZHIGUNOV, Alexander - KAPRALKOV, Ludmila - KREJCIKOVA, Sabina - DYBAL, Jiri. Synergistic effects in Methylcellulose/Hydroxyethylcellulose blend: Influence of components ratio and graphene oxide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116077>., Registrované v: WOS
24. [1.1] KIM, Joo Ran - NETRAVALI, Anil N. Self-healing starch-based 'green' thermoset resin. In POLYMER. ISSN 0032-3861, 2017, vol. 117, no., pp. 150-159., Registrované v: WOS
25. [1.1] LIU, Jun - CHINGA-CARRASCO, Gary - CHENG, Fang - XU, Wenyang - WILLFOR, Stefan - SYVERUD, Kristin - XU, Chunlin. Hemicellulose-reinforced nanocellulose hydrogels for wound healing application. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 5, pp. 3129-3143., Registrované v: WOS
26. [1.1] LI, Jinyang - NAWAZ, Haq - WU, Jin - ZHANG, Jinming - WAN, Jiqiang - MI, Qinyong - YU, Jian - ZHANG, Jun. All-cellulose composites based on the self-reinforced effect. In COMPOSITES COMMUNICATIONS. ISSN 2452-2139, 2018, vol. 9, no., pp. 42-53., Registrované v: WOS
27. [1.1] MARCUELLO, Carlos - FOULON, Laurence - CHABBERT, Brigitte - MOLINARI, Michael - AGUIE-BEGHIN, Veronique. Langmuir-Blodgett Procedure to Precisely Control the Coverage of Functionalized AFM Cantilevers for SMFS Measurements: Application with Cellulose Nanocrystals. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 32, pp. 9376-9386., Registrované v: WOS
28. [1.1] MARCUELLO, Carlos - FOULON, Laurence - CHABBERT, Brigitte - AGUIE-BEGHIN, Veronique - MOLINARI, Michael. Atomic force microscopy reveals how relative humidity impacts the Young's modulus of lignocellulosic polymers and their adhesion with cellulose nanocrystals at the nanoscale. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 147, no., pp. 1064-1075. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.074>., Registrované v: WOS
29. [1.1] MARIA PALMA-RODRIGUEZ, Heidi - BERRIOS, Jose De Jesus - GLENN, Gregory - SALGADO-DELGADO, Rene - APARICIO-SAGUILAN, Alejandro - INES RODRIGUEZ-HERNANDEZ, Adriana - VARGAS-TORRES, Apolonio. Effect of the storage conditions on mechanical properties and microstructure of biodegradable baked starch foams. In CYTA-JOURNAL OF FOOD. ISSN 1947-6337, 2016, vol. 14, no. 3, pp. 415-422., Registrované v: WOS
30. [1.1] MENDES, J. F. - PASCHOALIN, R. T. - CARMONA, V. B. - SENA NETO, Alfredo R. - MARQUES, A. C. P. - MARCONCINI, M. - MATTOSO, L. H. C. - MEDEIROS, E. S. - OLIVEIRA, J. E. Biodegradable polymer blends based on corn starch and thermoplastic chitosan processed by extrusion. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, no., pp. 452-458., Registrované v: WOS
31. [1.1] MOSTAFAVI, Fatemeh Sadat - ZAEIM, Davood. Agar-based edible films for food packaging applications A review. In INTERNATIONAL

JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 1165-1176. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.123>., Registrované v: WOS

32. [1.1] MUTHU, Manikandan - WU, Hui-Fen - GOPAL, Judy - SIVANESAN, Iyyakkannu - CHUN, Sechul. Exploiting Microbial Polysaccharides for Biosorption of Trace Elements in Aqueous Environments-Scope for Expansion via Nanomaterial Intervention. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 12, pp., Registrované v: WOS

33. [1.1] NOREEN, Aqdas - NAZLI, Zill-i-Huma - AKRAM, Javeria - RASUL, Ijaz - MANSHA, Asim - YAQOOB, Nazia - IQBAL, Rehana - TABASUM, Shazia - ZUBER, Mohammad - ZIA, Khalid Mahmood. Pectins functionalized biomaterials; a new viable approach for biomedical applications: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 101, no., pp. 254-272., Registrované v: WOS

34. [1.1] PACHECO, Daniela P. - MARCELLO, Elena - BLOISE, Nora - SACCHETTI, Alessandro - BRENNNA, Elisabetta - VISAI, Livia - PETRINI, Paola. Design of Multifunctional Polysaccharides for Biomedical Applications: A Critical Review. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 12, pp. 1222-1236., Registrované v: WOS

35. [1.1] PASSI, Alberto - VIGETTI, Davide. Hyaluronan as tunable drug delivery system. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2019, vol. 146, no., pp. 83-96., Registrované v: WOS

36. [1.1] PEREIRA, Antonio G. B. - FAJARDO, Andre R. - VALENTE, Artur J. M. - RUBIRA, Adley F. - MUNIZ, Edvani C. Outstanding Features of Starch-based Hydrogel Nanocomposites. In STARCH-BASED BLENDS, COMPOSITES AND NANOCOMPOSITES. ISSN 1757-7039, 2016, vol., no. 37, pp. 236-262., Registrované v: WOS

37. [1.1] ROLANDO RIOS-SOBERANIS, Carlos - JAVIER ESTRADA-LEON, Raciél - MANUEL MOO-HUCHIN, Victor - JOSE CABRERA-SIERRA, Maria - MANUEL CERVANTES-UC, Jose - ARTURO BELLO-PEREZ, Luis - PEREZ-PACHECO, Emilio. Utilization of ramon seeds (*Brosimum alicastrum* swarts) as a new source material for thermoplastic starch production. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2016, vol. 133, no. 47, pp., Registrované v: WOS

38. [1.1] RUBENTHEREN, V. - WARD, Thomas A. - CHEE, Ching Yern - TANG, Chee Kuang. Processing and analysis of chitosan nanocomposites reinforced with chitin whiskers and tannic acid as a crosslinker. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 379-387., Registrované v: WOS

39. [1.1] SABERI, Bahareh - THAKUR, Rahul - BHUYAN, Deep Jyoti - VUONG, Quan V. - CHOCKCHASAWASDEE, Suwimol - GOLDING, John B. - SCARLETT, Christopher J. - STATHOPOULOS, Costas E. Development of edible blend films with good mechanical and barrier properties from pea starch and guar gum. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 1-2, pp., Registrované v: WOS

40. [1.1] SAFRONOV, A. P. - ADAMOVA, L. - KURLYANDSKAYA, G. Flory-Huggins Parameters of Guar Gum, Xanthan Gum, Agarose, and Gellan Gum in Aqueous Solutions. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2019, vol. 61, no. 1, pp. 29-38., Registrované v: WOS

41. [1.1] SAKAI, Kiyota - MOCHIZUKI, Mai - YAMADA, Miyuki - SHINZAWA, Yuta - MINEZAWA, Miho - KIMOTO, Saran - MURATA, Shunsuke - KANEKO, Yuhei - ISHIHARA, Saaya - JINDOU, Sadanari - KOBAYASHI, Tetsuo - KATO, Masashi - SHIMIZU, Motoyuki. Biochemical characterization of thermostable beta-1,4-mannanase belonging to the glycoside hydrolase family 134 from *Aspergillus oryzae*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3237-3245., Registrované v: WOS
42. [1.1] SCOGNAMIGLIO, Fabrizio - GATTIA, Daniele Mirabile - ROSELLI, Graziella - PERSIA, Franca - DE ANGELIS, Ugo - SANTULLI, Carlo. Thermoplastic Starch (TPS) Films Added with Mucilage from *Opuntia Ficus Indica*: Mechanical, Microstructural and Thermal Characterization. In *MATERIALS*, 2020, vol. 13, no. 4, pp. Dostupné na: <https://doi.org/10.3390/ma13041000>., Registrované v: WOS
43. [1.1] SHARIATINIA, Zahra - FAZLI, Mahbubeh. Mechanical properties and antibacterial activities of novel nanobiocomposite films of chitosan and starch. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 46, no., pp. 112-124., Registrované v: WOS
44. [1.1] SHIMIZU, Motoyuki - KANEKO, Yuhei - ISHIHARA, Saaya - MOCHIZUKI, Mai - SAKAI, Kiyota - YAMADA, Miyuki - MURATA, Shunsuke - ITOH, Eriko - YAMAMOTO, Tatsuya - SUGIMURA, Yu - HIRANO, Tatsuya - TAKAYA, Naoki - KOBAYASHI, Tetsuo - KATO, Masashi. Novel beta-1,4-Mannanase Belonging to a New Glycoside Hydrolase Family in *Aspergillus nidulans*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2015, vol. 290, no. 46, pp. 27914-27927., Registrované v: WOS
45. [1.1] STANESCU, Marius Marinel - BOLCU, Dumitru. A Study of Some Mechanical Properties of Composite Materials with a Dammar-Based Hybrid Matrix and Reinforced by Waste Paper. In *POLYMERS*, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081688>., Registrované v: WOS
46. [1.1] SUN, Haitao - SHAO, Xinru - JIANG, Ruiping - SHEN, Zhimin - MA, Zhongsu. Mechanical and barrier properties of corn distarch phosphate-zein bilayer films by thermocompression. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 2076-2081., Registrované v: WOS
47. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Rapeseed straw as a renewable source of hemicelluloses: Extraction, characterization and film formation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 133, no., pp. 179-186., Registrované v: WOS
48. [1.1] TAJVIDI, Mehdi - GARDNER, Douglas J. - BOUSFIELD, Douglas W. Cellulose Nanomaterials as Binders: Lamine and Particulate Systems. In *JOURNAL OF RENEWABLE MATERIALS*. ISSN 2164-6325, 2016, vol. 4, no. 5, pp. 365-376., Registrované v: WOS
49. [1.1] TALEB, Khaled - MARKOVSKI, Jasmina - VELICKOVIC, Zlate - RUSMIROVIC, Jelena - RANCIC, Milica - PAVLOVIC, Vladimir - MARINKOVIC, Aleksandar. Arsenic removal by magnetite-loaded amino modified nano/microcellulose adsorbents: Effect of functionalization and media size. In *ARABIAN JOURNAL OF CHEMISTRY*. ISSN 1878-5352, 2019, vol. 12, no. 8, pp. 4675-4693., Registrované v: WOS

50. [1.1] TAVASSOLI-KAFRANI, Elham - SHEKARCHIZADEH, Hajar - MASOUDPOUR-BEHABADI, Mahdieh. Development of edible films and coatings from alginates and carrageenans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 137, no., pp. 360-374., Registrované v: WOS
51. [1.1] VINCENT, Thierry - VINCENT, Chloe - DUMAZERT, Loic - OTAZAGHINE, Belkacem - SONNIER, Rodolphe - GUIBAL, Eric. Fire behavior of innovative alginate foams. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116910>., Registrované v: WOS
52. [1.1] VIOLA, Manuela - VIGETTI, Davide - KAROUSOU, Evgenia - D'ANGELO, Maria Luisa - CAON, Ilaria - MORETTO, Paola - DE LUCA, Giancarlo - PASSI, Alberto. Biology and biotechnology of hyaluronan. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2015, vol. 32, no. 3-4, pp. 93-103., Registrované v: WOS
53. [1.1] YANG, Yu - KHAN, Bilal Muhammad - ZHANG, Xiping - ZHAO, Yongjie - CHEONG, Kit-Leong - LIU, Yang. Advances in Separation and Purification of Bioactive Polysaccharides through High-speed Counter-Current Chromatography. In JOURNAL OF CHROMATOGRAPHIC SCIENCE. ISSN 0021-9665, 2020, vol. 58, no. 10, pp. 992-1000. Dostupné na: <https://doi.org/10.1093/chromsci/bmaa063>., Registrované v: WOS
54. [1.1] ZHANG, Jinming - LUO, Nan - WAN, Jiqiang - XIA, Guangmei - YU, Jian - HE, Jiasong - ZHANG, Jun. Directly Converting Agricultural Straw into All-Biomass Nanocomposite Films Reinforced with Additional in Situ-Retained Cellulose Nanocrystals. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5127-5133., Registrované v: WOS
55. [1.1] ZHENG, Yingying - MONTY, Jonathan - LINHARDT, Robert J. Polysaccharide-based nanocomposites and their applications. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 405, no., pp. 23-32., Registrované v: WOS
56. [1.2] BHATIA, Saurabh. Systems for drug delivery: Safety, animal, and microbial polysaccharides. In Systems for Drug Delivery: Safety, Animal, and Microbial Polysaccharides, 2016-01-01, pp. 1-197., Registrované v: SCOPUS
57. [1.2] DELGADO, Karen L. - VARONA, Giovanni A. - MONTILLA, Camilo E. - VILLADA, Héctor S. Effect of the additive tween 80 and of the process temperature on the mechanical tensile properties of flexible films developed from thermoplastic cassava starch. In Informacion Tecnologica. ISSN 07168756, 2016-01-01, 27, 6, pp. 145-152., Registrované v: SCOPUS
58. [1.2] CHERNOVA, V. V. - VALIEV, D. R. - BAZUNOVA, M. V. - KULISH, E. I. Features of the Rheological Behavior of Polymer-Colloidal Dispersions Based on a Sodium Salt of Carboxymethyl Cellulose and Silver Iodide Sols. In Russian Journal of Physical Chemistry B. ISSN 19907931, 2018-07-01, 12, 4, pp. 701-708., Registrované v: SCOPUS
59. [1.2] JÖNSSON, A. S. Membranes for lignin and hemicellulose recovery in pulp mills. In Membrane Technologies for Biorefining, 2016-03-01, pp. 105-133., Registrované v: SCOPUS
60. [1.2] Pectin-based composites. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 487-517., Registrované v: SCOPUS

61. [1.2] RÄTTÖ, Peter - DAHLMAN, Olof - JUNEL, Kristina. Pilot coating with a hemicellulose-based barrier. In Paper Conference and Trade Show, PaperCon 2018, 2018-01-01, 1, pp. 403-412., Registrované v: SCOPUS
62. [1.2] VIYAPURI, Rubentheren - WARD, Thomas A. - JEFFREY, C. K.L. - SIVARAOS. Reinforcement of chitosan based composite film using Chitin Nano-Whiskers and the effects of heat treatment for the wing membrane of Biomimetic Micro Air Vehicle (BMAV). In International Journal of Mechanical and Mechatronics Engineering. ISSN 22272771, 2019-01-01, 19, 2, pp. 25-32., Registrované v: SCOPUS
63. [1.2] ZHANG, Demeng - ZHANG, Mengxue - GU, Xiaoxiao. Seaweed-Derived Hydrocolloids as Food Coating and Encapsulation Agents. In Bioactive Seaweeds for Food Applications: Natural Ingredients for Healthy Diets, 2018-01-01, pp. 153-175., Registrované v: SCOPUS

ADCA1271 ŠIMKOVIC, Ivan. What could be greener than composites made from polysaccharides? In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 74, p. 759-762. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.07.009>

Ohlasy:

1. [1.1] ABBASIAN, Mojtaba - PAKZAD, Mousa - NAZARI, Kobra. Synthesis of Cellulose-graft-Polychloromethylstyrene-graft-Polyacrylonitrile Terpolymer/Organoclay Bionanocomposite by Metal Catalyzed Living Radical Polymerization and Solvent Blending Method. In POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING. ISSN 0360-2559, 2017, vol. 56, no. 8, pp. 857-865., Registrované v: WOS
2. [1.1] AO, Chenghong - NIU, Yan - ZHANG, Ximu - HE, Xu - ZHANG, Wei - LU, Canhui. Fabrication and characterization of electrospun cellulose/nano-hydroxyapatite nanofibers for bone tissue engineering. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, no., pp. 568-573., Registrované v: WOS
3. [1.1] BARCLAY, Thomas G. - DAY, Candace Minhthu - PETROVSKY, Nikolai - GARG, Sanjay. Review of polysaccharide particle-based functional drug delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 221, no., pp. 94-112., Registrované v: WOS
4. [1.1] BASAK, Sayan. A Reflection on the Modern Fuel Cells Based on Chitosan and Alginate Reinforced Biomembranes. In RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1990-7931, 2020, vol. 14, no. 3, pp. 450-456. Dostupné na: <https://doi.org/10.1134/S1990793120030021>., Registrované v: WOS
5. [1.1] CAHU, Thiago B. - SILVA, Rodrigo A. - SILVA, Raquel P. F. - SILVA, Milena M. - ARRUDA, Isabel R. S. - SILVA, Janilson F. - COSTA, Romero M. P. B. - SANTOS, Suzan D. - NADER, Helena B. - BEZERRA, Ranilson S. Evaluation of Chitosan-Based Films Containing Gelatin, Chondroitin 4-Sulfate and ZnO for Wound Healing. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 3, pp. 765-777., Registrované v: WOS
6. [1.1] DE SOUSA, Ana K. A. - RIBEIRO, Fabio O. S. - DE OLIVEIRA, Taiane M. - DE ARAUJO, Alyne R. - DIAS, Jhones do N. - ALBUQUERQUE, Patricia - SILVA-PEREIRA, Ildinete - DE JESUS

- OLIVEIRA, Antonia C. - QUELEMES, Patrick V. - LEITE, Jose R. S. A. - DA SILVA, Durcilene A. Quaternization of angico gum and evaluation of anti-staphylococcal effect and toxicity of their derivatives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1175-1183. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.126>., Registrované v: WOS
7. [1.1] ELDIN, M. S. Mohy - HASHEM, A. E. - TAMER, T. M. - OMER, A. M. - YOSSFUF, M. E. - SABET, M. M. Development of Cross linked Chitosan/Alginate Polyelectrolyte Proton Exchanger Membranes for Fuel Cell Applications. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 5, pp. 3840-3858., Registrované v: WOS
8. [1.1] GOVINDAN, Vaniespre - HUSSEINSYAH, Salmah - LENG, Teh Pei. Treated Nypa fruticans Husk-filled Regenerated Cellulose Biocomposite Films. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8739-8755., Registrované v: WOS
9. [1.1] HUSSAIN, Imtiaz - SAYED, Sayed Mir - LIU, Shunli - ODERINDE, Olayinka - YAO, Fang - FU, Guodong. Glycogen-based self-healing hydrogels with ultra-stretchable, flexible, and enhanced mechanical properties via sacrificial bond interactions. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 648-658., Registrované v: WOS
10. [1.1] HUSSEINSYAH, Salmah - ZAILUDDIN, Nur Liyana Izyan - LI, Chew Li - ZAKARIA, Marliza Mostapha. Tensile and Characterization Properties of Regenerated Cellulose Empty Fruit Bunch Biocomposite Films Using Ionic Liquid. In 2ND INTERNATIONAL CONFERENCE ON FUNCTIONAL MATERIALS AND METALLURGY (ICOFM 2016). ISSN 0094-243X, 2016, vol. 1756, no., pp., Registrované v: WOS
11. [1.1] CHEN, Jin - XIE, Fengwei - LI, Xiaoxi - CHEN, Ling. Ionic liquids for the preparation of biopolymer materials for drug/gene delivery: a review. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 18, pp. 4169-4200., Registrované v: WOS
12. [1.1] CHI, Kai - WANG, Hui - CATCHMARK, Jeffrey M. Sustainable starch-based barrier coatings for packaging applications. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105696>., Registrované v: WOS
13. [1.1] KALAOGLU, Ozlem I. - UNLU, Cuneyt H. - ATICI, Oya Galioglu. Synthesis, characterization and electrospinning of corn cob cellulose-graft-polyacrylonitrile and their clay nanocomposites. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 147, no., pp. 37-44., Registrované v: WOS
14. [1.1] KIERULF, Arkaye - AZIZI, Morteza - ESKANDARLOO, Hamed - WHALEY, Judith - LIU, Weichang - PEREZ-HERRERA, Mariana - YOU, Zheng - ABBASPOURRAD, Alireza. Starch-based Janus particles: Proof-of-concept heterogeneous design via a spin-coating spray approach. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 91, no., pp. 301-310., Registrované v: WOS
15. [1.1] KIM, Sung Hee - KIM, Min Hoo - KIM, Ji Hyun - PARK, Saerom - KIM, Hyungsup - WON, Keehoon - LEE, Sang Hyun. Preparation of artificial wood films with controlled biodegradability. In JOURNAL OF

- APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2015, vol. 132, no. 25, pp.,
Registrované v: WOS
16. [1.1] MAHMOOD, Hamayoun - MONIRUZZAMAN, Muhammad - YUSUP, Suzana - WELTON, Tom. Ionic liquids assisted processing of renewable resources for the fabrication of biodegradable composite materials. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 9, pp. 2051-2075.,
Registrované v: WOS
17. [1.1] MAHMOOD, Hamayoun - MONIRUZZAMAN, Muhammad - YUSUP, Suzana - AKIL, Hazizan Md. Green Composites from Ionic Liquid-Assisted Processing of Sustainable Resources: A Brief Overview. In PROGRESS AND DEVELOPMENTS IN IONIC LIQUIDS, 2017, vol., no., pp. 117-131., Registrované v: WOS
18. [1.1] MAHMOOD, H. - SULAIMAN, M. - MONIRUZZAMAN, M. Ionic Liquids as Green Solvents for Lignocellulosic Biomass Utilization. In INDUSTRIAL APPLICATIONS OF GREEN SOLVENTS, VOL II. ISSN 2471-8890, 2019, vol. 54, no., pp. 60-86., Registrované v: WOS
19. [1.1] MURGUIA-FLORES, Dennise A. - BONILLA-RIOS, Jaime - CANALES-FISCAL, Martha R. - SANCHEZ-FERNANDEZ, Antonio. Protein adsorption through Chitosan-Alginate membranes for potential applications. In CHEMISTRY CENTRAL JOURNAL. ISSN 1752-153X, 2016, vol. 10, no., pp.,
Registrované v: WOS
20. [1.1] NOREEN, Aqdas - ZIA, Khalid Mahmood - TABASUM, Shazia - KHALID, Sana - SHAREEF, Rahila. A review on grafting of hydroxyethylcellulose for versatile applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 289-303. Dostupné na:
<https://doi.org/10.1016/j.ijbiomac.2020.01.265>., Registrované v: WOS
21. [1.1] OLADOJA, Nurudeen A. - UNUABONAH, Emmanuel I. - AMUDA, Omotayo S. - KOLAWOLE, Olatunji M. Mechanistic Insight into the Coagulation Efficiency of Polysaccharide-based Coagulants. In POLYSACCHARIDES AS GREEN AND SUSTAINABLE RESOURCES FOR WATER AND WASTEWATER TREATMENT. ISSN 2191-5407, 2017, vol., no., pp. 13-35., Registrované v: WOS
22. [1.1] OLADOJA, Nurudeen A. - UNUABONAH, Emmanuel I. - AMUDA, Omotayo S. - KOLAWOLE, Olatunji M. Progress and Prospects of Polysaccharide Composites as Adsorbents for Water and Wastewater Treatment. In POLYSACCHARIDES AS GREEN AND SUSTAINABLE RESOURCES FOR WATER AND WASTEWATER TREATMENT. ISSN 2191-5407, 2017, vol., no., pp. 65-90., Registrované v: WOS
23. [1.1] PARK, Saerom - KIM, Sung Hee - WON, Keehoon - CHOI, Joon Weon - KIM, Yong Hwan - KIM, Hyung Joo - YANG, Yung-Hun - LEE, Sang Hyun. Wood mimetic hydrogel beads for enzyme immobilization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 223-229., Registrované v: WOS
24. [1.1] RAAFAT, Amany Ismael - ABD-ALLAH, Wesam Mohamed. In vitro apatite forming ability and ketoprofen release of radiation synthesized (gelatin-polyvinyl alcohol)/bioglass composite scaffolds for bone tissue regeneration. In POLYMER COMPOSITES. ISSN 0272-8397, 2018, vol. 39, no. 3, pp. 606-615., Registrované v: WOS
25. [1.1] SANTAGATA, Gabriella - SCHETTINI, Evelia - VOX,

Giuliano - IMMIRZI, Barbara - MUGNOZZA, Giacomo Scarascia - MALINCONICO, Mario. Biodegradable Spray Mulching and Nursery Pots: New Frontiers for Research. In SOIL DEGRADABLE BIOPLASTICS FOR A SUSTAINABLE MODERN AGRICULTURE. ISSN 2196-6982, 2017, vol., no., pp. 105-137., Registrované v: WOS

26. [1.1] SHAARI, Norazuwana - KAMARUDIN, Siti Kartom. Recent advances in additive-enhanced polymer electrolyte membrane properties in fuel cell applications: An overview. In INTERNATIONAL JOURNAL OF ENERGY RESEARCH. ISSN 0363-907X, 2019, vol. 43, no. 7, pp. 2756-2794., Registrované v: WOS

27. [1.1] SHAARI, N. - KAMARUDIN, S. K. Chitosan and alginate types of bio-membrane in fuel cell application: An overview. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2015, vol. 289, no., pp. 71-80., Registrované v: WOS

28. [1.1] SUNTHONRYARABHAS, Jackapon - SRIROTH, Klanarong - KIM, Hyun-Joong. Polysaccharide Bio-Based Composites: Nanofiber Fabrication and Application. In BIO-BASED COMPOSITES FOR HIGH-PERFORMANCE MATERIALS: FROM STRATEGY TO INDUSTRIAL APPLICATION, 2015, vol., no., pp. 149-166., Registrované v: WOS

29. [1.1] ZARGAR, V. - ASGHARI, M. - AFSARI, M. Gas separation properties of swelled nanocomposite chitosan membranes cross-linked by 3-aminopropyltriethoxysilane. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2019, vol. 16, no. 1, pp. 37-46., Registrované v: WOS

30. [1.1] ZHANG, Xihe - ZHOU, Juan - YING, Huiyan - ZHOU, Yuting - LAI, Jiahui - CHEN, Jinghua. Glycogen as a Cross-Linking Agent of Collagen and Nanohydroxyapatite To Form Hydrogels for bMSC Differentiation. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 4, pp. 2106-2114. Dostupné na:

<https://doi.org/10.1021/acssuschemeng.9b07051>., Registrované v: WOS

31. [1.2] BHATIA, Saurabh. Systems for drug delivery: Safety, animal, and microbial polysaccharides. In Systems for Drug Delivery: Safety, Animal, and Microbial Polysaccharides, 2016-01-01, pp. 1-197., Registrované v: SCOPUS

32. [1.2] PENG, Huafeng - WANG, Shaopeng - XU, Hongyao - DAI, Guoliang. Preparations, properties, and formation mechanism of novel cellulose hydrogel membrane based on ionic liquid. In Journal of Applied Polymer Science. ISSN 00218995, 2018-02-15, 135, 7, pp., Registrované v: SCOPUS

ADCA1272 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Xylan sulphate films. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 86, p. 214-218. (2010: 3.463 - IF, Q1 - JCR, 1.370 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2011.04.034>

Ohlasy:

1. [1.1] BAYATI, Fatemeh - BOLUK, Yaman - CHOI, Phillip. A SHORT REVIEW OF USING WOOD FIBRES IN FOOD PACKAGING. In J-FOR-JOURNAL OF SCIENCE & TECHNOLOGY FOR FOREST PRODUCTS AND PROCESSES. ISSN 1927-6311, 2015, vol. 5, no. 4, pp.

45-53., Registrované v: WOS

2. [1.1] LEHTO, Joni T. - ALÉN, Raimo J. Chemical Pretreatments of Wood Chips Prior to Alkaline Pulping A Review of Pretreatment Alternatives, Chemical Aspects of the Resulting Liquors, and Pulping Outcomes. In BIORESOURCES. ISSN 1930-2126, 2015, vol. 10, no. 4, pp. 8604-8656., Registrované v: WOS

3. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS

4. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS

5. [1.1] LORENZ, Dominic - ERASMY, Nicole - AKIL, Youssef - SAAKE, Bodo. A new method for the quantification of monosaccharides, uronic acids and oligosaccharides in partially hydrolyzed xylans by HPAEC-UV/VIS. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 140, no., pp. 181-187., Registrované v: WOS

6. [1.1] REN, Junli - WANG, Shuaiyang - GAO, Cundian - CHEN, Xiaofeng - LI, Weiyang - PENG, Feng. TiO₂-containing PVA/xylan composite films with enhanced mechanical properties, high hydrophobicity and UV shielding performance. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 1, pp. 593-602., Registrované v: WOS

7. [1.1] TREVATHAN-TACKETT, Stacey M. - KELLEWAY, Jeffrey - MACREADIE, Peter I. - BEARDALL, John - RALPH, Peter - BELLGROVE, Alecia. Comparison of marine macrophytes for their contributions to blue carbon sequestration. In ECOLOGY. ISSN 0012-9658, 2015, vol. 96, no. 11, pp. 3043-3057., Registrované v: WOS

8. [1.1] VILLANOVA, J. C. O. - AYRES, E. - OREFICE, R. L. Design, characterization and preliminary in vitro evaluation of a mucoadhesive polymer based on modified pectin and acrylic monomers with potential use as a pharmaceutical excipient. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 121, no., pp. 372-381., Registrované v: WOS

9. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS

ADCA1273 ŠIMO, Ondrej - RYBÁR, Alfonz - ALFOLDI, Juraj. New (c,d)-fused purinediones: 2-Substituted 9-methyl-4,5-dihydro-6H,8H-pyrimido (1,2,3-c)purine-8,10(9H)-diones. In *Synthesis*, 1995, p. 837-840. ISSN 0039-7881. Ohlasy:

1. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS

2. [1.1] ZIARANI, Ghodsi Mohammadi - ASADI, Shima - BADIEI, Alireza - SHARIFI, Amirhossein - AMANLOU, Massoud. Synthesis of Some Spiro Indeno[1,2-b]pyrido[2,3-d]Pyrimidine-5,3 '-Indolines as New Urease Inhibitors. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2016, vol. 15, no., pp. 55-63., Registrované v: WOS

ADCA1274 ŠIMO, Ondrej - RYBÁR, Alfonz - ALFOLDI, Juraj.

2-Triazolylpyrimido[1,2,3-cd]purine-8,10-diones via 1,3-Dipolar Cycloadditions to 2-Ethynylpyrimido[1,2,3-cd]purine-8,10-dione. In *Journal of Heterocyclic Chemistry*, 2000, vol. 37, p. 1033-1039. ISSN 0022-152X.

Ohlasy:

1. [1.1] HERAVI, Majid M. - TAMIMI, Mehrnoush - YAHYAVI, Hoda - HOSSEINNEJAD, Tayebbeh. Huisgen's Cycloaddition Reactions: A Full Perspective. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2016, vol. 20, no. 15, pp. 1591-1647., Registrované v: WOS
2. [1.1] HOFFMANN, Justus Friedrich - PULST, Martin - KRESSLER, Joerg. Enhanced ion conductivity of poly(ethylene oxide)-based single ion conductors with lithium 1,2,3-triazolate end groups. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2019, vol. 136, no. 3, pp., Registrované v: WOS
3. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS
4. [1.1] ZIARANI, Ghodsi Mohammadi - ASADI, Shima - BADIEI, Alireza - SHARIFI, Amirhossein - AMANLOU, Massoud. Synthesis of Some Spiro Indeno[1,2-b]pyrido[2,3-d]Pyrimidine-5,3 '-Indolines as New Urease Inhibitors. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2016, vol. 15, no., pp. 55-63., Registrované v: WOS

ADCA1275 ŠIMÚTH, Jozef - BÍLIKOVÁ, Katarína - KOVÁČOVÁ, Elena -

KUZMOVÁ, Z. - SCHRODER, W. Immunochemical Approach to Detection of Adulteration in Honey: Physiologically Active Royal Jelly Protein Stimulating TNF-alpha Release is a Regular Component of Honey. In *Journal of agricultural and food chemistry*, 2004, vol. 52, p. 2154-2158. (2003: 2.102 - IF). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf034777y>

Ohlasy:

1. [1.1] BALKANSKA, Ralitsa - ZHELYAZKOVA, Ivanka. DETERMINATION OF AMINO ACIDS AND PROTEIN CONTENT IN FRESH AND COMMERCIAL ROYAL JELLY FROM BULGARIA. In BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA. ISSN 1011-3924, 2015, vol. 29, no. 3, pp. 485-490., Registrované v: WOS
2. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikuji - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS

3. [1.1] BOCIAN, Aleksandra - BUCZKOWICZ, Justyna - JAROMIN, Marcin - HUS, Konrad Kamil - LEGATH, Jaroslav. An Effective Method of Isolating Honey Proteins. In MOLECULES, 2019, vol. 24, no. 13, pp., Registrované v: WOS
4. [1.1] BRUDZYNSKI, Katrina - MALDONADO-ALVAREZ, Liset. Polyphenol-Protein Complexes and Their Consequences for the Redox Activity, Structure and Function of Honey. A Current View and New Hypothesis a Review. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2015, vol. 65, no. 2, pp. 71-80., Registrované v: WOS
5. [1.1] CEKSTERYTE, Violeta - BORUTINSKAITE, Veronika - MATUZEVICIUS, Dalius - TREIGYTE, Grazina - NAVAKAUSKAS, Dalius - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. Evaluation of Proteome Profiles of Salix spp. Pollen and Relationship Between Glucose Oxidase Activity and Pollen Content in Willow Honey. In BALTIC FORESTRY. ISSN 1392-1355, 2019, vol. 25, no. 1, pp. 83-96., Registrované v: WOS
6. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS
7. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
8. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - BISSON-ROWE, Liana - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Correlation of the immunostimulatory activities of honeys with their contents of identified bioactives. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 39-46., Registrované v: WOS
9. [1.1] HABASHY, N.H. - ABU-SERIE, M.M. The potential antiviral effect of major royal jelly protein2 and its isoform X1 against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Insight on their sialidase activity and molecular docking. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, DEC 2020, vol. 75., Registrované v: WOS
10. [1.1] HARVEY, Jeffrey A. - ESSENS, Tijn A. - LAS, Rutger A. - VAN VEEN, Cindy - VISSER, Bertanne - ELLERS, Jacintha - HEINEN, Robin - GOLS, Rieta. Honey and honey-based sugars partially affect reproductive trade-offs in parasitoids exhibiting different life-history and reproductive strategies. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2017, vol. 98, no., pp. 134-140., Registrované v: WOS
11. [1.1] CHUA, Lee Suan - LEE, Jun You - CHAN, Giek Far. Characterization of the Proteins in Honey. In ANALYTICAL LETTERS. ISSN 0003-2719, 2015, vol. 48, no. 4, pp. 697-709., Registrované v: WOS
12. [1.1] KAWAHATA, Ichiro - XU, Huinan - TAKAHASHI, Michiyo - MURATA, Kiyoshi - HAN, Wanying - YAMAGUCHI, Yoshihisa - FUJII, Akira - YAMAGUCHI, Kikuji - YAMAKUNI, Tohru. Royal jelly coordinately enhances hippocampal neuronal expression of somatostatin and neprilysin genes conferring neuronal protection against toxic soluble amyloid-beta oligomers implicated in Alzheimer's disease pathogenesis. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 51, no., pp. 28-38., Registrované v: WOS

13. [1.1] LEWKOWSKI, Oleg - MURESAN, Carmen I. - DOBRITZSCH, Dirk - FUSZARD, Matthew - ERLER, Silvio. The Effect of Diet on the Composition and Stability of Proteins Secreted by Honey Bees in Honey. In INSECTS, 2019, vol. 10, no. 9, pp., Registrované v: WOS
14. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultrapformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
15. [1.1] LIU, Y. - YAN, L. - LI, Z. - HUANG, W. -F. - POKHREI, S. - LIU, X. - SU, S. Larva-mediated chalkbrood resistance-associated single nucleotide polymorphism markers in the honey bee *Apis mellifera*. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, JUN 2016, vol. 25, no. 3, p. 239-250., Registrované v: WOS
16. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS
17. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS
18. [1.1] NAILA, Aishath - FLINT, Steve H. - SULAIMAN, A. Z. - AJIT, Azilah - WEEDS, Zuben. Classical and novel approaches to the analysis of honey and detection of adulterants. In FOOD CONTROL. ISSN 0956-7135, 2018, vol. 90, no., pp. 152-165., Registrované v: WOS
19. [1.1] PARK, Min Ji - KIM, Bo Yeon - PARK, Hee Geun - DENG, Yijie - YOON, Hyung Joo - CHOI, Yong Soo - LEE, Kwang Sik - JIN, Byung Rae. Major royal jelly protein 2 acts as an antimicrobial agent and antioxidant in royal jelly. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 3, pp. 684-689., Registrované v: WOS
20. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
21. [1.1] SOARES, Sonia - AMARAL, Joana S. - OLIVEIRA, Maria Beatriz P. P. - MAFRA, Isabel. A Comprehensive Review on the Main Honey Authentication Issues: Production and Origin. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2017, vol. 16, no. 5, pp. 1072-1100., Registrované v: WOS
22. [1.1] SONG, Yue-Qin - MILNE, Richard I. - ZHOU, Hong-Xia - MA, Xue-Long - FANG, Jiang-Yu - ZHA, Hong-Guang. Floral nectar chitinase is a potential marker for monofloral honey botanical origin authentication: A case study from loquat (*Eriobotrya japonica* Lindl.). In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 282, no., pp. 76-83., Registrované v: WOS
23. [1.1] TAHERIANFARD, Mahnaz - JOKANI, Saiedeh Ahmadi - KHAKSAR, Zabihollah. Royal jelly can modulate behavioral and histomorphometrical disorders caused by Parkinson's disease in rats. In PHYSIOLOGY AND PHARMACOLOGY. ISSN 2476-5236, 2017, vol. 21, no.

- 2, pp. 120-128., Registrované v: WOS
24. [1.1] TAMAS-KRUMPE, O. - MARGAOAN, R. - BOBIS, O. - LATIU, C. - URCAN, A. - OGNEAN, L. NATURAL HONEY AS A POTENTIAL NUTRACEUTICAL SOURCE (REVIEW). In SCIENTIFIC PAPERS-SERIES D-ANIMAL SCIENCE. ISSN 2285-5750, 2020, vol. 63, no. 1, p. 106-115., Registrované v: WOS
25. [1.1] TAO WEN-TING - YUAN PING - GUO WEN-JUAN - LIU JIAN-EN. The Application of Quality Identification in Honey by Photoacoustic Spectroscopy. In SPECTROSCOPY AND SPECTRAL ANALYSIS. ISSN 1000-0593, 2015, vol. 35, no. 5, pp. 1177-1181., Registrované v: WOS
26. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
27. [1.1] WANG, X.Y. - DONG, J. - QIAO, J.T. - ZHANG, G.S. - ZHANG, H.C. Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, OCT 19 2020, vol. 59, no. 5, p. 1049-1060., Registrované v: WOS
28. [1.1] ZHANG, Shuang - SHAO, Qiqi - GENG, Haiyang - SU, Songkun. The effect of royal jelly on the growth of breast cancer in mice. In ONCOLOGY LETTERS. ISSN 1792-1074, 2017, vol. 14, no. 6, pp. 7615-7621., Registrované v: WOS
29. [1.1] ZHANG, Shuang - SHAO, Qiqi - SHEN, Zhenhuang - SU, Songkun. Immunomodulatory response of 4T1 murine breast cancer model to camellia royal jelly. In BIOMEDICAL RESEARCH-INDIA. ISSN 0970-938X, 2017, vol. 28, no. 3, pp. 1223-1230., Registrované v: WOS
30. [1.1] ZHANG, Yan-Zheng - CHEN, Yi-Fan - WU, Yu-Qi - SI, Juan-Juan - ZHANG, Cui-Ping - ZHENG, Huo-Qing - HU, Fu-Liang. Discrimination of the entomological origin of honey according to the secretions of the bee (*Apis cerana* or *Apis mellifera*). In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2019, vol. 116, no., pp. 362-369., Registrované v: WOS
31. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
32. [1.2] EL-GAYAR, Mona H. - ABOSHANAB, Khaled M. - ABOULWABA, Mohammad M. - HASSOUNA, Nadia A. Antivirulence and wound healing effects of royal jelly and garlic extract for the control of MRSA skin infections. In Wound Medicine. ISSN 2213-9095, 2016-06-01, 13, pp. 18-27., Registrované v: SCOPUS
33. [1.2] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Honeybee apisimin and plant arabinogalactans in honey costimulate monocytes. In Food

Chemistry. ISSN 03088146, 2015-02-01, 168, pp. 34-40., Registrované v: SCOPUS

34. [1.2] GU, Hyejung - SONG, In Bong - HAN, Hye Ju - LEE, Na Young - CHA, Ji Yun - SON, Yeon Kyong - KWON, Jungkee. Antioxidant activity of royal jelly hydrolysates obtained by enzymatic treatment. In Korean Journal for Food Science of Animal Resources. ISSN 12258563, 2018-02-01, 38, 1, pp. 135-142., Registrované v: SCOPUS

35. [1.2] Chemical composition of royal jelly. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 181-190., Registrované v: SCOPUS

36. [1.2] CHEN, Mei Lan - LIANG, Shi Jun - LEI, Ming - ZHAO, Ming Xia - WU, Jie - HE, Jin Zhe. Detecting starch syrup in adulterated honey via retention index. In Modern Food Science and Technology. ISSN 16739078, 2015-01-01, 31, 5, pp. 272-277., Registrované v: SCOPUS

37. [1.2] SANTOS-BUELGA, Celestino - GONZÁLEZ-PARAMÁS, Ana M. Chemical composition of honey. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 43-82., Registrované v: SCOPUS

38. [1.2] VIUDA-MARTOS, Manuel - PÉREZ-ALVAREZ, José A. - FERNÁNDEZ-LÓPEZ, Juana. Royal jelly: Health benefits and uses in medicine. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 199-218., Registrované v: SCOPUS

39. [1.2] XIN, Xiao-xuan - CHEN, Yong - CHEN, Di - XIAO, Fa - PARNELL, Laurence D. - ZHAO, Jing - LIU, Liang - ORDOVAS, Jose M. - LAI, Chao-Qiang - SHEN, Li-rong. Supplementation with Major Royal-Jelly Proteins Increases Lifespan, Feeding, and Fecundity in Drosophila. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 29, pp. 5803-5812., Registrované v: WOS

ADCA1276 ŠIMÚTH, Jozef - TRNOVSKÝ, J. - JELOKOVÁ, J. Inhibition of bacterial DNA-dependent RNA-polymerases and restriction endonuclease by UV-absorbing components from propolis. In *Pharmazie*, 1986, vol. 41, p. 131-132. ISSN 0031-7144.

Ohlasy:

1. [1.2] KALVANDI, Rozita - DARVISHI, Shoaleh - DAVARI, Kambiz. Evaluation of antibacterial properties of ethanol and oil extracts of propolis in kurdistan province, on staphylococcus epidermidis, streptococcus mutans and entrobacter aerogenes persian. In Scientific Journal of Kurdistan University of Medical Sciences. ISSN 1560652X, 2016-01-01, 21, 2, pp. 85-93., Registrované v: SCOPUS

2. [3.2] BENHANIFIA, M.; MOHAMED, W. M. Phenolics Constituents of Different Types of Propolis and their Antimicrobial Activities. IN Anti-Infective Agents, 2015, vol. 13, iss. 1, p. 17-27., Registrované v: BIOSIS Citation Index

ADCA1277 ŠIMÚTH, Jozef. Some properties of the main protein of honeybee (*Apis mellifera*) royal jelly. In *Apidologie*, 2001, vol. 32, p. 69-80. ISSN 0044-8435.

Ohlasy:

1. [1.1] ALTAYE, Solomon Zewdu - MENG, Lifeng - LU, Yao - LI, Jianke. The Emerging Proteomic Research Facilitates in-Depth Understanding of the Biology of Honeybees. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 17, pp., Registrované v: WOS

2. [1.1] BILAL, Bushra - AZIM, M. Kamran. Nematicidal activity of 'major royal jelly protein'-containing glycoproteins from Acacia honey. In EXPERIMENTAL PARASITOLOGY. ISSN 0014-4894, 2018, vol. 192, no., pp. 52-59., Registrované v: WOS
3. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikuji - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS
4. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. Proteomic identification and enzymatic activity of buckwheat (*Fagopyrum esculentum*) honey based on different assays. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2018, vol. 57, no. 1, pp. 57-69., Registrované v: WOS
5. [1.1] BRUDZYNSKI, Katrina - MALDONADO-ALVAREZ, Liset. Polyphenol-Protein Complexes and Their Consequences for the Redox Activity, Structure and Function of Honey. A Current View and New Hypothesis a Review. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2015, vol. 65, no. 2, pp. 71-80., Registrované v: WOS
6. [1.1] BUCEKOVA, Marcela - MAJTAN, Juraj. The MRJP1 honey glycoprotein does not contribute to the overall antibacterial activity of natural honey. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2016, vol. 242, no. 4, pp. 625-629., Registrované v: WOS
7. [1.1] BUTTSTEDT, Anja - MURESAN, Carmen I. - LILIE, Hauke - HAUSE, Gerd - IHLING, Christian H. - SCHULZE, Stefan-H. - PIETZSCH, Markus - MORITZ, Robin F. A. How Honeybees Defy Gravity with Royal Jelly to Raise Queens. In CURRENT BIOLOGY. ISSN 0960-9822, 2018, vol. 28, no. 7, pp. 1095-+, Registrované v: WOS
8. [1.1] DEGRANDI-HOFFMAN, Gloria - GAGE, Stephanie L. - CORBY-HARRIS, Vanessa - CARROLL, Mark - CHAMBERS, Mona - GRAHAM, Henry - DEJONG, Emily Watkins - HIDALGO, Geoffrey - CALLE, Samantha - AZZOUZ-OLDEN, Farida - MEADOR, Charlotte - SNYDER, Lucy - ZIOLKOWSKI, Nick. Connecting the nutrient composition of seasonal pollens with changing nutritional needs of honey bee (*Apis mellifera* L.) colonies. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2018, vol. 109, no., pp. 114-124., Registrované v: WOS
9. [1.1] FRATINI, Filippo - CILIA, Giovanni - MANCINI, Simone - FELICOLI, Antonio. Royal Jelly: An ancient remedy with remarkable antibacterial properties. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2016, vol. 192, no., pp. 130-141., Registrované v: WOS
10. [1.1] FURUSAWA, Takako - ARAI, Yasuko - KATO, Kenji - ICHIHARA, Kenji. Quantitative Analysis of Apisin, a Major Protein Unique to Royal Jelly. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2016, vol., no., pp., Registrované v: WOS
11. [1.1] HOSSEN, Md. Sakib - NAHAR, Taebun - GAN, Siew Hua - KHALIL, Md. Ibrahim. Bioinformatics and Therapeutic Insights on Proteins in Royal Jelly. In CURRENT PROTEOMICS. ISSN 1570-1646, 2019, vol. 16, no.

2, pp. 84-101., Registrované v: WOS

12. [1.1] CHEN, Di - XIN, Xiao-xuan - QIAN, Hao-cheng - YU, Zhang-yin - SHEN, Li-rong. Evaluation of the major royal jelly proteins as an alternative to fetal bovine serum in culturing human cell lines. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2016, vol. 17, no. 6, pp. 476-483., Registrované v: WOS

13. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultrapformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS

14. [1.1] MAGHSOUDLOU, Atefe - MAHOONAK, Alireza Sadeghi - MOHEBODINI, Hossein - TOLDRA, Fidel. ROYAL JELLY: CHEMISTRY, STORAGE AND BIOACTIVITIES. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, 2019, vol. 63, no. 1, pp. 17-40., Registrované v: WOS

15. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In PLOS ONE. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS

16. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS

17. [1.1] MURESAN, Carmen - BUTTSTEDT, Anja. pH-dependent stability of honey bee (*Apis mellifera*) major royal jelly proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

18. [1.1] NONOTTE-VARLY, C. Sensitization to proteins of ivy (*Hedera helix*) bee pollen among people allergic to airborne pollens? An in vivo pilot study. In REVUE FRANCAISE D ALLERGOLOGIE. ISSN 1877-0320, 2016, vol. 56, no. 2, pp. 100-101., Registrované v: WOS

19. [1.1] PARK, Hee Geun - KIM, Bo Yeon - PARK, Min Ji - DENG, Yijie - CHOI, Yong Soo - LEE, Kwang Sik - JIN, Byung Rae. Antibacterial activity of major royal jelly proteins of the honeybee (*Apis mellifera*) royal jelly. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2019, vol. 22, no. 3, pp. 737-741., Registrované v: WOS

20. [1.1] PETELIN, Ana - KENIG, Sasa - KOPINC, Rok - DEZELAK, Matjaz - BIZJAK, Masa Cernelic - PRAZNIKAR, Zala Jenko. Effects of Royal Jelly Administration on Lipid Profile, Satiety, Inflammation, and Antioxidant Capacity in Asymptomatic Overweight Adults. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2019, vol. 2019, no., pp., Registrované v: WOS

21. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

22. [1.1] SHEN, Li-rong - WANG, Yi-ran - ZHAI, Liang - ZHOU, Wen-xiu - TAN, Liang-liang - LI, Mei-lu - LIU, Dan-dan - XIAO, Fa. Determination of royal jelly freshness by ELISA with a highly specific

- anti-apalbumin 1, major royal jelly protein 1 antibody. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2015, vol. 16, no. 2, pp. 155-166., Registrované v: WOS
23. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
24. [1.1] WANG, Ying - MA, Lanting - ZHANG, Weixing - CUI, Xuepei - WANG, Hongfang - XU, Baohua. Comparison of the nutrient composition of royal jelly and worker jelly of honey bees (*Apis mellifera*). In APIDOLOGIE. ISSN 0044-8435, 2016, vol. 47, no. 1, pp. 48-56., Registrované v: WOS
25. [1.1] XIN, Xiao-xuan - CHEN, Yong - CHEN, Di - XIAO, Fa - PARNELL, Laurence D. - ZHAO, Jing - LIU, Liang - ORDOVAS, Jose M. - LAI, Chao-Qiang - SHEN, Li-rong. Supplementation with Major Royal-Jelly Proteins Increases Lifespan, Feeding, and Fecundity in *Drosophila*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 29, pp. 5803-5812., Registrované v: WOS
26. [1.1] YANG, Wenchao - TIAN, Yuanyuan - HAN, Mingfeng - MIAO, Xiaoqing. Longevity extension of worker honey bees (*Apis mellifera*) by royal jelly: optimal dose and active ingredient. In PEERJ. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
27. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
28. [1.2] HADI, Roaa F. - TAIMOOZ, Sulaf Hamid. Effect of aquatic extract of chili pepper and honey extracts on fungus isolated from muscadomestica and some patients. In Plant Archives. ISSN 09725210, 2018-01-01, 18, 1, pp. 775-780., Registrované v: SCOPUS
29. [1.2] HAN, Sang Mi - KIM, Jung Min - HONG, In Phyo - WOO, Soon Ok - KIM, Se Gun - JANG, Hye Ri - PARK, Kwan Kyu - PAK, Sok Cheon. Whitening effect of watersoluble royal jelly from South Korea. In Korean Journal for Food Science of Animal Resources. ISSN 12258563, 2015-01-01, 35, 5, pp. 707-713., Registrované v: SCOPUS
30. [1.2] MESAIK, M. Ahmed - DASTAGIR, Nida - UDDIN, Nazim - REHMAN, Khalid - AZIM, M. Kamran. Characterization of immunomodulatory activities of honey glycoproteins and glycopeptides. In Journal of Agricultural and Food Chemistry. ISSN 00218561, 2015-01-14, 63, 1, pp. 177-184., Registrované v: SCOPUS
31. [1.2] WEI, Yue - CHEN, Fang - XUE, Xiaofeng - CAO, Weirui - WU, Liming. The change of furfural compounds contents of royal jelly during storage. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2016-10-30, 16, 10, pp. 222-227., Registrované v: SCOPUS
32. [3.2] ALRESHOODI, F. M.; SULTANBAWA, Y. Antimicrobial

Activity of Royal Jelly. IN Anti-Infective Agents, 2015, vol. 13, iss. 1, p. 50-59.,
Registrované v: BIOSIS Citation Index

ADCA1278 ŠÍPOŠOVÁ, Kristína - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana -
VATEHOVÁ, Zuzana*. The effects of IBA on the composition of maize root cell
walls. In *Journal of Plant Physiology*, 2019, vol. 239, p. 10-17. (2018: 2.825 - IF,
Q1 - JCR, 1.096 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current
Contents). ISSN 0176-1617. Dostupné na:
<https://doi.org/10.1016/j.jplph.2019.04.004>

Ohlasy:

1. [1.1] DEMECSOVA, Lorian - ZELINOVA, Veronika -
LIPTAKOVA, Lubica - VALENTOVICOVA, Katarina - TAMAS, Ladislav.
Indole-3-butyric acid priming reduced cadmium toxicity in barley root tip via NO
generation and enhanced glutathione peroxidase activity. In *PLANTA*. ISSN
0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na:
<https://doi.org/10.1007/s00425-020-03451-w>, Registrované v: WOS
2. [1.1] HOU MING - HUO YAN - YANG XINHAN - HE
ZHICHENG. Chemical form and subcellular distribution of vanadium in corn
seedlings. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2020, vol. 153,
no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2019.104468>,
Registrované v: WOS
3. [1.1] KACZMAREK, Damian Krystian - KLEIBER, Tomasz - LIU
WENPING - NIEMCZAK, Michal - CHRZANOWSKI, Lukasz - PERNAK,
Juliusz. Transformation of Indole-3-butyric Acid into Ionic Liquids as a
Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators (vol
8, pg 1591, 2020). In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*.
ISSN 2168-0485, 2020, vol. 8, no. 11, pp. 4676-4676. Dostupné na:
<https://doi.org/10.1021/acssuschemeng.0c01782>, Registrované v: WOS
4. [1.1] KACZMAREK, Damian Krystian - KLEIBER, Tomasz - LIU
WENPING - NIEMCZAK, Michal - CHRZANOWSKI, Lukasz - PERNAK,
Juliusz. Transformation of Indole-3-butyric Acid into Ionic Liquids as a
Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators. In
ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485,
2020, vol. 8, no. 3, pp. 1591-1598. Dostupné na:
<https://doi.org/10.1021/acssuschemeng.9b06378>, Registrované v: WOS
5. [1.1] KHADR, Ahmed - WANG, Guang-Long - WANG, Ya-Hui -
ZHANG, Rong-Rong - WANG, Xin-Rui - XU, Zhi-Sheng - TIAN, Yong-Sheng -
XIONG, Ai-Sheng. Effects of auxin (indole-3-butyric acid) on growth
characteristics, lignification, and expression profiles of genes involved in lignin
biosynthesis in carrot taproot. In *PEERJ*. ISSN 2167-8359, 2020, vol. 8, no., pp.
Dostupné na: <https://doi.org/10.7717/peerj.10492>, Registrované v: WOS

ADCA1279 ŠKULTÉTY, Ludovít - TOMAN, Rudolf - PÄTOPRSTÝ, Vladimír. A
comparative study of lipopolysaccharides from two *Coxiella burnetii* strains
considered to be associated with acute and chronic Q fever. In *Carbohydrate
Polymers : scientific and technological aspects of industrially important
polysaccharides*, 1998, vol. 35, no. 3 - 4, p. 189 - 194. (1997: 0.956 - IF, Current
Contents - CCC). (1998 - Current Contents). ISSN 0144-8617.

Ohlasy:

1. [1.2] ABNAVE, Prasad - MURACCIOLE, Xavier - GHIGO, Eric.

Coxiella burnetii lipopolysaccharide: What do we know? In International Journal of Molecular Sciences. ISSN 16616596, 2017-12-01, 18, 12, pp., Registrované v: SCOPUS

ADCA1280 ŠMOGROVIČOVÁ, D. - DOMÉNY, Z. - GEMEINER, Peter - MALOVÍKOVÁ, Anna - ŠTURDÍK, E. Reactors for continuous primary beer fermentation using immobilized yeast. In *Biotechnology Techniques*, 1997, vol. 11, p. 261-264.

Ohlasy:

1. [1.1] LI, Sha - LI, Pan - FENG, Feng - LUO, Li-Xin. Microbial diversity and their roles in the vinegar fermentation process. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 12, pp. 4997-5024., Registrované v: WOS
2. [1.1] PIRES, Eduardo J. - TEIXEIRA, Jose A. - BRANYIK, Tomas - BRANDAO, Tiago - VICENTE, Antonio A. Continuous beer fermentation diacetyl as a villain. In *JOURNAL OF THE INSTITUTE OF BREWING*. ISSN 0046-9750, 2015, vol. 121, no. 1, pp. 55-61., Registrované v: WOS
3. [1.1] SANTEK, M. Ivancic - MISKULIN, E. - BELUHAN, S. - SANTEK, B. New Trends in the Ethanol Production as a Biofuel. In *KEMIJA U INDUSTRIJI-JOURNAL OF CHEMISTS AND CHEMICAL ENGINEERS*. ISSN 0022-9830, 2016, vol. 65, no. 1-2, pp. 25-38., Registrované v: WOS

ADCA1281 ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - MACH, Mojmir. Associating hyaluronan derivatives: a novel horizon in viscosupplementation of osteoarthritic joints. In *Chemistry & biodiversity*. - Zürich : Verlag Helvetica Chimica Acta : Wiley VCH Verlag, 2004, vol. 1, iss. 3, p. 468-472. (2004 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200490040>

Ohlasy:

1. [1.1] ALVAREZ-LORENZO, C. - GARCÍA-GONZÁLEZ, C.A. - CONCEIRO, A. Cyclodextrins as versatile building blocks for regenerative medicine. In *JOURNAL OF CONTROLLED RELEASE*. ISSN 0168-3659, 2017, vol. 268, p. 269-281., Registrované v: WOS
2. [1.1] NASCIMENTO, M.H.M. - AKKARI, A.C.S. - MARIANO, K.C.F. - BRAZ, A.S.K. - LOMBELLO, C.B. - DE ARAUJO, D.R. Cyclodextrin-Based Delivery Systems for Arthritic Diseases: From Development to Experimental Therapeutics. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2015, vol. 21, no. 33, p. 4907-4916., Registrované v: WOS
3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA1282

ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter - STERN, Robert. Contribution of oxidative-reductive reactions to high-molecular-weight hyaluronan catabolism. In *Chemistry & biodiversity*, 2005, vol. 2, no. 9, p.1242-1245. (2005 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200590094>

Ohlasy:

1. [1.1] BERGEMANN, C. - WALDNER, A.C. - EMMERT, S. - NEBE, J.B. The Hyaluronan Pericellular Coat and Cold Atmospheric Plasma Treatment of Cells. In *APPLIED SCIENCES-BASEL*. AUG 2020, vol. 10, no. 15., Registrované v: WOS
2. [1.1] SCHMAUS, A. - SLEEMAN, J.P. Hyaluronidase-1 expression promotes lung metastasis in syngeneic mouse tumor models without affecting accumulation of small hyaluronan oligosaccharides in tumor interstitial fluid. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2015, vol. 25, no. 3, p. 258-268., Registrované v: WOS
3. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS
4. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. *The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models*. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.
5. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
6. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1283

ŠOLTÉS, Ladislav - MENDICHI, Raniero - STEINER, Bohumil - ALFÖLDI, J. - SASINKOVÁ, Vlasta - BYSTRICKÝ, Slavomír - BALOG, K. - MACHOVÁ, Eva. Cyclodextrin derivative of hyaluronan. In *Carbohydrate Polymers*, 1999, vol. 39, p. 17-24. (1998: 1.129 - IF, Current Contents - CCC). (1999 - Current Contents). Dostupné na: [https://doi.org/10.1016/S0144-8617\(98\)00135-0](https://doi.org/10.1016/S0144-8617(98)00135-0)

Ohlasy:

1. [1.1] CHYTIL, M. - TROJAN, M. - KOVALENKO, A. Study on mutual interactions and electronic structures of hyaluronan with Lysine,

6-Aminocaproic acid and Arginine. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 142, p. 8-15., Registrované v: WOS

ADCA1284 ŠOLTÉS, Ladislav - KOGAN, Grigorij - STANKOVSKÁ, Monika - MENDICHI, Raniero - RYCHLÝ, Jozef - SCHILLER, Jürgen - GEMEINER, Peter. Degradation of high-molar-mass hyaluronan and characterization of fragments. In *Biomacromolecules*, 2007, vol. 8, p. 2697-2705. (2006: 3.664 - IF, Q1 - JCR, 1.868 - SJR, Q1 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/bm070309b>

Ohlasy:

1. [1.1] BAZMANDEH, A.Z. - MIRZAEI, E. - GHASEMI, Y. - KOUHBANANI, M.A.J. Hyaluronic acid coated electrospun chitosan-based nanofibers prepared by simultaneous stabilizing and coating. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 138, p. 403-411., Registrované v: WOS
2. [1.1] COWMAN, M.K. Hyaluronan and Hyaluronan Fragments. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY*, VOL 74. ISSN 0065-2318, 2017, vol. 74, p. 1-59., Registrované v: WOS
3. [1.1] DOLAN, E.B. - HOFMANN, B. - DE VAAL, M.H. - BELLAVIA, G. - STRAINO, S. - KOVAROVA, L. - PRAVDA, M. - VELEBNY, V. - DARO, D. - BRAUN, N. - MONAHAN, D.S. - LEVEY, R.E. - O'NEILL, H. - HINDERER, S. - GREENSMITH, R. - MONAGHAN, M.G. - SCHENKE-LAYLAND, K. - DOCKERY, P. - MURPHY, B.P. - KELLY, H.M. - WILDHIRT, S. - DUFFY, G.P. A bioresorbable biomaterial carrier and passive stabilization device to improve heart function post-myocardial infarction. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2019, vol. 103, art. no. 109751., Registrované v: WOS
4. [1.1] GUARISE, C. - BARBERA, C. - PAVAN, M. - PANFILO, S. - BENINATTO, R. - GALESSO, D. HA-based dermal filler: downstream process comparison, impurity quantitation by validated HPLC-MS analysis, and in vivo residence time study. In *JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS*. eISSN: 2280-8000, 2019, vol. 17, no. 3, art. no. 2280800019867075., Registrované v: WOS
5. [1.1] CHEN, H. - QIN, J. - HU, Y. Efficient Degradation of High-Molecular-Weight Hyaluronic Acid by a Combination of Ultrasound, Hydrogen Peroxide, and Copper Ion. In *MOLECULES*. ISSN 1420-3049, 2019, vol. 24, no. 3, art. no. 617., Registrované v: WOS
6. [1.1] CHEN, Z.W. - LIU, Z. - LI, Z.H. - JU, E.G. - GAO, N. - ZHOU, L. - REN, J.S. - QU, X.G. Upconversion nanoprobe for efficiently in vitro imaging reactive oxygen species and in vivo diagnosing rheumatoid arthritis. In *BIOMATERIALS*. ISSN 0142-9612, 2015, vol. 39, p. 15-22., Registrované v: WOS
7. [1.1] JONSSON, P. - ANTTI, H. - SPATH, F. - MELIN, B. - BJORKBLUM, B. Identification of Pre-Diagnostic Metabolic Patterns for Glioma Using Subset Analysis of Matched Repeated Time Points. In *CANCERS*. NOV 2020, vol. 12, no. 11., Registrované v: WOS
8. [1.1] MONSLOW, J. - GOVINDARAJU, P. - PURE, E. Hyaluronan - a functional and structural sweet spot in the tissue microenvironment. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2015, vol. 6, art. no. 231.,

Registrované v: WOS

9. [1.1] MULLER-LIERHEIM, W.G.K. Why Chain Length of Hyaluronan in Eye Drops Matters. In *DIAGNOSTICS*. AUG 2020, vol. 10, no. 8., Registrované v: WOS

10. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

11. [1.1] SEELBACH, R.J. - D'ESTE, M. - ALINI, M. - MATA, A. - EGLIN, D. Copper catalyst efficiency for the CuAAC synthesis of a poly(N-isopropylacrylamide) conjugated hyaluronan. In *CLINICAL HEMORHEOLOGY AND MICROCIRCULATION*. ISSN 1386-0291, 2015, vol. 60, no. 1, p. 25-37., Registrované v: WOS

12. [1.1] SNETKOV, P. - ZAKHAROVA, K. - MOROZKINA, S. - OLEKHNOVICH, R. - USPENSKAYA, M. Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer. In *POLYMERS*. AUG 2020, vol. 12, no. 8., Registrované v: WOS

13. [1.1] XU, L. - ZHAO, M. - GAO, W. - YANG, Y. - ZHANG, J.F. - PU, Y. - HE, B. Polymeric nanoparticles responsive to intracellular ROS for anticancer drug delivery. In *COLLOIDS AND SURFACES B-BIOINTERFACES*. ISSN 0927-7765, 2019, vol. 181, p. 252-260., Registrované v: WOS

14. [1.2] EBID, R. Hyaluronan and its function as an unspecific regulator of cell-bound receptors. In *MEDICAL HYPOTHESES*. ISSN 0306-9877, 2015, vol. 85, no. 3, p. 249-252., Registrované v: SCOPUS

15. [1.2] SELYANIN, M.A. - BOYKOV, P.Y. - KHABAROV, V.N. Hyaluronic acid: Preparation (Production), properties, application in biology and medicine. (Book) In *HYALURONIC ACID: PREPARATION (PRODUCTION), PROPERTIES, APPLICATION IN BIOLOGY AND MEDICINE*. John Wiley & Sons, 2015, p. 1-198. ISBN 978-111869592-0;978-111863379-3, Registrované v: SCOPUS

ADCA1285 ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - SCHILLER, Jürgen - STANKOVSKÁ, Monika - AMHOLD, Jürgen. Degradative action of reactive oxygen species on hyaluronan. In *Biomacromolecules* [seriál], 2006, vol. 7, no. 3, p. 659-668. (2005: 3.618 - IF, Q1 - JCR, 1.665 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/bm050867v>

Ohlasy:

1. [1.1] ANTENUCCI, S. - PANZELLA, L. - FARINA, H. - ORTENZI, M.A. - CANEVA, E. - MARTINOTTI, S. - RANZATO, E. - BURLANDO, B. - D'ISCHIA, M. - NAPOLITANO, A. - VEROTTA, L. Powering tyrosol antioxidant capacity and osteogenic activity by biocatalytic polymerization. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 4, p. 2993-3002., Registrované v: WOS

2. [1.1] BAUER, J. - ROTHLEY, M. - SCHMAUS, A. - QUAGLIATA, L. - EHRET, M. - BISKUP, M. - ORIAN-ROUSSEAU, V. - JACKSON, D.G. - PETTIS, R.J. - HARVEY, A. - BRASE, S. - THIELE, W. - SLEEMAN, J.P. TGF beta counteracts LYVE-1-mediated induction of lymphangiogenesis by

- small hyaluronan oligosaccharides. In JOURNAL OF MOLECULAR MEDICINE-JMM. ISSN 0946-2716, 2018, vol. 96, no. 2, p. 199-209., Registrované v: WOS
3. [1.1] BOHAUMILITZKY, L. - HUBER, A.K. - STORK, E.M. - WENGERT, S. - WOELFL, F. - BOEHM, H. A Trickster in disguise: Hyaluronan's ambivalent roles in the matrix. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2017, vol. 7, article number 242., Registrované v: WOS
4. [1.1] COLOMBARO, V. - JADOT, I. - DECLEVES, A.E. - VOISIN, V. - GIORDANO, L. - HABSCH, I. - FLAMION, B. - CARON, N. Hyaluronidase 1 and hyaluronidase 2 are required for renal hyaluronan turnover. In ACTA HISTOCHEMICA. ISSN 0065-1281, 2015, vol. 117, no. 1, p. 83-91., Registrované v: WOS
5. [1.1] DE MELO, B.A.G. - SANTANA, M.H.A. Structural Modifications and Solution Behavior of Hyaluronic Acid Degraded with High pH and Temperature. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 2, p. 424-436., Registrované v: WOS
6. [1.1] DE SOUZA, A.B. - CHAUD, M.V. - SANTANA, M.H.A. Hyaluronic acid behavior in oral administration and perspectives for nanotechnology-based formulations: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 222, art. no. 115001., Registrované v: WOS
7. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. - VERTUANI, S. Hyaluronic Acid in the Third Millennium. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701., Registrované v: WOS
8. [1.1] GALLO, N. - NASSER, H. - SALVATORE, L. - NATALI, M.L. - CAMPA, L. - MAHMOUD, M. - CAPOBIANCO, L. - SANNINO, A. - MADAGHIELE, M. Hyaluronic acid for advanced therapies: Promises and challenges. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2019, vol. 117, p. 134-147., Registrované v: WOS
9. [1.1] GEORGE, N. - GELLER, H.M. Extracellular matrix and traumatic brain injury. In JOURNAL OF NEUROSCIENCE RESEARCH. ISSN 0360-4012, 2018, vol. 96, no. 4, SI, p. 573-588., Registrované v: WOS
10. [1.1] GEORGIEV, T. Multimodal approach to intraarticular drug delivery in knee osteoarthritis. In RHEUMATOLOGY INTERNATIONAL. ISSN 0172-8172, NOV 2020, vol. 40, no. 11, p. 1763-1769., Registrované v: WOS
11. [1.1] GHOSH, S. - HOSELTON, S.A. - DORSAM, G.P. - SCHUH, J.M. Hyaluronan fragments as mediators of inflammation in allergic pulmonary disease. In IMMUNOBIOLOGY. ISSN 0171-2985, 2015, vol. 220, no. 5, p. 575-588., Registrované v: WOS
12. [1.1] HAMALAINEN, L. - KARKKAINEN, E. - TAKABE, P. - RAUHALA, L. - BART, G. - KARNA, R. - PASONEN-SEPPANEN, S. - OIKARI, S. - TAMMI, M.I. - TAMMI, R.H. Hyaluronan metabolism enhanced during epidermal differentiation is suppressed by vitamin C. In BRITISH JOURNAL OF DERMATOLOGY. ISSN 0007-0963, 2018, vol. 179, no. 3, p. 651-661., Registrované v: WOS
13. [1.1] HANKE-ROOS, M. - MESECK, G.R. - ROSENHAHN, A. Catch bond interaction allows cells to attach to strongly hydrated interfaces. In BIOINTERPHASES. ISSN 1934-8630, 2016, vol. 11, no. 1, p. 1-8, article number 018905., Registrované v: WOS

14. [1.1] HARDIN, J.A. - COBELLI, N. - SANTAMBROGIO, L. Consequences of metabolic and oxidative modifications of cartilage tissue. In NATURE REVIEWS RHEUMATOLOGY. ISSN 1759-4790, 2015, vol. 11, no. 9, p. 521-529., Registrované v: WOS
15. [1.1] HA, C.W. - PARK, Y.B. - CHOI, C.H. - KYUNG, H.S. - LEE, J.H. - YOO, J.D. - YOO, J.H. - CHOI, C.H. - KIM, C.W. - KIM, H.C. - OH, K.J. - BIN, S.I. - LEE, M.C. Efficacy and safety of single injection of cross-linked sodium hyaluronate vs. three injections of high molecular weight sodium hyaluronate for osteoarthritis of the knee: a double-blind, randomized, multi-center, non-inferiority study. In BMC MUSCULOSKELETAL DISORDERS. ISSN 1471-2474, 2017, vol. 18, article number 223., Registrované v: WOS
16. [1.1] HEO, J.H. - HEO, Y. - LEE, H.J. - KIM, M. - SHIN, H.Y. Topical anti-inflammatory and anti-oxidative effects of porcine placenta extracts on 2,4-dinitrochlorobenzene-induced contact dermatitis. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2018, vol. 18, art. no. 331., Registrované v: WOS
17. [1.1] HUANG, T.L. - YANG, C.H. - YANAI, G. - LIAO, J.Y. - SUMI, S. - YANG, K.C. Synergistic effect of l-ascorbic acid and hyaluronic acid on the expressions of matrix metalloproteinase-3 and-9 in human chondrocytes. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, 2018, vol. 106, no. 5, p. 1809-1817., Registrované v: WOS
18. [1.1] CHOI, Ki Young - HAN, Hwa Seung - LEE, Eun Sook - SHIN, Jung Min - ALMQUIST, Benjamin D. - LEE, Doo Sung - PARK, Jae Hyung. Hyaluronic Acid-Based Activatable Nanomaterials for Stimuli-Responsive Imaging and Therapeutics: Beyond CD44-Mediated Drug Delivery. In ADVANCED MATERIALS. ISSN 0935-9648, 2019, vol. 31, no. 34, art. no. 1803549., Registrované v: WOS
19. [1.1] JACKSON-WEAVER, O. - FRIEDMAN, J.K. - RODRIGUEZ, L.A. - HOOFF, M.A. - DRURY, R.H. - PACKER, J.T. - SMITH, A. - GUIDRY, C. - DUCHESNE, J.C. Hypoxia/reoxygenation decreases endothelial glycocalyx via reactive oxygen species and calcium signaling in a cellular model for shock. In JOURNAL OF TRAUMA AND ACUTE CARE SURGERY. ISSN 2163-0755, 2019, vol. 87, no. 5, p. 1070-1076., Registrované v: WOS
20. [1.1] KARAMANOS, N.K. - PIPERIGKOU, Z. - THEOCHARIS, A.D. - WATANABE, H. - FRANCHI, M. - BAUD, S. - BREZILLON, S. - GOTTE, M. - PASSI, A. - VIGETTI, D. - RICARD-BLUM, S. - SANDERSON, R.D. - NEILL, T. - IOZZO, R.V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, p. 9152-9232., Registrované v: WOS
21. [1.1] KAVASI, R.M. - BERDIAKI, A. - SPYRIDAKI, I. - CORSINI, E. - TSATSAKIS, A. - TZANAKAKIS, G. - NIKITOVIC, D. HA metabolism in skin homeostasis and inflammatory disease. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2017, vol. 101, p. 128-138., Registrované v: WOS
22. [1.1] KONG, X.Q. - CHENA, L. - YEA, P. - WANG, Z.M. - ZHANG, J.J. - YE, F. - CHEN, S.L. The role of HYAL2 in LSS-induced glycocalyx impairment and the PKA-mediated decrease in eNOS-Ser-633 phosphorylation and nitric oxide production. In MOLECULAR BIOLOGY OF

THE CELL. ISSN 1059-1524, 2016, vol. 27, no. 25, p. 3972-3979., Registrované v: WOS

23. [1.1] LALL, R.K. - SYED, D.N. - KHAN, M.I. - ADHAMI, V.M. - GONG, Y.S. - LUCEY, J.A. - MUKHTAR, H. Dietary flavonoid fisetin increases abundance of high-molecular-mass hyaluronan conferring resistance to prostate oncogenesis. In CARCINOGENESIS. ISSN 0143-3334, 2016, vol. 37, no. 9, p. 918-928., Registrované v: WOS

24. [1.1] LAZRAC, A. - SONG, W.F. - ZHOU, T. - AGGARWAL, S. - JILLING, T. - GARANTZIOTIS, S. - MATALON, S. Hyaluronan and halogen-induced airway hyperresponsiveness and lung injury. In ANNALS OF THE NEW YORK ACADEMY OF SCIENCES. ISSN 0077-8923, 2020, vol. 1479, no. 1, SI, p. 29-43., Registrované v: WOS

25. [1.1] LEE, F. - LIM, J. - REITHOFER, M.R. - LEE, S.S. - CHUNG, J.E. - HAUSER, C.A.E. - KURISAWA, M. Synthesis and bioactivity of a conjugate composed of green tea catechins and hyaluronic acid. In POLYMER CHEMISTRY. ISSN 1759-9954, 2015, vol. 6, no. 24, p. 4462-4472., Registrované v: WOS

26. [1.1] LEE, Y.L. - LIN, K.L. - CHUANG, S.M. - LEE, Y.C. - LU, M.C. - WU, B.N. - WU, W.J. - YUAN, S.S.F. - HO, W.T. - JUAN, Y.S. Elucidating mechanisms of bladder repair after hyaluronan instillation in ketamine-induced ulcerative cystitis in animal model. In AMERICAN JOURNAL OF PATHOLOGY. ISSN 0002-9440, 2017, vol. 187, no. 9, p. 1945-1959., Registrované v: WOS

27. [1.1] LIANG, J. - JIANG, D. - NOBLE, P.W. Hyaluronan as a therapeutic target in human diseases. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2016, vol. 97, p. 186-203., Registrované v: WOS

28. [1.1] LIAO, C. - HU, L. - LAN, C. HASHIMOTO'S THYROIDITIS ASSOCIATED WITH AN EXTRA-THYROIDAL TRIAD OF PRETIBIAL MYXEDEMA, OPHTHALMOPATHY, AND ACROPACHY. In JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS. ISSN 0393-974X, MAY-JUN 2020, vol. 34, no. 3, p. 1085-1090., Registrované v: WOS

29. [1.1] LIN, C.W. - LU, K.Y. - WANG, S.Y. - SUNG, H.W. - MI, F.L. CD44-specific nanoparticles for redox-triggered reactive oxygen species production and doxorubicin release. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2016, vol. 35, p. 280-292., Registrované v: WOS

30. [1.1] LIU, C.X. - BAE, K.H. - YAMASHITA, A. - CHUNG, J.E. - KURISAWA, M. Thiol-mediated synthesis of hyaluronic acid-epigallocatechin-3-O-gallate conjugates for the formation of injectable hydrogels with free radical scavenging property and degradation resistance. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 10, p. 3143-3155., Registrované v: WOS

31. [1.1] LORD, M.S. - FARRUGIA, B.L. - YAN, C.M.Y. - VASSIE, J.A. - WHITELOCK, J.M. Hyaluronan coated cerium oxide nanoparticles modulate CD44 and reactive oxygen species expression in human fibroblasts. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, 2016, vol. 104, no. 7, p. 1736-1746., Registrované v: WOS

32. [1.1] MARELLA, M. - JADIN, L. - KELLER, G.A. - SUGARMAN, B.J. - FROST, G.I. - SHEPARD, H.M. KIAA1199 expression and hyaluronan degradation colocalize in multiple sclerosis lesions. In GLYCOBIOLOGY. ISSN

- 0959-6658, 2018, vol. 28, no. 12, p. 958-967., Registrované v: WOS
33. [1.1] MENDE, M. - BEDNAREK, C. - WAWRYSZYN, M. - SAUTER, P. - BISKUP, M.B. - SCHEPERS, U. - BRASE, S. Chemical synthesis of glycosaminoglycans. In CHEMICAL REVIEWS. ISSN 0009-2665, 2016, vol. 116, no. 14, p. 8193-8255., Registrované v: WOS
34. [1.1] MISRA, S. - HASCALL, V.C. - MARKWALD, R.R. - GHATAK, S. Interactions between hyaluronan and its receptors (CD44, RHAMM) regulate the activities of inflammation and cancer. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2015, vol. 6, article number 201., Registrované v: WOS
35. [1.1] MORVAN, G. - VUILLEMIN, V. - GUERINI, H. Percutaneous treatment of radicular pain due to lumbar disc disease. In E-MEMOIRES DE L ACADEMIE NATIONALE DE CHIRURGIE. ISSN 1634-0647, 2016, vol. 15, no. 3, p. 36-41., Registrované v: WOS
36. [1.1] MULLER-LIERHEIM, W.G.K. Why Chain Length of Hyaluronan in Eye Drops Matters. In DIAGNOSTICS. AUG 2020, vol. 10, no. 8., Registrované v: WOS
37. [1.1] NANTARAT, N. - MUELLER, M. - LIN, W.C. - LUE, S.C. - VIERNSTEIN, H. - CHANSAKAOW, S. - SIRITHUNYALUG, J. - LEELAPORNPIPID, P. Sesaminol diglucoside isolated from black sesame seed cake and its antioxidant, anti-collagenase and anti-hyaluronidase activities. In FOOD BIOSCIENCE. ISSN 2212-4292, AUG 2020, vol. 36., Registrované v: WOS
38. [1.1] NASTASE, M.V. - JANICOVA, A. - WYGRECKA, M. - SCHAEFER, L. Signaling at the crossroads: Matrix-derived proteoglycan and reactive oxygen species signaling. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2017, vol. 27, no. 12, p. 855-873., Registrované v: WOS
39. [1.1] OKADA, Y. - MAETA, N. - NAKAYAMA, K. - KAMIYA, H. TiO₂ Photocatalysis in Aromatic "Redox Tag"-Guided Intermolecular Formal [2+2] Cycloadditions. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 9, p. 4948-4962., Registrované v: WOS
40. [1.1] PPAKONSTANTINO, E. - ROTH, M. - KLAGAS, I. - KARAKIULAKIS, G. - TAMM, M. - STOLZ, D. COPD Exacerbations Are Associated With Proinflammatory Degradation of Hyaluronic Acid. In CHEST. ISSN 0012-3692, 2015, vol. 148, no. 6, p. 1497-1507., Registrované v: WOS
41. [1.1] PARK, W. - BAE, B.C. - NA, K. A highly tumor-specific light-triggerable drug carrier responds to hypoxic tumor conditions for effective tumor treatment. In BIOMATERIALS. ISSN 0142-9612, 2016, vol. 77, p. 227-234., Registrované v: WOS
42. [1.1] PASSI, A. - VIGETTI, D. Hyaluronan as tunable drug delivery system. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2019, vol. 146, SI, p. 83-96., Registrované v: WOS
43. [1.1] PRIVAT-MALDONADO, A. - BENGTON, C. - RAZZOKOV, J. - SMITS, E. - BOGAERTS, A. Modifying the Tumour Microenvironment: Challenges and Future Perspectives for Anticancer Plasma Treatments. In CANCERS. eISSN: 2072-6694, 2019, vol. 11, no. 12, art. no. 1920., Registrované v: WOS
44. [1.1] RAO, N.V. - RHO, J.G. - UM, W. - EK, P.K. - NGUYEN, V.Q. - OH, B.H. - KIM, W. - PARK, J.H. Hyaluronic Acid Nanoparticles as

Nanomedicine for Treatment of Inflammatory Diseases. In PHARMACEUTICS. 2020, vol. 12, no. 10., Registrované v: WOS

45. [1.1] ROWLEY, J.E. - RUBENSTEIN, G.E. - MANUEL, S.L. - JOHNSON, N.L. - SURGNIER, J. - KAPITSINOU, P.P. - DUNCAN, F.E. - PRITCHARD, M.T. Tissue-specific Fixation Methods Are Required for Optimal In Situ Visualization of Hyaluronan in the Ovary, Kidney, and Liver. In JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY. ISSN 0022-1554, 2020, vol. 68, no. 1, p. 75-91., Registrované v: WOS

46. [1.1] SAPUDOM, J. - NGUYEN, K.T. - MARTIN, S. - WIPPOLD, T. - MOLLER, S. - SCHNABELRAUCH, M. - ANDEREGG, U. - POMPE, T. Biomimetic tissue models reveal the role of hyaluronan in melanoma proliferation and invasion. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 5, p. 1405-1417., Registrované v: WOS

47. [1.1] SAPUDOM, J. - ULLM, F. - MARTIN, S. - KALBITZER, L. - NAAB, J. - MOLLER, S. - SCHNABELRAUCH, M. - ANDEREGG, U. - SCHMIDT, S. - POMPE, T. Molecular weight specific impact of soluble and immobilized hyaluronan on CD44 expressing melanoma cells in 3D collagen matrices. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2017, vol. 50, p. 259-270., Registrované v: WOS

48. [1.1] SELEGARD, R. - ARONSSON, C. - BROMMESSON, C. - DANMARK, S. - AILI, D. Folding driven self-assembly of a stimuli-responsive peptide-hyaluronan hybrid hydrogel. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, article number 7013., Registrované v: WOS

49. [1.1] SEMMLER, M.L. - BEKESCHUS, S. - SCHAFER, M. - BERNHARDT, T. - FISCHER, T. - WITZKE, K. - SEEBAUER, C. - REBL, H. - GRAMBOW, E. - VOLLMAR, B. - NEBE, J.B. - METELMANN, H.R. - VON WOEDTKE, T. - EMMERT, S. - BOECKMANN, L. Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. In CANCERS. eISSN: 2072-6694, 2020, vol. 12, no. 2, art. no. 269., Registrované v: WOS

50. [1.1] SHIROKOVA, L. - NOSKOV, S. - GOROKHOVA, V. - REINECKE, J. - SHIROKOVA, K. Intra-Articular Injections of a Whole Blood Clot Secretome, Autologous Conditioned Serum, Have Superior Clinical and Biochemical Efficacy Over Platelet-Rich Plasma and Induce Rejuvenation-Associated Changes of Joint Metabolism: A Prospective, Controlled Open-Label Clinical Study in Chronic Knee Osteoarthritis. In REJUVENATION RESEARCH. ISSN 1549-1684, 2020, vol. 23, no. 5, p. 401-410., Registrované v: WOS

51. [1.1] SIEVE, I. - MUNSTER-KUHNEL, A.K. - HILFIKER-KLEINER, D. Regulation and function of endothelial glycocalyx layer in vascular diseases. In VASCULAR PHARMACOLOGY. ISSN 1537-1891, 2018, vol. 100, p. 26-33., Registrované v: WOS

52. [1.1] SORIA, F.N. - PAVIOLO, C. - DOUDNIKOFF, E. - AROTICARENA, M.L. - LEE, A. - DANNE, N. - MANDAL, A.K. - GOSSET, P. - DEHAY, B. - GROG, L. - COGNET, L. - BEZARD, E. Synucleinopathy alters nanoscale organization and diffusion in the brain extracellular space through hyaluronan remodeling. In NATURE COMMUNICATIONS. ISSN 2041-1723, JUL 10 2020, vol. 11, no. 1., Registrované v: WOS

53. [1.1] SRIVASTAVA, A. - SRIVASTAVA, A. - SRIVASTAVA, A. - CHANDRA, P. Marine biomaterials in therapeutics and diagnostics. (Book

- Chapter). In **SPRINGER HANDBOOK OF MARINE BIOTECHNOLOGY**. Springer Berlin Heidelberg, 2015, p. 1247-1263. ISBN 978-364253971-8;978-364253970-1, Registrované v: WOS
54. [1.1] TAKABE, P. - KARNA, R. - RAUHALA, L. - TAMMI, M. - TAMMI, R. - PASONEN-SEPPANEN, S. Melanocyte Hyaluronan Coat Fragmentation Enhances the UVB-Induced TLR-4 Receptor Signaling and Expression of Proinflammatory Mediators IL6, IL8, CXCL1, and CXCL10 via NF-kappa B Activation. In **JOURNAL OF INVESTIGATIVE DERMATOLOGY**. ISSN 0022-202X, 2019, vol. 139, no. 9, p. 1993-+, Registrované v: WOS
55. [1.1] TAMMI, M.I. - OIKARI, S. - PASONEN-SEPPANEN, S. - RILLA, K. - AUVINEN, P. - TAMMI, R.H. Activated hyaluronan metabolism in the tumor matrix - Causes and consequences. In **MATRIX BIOLOGY**. ISSN 0945-053X, 2019, vol. 78-79, no., pp. 147-164., Registrované v: WOS
56. [1.1] TAVIANATOU, A.G. - CAON, I. - FRANCHI, M. - PIPERIGKOU, Z. - GALESSO, D. - KARAMANOS, N.K. Hyaluronan: molecular size-dependent signaling and biological functions in inflammation and cancer. In **FEBS JOURNAL**. ISSN 1742-464X, 2019, vol. 286, no. 15, p. 2883-2908., Registrované v: WOS, WOS
57. [1.1] TOROK, N.J. Dysregulation of redox pathways in liver fibrosis. In **AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY**. ISSN 0193-1857, 2016, vol. 311, no. 4, p. G667-G674., Registrované v: WOS
58. [1.1] TOROPITSYN, E. - PRAVDA, M. - VELEBNY, V. A NEW HA-BASED HYDROGEL FOR VISCOSUPPLEMENTATION RESISTANT TO DEGRADATION BY ROS AND HYALURONIDASE. In **PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE**. ISSN 2336-6796, 2019, p. 175-179., Registrované v: WOS
59. [1.1] TRUONG, J.L. - LIU, M.H. - TOLG, C. - BARR, M. - DAI, C. - RAISSI, T.C. - WONG, E. - DELYZER, T. - YAZDANI, A. - TURLEY, E.A. Creating a Favorable Microenvironment for Fat Grafting in a Novel Model of Radiation-Induced Mammary Fat Pad Fibrosis. In **PLASTIC AND RECONSTRUCTIVE SURGERY**. ISSN 0032-1052, 2020, vol. 145, no. 1, p. 116-126., Registrované v: WOS
60. [1.1] TSENG, V. - NI, K. - ALLAWZI, A. - PROHASKA, C. - HERNANDEZ-LAGUNAS, L. - ELAJAILI, H. - CALI, V. - MIDURA, R. - HASCALL, V. - TRIGGS-RAINE, B. - PETRACHE, I. - HART, C.M. - NOZIK-GRAYCK, E. Extracellular Superoxide Dismutase Regulates Early Vascular Hyaluronan Remodeling in Hypoxic Pulmonary Hypertension. In **SCIENTIFIC REPORTS**. ISSN 2045-2322, JAN 14 2020, vol. 10, no. 1., Registrované v: WOS
61. [1.1] TSEPILOV, R.N. - BELODED, A.V. Hyaluronic Acid - an "Old" Molecule with "New" Functions: Biosynthesis and Depolymerization of Hyaluronic Acid in Bacteria and Vertebrate Tissues Including during Carcinogenesis. In **BIOCHEMISTRY-MOSCOW**. ISSN 0006-2979, 2015, vol. 80, no. 9, p. 1093-1108. In **BIOCHEMISTRY (MOSCOW)**. ISSN 0320-9725, 2015, vol. 80, no. 9, p. 1315-1333., Registrované v: WOS
62. [1.1] VASILESCU, A. - GHEORGHIU, M. - PETEU, S. Nanomaterial-based electrochemical sensors and optical probes for detection and

- imaging of peroxynitrite: a review. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 3, p. 649-675., Registrované v: WOS
63. [1.1] VEITH, A.P. - HENDERSON, K. - SPENCER, A. - UNIVER, A.D.O.B.E. - BAKER, A.B. Therapeutic strategies for enhancing angiogenesis in wound healing. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, 2019, vol. 146, SI, p. 97-125., Registrované v: WOS
64. [1.1] VIOLA, M. - VIGETTI, D. - KAROUSOU, E. - D'ANGELO, M.L. - CAON, I. - MORETTO, P. - DE LUCA, G. - PASSI, A. Biology and biotechnology of hyaluronan. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2015, vol. 32, no. 3-4, p. 93-103., Registrované v: WOS
65. [1.1] WANG, G.Q. - TIEMEIER, G.L. - VAN DEN BERG, B.M. - RABELINK, T.J. Endothelial Glycocalyx Hyaluronan Regulation and Role in Prevention of Diabetic Complications. In AMERICAN JOURNAL OF PATHOLOGY. ISSN 0002-9440, 2020, vol. 190, no. 4, p. 781-790., Registrované v: WOS
66. [1.1] WEBER, G.C. - BUHREN, B.A. - SCHRUMPF, H. - WOHLRAB, J. - GERBER, P.A. Clinical Applications of Hyaluronidase. In THERAPEUTIC ENZYMES: FUNCTION AND CLINICAL IMPLICATIONS. ISSN 0065-2598, 2019, vol. 1148, p. 255-277., Registrované v: WOS
67. [1.1] WOO, Y.K. - PARK, J. - RYU, J.H. - CHO, H.J. The anti-inflammatory and anti-apoptotic effects of advanced anti-inflammation composition (AAIC) in heat shock-induced human HaCaT keratinocytes. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, AUG 2020, vol. 19, no. 8, p. 2114-2124., Registrované v: WOS
68. [1.1] XU, L. - ZHAO, M. - ZHANG, H. - GAO, W. - GUO, Z. - ZHANG, X. - ZHANG, J. - CAO, J. - PU, Y. - HE, B. Cinnamaldehyde-Based Poly(ester-thioacetal) To Generate Reactive Oxygen Species for Fabricating Reactive Oxygen Species-Responsive Nanoparticles. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 12, p. 4658-4667., Registrované v: WOS
69. [1.1] ZERBINATI, N. - ESPOSITO, C. - CIPOLLA, G. - CALLIGARO, A. - MONTICELLI, D. - MARTINA, V. - GOLUBOVIC, M. - BINIC, I. - SIGOVA, J. - GALLO, A.L. - D'ESTE, E. - JAFFERANY, M. - PRATOSONI, M. - TIRANT, M. - THUONG, N.V. - SANGALLI, F. - RAUSO, R. - LOTTI, T. Chemical and mechanical characterization of hyaluronic acid hydrogel cross-linked with polyethylen glycol and its use in dermatology. In DERMATOLOGIC THERAPY. ISSN 1396-0296, JUL 2020, vol. 33, no. 4., Registrované v: WOS
70. [1.1] ZHANG, Junjie - KONG, Xiangquan - WANG, Zhimei - GAO, Xiaofei - GE, Zhen - GU, Yue - YE, Peng - CHAO, Yuelin - ZHU, Linlin - LI, Xiaobo - CHEN, Shaoliang. AMP-activated protein kinase regulates glycocalyx impairment and macrophage recruitment in response to low shear stress. In FASEB JOURNAL. ISSN 0892-6638, 2019, vol. 33, no. 6, p. 7202-7212., Registrované v: WOS
71. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. - GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. - TROMBETTA, M. Hyaluronan: An overview. In JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS. ISSN 0393-974X, E-ISSN 1724-6083, 2017, vol. 31, no. 4, p. 9-22., Registrované v: SCOPUS

72. [1.2] CYPHERT, J.M. - TREMPUS, C.S. - GARANTZIOTIS, S. Size Matters: Molecular Weight Specificity of Hyaluronan Effects in Cell Biology. In INTERNATIONAL JOURNAL OF CELL BIOLOGY. ISSN 1687-8876, 2015, vol. 2015, article number 563818., Registrované v: SCOPUS
73. [1.2] DE LA LUZ CÁDIZ GURREA, M. - PARDO, E.A. - ROMÁN, D.A. - ARROYO, S.F. - MOLINA, V.M. - ROCHE, E. - CARRETERO, A.S. Bioactive compounds from lippia citriodora: Application in diseases prevention. (Book Chapter) In OCCURRENCES, STRUCTURE, BIOSYNTHESIS, AND HEALTH BENEFITS BASED ON THEIR EVIDENCES OF MEDICINAL PHYTOCHEMICALS IN VEGETABLES AND FRUITS. Nova Science Publish., 2017, vol. 7, p. 183-220. ISBN: 978-153612005-9;978-153611982-4, Registrované v: SCOPUS
74. [1.2] HALAKE, K. - LEE, J. Functional hyaluronic acid conjugates based on natural polyphenols exhibit antioxidant, adhesive, gelation, and self-healing properties. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2017, vol. 54, p. 44-51., Registrované v: SCOPUS
75. [1.2] LANG, R. - BAUMANN, P. - SCHMOOR, C. - ODERMATT, E.K. - WENTE, M.N. - JAUCH, K.W. A-Part Gel, an adhesion prophylaxis for abdominal surgery: A randomized controlled phase I-II safety study [NCT00646412]. In ANNALS OF SURGICAL INNOVATION AND RESEARCH. ISSN 1750-1164, 2015, vol. 9, no. 1, article number 5., Registrované v: SCOPUS
76. [1.2] MAGNO, Valentina - MEINHARDT, Andrea - WERNER, Carsten. Polymer Hydrogels to Guide Organotypic and Organoid Cultures. In Advanced Functional Materials. ISSN 1616301X, 2020-11-01, 30, 48, pp., Registrované v: SCOPUS
77. [1.2] PAINULI, R. - RAGHAV, S. - KUMAR, D. Biopolymers: Structure, features and applications. (Book Chapter). In BIOPOLYMERS: STRUCTURE, PERFORMANCE AND APPLICATIONS. Nova Science Publish., 2017, p. 247-270. ISBN 978-153611885-8;978-153611846-9, Registrované v: SCOPUS
78. [1.2] SVOLACCHIA, F. - SVOLACCHIA, L. Adult Mesenchymal Stem Cells (MSCa) derived from adipose tissue (ADSCa) in a scaffold of free hyaluronic acid in the regeneration of peri-ocular tissues. In Journal of Applied Cosmetology. ISSN 03928543, 2019-07-01, 37, 2, pp., Registrované v: SCOPUS
79. [1.2] TAMRAZOVA, Ol'Ga Borisovna. Skin xerosis: Symptom, syndrome or disease? In KLINICHESKAYA DERMATOLOGIYA I VENEROLOGIYA. ISSN 1997-2849, 2019, vol. 18, no. 2, p. 193-202., Registrované v: SCOPUS
80. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
81. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple

Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

82. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

83. [3.2] MESHKOVA, O.A. - BOGDANOV, D.Yu. - MATVEEV, N.L. - KURGANOV, I.A. Application of modern antiadhesive agents in surgery. In ENDOSKOPICHESKAYA KHIRURGIYA. ISSN 1025-7209, 2015, vol. 21, no. 3, p. 37-42., Registrované v: Russian Science Citation Index

ADCA1286 ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - MENDICHI, Raniero - VOLPI, Nikola - SASINKOVÁ, Vlasta - GEMEINER, Peter. Degradation of high-molar-mass hyaluronan by an oxidative system comprising ascorbate, Cu(II), and hydrogen peroxide: inhibitory action of antiinflammatory drugs - naproxen and acetylsalicylic acid. In *Journal of Pharmaceutical and Biomedical Analysis*, 2007, vol. 44, p. 1056-1063. (2006: 2.032 - IF, Q2 - JCR, 1.010 - SJR, Q1 - SJR). ISSN 0731-7085. Dostupné na: <https://doi.org/10.1016/j.jpba.2007.04.037>

Ohlasy:

1. [1.1] COWMAN, M.K. Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, p. 1-59., Registrované v: WOS

2. [1.1] CHEN, H. - QIN, J. - HU, Y. Efficient Degradation of High-Molecular-Weight Hyaluronic Acid by a Combination of Ultrasound, Hydrogen Peroxide, and Copper Ion. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 3, art. no. 617., Registrované v: WOS

3. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

ADCA1287 ŠOLTÉS, Ladislav - BREZOVÁ, Vlasta - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter. Degradation of high-molecular-weight hyaluronan by hydrogen peroxide in the presence of cupric ions. In *Carbohydrate Research*, 2006, vol. 341, no. 5, p. 639 - 644. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.01.014>

Ohlasy:

1. [1.1] AN, S. - JEON, E.J. - JEON, J. - CHO, S.W. A serotonin-modified hyaluronic acid hydrogel for multifunctional hemostatic adhesives inspired by a platelet coagulation mediator. In MATERIALS HORIZONS. ISSN 2051-6347, 2019, vol. 6, no. 6, pp. 1169-1178., Registrované v: WOS

2. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS

3. [1.1] DIPPONG, T. - TOLOMAN, D. - LEVEI, E.A. - CADAR, O. - MESAROS, A. A possible formation mechanism and photocatalytic properties of

- CoFe₂O₄/PVA-SiO₂ nanocomposites. In THERMOCHIMICA ACTA. ISSN 0040-6031, 2018, vol. 666, p. 103-115., Registrované v: WOS
4. [1.1] EBID, R. Hyaluronan and its function as an unspecific regulator of cell-bound receptors. In MEDICAL HYPOTHESES. ISSN 0306-9877, 2015, vol. 85, no. 3, p. 249-252., Registrované v: WOS
 5. [1.1] CHEN, H. - QIN, J. - HU, Y. Efficient Degradation of High-Molecular-Weight Hyaluronic Acid by a Combination of Ultrasound, Hydrogen Peroxide, and Copper Ion. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 3, art. no. 617., Registrované v: WOS
 6. [1.1] CHEN, S.J. - CHEN, H. - GAO, R.C. - LI, L.H. - YANG, X.Q. - WU, Y.Y. - HU, X. Degradation of hyaluronic acid derived from tilapia eyeballs by a combinatorial method of microwave, hydrogen peroxide, and ascorbic acid. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 112, p. 117-121., Registrované v: WOS
 7. [1.1] JOMOVA, K. - LAWSON, M. - DROSTINOVA, L. - LAURO, P. - POPRAC, P. - BREZOVA, V. - MICHALIK, M. - LUKES, V. - VALKO, M. Protective role of quercetin against copper(II)-induced oxidative stress: A spectroscopic, theoretical and DNA damage study. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2017, vol. 110, p. 340-350., Registrované v: WOS
 8. [1.1] JOZEFIKOVA, Flora - PERONTSIS, Spyros - SIMUNKOVA, Miriama - BARBIERIKOVA, Zuzana - SVORC, L'ubomir - VALKO, Marian - PSOMAS, George - MONCOL, Jan. Novel copper(II) complexes with fenamates and isonicotinamide: structure and properties, and interactions with DNA and serum albumin. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, AUG 7 2020, vol. 44, no. 29, p. 12827-12842., Registrované v: WOS
 9. [1.1] KHAKINA, E.A. - KRAEVAYA, O.A. - POPOVA, M.L. - PEREGUDOV, A.S. - TROYANOV, S.I. - CHERNYAK, A.V. - MARTYNENKO, V.M. - KULIKOV, A.V. - SCHOLS, D. - TROSHIN, P.A. Synthesis of different types of alkoxy fullerene derivatives from chlorofullerene C₆₀Cl₁₆. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 4, p. 773-777., Registrované v: WOS
 10. [1.1] POPA, A. - STEFAN, M. - TOLOMAN, D. - PANA, O. - MESAROS, A. - LEOSTEAN, C. - MACAVEI, S. - MARINCAS, O. - SUCIU, R. - BARBU-TUDORAN, L. Fe₃O₄-TiO₂: Gd nanoparticles with enhanced photocatalytic activity and magnetic recyclability. In POWDER TECHNOLOGY. ISSN 0032-5910, 2018, vol. 325, p. 441-451., Registrované v: WOS
 11. [1.1] SIMULESCU, V. - MONDEK, J. - KALINA, M. - PEKAR, M. Kinetics of long-term degradation of different molar mass hyaluronan solutions studied by SEC-MALLS. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2015, vol. 111, p. 257-262., Registrované v: WOS
 12. [1.1] TOLOMAN, D. - POPA, A. - STEFAN, M. - PANA, O. - SILIPAS, T.D. - MACAVEI, S. - BARBU-TUDORAN, L. Impact of Gd ions from the lattice of TiO₂ nanoparticles on the formation of reactive oxygen species during the degradation of RhB under visible light irradiation. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, 2017, vol. 71, p. 61-68., Registrované v: WOS
 13. [1.1] TOLOMAN, D. - POPA, A. - STEFAN, M. - SILIPAS, T.D. - SUCIU, R.C. - BARBU-TUDORAN, L. - PANA, O. Enhanced photocatalytic

activity of Co doped SnO₂ nanoparticles by controlling the oxygen vacancy states. In OPTICAL MATERIALS. ISSN 0925-3467, DEC 2020, vol. 110., Registrované v: WOS

14. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. Preliminary high performance capillary electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

15. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

16. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.

17. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

18. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1288 ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - BREZOVÁ, Vlasta - SCHILLER, Jürgen - ARNHOLD, Juergen - KOGAN, Grigorij - GEMEINER, Peter. Hyaluronan degradation by copper(II) chloride and ascorbate: rotational viscometric, EPR spin-trapping, and MALDI-TOF mass spectrometric investigations. In *Carbohydrate Research*, 2006, vol. 341, no. 17, p. 2826-2834. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.09.019>

Ohlasy:

1. [1.1] COWMAN, M.K. Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS

2. [1.1] CHEN, X. - RICHTER, R.P. Effect of calcium ions and pH on the morphology and mechanical properties of hyaluronan brushes. In INTERFACE FOCUS. ISSN 2042-8898, 2019, vol. 9, no. 2, art. no. 20180061., Registrované v: WOS

3. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In

FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

4. [1.1] URBANIAK, B.- PLEWA, S. - KOKOT, Z.J. Preliminary high performance capillary electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

5. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

6. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

7. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA1289 ŠOLTÉS, Ladislav - MISLOVIČOVÁ, Danica - SÉBILLE, Bernard. Insight into the distribution of molecular weights and higher-order structure of hyaluronans and some D-(1,3)-glucans by size exclusion chromatography. In *Biomedical Chromatography*, 1996, vol. 10, no. 2, p. 53-59. (1995: 0.861 - IF, Current Contents - CCC). (1996 - Current Contents).

Ohlasy:

1. [1.1] DU, J.P. - FU, F.Z. - SHI, X.Y. - YIN, Z.N. Controlled release of a model protein drug ovalbumin from thiolated hyaluronic acid matrix. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2015, vol. 30, part A, p. 74-81., Registrované v: WOS

2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

ADCA1290 ŠOLTÉS, Ladislav - VALACHOVÁ, Katarína - MENDICHI, Raniero - KOGAN, Grigorij - ARNHOLD, Juergen - GEMEINER, Peter. Solution properties of high-molar-mass hyaluronans: the biopolymer degradation by ascorbate. In *Carbohydrate Research*, 2007, vol. 342, p.1071-1077. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.02.018>

Ohlasy:

1. [1.1] BORKE, T. - NAJBERG, M. - ILINA, P. - BHATTACHARYA, M. - URTTI, A. - TENHU, H. - HIETALA, S. Hyaluronic Acid Graft

- Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2018, vol. 18, no. 1, SI., art. no. 1700200., Registrované v: WOS
2. [1.1] MUELLER-LIERHEIM, Wolfgang G. K. Why Chain Length of Hyaluronan in Eye Drops Matters. In DIAGNOSTICS. AUG 2020, vol. 10, no. 8., Registrované v: WOS
3. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS
4. [1.2] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5., Registrované v: SCOPUS
5. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
6. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1291 ŠORAL, Michal - MARKUS, Jozef - DOHÁŇŠOVÁ, Jana - ŠORALOVÁ, Stanislava - DVORANOVÁ, Dana - CHYBA, Andrej - MONCOL, Ján - BERKEŠ, Dušan - LIPTAJ, Tibor. An unexpected reaction pathway in the synthesis of the ABCE framework of strychnine-type alkaloids – A multidisciplinary study. In *Journal of Molecular Structure*, 2017, vol. 1128, p. 230-238. (2016: 1.753 - IF, Q3 - JCR, 0.410 - SJR, Q3 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2016.08.014>

Ohlasy:

1. [1.1] COX, Joshua B. - WOOD, John L. Synthetic studies toward longeracemine: The intramolecular [4+2] cycloaddition of 3H-pyrroles. In TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 35, pp. 4539-4549., Registrované v: WOS
2. [1.1] FEDOSEEV, Pavel - VAN DER EYCKEN, Erik. Temperature switchable Bronsted acid-promoted selective syntheses of spiro-indolenines and quinolines. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 55, pp. 7732-7735., Registrované v: WOS
3. [1.1] LI, Xiangdong - GOLZ, Christopher - ALCARAZO, Manuel. 5-(Cyano)dibenzothiophenium Triflate: A Sulfur-Based Reagent for Electrophilic Cyanation and Cyanocyclizations. In ANGEWANDTE

- ADCA1292 ŠPÁNIKOVÁ, Silvia - BIELY, Peter. Glucuronoyl esterase - Novel carbohydrate produced by *Schizophyllum commune*. In *FEBS Letters*, 2006, vol. 580, p. 4597-4601. (2005: 3.415 - IF, Q2 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2006.07.033>
- Ohlasy:
1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
 2. [1.1] ALVAREZ, Consolacion - MANUEL REYES-SOSA, Francisco - DIEZ, Bruno. Enzymatic hydrolysis of biomass from wood. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7907, 2016, vol. 9, no. 2, pp. 149-156., Registrované v: WOS
 3. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola - KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp. 2611-2618., Registrované v: WOS
 4. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
 5. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
 6. [1.1] DA SILVA, Ronivaldo Rodrigues - PEDEZZI, Rafael - SOUTO, Tatiane Beltramini. Exploring the bioprospecting and biotechnological potential of white-rot and anaerobic *Neocallimastigomycota* fungi: peptidases, esterases, and lignocellulolytic enzymes. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3089-3101., Registrované v: WOS
 7. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
 8. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
 9. [1.1] DERBA-MACELUCH, Marta - AWANO, Tatsuya - TAKAHASHI, Junko - LUCENIUS, Jessica - RATKE, Christine - KONTRO,

Inkeri - BUSSE-WICHER, Marta - KOSIK, Ondrej - TANAKA, Ryo - WINZELL, Anders - KALLAS, Asa - LESNIEWSKA, Joanna - BERTHOLD, Fredrik - IMMERZEEL, Peter - TEERI, Tuula T. - EZCURRA, Ines - DUPREE, Paul - SERIMAA, Ritva - MELLEROWICZ, Ewa J. Suppression of xylan endotransglycosylase PtxtXyn10A affects cellulose microfibril angle in secondary wall in aspen wood. In NEW PHYTOLOGIST. ISSN 0028-646X, 2015, vol. 205, no. 2, pp. 666-681., Registrované v: WOS

10. [1.1] DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. Expression of Cell Wall-Modifying Enzymes in Aspen for Improved Lignocellulose Processing. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 145-164. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_9., Registrované v: WOS

11. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS

12. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS

13. [1.1] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in Aspergillus. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: ASPERGILLUS SYSTEM PROPERTIES AND APPLICATIONS, 2016, vol., no., pp. 171-190., Registrované v: WOS

14. [1.1] D'ERRICO, Clotilde - JORGENSEN, Jonas O. - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Enzymatic Degradation of Lignin-Carbohydrate Complexes (LCCs): Model Studies Using a Fungal Glucuronoyl Esterase from Cerrena Unicolor. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol. 112, no. 5, pp. 914-922., Registrované v: WOS

15. [1.1] D'ERRICO, Clotilde - BORJESSON, Johan - DING, Hanshu - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Improved biomass degradation using fungal glucuronoyl-esterases-hydrolysis of natural corn fiber substrate. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 219, no., pp. 117-123., Registrované v: WOS

16. [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. Schizophyllum commune: An unexploited source for lignocellulose degrading enzymes. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2018, vol. 7, no. 3, pp.,

Registrované v: WOS

17. [1.1] GANDLA, Madhavi Latha - DERBA-MACELUCH, Marta - LIU, Xiaokun - GERBER, Lorenz - MASTER, Emma R. - MELLEROWICZ, Ewa J. - JONSSON, Leif J. Expression of a fungal glucuronoyl esterase in *Populus*: Effects on wood properties and saccharification efficiency. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2015, vol. 112, no., pp. 210-220.,

Registrované v: WOS

18. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In *JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY*. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224.,

Registrované v: WOS

19. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311.,

Registrované v: WOS

20. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS

21. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Gene expression metadata analysis reveals molecular mechanisms employed by *Phanerochaete chrysosporium* during lignin degradation and detoxification of plant extractives. In *CURRENT GENETICS*. ISSN 0172-8083, 2017, vol. 63, no. 5, pp. 877-894., Registrované v: WOS

22. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In *BIORESOURCES AND BIOPROCESSING*, 2018, vol. 5, no., pp., Registrované v: WOS

23. [1.1] KRŠKA, Daniel - LARSBRINK, Johan. Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01709-9>., Registrované v: WOS

24. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS

25. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospira anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS

26. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS
27. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
28. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS
29. [1.1] NYLANDER, Filip - SUNNER, Hampus - OLSSON, Lisbeth - CHRISTAKOPOULOS, Paul - WESTMAN, Gunnar. Synthesis and enzymatic hydrolysis of a diaryl benzyl ester model of a lignin-carbohydrate complex (LCC). In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 5, pp. 385-391., Registrované v: WOS
30. [1.1] SHIN, Sang Kyu - KO, Young Jin - HYEON, Jeong Eun - HAN, Sung Ok. Studies of advanced lignin valorization based on various types of lignolytic enzymes and microbes. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 289, no., pp., Registrované v: WOS
31. [1.1] SORNLAKE, Warasirin - RATTANAPHANJAK, Phatcharamon - CHAMPREDA, Verawat - EURWILAICHITR, Lily - KITTISENACHAI, Suthathip - ROYTRAKUL, Sittiruk - FUJII, Tatsuya - INOUE, Hiroyuki. Characterization of cellulolytic enzyme system of Schizophyllum commune mutant and evaluation of its efficiency on biomass hydrolysis. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2017, vol. 81, no. 7, pp. 1289-1299., Registrované v: WOS
32. [1.1] SUNNER, Hampus - CHARAVGI, Maria-Despoina - OLSSON, Lisbeth - TOPAKAS, Evangelos - CHRISTAKOPOULOS, Paul. Glucuronoyl Esterase Screening and Characterization Assays Utilizing Commercially Available Benzyl Glucuronic Acid Ester. In MOLECULES. ISSN 1420-3049, 2015, vol. 20, no. 10, pp. 17807-17817., Registrované v: WOS
33. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from Thielavia terrestris and their application in enzymatic hydrolysis of corn bran. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
34. [1.1] TERRETT, Oliver M. - DUPREE, Paul. Covalent interactions between lignin and hemicelluloses in plant secondary cell walls. In CURRENT OPINION IN BIOTECHNOLOGY. ISSN 0958-1669, 2019, vol. 56, no., pp. 97-104., Registrované v: WOS
35. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. - PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian - DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Evidence for ligninolytic activity of the ascomycete fungus Podospora anserina. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s13068-020-01713-z>, Registrované v: WOS

36. [1.1] ZHU, Ning - LIU, Jiawen - YANG, Jinshui - LIN, Yujian - YANG, Yi - JI, Lei - LI, Meng - YUAN, Hongli. Comparative analysis of the secretomes of *Schizophyllum commune* and other wood-decay basidiomycetes during solid-state fermentation reveals its unique lignocellulose-degrading enzyme system. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
37. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
38. [1.2] CONACHER, C. G. - GARCÍA-APARICIO, M. P. - COETZEE, G. - VAN ZYL, W. H. - GOSRGENS, J. F. Scalable methanol-free production of recombinant glucuronoyl esterase in *Pichia pastoris*. In *BMC Research Notes*, 2019-09-18, 12, 1, pp., Registrované v: SCOPUS
39. [1.2] CHO, Dong Hwa - LEE, Seuk Ki - PARK, Jiyoung - PARK, Hye Young - CHOI, Hye Sun - CHOI, Induck - HAN, Sang Ik - CHUNG, Hyun Jung - JEONG, Duyun - OH, Sea Kwan. Effect of cell wall degrading enzyme treatment on the phenolic content and antioxidant activity of brown rice. In *Journal of the Korean Society of Food Science and Nutrition*. ISSN 12263311, 2018-06-01, 47, 6, pp. 605-611., Registrované v: SCOPUS
40. [3.2] Group Author(s). Uniprot Consortium. D8QLP9. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: Data Citation Index

ADCA1293 ŠPÁNIKOVÁ, Silvia - POLÁKOVÁ, Monika - JONIAK, Dušan - HIRSCH, Ján - BIELY, Peter. Synthetic esters recognized by glucuronoyl esterase from *Schizophyllum commune*. In *Archives of Microbiology*, 2007, vol. 188, p. 185-189. (2006: 1.820 - IF, Q3 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s00203-007-0241-x>

Ohlasy:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola - KLAUBAU, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp. 2611-2618., Registrované v: WOS
3. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
4. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl

- esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
5. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
6. [1.1] DERBA-MACELUCH, Marta - AWANO, Tatsuya - TAKAHASHI, Junko - LUCENIUS, Jessica - RATKE, Christine - KONTRO, Inkeri - BUSSE-WICHER, Marta - KOSIK, Ondrej - TANAKA, Ryo - WINZELL, Anders - KALLAS, Asa - LESNIEWSKA, Joanna - BERTHOLD, Fredrik - IMMERZEEL, Peter - TEERI, Tuula T. - EZCURRA, Ines - DUPREE, Paul - SERIMAA, Ritva - MELLEROWICZ, Ewa J. Suppression of xylan endotransglycosylase PtxtXyn10A affects cellulose microfibril angle in secondary wall in aspen wood. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2015, vol. 205, no. 2, pp. 666-681., Registrované v: WOS
7. [1.1] D'ERRICO, Clotilde - BORJESSON, Johan - DING, Hanshu - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Improved biomass degradation using fungal glucuronoyl-esterases-hydrolysis of natural corn fiber substrate. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2016, vol. 219, no., pp. 117-123., Registrované v: WOS
8. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
9. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In *JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY*. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS
10. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
11. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
12. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS

13. [1.1] MAZURKEWICH, Scott - POULSEN, Jens-Christian N. - LO LEGGIO, Leila - LARSBRINK, Johan. Structural and biochemical studies of the glucuronoyl esterase OtCE15A illuminate its interaction with lignocellulosic components. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 52, pp. 19978-19987., Registrované v: WOS
14. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS
15. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne - AGGER, Jane Wittrup. Enzyme kinetics of fungal glucuronoyl esterases on natural lignin-carbohydrate complexes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 10, pp. 4065-4075., Registrované v: WOS
16. [1.1] NYLANDER, Filip - SUNNER, Hampus - OLSSON, Lisbeth - CHRISTAKOPOULOS, Paul - WESTMAN, Gunnar. Synthesis and enzymatic hydrolysis of a diaryl benzyl ester model of a lignin-carbohydrate complex (LCC). In HOLZFORSCHUNG. ISSN 0018-3830, 2016, vol. 70, no. 5, pp. 385-391., Registrované v: WOS

ADCA1294 ŠPIREK, Mário - ŠOLTÉSOVÁ, Andrea - HORVÁTH, Anton - SLÁVIKOVÁ, Elena - SULO, Pavol. GC clusters and the stability of mitochondrial genomes of *Saccharomyces cerevisiae* and related yeasts. In *Folia Microbiologica*, 2002, vol. 47, p. 263-270. (2001: 0.776 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0015-5632.

Ohlasy:

1. [1.2] WOLTERS, John F. - CHIU, Kenneth - FIUMERA, Heather L. Population structure of mitochondrial genomes in *Saccharomyces cerevisiae*. In BMC Genomics, 2015-06-11, 16, 1, pp., Registrované v: SCOPUS

ADCA1295 ŠROBÁROVÁ, Antónia - DA SILVA, J. A. T. - KOGAN, Grigorij - RITIENI, Alberto - SANTINI, Antonello. Beauvericin decreases cell viability of wheat. In *Chemistry & Biodiversity*, 2009, vol. 6, no. 8, p. 1208-1215. (2008: 1.659 - IF, Q2 - JCR, 0.641 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200800158>

Ohlasy:

1. [1.1] BHANDARI, D.R. - WANG, Q. - LI, B. - FRIEDT, W. - ROMPP, A. - SPENGLER, B. - GOTTWALD, S. Histology-guided high-resolution AP-SMALDI mass spectrometry imaging of wheat-Fusarium graminearum interaction at the root-shoot junction. In PLANT METHODS. ISSN 1746-4811, NOV 17 2018, vol. 14., Registrované v: WOS
2. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
3. [1.1] LOI, M. - DE LEONARDIS, S. - MULE, G. - LOGRIECO, A.F. - PACIOLLA, C. A Novel and Potentially Multifaceted Dehydroascorbate Reductase Increasing the Antioxidant Systems is Induced by Beauvericin in

Tomato. In ANTIOXIDANTS. MAY 2020, vol. 9, no. 5., Registrované v: WOS
 4. [1.1] MOLNAR, O. Fusarium proliferatum causing head blight on oat
 in Hungary. In EUROPEAN JOURNAL OF PLANT PATHOLOGY. ISSN
 0929-1873, NOV 2016, vol. 146, no. 3, p. 699-703., Registrované v: WOS
 5. [1.1] NCUBE, E. - TRUTER, M. - FLETT, B.C. - VAN DEN BERG,
 J. - ERASMUS, A. - VILJOEN, A. Fungal mycoflora associated with *Busseola*
fusca frass in maize plants. In AFRICAN ENTOMOLOGY. ISSN 1021-3589,
 SEP 2020, vol. 28, no. 2, p. 394-405., Registrované v: WOS
 6. [1.2] CHO, Sung Hwan - NGUYEN, Cuong The - CHOI, Jeongmin -
 STACEY, Gary. Molecular mechanism of plant recognition of extracellular ATP.
 In Advances in Experimental Medicine and Biology. ISSN 00652598,
 2017-01-01, 1051, pp. 233-253., Registrované v: SCOPUS

ADCA1296 ŠTEFUCA, Vladimír - VIKARTOVSKÁ, Alica - GEMEINER, Peter.
 Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme
 kinetics. In *Analytica Chimica Acta*, 1997, vol. 355, p. 63-67. ISSN 0003-2670.
 Dostupné na: [https://doi.org/10.1016/S0003-2670\(97\)81612-1](https://doi.org/10.1016/S0003-2670(97)81612-1)

Ohlasy:

1. [1.1] TRANSTRUM, Mark K. - HANSEN, Lee D. - QUINN, Colette.
 Enzyme kinetics determined by single-injection isothermal titration calorimetry.
 In METHODS. ISSN 1046-2023, 2015, vol. 76, no., pp. 194-200., Registrované
 v: WOS
2. [1.1] ZHENG, Yihua - LIU, Jun. Recirculating Flow Injection
 Calorimetric Biosensor and Its Improved Performance Evaluation for Dichlorvos
 Detection. In SENSORS AND MATERIALS. ISSN 0914-4935, 2018, vol. 30,
 no. 1, pp. 89-99., Registrované v: WOS

ADCA1297 ŠTEFUCA, Vladimír - GEMEINER, Peter. Investigation of catalytic
 properties of immobilized enzymes and cells by flow microcalorimetry. In
SCHEPER, T. (ed.). Advances in Biochemical Engineering/Biotechnology Series:
Thermal biosensors, bioactivity, bioaffinity, 1999, vol. 64, p. 69-99. Dostupné na:
https://doi.org/10.1007/3-540-49811-7_3

Ohlasy:

1. [1.1] ZHANG, Zhiling - ZHANG, Xiang - FUNG, Ka Yip - NG, Ka
 Ming. Product Design: Enzymatic Biosensors for Body Fluid Analysis. In
 INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN
 0888-5885, 2019, vol. 58, no. 31, pp. 14284-14294. Dostupné na:
<https://doi.org/10.1021/acs.iecr.9b02849>., Registrované v: WOS
2. [3.1] Zhang, Z (Zhang, Zhiling); Zhang, X (Zhang, Xiang); Fung, KY
 (Fung, Ka Yip); Ng, KM (Ng, Ka Ming). Product Design: Enzymatic Biosensors
 for Body Fluid Analysis. In: INDUSTRIAL AND ENGINEERING
 CHEMISTRY RESEARCH Vol. 58 (2019), Issue: 31 p. 14284–14294

ADCA1298 ŠTEFUCA, V. - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana - KATRLÍK,
 Jaroslav - MASTIHUBA, Vladimír - GREIFOVÁ, M. - GEMEINER, Peter.
 Development of enzyme flow calorimeter system for monitoring of microbial
 glycerol conversion. In *Applied Microbiology and Biotechnology*, 2006, vol. 72, p.
 1170-1175. (2005: 2.586 - IF, Q2 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0175-7598.
 Dostupné na: <https://doi.org/10.1007/s00253-006-0420-8>

Ohlasy:

1. [1.1] VAN GRINSVEN, B. - BETLEM, K. - CLEIJ, T. J. - BANKS, C. E. - PEETERS, M. Evaluating the potential of thermal read-out techniques combined with molecularly imprinted polymers for the sensing of low-weight organic molecules. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2017, vol. 30, no. 1, pp., Registrované v: WOS

ADCA1299 ŠTEFUCA, V. - ČIPÁKOVÁ, Ingrid - GEMEINER, Peter.

Investigation of immobilized glucoamylase kinetics by flow calorimetry. In *Thermochimica Acta*, 2001, vol. 378, p. 79-85. ISSN 0040-6031. Dostupné na: [https://doi.org/10.1016/S0040-6031\(01\)00589-5](https://doi.org/10.1016/S0040-6031(01)00589-5)

Ohlasy:

1. [1.1] ZHENG, Yihua - LIU, Jun. Recirculating Flow Injection Calorimetric Biosensor and Its Improved Performance Evaluation for Dichlorvos Detection. In SENSORS AND MATERIALS. ISSN 0914-4935, 2018, vol. 30, no. 1, pp. 89-99., Registrované v: WOS

ADCA1300 ŠTEFUCA, V. - GEMEINER, Peter - KURILLOVÁ, Ľubica -

DANTZENBERG, H. - POLAKOVIČ, M. - BÁLEŠ, V. Polyelectrolyte complex capsules as a material for enzyme immobilization. In *Applied Biochemistry and Biotechnology*, 1991, vol. 30, p. 313-324. ISSN 0273-2289. Dostupné na: <https://doi.org/10.1007/BF02922035>

Ohlasy:

1. [1.1] KUBELBECK, Sonja - MIKHAEL, Jules - SCHOOF, Sebastian - ANDRIEU-BRUNSEN, Annette - BAIER, Grit. Immobilization of amylase in polyelectrolyte complexes. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 27, pp., Registrované v: WOS
2. [1.1] MUELLER, Martin - URBAN, Birgit. Adhesive Reactive Nanoparticles of Poly(ethyleneimine)/Poly(maleic acid-co-propylene) Complexes: A Novel Concept for the Immobilization of Pollutant Removing Laccase. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2016, vol. 217, no. 21, pp. 2360-2371., Registrované v: WOS
3. [1.1] ZHANG, Chi - YAN, Kelu - HU, Chunyan - ZHAO, Yongliang - CHEN, Zhi - ZHU, Xiaomin - MOELLER, Martin. Encapsulation of enzymes in silica nanocapsules formed by an amphiphilic precursor polymer in water. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2015, vol. 3, no. 7, pp. 1261-1267., Registrované v: WOS
4. [1.1] ZHANG, Qilei - LIN, Dongqiang - YAO, Shanqing. Review on biomedical and bioengineering applications of cellulose sulfate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 132, no., pp. 311-322., Registrované v: WOS

ADCA1301 ŠTURDÍKOVÁ, Marta - FUSKA, J. - GROSSMANN, E. - VOTICKÝ,

Zdeno. New compounds with cytotoxic and antitumor effects. Part 6: Monomeric indole alkaloids of *Vinca minor* L. and their effect on P388 cells. In *Pharmazie*, 1986, vol. 41, p. 270-272. ISSN 0031-7144.

Ohlasy:

1. [1.1] HIJAZIN, Tahani - RADWAN, Alzahraa - LEWERENZ, Laura - ABOUZEID, Sara - SELMAR, Dirk. The uptake of alkaloids by plants from the soil is determined by rhizosphere pH. In RHIZOSPHERE, 2020, vol. 15, no., pp.

Dostupné na: <https://doi.org/10.1016/j.rhisph.2020.100234>., Registrované v: WOS

2. [1.1] PALYI, G. Biological Chirality. In BIOLOGICAL CHIRALITY, 2020, vol., no., pp. 1-257., Registrované v: WOS

3. [1.1] QAYUM, Mughal - NISAR, Muhammad - RAUF, Abdur - KHAN, Imran - KALEEM, Waqar Ahmad - RAZA, Muslim - KARIM, Nasiara - SALEEM, Munawar Ahmad - BAWAZEER, Saud - UYSAL, Sengul - ZENGİN, Gokhan - JAHAN, Saqib - RAMADAN, Mohamed Fawzy. In-vitro and in-silico anticancer potential of taxoids from *Taxus wallichiana* Zucc. In BIOLOGIA FUTURA. ISSN 2676-8615, 2019, vol. 70, no. 4, pp. 295-300., Registrované v: WOS

ADCA1302 ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - SPODSBERGH, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. A novel GH30 xylobiohydrolase from *Acremonium alcalophilum* releasing xylobiose from the non-reducing end. In *Enzyme and Microbial Technology*, 2020, vol. 134, art. no. 109484 [11] p. (2019: 3.448 - IF, Q2 - JCR, 0.795 - SJR, Q2 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109484>

Ohlasy:

1. [1.1] ZHANG, Yu - YANG, Jinshui - LUO, Lijin - WANG, Entao - WANG, Ruonan - LIU, Liang - LIU, Jiawen - YUAN, Hongli. Low-Cost Cellulase-Hemicellulase Mixture Secreted by *Trichoderma harzianum* EM0925 with Complete Saccharification Efficacy of Lignocellulose. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijms21020371>., Registrované v: WOS

ADCA1303 ŠUCHOVÁ, Katarína** - KOZMON, Stanislav - PUCHART, Vladimír - MALOVÍKOVÁ, Anna - HOFF, Tine - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan recognition by GH 30 xylanases: A study with enzyme and substrate variants. In *Archives of Biochemistry and Biophysics*, 2018, vol. 643, p. 42-49. (2017: 3.118 - IF, Q2 - JCR, 1.350 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0003-9861. Dostupné na: <https://doi.org/10.1016/j.abb.2018.02.014>

Ohlasy:

1. [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaying - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS

2. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS

3. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE

CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS

4. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus *Talaromyces cellulolyticus*. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 11, pp. 4065-4078., Registrované v: WOS

5. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS

6. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

ADCA1304 KOLENOVÁ, Katarína - RYABOVÁ, Olena - VRŠANSKÁ, Mária - BIELY, Peter. Inverting character of family GH115 α -glucuronidases. In *FEBS Letters*, 2010, vol.584, p. 4063-4068. (2009: 3.541 - IF, Q2 - JCR, 2.170 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2010.08.031>

Ohlasy:

1. [1.1] AALBERS, Friso - TURKENBURG, Johan P. - DAVIES, Gideon J. - DIJKHUIZEN, Lubbert - LAMMERTS VAN BUEREN, Alicia. Structural and Functional Characterization of a Novel Family GH115 4-O-Methyl- α -Glucuronidase with Specificity for Decorated Arabinogalactans. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, 2015, vol. 427, no. 24, pp. 3935-3946., Registrované v: WOS

2. [1.1] BORELLI, Guilherme - FIAMENGHI, Mateus Bernabe - DOS SANTOS, Leandro Vieira - CARAZZOLLE, Marcelo Falsarella - GUIMARAES PEREIRA, Goncalo Amarante - JOSE, Juliana. Positive Selection Evidence in Xylose-Related Genes Suggests Methylglyoxal Reductase as a Target for the Improvement of Yeasts' Fermentation in Industry. In GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, 2019, vol. 11, no. 7, pp. 1923-1938., Registrované v: WOS

3. [1.1] GOMES, Katiana R. - CHIMPHANGO, Annie F. A. - GOERGENSEN, Johann F. Modifying solubility of polymeric xylan extracted from *Eucalyptus grandis* and sugarcane bagasse by suitable side chain removing enzymes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 131, no., pp. 177-185., Registrované v: WOS

4. [1.1] CHONG, Sun-Li - DERBA-MACELUCH, Marta - KOUTANIEMI, Sanna - GOMEZ, Leonardo D. - MCQUEEN-MASON, Simon J. - TENKANEN, Maija - MELLEROWICZ, Ewa J. Active fungal GH115 α -glucuronidase produced in *Arabidopsis thaliana* affects only the UX1-reactive glucuronate decorations on native glucuronoxylans. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2015, vol. 15, no., pp., Registrované v:

WOS

5. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
6. [1.1] MARTINEZ, Patricia Murciano - APPELDOORN, Maaike M. - GRUPPEN, Harry - KABEL, Mirjam A. The two *Rasamsonia emersonii* α -glucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
7. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 α -glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
8. [1.1] SAWHNEY, Neha - CROOKS, Casey - JOHN, Franz St. - PRESTON, James F. Transcriptomic Analysis of Xylan Utilization Systems in *Paenibacillus* sp Strain JDR-2. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 4, pp. 1490-1501., Registrované v: WOS
9. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS
10. [1.1] WANG, Liangliang - SHI, Hao - XU, Baiyun - LI, Xun - ZHANG, Yu - WANG, Fei. Characterization of *Thermotoga thermarum* DSM 5069 α -Glucuronidase and Synergistic Degradation of Xylan. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 3, pp. 5767-5779., Registrované v: WOS
11. [1.1] WANG, Weijun - YAN, Ruoyu - NOCEK, Boguslaw P. - VUONG, Thu V. - DI LEO, Rosa - XU, Xiaohui - CUI, Hong - GATENHOLM, Paul - TORIZ, Guillermo - TENKANEN, Maija - SAVCHENKO, Alexei - MASTER, Emma R. Biochemical and Structural Characterization of a Five-domain GH115-Glucuronidase from the Marine Bacterium *Saccharophagus degradans* 2-40(T). In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 27, pp. 14120-14133., Registrované v: WOS
12. [1.2] BAJWA, Paramjit K. - HARRINGTON, Sean - DASHTBAN, Mehdi - LEE, Hung. Expression and Characterization of Glycosyl Hydrolase Family 115 α -Glucuronidase from *Scheffersomyces stipitis*. In *Industrial Biotechnology*. ISSN 15509087, 2016-04-01, 12, 2, pp. 98-104., Registrované v: SCOPUS
13. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter. Mode of action of endo- β -1,4-xylanases of families 10 and 11 on acidic xylooligosaccharides. In *Journal of Biotechnology*, 2006, vol. 121, p. 338-345. (2005: 2.687 - IF, Q2 - JCR, 1.193 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2005.08.001>

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ, E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In MYCOSPHERE. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS
2. [1.1] BOTTO, Emiliana - GIOIA, Larissa - DEL PILAR MENENDEZ, Maria - RODRIGUEZ, Paula. Pseudozyma sp. isolation from Eucalyptus leaves and its hydrolytic activity over xylan. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 21, no., pp., Registrované v: WOS
3. [1.1] BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - HARDER, Soenke - SCHLUETER, Hartmut - HAHNKE, Richard L. - RUEHL, Martin - SCHAEFER, Wilhelm - GAND, Martin. Aspergillus sydowii: Genome Analysis and Characterization of Two Heterologous Expressed, Non-redundant Xylanases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.573482>., Registrované v: WOS
4. [1.1] COBUCCI-PONZANO, Beatrice - STRAZZULLI, Andrea - IACONO, Roberta - MASTURZO, Giuseppe - GIGLIO, Rosa - ROSSI, Mose - MORACCI, Marco. Novel thermophilic hemicellulases for the conversion of lignocellulose for second generation biorefineries. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 78, no., pp. 63-73., Registrované v: WOS
5. [1.1] COELHO, Elisabete - ROCHA, M. Angelica M. - MOREIRA, Ana S. P. - DOMINGUES, M. Rosario M. - COIMBRA, Manuel A. Revisiting the structural features of arabinoxylans from brewers' spent grain. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 139, no., pp. 167-176., Registrované v: WOS
6. [1.1] ENJALBERT, Thomas - DE LA MARE, Marion - ROBLIN, Pierre - BADRUNA, Louise - VERNET, Thierry - DUMON, Claire - MONTANIER, Cedric Y. Characterisation of the Effect of the Spatial Organisation of Hemicellulases on the Hydrolysis of Plant Biomass Polymer. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 12, pp. Dostupné na: <https://doi.org/10.3390/ijms21124360>., Registrované v: WOS
7. [1.1] FOUQUET, Thierry - SATO, Hiroaki - NAKAMICHI, Yusuke - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Electrospray multistage mass spectrometry in the negative ion mode for the unambiguous molecular and structural characterization of acidic hydrolysates from 4-O-methylglucuronoxylan generated by endoxylanases. In JOURNAL OF MASS SPECTROMETRY. ISSN 1076-5174, 2019, vol. 54, no. 3, pp. 213-221., Registrované v: WOS
8. [1.1] GONG, Weili - ZHANG, Huaiqiang - TIAN, Li - LIU, Shijia -

- WU, Xiuyun - LI, Fuli - WANG, Lushan. Determination of the modes of action and synergies of xylanases by analysis of xylooligosaccharide profiles over time using fluorescence-assisted carbohydrate electrophoresis. In ELECTROPHORESIS. ISSN 0173-0835, 2016, vol. 37, no. 12, pp. 1640-1650., Registrované v: WOS
9. [1.1] HACHEM, Kadda - FAUGERON, Celine - KAID-HARCHE, Meriem - GLOAGUEN, Vincent. Structural Investigation of Cell Wall Xylan Polysaccharides from the Leaves of Algerian *Argania spinosa*. In MOLECULES. ISSN 1420-3049, 2016, vol. 21, no. 11, pp., Registrované v: WOS
10. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
11. [1.1] ITO, Toshihiko - SATO, Anna - TAKAHASHI, Itsuki - ITO, Takahito - TAKANO, Kouto - NOGE, Koji - OKUDA, Masaki - HASHIZUME, Katsumi. Identification of enzymes from genus *Trichoderma* that can accelerate formation of ferulic acid and ethyl ferulate in collaboration with rice koji enzyme in sake mash. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2019, vol. 128, no. 2, pp. 177-182., Registrované v: WOS
12. [1.1] LI, Hailong - WU, Jinlian - JIANG, Fengjiao - XUE, Yong - LIU, Jian - GAN, Lihui - ALI, Nasir - LONG, Minnan. Functional expression and synergistic cooperation of xylan-degrading enzymes from *Hypocrea orientalis* and *Aspergillus niger*. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2015, vol. 90, no. 11, pp. 2083-2091., Registrované v: WOS
13. [1.1] LONG, Lingfeng - TIAN, Dong - ZHAI, Rui - LI, Xun - ZHANG, Yu - HU, Jinguang - WANG, Fei - SADDLER, Jack. Thermostable xylanase-aided two-stage hydrolysis approach enhances sugar release of pretreated lignocellulosic biomass. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 257, no., pp. 334-338., Registrované v: WOS
14. [1.1] MADAN, Bharat - LEE, Sun-Gu. Sequence and Structural Features of Subsite Residues in GH10 and GH11 Xylanases. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 3, pp. 311-318., Registrované v: WOS
15. [1.1] MONTANIER, Cedric Y. - FANUEL, Mathieu - ROGNIAUX, Helene - ROPARTZ, David - DI GUILMI, Anne-Marie - BOUCHOUX, Antoine. Changing surface grafting density has an effect on the activity of immobilized xylanase towards natural polysaccharides. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
16. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
17. [1.1] POLETTTO, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In PROCESS

- BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.01.005>., Registrované v: WOS
18. [1.1] RAY, Sayani - VIGOUROUX, Jacqueline - BOUDER, Axelle - ALLAMI, Mathilde Francin - GEAIRON, Audrey - FANUEL, Mathieu - ROPARTZ, David - HELBERT, William - LAHAYE, Marc - BONNIN, Estelle. Functional exploration of *Pseudoalteromonas atlantica* as a source of hemicellulose-active enzymes: Evidence for a GH8 xylanase with unusual mode of action. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 127, no., pp. 6-16., Registrované v: WOS
19. [1.1] SEEMAKRAM, Wasan - BOONRUNG, Santhaya - KOKAEW, Urachart - AIMI, Tadanori - BOONLUE, Sophon. Optimization of Culture Conditions for Xylanase Production from Cellulase-free Xylanase-producing Thermophilic Fungus, *Thermomyces dupontii* KKU-CLD-E2-3. In CHIANG MAI JOURNAL OF SCIENCE. ISSN 0125-2526, 2020, vol. 47, no. 3, pp. 391-402., Registrované v: WOS
20. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
21. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS
22. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
23. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
24. [1.1] YOU, Shuai - CHEN, Chun-Chi - TU, Tao - WANG, Xiaoyu - MA, Rui - CAI, Hui-yi - GUO, Rey-Ting - LUO, Hui-ying - YAO, Bin. Insight into the functional roles of Glu175 in the hyperthermostable xylanase XYL10C-Delta N through structural analysis and site-saturation mutagenesis. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
25. [1.1] YOU, Shuai - XIE, Chen - MA, Rui - HUANG, Huo-qing - HERMAN, Richard Ansah - SU, Xiao-yun - GE, Yan - CAI, Hui-yi - YAO, Bin - WANG, Jun - LUO, Hui-ying. Improvement in catalytic activity and thermostability of a GH10 xylanase and its synergistic degradation of biomass with cellulase. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no. 1, pp., Registrované v: WOS

26. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
27. [1.2] DE VRIES, Ronald P. - VAN DEN BRINK, Joost - HILDÉN, Kristiina S. - MÄKELÄ, Miia R. - STÅLBRAND, Henrik. Fungal degradation of plant oligo- and polysaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 809-895., Registrované v: SCOPUS
28. [1.2] LI, Hai Long - LI, Cheng Guo - QIN, Guang Hui - LIU, Jian - GAN, Li Hui - XIE, Ru Sheng - LONG, Min Nan. HPLC and MALDI-TOF-MS analysis of hydrolysates of xylan. In Chemistry and Industry of Forest Products. ISSN 02532417, 2015-01-01, 35, 5, pp. 10-14., Registrované v: SCOPUS
29. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA1306 KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter. Mode of action of endo-beta-1,4-xylanases of families 10 and 11 on acidic xylooligosaccharides. In *Journal of Biotechnology*, 2006, vol. 121, p. 338-345. (2005: 2.687 - IF, Q2 - JCR, 1.193 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2005.08.001>

Ohlasy:

1. [1.1] COBUCCI-PONZANO, Beatrice - STRAZZULLI, Andrea - IACONO, Roberta - MASTURZO, Giuseppe - GIGLIO, Rosa - ROSSI, Mose - MORACCI, Marco. Novel thermophilic hemicellulases for the conversion of lignocellulose for second generation biorefineries. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 78, no., pp. 63-73., Registrované v: WOS
2. [1.1] EL ENSHASY, Hesham Ali - KANDIYIL, Subeesh Kunhi - MALEK, Roslinda - OTHMAN, Nor Zalina. Microbial Xylanases: Sources, Types, and Their Applications. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 151-213., Registrované v: WOS
3. [1.1] FLORES, C. A. - WILLIAMS, M. P. - SMITH, K. - PIENIAZEK, J. - LATHAM, R. - WANG, J. J. - TYUS, J. - LEE, J. T. Evaluation of a thermotolerant xylanase on broiler growth performance and dietary ileal digestible energy value. In JOURNAL OF APPLIED POULTRY RESEARCH. ISSN 1056-6171, 2017, vol. 26, no. 1, pp. 60-71., Registrované v: WOS
4. [1.1] HASSAN, Ali Saleh - HOUSTON, Kelly - LAHNSTEIN, Jelle - SHIRLEY, Neil - SCHWERDT, Julian G. - GIDLEY, Michael J. - WAUGH, Robbie - LITTLE, Alan - BURTON, Rachel A. A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS
5. [1.1] KOSIK, Ondrej - POWERS, Stephen J. - CHATZIFRAGKOU, Afroditi - PRABHAKUMARI, Parvathy Chandran - CHARALAMPOPOULOS, Dimitris - HESS, Linde - BROSNAN, James - SHEWRY, Peter R. - LOVEGROVE, Alison. Changes in the arabinoxylan fraction of wheat grain

during alcohol production. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 1754-1762., Registrované v: WOS

6. [1.1] LIU, Ming-qi - WENG, Xiao-yan - WANG, Qian - HUO, Wen-kang - XU, Xin. Recombinant Thermostable Thermomonospora fusca TF Endo-xylanase A and Its Immobilization on Modified Mesoporous SiO₂ Microspheres for Manufacturing Xylooligosaccharides. In CATALYSIS LETTERS. ISSN 1011-372X, 2017, vol. 147, no. 3, pp. 765-772., Registrované v: WOS

7. [1.1] LI, Hailong - WU, Jinlian - JIANG, Fengjiao - XUE, Yong - LIU, Jian - GAN, Lihui - ALI, Nasir - LONG, Minnan. Functional expression and synergistic cooperation of xylan-degrading enzymes from Hypocrea orientalis and Aspergillus niger. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2015, vol. 90, no. 11, pp. 2083-2091., Registrované v: WOS

8. [1.1] MECHELKE, M. - KOECK, D. E. - BROECKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium Herbinix hemicellulosilytica-Six new xylanases, three arabinofuranosidases and one xylosidase. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS

9. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Migan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS

10. [1.2] LI, Hai Long - LI, Cheng Guo - QIN, Guang Hui - LIU, Jian - GAN, Li Hui - XIE, Ru Sheng - LONG, Min Nan. HPLC and MALDI-TOF-MS analysis of hydrolysates of xylan. In Chemistry and Industry of Forest Products. ISSN 02532417, 2015-01-01, 35, 5, pp. 10-14., Registrované v: SCOPUS

ADCA1307 KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter.

Purification and characterization of two minor endo-beta-1,4-xylanases of Schizophyllum commune. In *Enzyme and Microbial Technology*, 2005, vol. 36, p. 903-910. ISSN 0141-0229. Dostupné na:

<https://doi.org/10.1016/j.enzmictec.2005.01.006>

Ohlasy:

1. [1.1] BOONRUNG, Santhaya - KATEKAEW, Somporn - MONGKOLTHANARUK, Wiyada - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of low molecular weight extreme alkaline xylanase from the thermophilic fungus Myceliophthora thermophila BF1-7. In MYCOSCIENCE. ISSN 1340-3540, 2016, vol. 57, no. 6, pp. 408-416., Registrované v: WOS

2. [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. Schizophyllum commune: An unexploited source for lignocellulose degrading enzymes. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2018, vol. 7, no. 3, pp.,

Registrované v: WOS

3. [1.1] POLI, Anna - VIZZINI, Alfredo - PRIGIONE, Valeria - VARESE, Giovanna Cristina. Basidiomycota isolated from the Mediterranean Sea Phylogeny and putative ecological roles. In FUNGAL ECOLOGY. ISSN 1754-5048, 2018, vol. 36, no., pp. 51-62., Registrované v: WOS
4. [1.1] SEEMAKRAM, Wasan - BOONRUNG, Santhaya - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of low molecular weight alkaline xylanase from *Neosartorya tatenoi* KKU-CLB-3-2-4-1. In MYCOSCIENCE. ISSN 1340-3540, 2016, vol. 57, no. 5, pp. 326-333., Registrované v: WOS
5. [1.1] SEEMAKRAM, Wasan - BOONRUNG, Santhaya - AIMI, Tadanori - EKPRASERT, Jindarat - LUMYONG, Saisamorn - BOONLUE, Sophon. Purification, characterization and partial amino acid sequences of thermo-alkali-stable and mercury ion-tolerant xylanase from *Thermomyces dupontii* KKU-CLD-E2-3. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-78670-y>., Registrované v: WOS
6. [1.1] SINGH, Simranjeet - SIDHU, Gurpreet Kaur - KUMAR, Vijay - DHANJAL, Daljeet Singh - DATTA, Shivika - SINGH, Joginder. Fungal Xylanases: Sources, Types, and Biotechnological Applications. In RECENT ADVANCEMENT IN WHITE BIOTECHNOLOGY THROUGH FUNGI, VOL 1: DIVERSITY AND ENZYMES PERSPECTIVES. ISSN 2198-7777, 2019, vol., no., pp. 405-428., Registrované v: WOS
7. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. Industrial Enzymes: Xylanases. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 127-148., Registrované v: WOS
8. [1.2] GAUTAM, Archana - KUMAR, Amit - BHARTI, Amit Kumar - DUTT, Dharm. Rice straw fermentation by *Schizophyllum commune* ARC-11 to produce high level of xylanase for its application in pre-bleaching. In Journal of Genetic Engineering and Biotechnology. ISSN 1687157X, 2018-12-01, 16, 2, pp. 693-701., Registrované v: SCOPUS

ADCA1308 KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter.

Purification and characterization of two minor endo-beta-1,4-xylanases of *Schizophyllum commune*. In *Enzyme and Microbial Technology*, 2005, vol. 36, p. 903-910. ISSN 0141-0229.

Ohlasy:

1. [1.1] AZEVEDO CARVALHO, Ana Flavia - NETO, Pedro de Oliva - DE ALMEIDA, Paula Zaghetto - DA SILVA, Juliana Bueno - ESCARAMBONI, Bruna - PASTORE, Glaucia Maria. Screening of Xylanolytic *Aspergillus fumigatus* for Prebiotic Xylooligosaccharide Production Using Bagasse. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2015, vol. 53, no. 4, pp. 428-435., Registrované v: WOS

ADCA1309 ŠUNDERIČ, Miloš - HOLAZOVÁ, Alena - ROBAJAC, Dragana -

MILJUŠ, Goran - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav.

Lectin-based protein microarray analysis of differences in serum alpha-2-macroglobulin glycosylation between patients with colorectal cancer and

noncancer persons. In *Biotechnology and Applied Biochemistry*, 2016, vol. 63, p. 457-464. (2015: 1.429 - IF, Q3 - JCR, 0.411 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1002/bab.1407>

Ohlasy:

1. [1.1] DANG, Kai - ZHANG, Wenjuan - JIANG, Shanfeng - LIN, Xiao - QIAN, Airong. Application of Lectin Microarrays for Biomarker Discovery. In *CHEMISTRYOPEN*. ISSN 2191-1363, 2020, vol. 9, no. 3, pp. 285-300. Dostupné na: <https://doi.org/10.1002/open.201900326>., Registrované v: WOS
2. [1.1] EYLEM, Cemil Can - YILMAZ, Mehmet - DERKUS, Burak - NEMUTLU, Emirhan - CAMCI, Can Berk - YILMAZ, Erkan - TURKOGLU, Mehmet Akif - AYTAC, Bulent - OZYURT, Neslihan - EMREGUL, Emel. Untargeted multi-omic analysis of colorectal cancer-specific exosomes reveals joint pathways of colorectal cancer in both clinical samples and cell culture. In *CANCER LETTERS*. ISSN 0304-3835, 2020, vol. 469, no., pp. 186-194. Dostupné na: <https://doi.org/10.1016/j.canlet.2019.10.038>., Registrované v: WOS
3. [1.1] HASHIM, Onn Haji - JAYAPALAN, Jaime Jacqueline - LEE, Cheng-Siang. Lectins: an effective tool for screening of potential cancer biomarkers. In *PEERJ*. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
4. [1.1] KARABULUT, Mehmet - AFSAR, Cigdem Usul - ALIS, Halil - ORAN, Ebru - KARABULUT, Senem - AKARSU, Cevher - SAHBAZ, Nuri Alper - GUMUSOGLU, Alpen Yahya - BILGIN, Elif - AYKAN, Nuri Faruk. Evaluation of epidermal growth factor receptor serum levels and their association with clinicopathological characteristics in patients with colorectal cancer. In *MOLECULAR AND CLINICAL ONCOLOGY*. ISSN 2049-9450, 2017, vol. 7, no. 5, pp. 787-797., Registrované v: WOS
5. [1.1] LEE, Pey Yee - CHIN, Siok-Fong - LOW, Teck Yew - JAMAL, Rahman. Probing the colorectal cancer proteome for biomarkers: Current status and perspectives. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2018, vol. 187, no., pp. 93-105., Registrované v: WOS
6. [1.1] MEREITER, Stefan - BALMANA, Meritxell - GOMES, Joana - MAGALHAES, Ana - REIS, Celso A. Glycomic Approaches for the Discovery of Targets in Gastrointestinal Cancer. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2016, vol. 6, no., pp., Registrované v: WOS
7. [1.1] POIROUX, Guillaume - BARRE, Annick - VAN DAMME, Els J. M. - BENOIST, Herve - ROUGE, Pierre. Plant Lectins Targeting O-Glycans at the Cell Surface as Tools for Cancer Diagnosis, Prognosis and Therapy. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS
8. [1.1] YUE, Yuanyi - ZHANG, Qiang - WU, Si - WANG, Shuang - CUI, Changwan - YU, Miao - SUN, Zhengrong. Identification of key genes involved in JAK/STAT pathway in colorectal cancer. In *MOLECULAR IMMUNOLOGY*. ISSN 0161-5890, 2020, vol. 128, no., pp. 287-297. Dostupné na: <https://doi.org/10.1016/j.molimm.2020.10.007>., Registrované v: WOS
9. [1.1] YU, Hanjie - SHU, Jian - LI, Zheng. Lectin microarrays for glycoproteomics: an overview of their use and potential. In *EXPERT REVIEW OF PROTEOMICS*. ISSN 1478-9450, 2020, vol. 17, no. 1, pp. 27-39. Dostupné na: <https://doi.org/10.1080/14789450.2020.1720512>., Registrované v: WOS

10. [1.2] ZHAN, Xianlin - FANG, Meng - XIAO, Xiao - JI, Jun - GAO, Chunfang. The value of core fucosylated alpha 2 macroglobulin in the diagnosis of hepatocellular carcinoma. In Chinese Journal of Laboratory Medicine. ISSN 10099158, 2019-03-11, 42, 3, pp. 193-197., Registrované v: SCOPUS

ADCA1310 ŠUTOVSKÁ, Martina - FRAŇOVÁ, Soňa - PRISEŽNAKOVÁ, L. - NOSÁLOVÁ, Gabriela - TOGOLA, A. - DIALLO, D. - PAULSEN, B.S. - CAPEK, Peter. Antitussive activity of polysaccharides isolated from Malian medicinal plants. L. Prisežňaková, Gabriela Nosálová, A. Togola, D. Diallo, B.S. Paulsen, Peter Capek. In *International Journal of Biological Macromolecules*, 2009, vol.44, pp.236-239. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2008.12.013>

Ohlasy:

1. [1.1] HAIDARA, Mahamane - BOURDY, Genevieve - DE TOMMASI, Nunziatina - BRACA, Alessandra - TRAORE, Korotoumou - GIANI, Sergio - SANOGO, Rokia. Medicinal Plants Used in Mali for the Treatment of Malaria and Liver Diseases. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2016, vol. 11, no. 3, pp. 339-352., Registrované v: WOS

2. [1.1] KELLO, Martin - KULIKOVA, Lucia - VASKOVA, Janka - NAGYOVA, Alexandra - MOJZIS, Jan. Fruit Peel Polyphenolic Extract-Induced Apoptosis in Human Breast Cancer Cells Is Associated with ROS Production and Modulation of p38MAPK/Erk1/2 and the Akt Signaling Pathway. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2017, vol. 69, no. 6, pp. 920-931., Registrované v: WOS

3. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS

4. [1.1] ZHONG, Shan - LIU, Xiao-dong - NIE, Yi-chu - GAN, Zhen-yong - YANG, Li-qi - HUANG, Chu-qin - LAI, Ke-fang - ZHONG, Nan-shan. Antitussive activity of the Schisandra chinensis fruit polysaccharide (SCFP-1) in guinea pigs models. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2016, vol. 194, no., pp. 378-385., Registrované v: WOS

5. [1.2] Harding, S. E., Tombs, M. P., Adams, G. G., Paulsen, B. S., Inngjerdingen, K. T., & Barsett, H. (2017). In An Introduction to Polysaccharide Biotechnology (2nd ed.) (CRC Press, pp. 1-225), Registrované v: SCOPUS

ADCA1311 ŠUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Antitussive bronchodilatory effect of Lythrum salicaria polysaccharide-polyphenolic conjugate. In *International Journal of Biological Macromolecules*, 2012, vol. 51, p. 794-799. (2011: 2.453 - IF, Q3 - JCR, 0.692 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2012.07.015>

Ohlasy:

1. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA,

- Hiroaki - CIZ, Milan - OGNYANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin - BATSALOVA, Tsvetelina G. - DZHAMBASOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS
2. [1.1] JURECEKOVA, Jana - NOSALOVA, Gabriela - JURECEK, Ludovit - CSOLLEI, Jozef - SIVOVA, Veronika - NOSAL, Slavomir. Antitussive activity of alcoxypheyl carbamic acid analogues. In GENERAL PHYSIOLOGY AND BIOPHYSICS. ISSN 0231-5882, 2018, vol. 37, no. 3, pp. 337-343., Registrované v: WOS
3. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reivew. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
4. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from Hovenia dulcis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.211>., Registrované v: WOS
5. [1.1] PIWOWARSKI, Jakub P. - GRANICA, Sebastian - KISS, Anna K. Lythrum salicaria L.-Underestimated medicinal plant from European traditional medicine. A review. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 170, no., pp. 226-250., Registrované v: WOS
6. [1.1] RAAFAT, K. - EL-LAKANY, A. Acute and subchronic in-vivo effects of Ferula hermonis L. and Sambucus nigra L. and their potential active isolates in a diabetic mouse model of neuropathic pain. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2015, vol. 15, no., pp., Registrované v: WOS
7. [1.1] REYNOSO, M. A. - BRODKIEWICS, I. Y. - VILLAGRA, J. - BALDERRRAMA COCA, M. E. - SANCHEZ RIERA, A. N. - VERA, N. R. EVALUATION OF ANTITUSSIVE AND EXPECTORANT POTENTIAL OF ZIZIPHUS MISTOL FRUITS (MISTOL). In INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH. ISSN 0975-8232, 2017, vol. 8, no. 9, pp. 3726-3733., Registrované v: WOS
8. [1.1] TSIRIGOTIS-MANIECKA, Marta - SZYK-WARSZYNSKA, Lilianna - MICHNA, Aneta - WARSZYNSKI, Piotr - WILK, Kazimiera A. Colloidal characteristics and functionality of rationally designed esculin-loaded hydrogel microcapsules. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2018, vol. 530, no., pp. 444-458., Registrované v: WOS
9. [1.1] WU, Ding-Tao - LIU, Wen - XIAN, Mei-Lin - DU, Gang - LIU, Xin - HE, Jing-Jing - WANG, Ping - QIN, Wen - ZHAO, Li.

Polyphenolic-Protein-Polysaccharide Complexes from *Hovenia dulcis*: Insights into Extraction Methods on Their Physicochemical Properties and In Vitro Bioactivities. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na:

<https://doi.org/10.3390/foods9040456>., Registrované v: WOS

10. [1.1] ZHONG, Shan - LIU, Xiao-dong - NIE, Yi-chu - GAN, Zhen-yong - YANG, Li-qi - HUANG, Chu-qin - LAI, Ke-fang - ZHONG, Nan-shan. Antitussive activity of the *Schisandra chinensis* fruit polysaccharide (SCFP-1) in guinea pigs models. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2016, vol. 194, no., pp. 378-385., Registrované v: WOS

11. [1.2] RAAFAT, Karim - EL-HAJ, Rawan - SHOUMAR, Dania - ALAAEDDINE, Rana - FAKHRO, Yousra - TAWIL, Natalie - SHAER, Farah - DAHER, Amani - AWADA, Natalie - SABRA, Ali - ATWI, Khoulood - KHALED, Malak - MESSI, Raneem - ABOUZAHER, Nour - HOURI, Mohamed - AL JALLAD, Samer. Neuropathic pain: Literature review and recommendations of potential phytotherapies. In *Pharmacognosy Journal*, 2017-05-01, 9, 4, pp. 425-434., Registrované v: SCOPUS

12. [1.2] SAEED, Farah - AHMAD, Mansoor. *Sambucus Nigra* linn: In vivo studies on rabbits. In *International Journal of Pharmacy and Pharmaceutical Sciences*, 2016-01-01, 8, 7, pp. 340-345., Registrované v: SCOPUS

ADCA1312 ŠUTOVSKÁ, Martina - CAPEK, Peter - KAZIMIEROVÁ, Ivana - PAPPOVÁ, Lenka - JOŠKOVÁ, Marta - MATULOVÁ, Mária - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Echinacea complex – chemical view and anti-asthmatic profile. In *Journal of Ethnopharmacology*, 2015, vol. 175, p. 163-171. (2014: 2.998 - IF, Q1 - JCR, 1.196 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0378-8741. Dostupné na: <https://doi.org/10.1016/j.jep.2015.09.007>

Ohlasy:

1. [1.1] DU, Yan - WANG, Zhibin - WANG, Libo - GAO, Mingjie - WANG, Liqian - GAN, Chunli - YANG, Chunjuan. Simultaneous Determination of Seven Phenolic Acids in Rat Plasma Using UHPLC-ESI-MS/MS after Oral Administration of *Echinacea purpurea* Extract. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 9, pp., Registrované v: WOS

2. [1.1] GULLEDGE, Travis V. - COLLETTE, Nicholas M. - MACKEY, Emily - JOHNSTONE, Stephanie E. - MOAZAMI, Yasamin - TODD, Daniel A. - MOESER, Adam J. - PIERCE, Joshua G. - CECH, Nadja B. - LASTER, Scott M. Mast cell degranulation and calcium influx are inhibited by an *Echinacea purpurea* extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2018, vol. 212, no., pp. 166-174., Registrované v: WOS

3. [1.1] HANAFY, Amr Shaaban - ABD-ELSALAM, Sherief. Challenges in COVID-19 drug treatment in patients with advanced liver diseases: A hepatology perspective. In *WORLD JOURNAL OF GASTROENTEROLOGY*. ISSN 1007-9327, 2020, vol. 26, no. 46, pp. 7272-7286. Dostupné na: <https://doi.org/10.3748/wjg.v26.i46.7272>., Registrované v: WOS

4. [1.1] LIU, Fang - XUAN, Nan-Xia - YING, Song-Min - LI, Wen - CHEN, Zhi-Hua - SHEN, Hua-Hao. Herbal Medicines for Asthmatic Inflammation: From Basic Researches to Clinical Applications. In *MEDIATORS*

- OF INFLAMMATION. ISSN 0962-9351, 2016., Registrované v: WOS
5. [1.1] SHARIFI-RAD, Mehdi - MNAYER, Dima - BEZERRA MORAIS-BRAGA, Maria Flaviana - PEREIRA CARNEIRO, Joara Nalyda - BEZERRA, Camila Fonseca - MELO COUTINHO, Henrique Douglas - SALEHI, Bahare - MARTORELL, Miquel - DEL MAR CONTRERAS, Maria - SOLTANI-NEJAD, Azam - HATA URIBE, Yoshie Adriana - YOUSAF, Zubaida - IRITI, Marcello - SHARIFI-RAD, Javad. Echinacea plants as antioxidant and antibacterial agents: From traditional medicine to biotechnological applications. In *PHYTOTHERAPY RESEARCH*. ISSN 0951-418X, 2018, vol. 32, no. 9, pp. 1653-1663., Registrované v: WOS
6. [1.1] WYNENDAELE, Evelien - DE SPIEGELEER, Bart - GEVAERT, Bert - JANSSENS, Yorick - SULEMAN, Sultan - CATTOOR, Steven - SAUNDERS, Jimmy H. - VERYSER, Lieselotte. Regulatory status of N-alkylamide containing health products. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2018, vol. 98, no., pp. 215-223., Registrované v: WOS
7. [1.2] AHMAD, Khalid Masood - ZAFAR, Zafarullah - MIRZA, Javed Iqbal. Effect of plant growth regulators on shoot organogenesis and somatic embryogenesis of *Echinacea purpurea* L. In *Pakistan Journal of Life and Social Sciences*. ISSN 17274915, 2017-01-01, 15, 2, pp. 107-113., Registrované v: SCOPUS
8. [3.2] KOPYTKO, Ya.F.; MIZINA, P.G.; MASESE, P.M.; et al. Elaboration methods of quantitative determination phenol aldehyde and phenolic acids in liquid dosage form for external application, containing plant extracts. In *Voprosy biologicheskoi, meditsinskoi i farmatsevticheskoi khimii*, 2016, iss. 8, p. 3-9, Registrované v: Russian Science Citation Index

ADCA1313 ŠUTOVSKÁ, Martina - CAPEK, Peter - KOČMÁLOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Characterization and biological activity of *Solidago canadensis* complex. In *International Journal of Biological Macromolecules*, 2013, vol. 52, p. 192-197. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, Current Contents - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2012.09.021>

Ohlasy:

1. [1.1] BALEZENTIENE, L. Secondary metabolite accumulation and phytotoxicity of invasive species *Solidago canadensis* L. during the growth period. In *ALLELOPATHY JOURNAL*. ISSN 0971-4693, 2015, vol. 35, no. 2, pp. 217-226., Registrované v: WOS
2. [1.1] DOBJANSCHI, Luciana - FRITEA, Luminita - PATAY, Eva Brigitta - TAMAS, Mircea. Comparative study of the morphological and phytochemical characterization of Romanian *Solidago* species. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2019, vol. 32, no. 4, pp. 1571-1579., Registrované v: WOS
3. [1.1] ELSHAFIE, Hazem S. - GRUL'OVA, Daniela - BARANOVA, Beata - CAPUTO, Lucia - DE MARTINO, Laura - SEDLAK, Vincent - CAMELE, Ippolito - DE FEO, Vincenzo. Antimicrobial Activity and Chemical Composition of Essential Oil Extracted from *Solidago canadensis* L. Growing Wild in Slovakia. In *MOLECULES*. ISSN 1420-3049, 2019, vol. 24, no. 7, pp., Registrované v: WOS

4. [1.1] FANG C.; ZHOU M.; Li Fangfang; ZHOU S.; YANG Y.; YANG W. Adsorption of Cr(VI) from aqueous solution by modified *Solidago canadensis*. IN *Huanjing Huaxue-Environmental Chemistry*, 2016, vol. 35, issue 4, p. 773-782, Registrované v: WOS
5. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In *THERAPEUTIC FOODS*, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS
6. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reiew. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
7. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from *Hovenia dulcis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.211>., Registrované v: WOS
8. [1.1] RADUSIENE, Jolita - MARSKA, Mindaugas - IVANAUSKAS, Liudas - JAKSTAS, Valdas - KARPAVICIENE, Birute. Assessment of phenolic compound accumulation in two widespread goldenrods. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2015, vol. 63, no., pp. 158-166., Registrované v: WOS
9. [1.1] WOZNIAK, Dorota - SLUSARCZYK, Sylwester - DOMARADZKI, Krzysztof - DRYŚ, Andrzej - MATKOWSKI, Adam. Comparison of Polyphenol Profile and Antimutagenic and Antioxidant Activities in Two Species Used as Source of *Solidagin* herba Goldenrod. In *CHEMISTRY & BIODIVERSITY*. ISSN 1612-1872, 2018, vol. 15, no. 4, pp., Registrované v: WOS
10. [1.1] WU, Ding-Tao - LIU, Wen - XIAN, Mei-Lin - DU, Gang - LIU, Xin - HE, Jing-Jing - WANG, Ping - QIN, Wen - ZHAO, Li. Polyphenolic-Protein-Polysaccharide Complexes from *Hovenia dulcis*: Insights into Extraction Methods on Their Physicochemical Properties and In Vitro Bioactivities. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040456>., Registrované v: WOS
11. [1.1] ZIHARE, Lauma - BLUMBERGA, Dagnija. Insight into bioeconomy. *Solidago canadensis* as a valid resource. Brief review. In *INTERNATIONAL SCIENTIFIC CONFERENCE ENVIRONMENTAL AND CLIMATE TECHNOLOGIES (CONECT 2017)*. ISSN 1876-6102, 2017, vol. 128, no., pp. 275-280., Registrované v: WOS
12. [1.2] FEHÉR, Alexander - HALMOVÁ, Daniela - FEHÉR-PINDEŠOVÁ, Iveta - ZAJÁC, Peter - ČAPLA, Jozef. Distribution of invasive plants in the Nitra river basin: Threats and benefits for food production. In *Potravinárstvo*. ISSN 13380230, 2016-01-01, 10, 1, pp. 605-611., Registrované v: SCOPUS

13. [1.2] SHELEPOVA, Olga - VINOGRADOVA, Yulia - VERGUN, Olena - GRYGORIEVA, Olga - BRINDZA, Jan. Invasive solidago Canadensis L. as a resource of valuable biological compounds. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2019-01-01, 13, 1, pp. 280-286., Registrované v: SCOPUS

ADCA1314 ŠUTOVSKÁ, Martina - CAPEK, Peter - KOČMALOVÁ, Mária - PAWLACZYK, Izabela - ZACZYŃSKA, Eva - CZARNY, Anna - UHLIARIKOVÁ, Iveta - GANCARZ, Roman - FRAŇOVÁ, Soňa. Characterization and pharmacodynamic properties of Arnica montana complex. In *International Journal of Biological Macromolecules*, 2014, vol. 69, p. 214-221. (2013: 3.096 - IF, Q2 - JCR, 0.849 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2014.05.051>

Ohlasy:

1. [1.1] COSTA BIESKI, Isanete Geraldini - LEONTI, Marco - ARNASON, John Thor - FERRIER, Jonathan - RAPINSKI, Michel - POVOA VIOLANTE, Ivana Maria - BALOGUN, Sikiru Olaitan - COSTA ALVES PEREIRA, Joao Filipe - FEGURI FIGUEIREDO, Rita de Cassia - ARAUJO SOARES LOPES, Celia Regina - DA SILVA, Dennis Rodrigues - PACINI, Aloir - ALBUQUERQUE, Ulysses Paulino - DE OLIVEIRA MARTINS, Domingos Tabajara. Ethnobotanical study of medicinal plants by population of Valley of Juruena Region, Legal Amazon, Mato Grosso, Brazil. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2015, vol. 173, no., pp. 383-423., Registrované v: WOS

2. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reievw. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

3. [1.1] MARZOTTO, Marta - BONAFINI, Clara - OLIOSO, Debora - BARUZZI, Anna - BETTINETTI, Laura - DI LEVA, Francesca - GALBIATI, Elisabetta - BELLAVITE, Paolo. Arnica montana Stimulates Extracellular Matrix Gene Expression in a Macrophage Cell Line Differentiated to Wound-Healing Phenotype. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS

4. [1.1] OLIOSO, Debora - MARZOTTO, Marta - BONAFINI, Clara - BRIZZI, Maurizio - BELLAVITE, Paolo. Response to Commentary: Arnica montana Effects on Gene Expression in a Human Macrophage Cell Line. Evaluation by Quantitative Real-Time PCR. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2016, vol. 7, no., pp., Registrované v: WOS

5. [1.1] OLIOSO, Debora - MARZOTTO, Marta - BONAFINI, Clara - BRIZZI, Maurizio - BELLAVITE, Paolo. Arnica montana effects on gene expression in a human macrophage cell line. Evaluation by quantitative Real-Time PCR. In HOMEOPATHY. ISSN 1475-4916, 2016, vol. 105, no. 2, pp. 131-147., Registrované v: WOS

6. [1.1] PAOLO, Bellavite - MARTA, Marzotto - CLARA, Bonafini. Arnica montana experimental studies: confounders and biases? In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, 2018, vol. 16, no. 2, pp.

72-76., Registrované v: WOS

7. [1.2] SILVA, Edmundo - PEREIRA, Vanessa Fernandes - VASCONCELLOS, Luana Marotta Reis de - OLIVEIRA, Felipe Eduardo de - BRANDÃO, Adriana Aigotti Haberbeck. Quality of bone repair in ovariectomized rats with bone lesions treated with phytotherapeutic and homeopathic Arnica montana. In Brazilian Dental Science, 2017-01-01, 20, 1, pp. 25-31., Registrované v: SCOPUS

8. [1.2] SILVA, Edmundo - PEREIRA, Vanessa Fernandes - VASCONCELLOS, Luana Marotta Reis de - OLIVEIRA, Felipe Eduardo de - BRANDÃO, Adriana Aigotti Haberbeck. Quality of bone repair in ovariectomized rats with bone lesions treated with phytotherapeutic and homeopathic Arnica montana. In Brazilian Dental Science, 2017-01-01, 20, 1, pp. 25-31., Registrované v: SCOPUS

ADCA1315 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - ŠUTOVSKÝ, J. - FRAŇOVÁ, Soňa - PRÍSENŽŇÁKOVÁ, Ľubica - CAPEK, Peter. Possible mechanisms of dose-dependent cough suppressive effect of Althaea officinalis rhamnogalacturonan in guinea pigs test system. J. Šutovský, Soňa Fraňová, Ľubica Prísenžňáková, Peter Capek. In *International Journal of Biological Macromolecules*, 2009, vol.45, pp.27-32. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2009.03.008>

Ohlasy:

1. [1.1] ALAMGEER - YOUNIS, Waqas - ASIF, Hira - SHARIF, Amber - RIAZ, Humayun - BUKHARI, Ishfaq Ali - ASSIRI, Asaad Mohamed. Traditional medicinal plants used for respiratory disorders in Pakistan: a review of the ethno-medicinal and pharmacological evidence. In CHINESE MEDICINE. ISSN 1749-8546, 2018, vol. 13, no., pp., Registrované v: WOS

2. [1.1] ASNAASHARI, Solmaz - DASTMALCHI, Siavash - JAVADZADEH, Yousef. Gastroprotective effects of herbal medicines (roots). In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2018, vol. 21, no. 1, pp. 901-919., Registrované v: WOS

3. [1.1] AYRLE, Hannah - MEVISSEN, Meike - KASKE, Martin - NATHUES, Heiko - GRUETZNER, Niels - MELZIG, Matthias - WALKENHORST, Michael. Medicinal plants prophylactic and therapeutic options for gastrointestinal and respiratory diseases in calves and piglets? A systematic review. In BMC VETERINARY RESEARCH. ISSN 1746-6148, 2016, vol. 12, no., pp., Registrované v: WOS

4. [1.1] BANAEI, Mahdi - SOLEIMANY, Vahid - HAGHI, Behzad Nematdoost. Therapeutic effects of marshmallow (Althaea officinalis L.) extract on plasma biochemical parameters of common carp infected with Aeromonas hydrophila. In VETERINARY RESEARCH FORUM. ISSN 2008-8140, 2017, vol. 8, no. 2, pp. 145-153., Registrované v: WOS

5. [1.1] GHANATI, F. - MOALLEMI, R. - AGHDASI, M. Boron effects on wall polysaccharide composition of marshmallow cells. In IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE. ISSN 1028-6276, 2015, vol. 39, no. A4, pp. 497-501., Registrované v: WOS

6. [1.1] KELLO, Martin - KULIKOVA, Lucia - VASKOVA, Janka - NAGYOVA, Alexandra - MOJZIS, Jan. Fruit Peel Polyphenolic Extract-Induced

- Apoptosis in Human Breast Cancer Cells Is Associated with ROS Production and Modulation of p38MAPK/Erk1/2 and the Akt Signaling Pathway. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2017, vol. 69, no. 6, pp. 920-931., Registrované v: WOS
7. [1.1] KHAWAS, Sadhana - NOSAL'OVA, Gabriela - MAJEE, Sujay Kumar - GHOSH, Kanika - RAJA, Washim - SIVOVA, Veronika - RAY, Bimalendu. In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic effect with piperine. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 335-342., Registrované v: WOS
8. [1.1] MAHBOUBI, Mohaddese. Management of acute cough by Zataria multiflora Boiss as an alternative treatment. In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, 2018, vol. 16, no. 1, pp. 20-25., Registrované v: WOS
9. [1.1] MAHBOUBI, Mohaddese. Marsh Mallow (*Althaea officinalis*L.) and Its Potency in the Treatment of Cough. In COMPLEMENTARY MEDICINE RESEARCH. ISSN 2504-2092, 2020, vol. 27, no. 3, pp. 174-182. Dostupné na: <https://doi.org/10.1159/000503747>., Registrované v: WOS
10. [1.1] NAZ, Ruphi - ANIS, Mohammad - ALATAR, Abdulrahman A. Embling Production in *Althaea officinalis* L., Through Somatic Embryogenesis and Their Appraisal via Histological and Scanning Electron Microscopical Studies. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 3, pp. 1182-1197., Registrované v: WOS
11. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS
12. [1.1] ZHONG, Shan - LIU, Xiao-dong - NIE, Yi-chu - GAN, Zhen-yong - YANG, Li-qi - HUANG, Chu-qin - LAI, Ke-fang - ZHONG, Nan-shan. Antitussive activity of the *Schisandra chinensis* fruit polysaccharide (SCFP-1) in guinea pigs models. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2016, vol. 194, no., pp. 378-385., Registrované v: WOS
13. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In Zeitschrift fur Phytotherapie. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209., Registrované v: SCOPUS
14. [1.2] ARAB, Atefeh - YAZDIAN-ROBATI, Rezvan - REZAEI-SERESHT, Hasan - EHTESHAM-GHARAEI, Melika - SOLTANI, Fatemeh. Evaluation of neuroprotective effect of *althaea officinalis* flower aqueous and methanolic extracts against Hinf2/infOinf2/inf-induced oxidative stress in PC12 cells. In Iranian Journal of Pharmaceutical Sciences. ISSN 17352444, 2017-12-01, 13, 1, pp. 49-56., Registrované v: SCOPUS
15. [1.2] MEYGHAN, Narges - MORADI, Pezhman. The effect of nitrogen and phosphorous fertilizers on morphophysiological properties of *Althaea officinalis*. In Iranian Journal of Plant Physiology. ISSN 22285512, 2018-06-01, 8, 4, pp. 2563-2571., Registrované v: SCOPUS

16. [1.2] TWAIJ, Baan M. - ALWAN, Adel H. Anti-fungal activity of *Althaea officinalis* L. Tissue culture extracts. In *Plant Archives*. ISSN 09725210, 2018-10-01, 18, 2, pp. 2053-2057., Registrované v: SCOPUS

ADCA1316 ŠUTOVSKÁ, Martina - KOČMÁLOVÁ, Michaela - PAPPOVÁ, Lenka - FRAŇOVÁ, Soňa - CHYBA, Andrej - KOPECKÝ, Jiří - LUKAVSKÝ, Jaromír - CEPÁK, Vladislav - CAPEK, Peter. The chemical profile and pharmacodynamic properties of extracellular *Wollea saccata* biopolymer. In *International Journal of Biological Macromolecules*, 2017, vol. 103, p. 863-869. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.05.014>

Ohlasy:

1. [1.1] BHATNAGAR, Monica - BHATNAGAR, Ashish. Diversity of Polysaccharides in Cyanobacteria. In *MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS: VOL 1. MICROBIAL DIVERSITY IN NORMAL & EXTREME ENVIRONMENTS*, 2019, vol., no., pp. 447-496., Registrované v: WOS

2. [1.2] LU, Yu Zhen - XU, Dan Ni - ZHOU, Yi Wei - BAO, Jiang Qiao - LI, Hua Shou - HE, Hong Zhi. Research progress of pharmacological active substances from diazotrophic cyanobacteria. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-09-28, 49, 18, pp. 4453-4460., Registrované v: SCOPUS

ADCA1317 ŠUTOVSKÁ, M. - FRAŇOVÁ, S. - SADLOŇOVÁ, V. - GRONHAUG, T.E. - DIALLO, D. - PAULSEN, B.S. - CAPEK, Peter. The relationship between dose-dependent antitussive and bronchodilatory effects of *Opilia celtidifolia* polysaccharide and nitric oxide in guinea pigs. In *International Journal of Biological Macromolecules*, 2010, vol. 47, p. 508-513. (2009: 2.366 - IF, Q3 - JCR, 0.806 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2010.07.006>

Ohlasy:

1. [1.1] MAGID, Abdulmagid Alabdul - ABDELLAH, Anaëlle - PECHER, Virginie - PASQUIER, Laure - HARAKAT, Dominique - VOUTQUENNE-NAZABADIOKO, Laurence. Flavonol glycosides and lignans from the leaves of *Opilia amentacea*. In *PHYTOCHEMISTRY LETTERS*. ISSN 1874-3900, 2017, vol. 21, no., pp. 84-89., Registrované v: WOS

2. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS

3. [1.1] ZHONG, Shan - LIU, Xiao-dong - NIE, Yi-chu - GAN, Zhen-yong - YANG, Li-qi - HUANG, Chu-qin - LAI, Ke-fang - ZHONG, Nan-shan. Antitussive activity of the *Schisandra chinensis* fruit polysaccharide (SCFP-1) in guinea pigs models. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2016, vol. 194, no., pp. 378-385., Registrované v: WOS

4. [1.2] Harding, S. E., Tombs, M. P., Adams, G. G., Paulsen, B. S.,

Inngjerdingen, K. T., & Barsett, H. (2017). In An Introduction to Polysaccharide Biotechnology (2nd ed.) (CRC Press, pp. 1-225), Registrované v: SCOPUS

ADCA1318 ŠVEC, F. - GEMEINER, Peter. Engineering aspects of carriers for immobilized biocatalysts. In *Biotechnology and genetic engineering reviews*, 1995, vol. 13, p. 217-235. ISSN 0264-8725.

Ohlasy:

1. [1.1] PRAKASH, Om - KHARE, Saumya. Immobilization of alpha-amylases and Their Analytical Applications. In *BIOCATALYSIS: ENZYMATIC BASICS AND APPLICATIONS*, 2019, vol., no., pp. 113-138., Registrované v: WOS
2. [1.2] AGYEI, D. - SHANBHAG, B. K. - HE, L. Enzyme engineering (immobilization) for food applications. In *Improving and Tailoring Enzymes for Food Quality and Functionality*, 2015-08-03, pp. 213-235., Registrované v: SCOPUS
3. [1.2] SHETTY, Premalatha - JAFFER, Maleka. Chemical coupling of glucoamylase produced by *Arthrobotrys conoides* onto cotton cloth and *Ocimum basilicum* seeds and characterization of the immobilized enzyme. In *Journal of Microbiology, Biotechnology and Food Sciences*, 2017-01-01, 6, 5, pp. 1127-1131., Registrované v: SCOPUS

ADCA1319 ŠVITEL, Juraj - TKÁČ, Ján - VOŠTIAR, I. - NAVRÁTIL, M. - ŠTEFUCA, Vladimír - BUČKO, Marek - GEMEINER, Peter. Gluconobacter in biosensors: applications of whole cells and enzymes isolated from *Gluconobacter* and *Acetobacter* to biosensor construction. In *Biotechnology Letters*, 2006, vol. 28, p. 2003-2010. (2005: 1.108 - IF, Q3 - JCR, 0.468 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-006-9195-3>

Ohlasy:

1. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in *Gluconobacter oxydans* Based Microbial Fuel Cell. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
2. [1.1] GIMKIEWICZ, Carla - HUNGER, Steffi - HARNISCH, Falk. Evaluating the Feasibility of Microbial Electrosynthesis Based on *Gluconobacter oxydans*. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2016, vol. 3, no. 9, pp. 1337-1346., Registrované v: WOS
3. [1.1] GORDEGIR, Meleknur - OZ, Sultan - YEZER, Irem - BUHUR, Merve - UNAL, Betul - DEMIRKOL, Dilek Odaci. Cells-on-nanofibers: Effect of polyethyleneimine on hydrophobicity of poly-epsilon-caprolacton electrospun nanofibers and immobilization of bacteria. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2019, vol. 126, no., pp. 24-31., Registrované v: WOS
4. [1.1] KAMANIN, S. S.; ARLYAPOV, V. A.; PONAMOREVA, O. N.; BLOKHIN, I. V.; ALFEROV, V. A.; RESHETILOV, A. N. SCREEN-PRINTED ELECTRODES MODIFIED WITH PROTEIN HYDROGEL AND BACTERIAL CELLS AS THE BASIS OF AMPEROMETRIC BIOSENSOR. IN *Sensornye Sistemy*, 2017, vol. 1, issue 2, p. 161-171, Registrované v: WOS

5. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
6. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS
7. [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In *CURRENT TOPICS IN MEDICINAL CHEMISTRY*. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/15680266200666200306131416>., Registrované v: WOS
8. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by Gluconobacter oxydans Bacterial Cells. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
9. [1.1] SIEPENKOETTER, Till - SALAJ-KOSLA, Urszula - MAGNER, Edmond. The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 905-912., Registrované v: WOS
10. [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi - CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS

ADCA1320 ŠVITEL, J. - VOŠTIAR, I. - GEMEINER, Peter - DANIELSSON, B. Determination of citrate by FIA using immobilized Enterobacter aerogenes cells and enzyme thermistor/flow microcalorimeter detection. In *Biotechnology Techniques*, 1997, vol. 11, p. 917-919. Dostupné na: <https://doi.org/10.1023/A:1018422618957>
Ohlasy:

1. [1.1] SUN, Qiyong - TU, Jiawei - YAROSHENKO, Irina - KIRSANOV, Dmitry - LEGIN, Andrey - WANG, Ping. Enzymatic determination of urinary citrate based on flow injection system using NUV spectroscopy and PLS regression. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 251, no., pp. 1050-1058., Registrované v: WOS

ADCA1321 ŠVITEL, J. - TKÁČ, Ján - VOŠTIAR, I. - NAVRÁTIL, M. - ŠTEFUCA, Vladimír - BUČKO, Marek - GEMEINER, Peter. Erratum: Gluconobacter in biosensors: applications of whole cells and enzymes isolated from Gluconobacter and Acetobacter to biosensor construction (*Biotechnology Letters*, 2006, vol. 28, p. 2003-2010). In *Biotechnology Letters*, 2007, vol. 29, p. 509. (2006:

1.134 - IF, Q3 - JCR, 0.546 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0141-5492.

Ohlasy:

1. [1.1] KAUR, Satinderpal - KHATRI, Madhu - ARYA, Shailendra Kumar - SINGH, Gursharan. Stimulating effect of nanoparticles and salts on thermo and halo-tolerant cell-bonded laccase synthesis in *Acinetobacter* sp. UIETPU. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2019, vol. 18, no., pp., Registrované v: WOS

ADCA1322 TALÁBA, P. - SROKOVÁ, I. - EBRINGEROVÁ, Anna - HODÚL, P. - MARCINČIN, A. Cellulose-based biodegradable polymeric surfactant. In *Journal of carbohydrate chemistry*, 1997, vol. 16, p. 573-582. ISSN 0732-8303.

Ohlasy:

1. [1.1] HAN, Na - ZHANG, Wenxin - WANG, Weijing - YANG, Chao - TAN, Linli - CUI, Zhenyu - LI, Wei - ZHANG, Xingxiang. Amphiphilic cellulose for enhancing the antifouling and separation performances of poly (acrylonitrile-co-methyl acrylate) ultrafiltration membrane. In *JOURNAL OF MEMBRANE SCIENCE*. ISSN 0376-7388, 2019, vol. 591, no., pp., Registrované v: WOS
2. [1.1] HARNISCH, Henrik - HUEHNER, Jens - NEUSUESS, Christian - KOSCHELLA, Andreas - HEINZE, Thomas - SCRIBA, Gerhard K. E. Development and validation of a capillary electrophoresis method for the characterization of sulfoethyl cellulose. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2016, vol. 39, no. 23, pp. 4645-4652., Registrované v: WOS
3. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS
4. [1.1] NADERI, Ali - KOSCHELLA, Andreas - HEINZE, Thomas - SHIH, Kuo-Chih - NIEH, Mu-Ping - PFEIFER, Annett - CHANG, Chung-Chueh - ERLANDSSON, Johan. Sulfoethylated nanofibrillated cellulose: Production and properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 169, no., pp. 515-523., Registrované v: WOS

ADCA1323 TALAFOVÁ, Klaudia - NAHÁLKA, Jozef. "Lost sugars" - reality of their biological and medical applications. In *Central European Journal of Biology*, 2012, vol. 7, p. 777-793. (2011: 1.000 - IF, Q3 - JCR, Current Contents - CCC). (2012 - Current Contents). ISSN 1895-104X. Dostupné na: <https://doi.org/10.2478/s11535-012-0079-3>

Ohlasy:

1. [1.1] ROHRIG, Christoph H. - CHOI, Sharon S. H. - BALDWIN, Nigel. The nutritional role of free sialic acid, a human milk monosaccharide, and its application as a functional food ingredient. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 5, pp. 1017-1038., Registrované v: WOS

ADCA1324 TAPPINO, Barbara - CHUZHANOVA, Nadia A. - REGIS, Stefano - DARDIS, Andrea - CORSOLINI, Fabio - STROPPIANO, Marina - TONOLI, Emmanuel - BECCARI, Tomasso - MUCHA, Ján - BLANCO, Mariana - SZLAGO,

Marina - DI ROCCO, Maja - COOPER, David N. - FILOCAMO, Mirella.
Molecular Characterization of 22 Novel UDP-N-Acetylglucosamine-1-Phosphate Transferase α - and β - Subunit (GNTFAB) Gene Mutations Causing Mucopolidosis Types II α /beta and III α /beta in 46 Patients. In *Human Mutation*, 2009, vol. 30, e956-E973. (2008: 7.033 - IF, Q1 - JCR, 2.421 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1059-7794. Názov prebraný z obrazovky. Dostupné na: <https://doi.org/10.1002/humu.21099>

Ohlasy:

1. [1.1] Gusina, A.A.; Gusina, N.B.; Kulak, V.D.; Naumchik, I.V.; Rumiantseva, N.V.; Budzeika, A.S.; Krinickaja, K.A.; Stalybko, A.S. Homozygous mutation p. Arg375X as the cause of mucopolidosis II α /beta: analysis of two cases. In: *Medical Genetics*, Vol. 18 (2019), Issue: 5, p. 37-43, Registrované v: WOS
2. [1.1] KAMAT, Mihir Anant - BACOLLA, Albino - COOPER, David N. - CHUZHANOVA, Nadia. A Role for Non-B DNA Forming Sequences in Mediating Microlesions Causing Human Inherited Disease. In *HUMAN MUTATION*. ISSN 1059-7794, 2016, vol. 37, no. 1, pp. 65-73., Registrované v: WOS
3. [1.1] KOEHNE, Till - MARKMANN, Sandra - SCHWEIZER, Michaela - MUSCHOL, Nicole - FRIEDRICH, Reinhard E. - HAGEL, Christian - GLATZEL, Markus - KAHL-NIEKE, Baerbel - AMLING, Michael - SCHINKE, Thorsten - BRAULKE, Thomas. Mannose 6-phosphate-dependent targeting of lysosomal enzymes is required for normal craniofacial and dental development. In *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR BASIS OF DISEASE*. ISSN 0925-4439, 2016, vol. 1862, no. 9, pp. 1570-1580., Registrované v: WOS
4. [1.1] LIU, Shuang - ZHANG, Weimin - SHI, Huiping - YAO, Fengxia - WEI, Min - QIU, Zhengqing. Mutation Analysis of 16 Mucopolidosis II and III α /beta Chinese Children Revealed Genotype-Phenotype Correlations. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 9, pp., Registrované v: WOS
5. [1.1] MATOS, Liliana - VILELA, Regina - ROCHA, Melissa - SANTOS, Juliana - COUTINHO, Maria Francisca - GASPAR, Paulo - PRATA, Maria Joao - ALVES, Sandra. Development of an Antisense Oligonucleotide-Mediated Exon Skipping Therapeutic Strategy for Mucopolidosis II: Validation at RNA Level. In *HUMAN GENE THERAPY*. ISSN 1043-0342, 2020, vol. 31, no. 13-14, pp. 775-783. Dostupné na: <https://doi.org/10.1089/hum.2020.034>., Registrované v: WOS
6. [1.1] PASUMARTHI, Divya - GUPTA, Neerja - SHETH, Jayesh - JAIN, S. Jamal Md Nurul - RUNGSUNG, Ikromi - KABRA, Madhulika - RANGANATH, Prajnya - AGGARWAL, Shagun - PHADKE, Shubha R. - GIRISHA, Katta M. - SHUKLA, Anju - DATAR, Chaitanya - VERMA, Ishwar C. - PURI, Ratna Dua - BHAVSAR, Riddhi - MISTRY, Mehul - SANKAR, V. H. - GOWRISHANKAR, Kalpana - AGRAWAL, Divya - NAIR, Mohandas - DANDA, Sumita - SONI, Jai Prakash - DALAL, Ashwin. Identification and characterization of 30 novel pathogenic variations in 69 unrelated Indian patients with Mucopolidosis Type II and Type III. In *JOURNAL OF HUMAN GENETICS*. ISSN 1434-5161, 2020, vol. 65, no. 11, pp. 971-984. Dostupné na: <https://doi.org/10.1038/s10038-020-0797-8>., Registrované v: WOS
7. [1.1] QIAN, Yi - VAN MEEL, Eline - FLANAGAN-STEET, Heather

- YOX, Alex - STEET, Richard - KORNFIELD, Stuart. Analysis of Mucopolipidosis II/III GNPTAB Missense Mutations Identifies Domains of UDP-GlcNAc: lysosomal Enzyme GlcNAc-1-phosphotransferase Involved in Catalytic Function and Lysosomal Enzyme Recognition. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2015, vol. 290, no. 5, pp. 3045-3056., Registrované v: WOS
8. [1.1] SOARES, Malu Bettio - TURCHETTO-ZOLET, Andreia C. - SCHWARTZ, Ida V. D. - SPERB-LUDWIG, Fernanda. Haplotype analysis and origin of the most common pathogenic mutation causing Mucopolipidosis II and III alpha/beta in Brazilian patients. In GENE REPORTS, 2020, vol. 19, no., pp. Dostupné na: <https://doi.org/10.1016/j.genrep.2020.100645>., Registrované v: WOS
9. [1.1] WANG, Yu - YE, Jun - QIU, Wen-juan - HAN, Lian-shu - GAO, Xiao-lan - LIANG, Li-li - GU, Xue-fan - ZHANG, Hui-wen. Identification of predominant GNPTAB gene mutations in Eastern Chinese patients with mucopolipidosis II/III and a prenatal diagnosis of mucopolipidosis II. In ACTA PHARMACOLOGICA SINICA. ISSN 1671-4083, 2019, vol. 40, no. 2, pp. 279-287., Registrované v: WOS
10. [1.1] WOOD, Kirsten A. - ZAMBRANO, Regina M. - CHEEK, Bradley J. - ARCEMENT, Christopher - HAYMON, Marie - STEINKAMPF, Jessica - SAMPATH, Srirangan - HYLAND, James C. - LACASSIE, Yves. Neonatal mucopolipidosis type II alpha/beta due to compound heterozygosity for a known and novel GNPTAB mutation, and a concomitant heterozygous change in SERPINF1 inherited from the mother. In CLINICAL CASE REPORTS. ISSN 2050-0904, 2017, vol. 5, no. 4, pp. 431-434., Registrované v: WOS
11. [1.1] ZANETTI, Alessandra - D'AVANZO, Francesca - BERTOLDI, Loris - ZAMPIERI, Guido - FELTRIN, Erika - DE PASCALE, Fabio - RAMPAZZO, Angelica - FORZAN, Monica - VALLE, Giorgio - TOMANIN, Rosella. Setup and Validation of a Targeted Next-Generation Sequencing Approach for the Diagnosis of Lysosomal Storage Disorders. In JOURNAL OF MOLECULAR DIAGNOSTICS. ISSN 1525-1578, 2020, vol. 22, no. 4, pp. 488-502. Dostupné na: <https://doi.org/10.1016/j.jmoldx.2020.01.010>., Registrované v: WOS
12. [1.1] ZRHIDRI, Abdelali - AMASDL, Saadia - LYAHYAI, Jaber - ELOUARDI, Hanane - CHKIRATE, Bouchra - RAYMOND, Laure - EGEEA, Gregory - TAOUDI, Mohamed - EL MOUATASSIM, Said - SEFIANI, Abdelaziz. Next Generation Sequencing identifies mutations in GNPTG gene as a cause of familial form of scleroderma-like disease. In PEDIATRIC RHEUMATOLOGY. ISSN 1546-0096, 2017, vol. 15, no., pp., Registrované v: WOS
13. [1.2] MURPHY, Elaine - WATKINSON, Oliver. Inherited cardiovascular metabolic disorders. In Cardiovascular Genetics and Genomics: Principles and Clinical Practice, 2018-01-17, pp. 189-237., Registrované v: SCOPUS
14. [1.2] MURPHY, Elaine - WATKINSON, Oliver. Inherited cardiovascular metabolic disorders. In Cardiovascular Genetics and Genomics: Principles and Clinical Practice, 2018-01-17, pp. 189-237., Registrované v: SCOPUS
15. [1.2] Phung, T. L., Pourciau, C. Y., Wright, T. S., & Smoller, B. R. (2017). In Pediatric Dermatopathology (Springer, pp. 1-622), Registrované v:

SCOPUS

16. [1.2] SEMYACHKINA, A. N. - VOSKOBEOVA, E. Yu - BUKINA, T. M. - BUKINA, A. M. - NIKOLAEVA, E. A. - DANTSEV, I. S. - KHARABADZE, M. N. - DAVYDOVA, Yu I. Clinical and genetic characteristics of mucopolidosis II and III types in children. In Rossiyskiy Vestnik Perinatologii i Pediatrii. ISSN 10274065, 2017-01-01, 62, 3, pp. 71-78., Registrované v: SCOPUS

17. [1.2] SPERB-LUDWIG, F. - ALEGRA, T. - VELHO, R. V. - LUDWIG, N. - KIM, C. A. - KOK, F. - KITAJIMA, J. P. - VAN MEEL, E. - KORNFELD, S. - BURIN, M. G. - SCHWARTZ, I. V.D. Exome sequencing for mucopolidosis III: Detection of a novel GNPTAB gene mutation in a patient with a very mild phenotype. In Molecular Genetics and Metabolism Reports, 2015-01-01, 2, pp. 34-37., Registrované v: SCOPUS

18. [3.2] Group Author(s). Uniprot Consortium. Q3T906. IN UniProt Knowledgebase, 2016. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q3T906>, Registrované v: Data Citation Index

19. [3.2] Group Author(s). Uniprot Consortium. Q3T906. IN UniProt Knowledgebase, 2018. Dostupné na internete:

<http://www.uniprot.org/uniprot/Q3T906>, Registrované v: Data Citation Index

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TAYLOR, E.J. - GLOSTER, T.M. - TURKENBURG, J.P. - VINCENT, F. - BRZOZOWSKI, A.M. - DUPONT, C. - SHARECK, F. - CENTENO, M.S.J. - PRATES, J.A.M. - PUCHART, Vladimír - FERREIRA, L.M.A. - FONTES, C.M.G.A. - BIELY, Peter - DAVIES, G.J. Structure and activity of two metal ion-dependent acetylxylen esterases involved in plant cell wall degradation reveals a close similarity to peptidoglycan deacetylases. In *Journal of Biological Chemistry*, 2006, vol. 281, p. 10968-10975. (2005: 5.854 - IF, Q1 - JCR, 4.178 - SJR, Q1 - SJR, Current Contents - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M513066200>

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] ARNAOUTELI, Sofia - GASTAS, Petros - ANDREOU, Athina - TZANODASKALAKI, Mary - ALDRIDGE, Christine - TZARTOS, Socrates J. - VOLLMER, Waldemar - ELIOPOULOS, Elias - BOURIOTIS, Vassilis. Two Putative Polysaccharide Deacetylases Are Required for Osmotic Stability and Cell Shape Maintenance in *Bacillus anthracis*. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2015, vol. 290, no. 21, pp. 13465-13478., Registrované v: WOS

3. [1.1] BHATTACHARJEE, Nicholas - FELIKS, Mikolaj - SHAIK, Md Munan - FIELD, Martin J. Catalytic Mechanism of Peptidoglycan Deacetylase: A Computational Study. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 1, pp. 89-99., Registrované v: WOS

4. [1.1] BURGER, Marco - CHORY, Joanne. Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones. In COMMUNICATIONS BIOLOGY, 2018, vol. 1, no., pp., Registrované v: WOS

5. [1.1] CUERVO-SOTO, Laura I. - VALDES-GARCIA, Gilberto - BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria - BALCAZAR-LOPEZ, Edgar - LIRA-RUAN, Veronica - PASTOR, Nina - LUIS FOLCH-MALLOL, Jorge. Identification of a novel carbohydrate esterase from *Bjerkandera adusta*: Structural and function predictions through bioinformatics analysis and molecular modeling. In *PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS*. ISSN 0887-3585, 2015, vol. 83, no. 3, pp. 533-546., Registrované v: WOS
6. [1.1] DOU, Wenfang - XU, Yongmei - PAGADALA, Vijayakanth - PEDERSEN, Lars C. - LIU, Jian. Role of Deacetylase Activity of N-Deacetylase/N-Sulfotransferase 1 in Forming N-Sulfated Domain in Heparan Sulfate. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2015, vol. 290, no. 33, pp. 20427-20437., Registrované v: WOS
7. [1.1] EMINOGLU, Aysenur - ULKER, Serdar - SANDALLI, Cemal. Cloning, Purification and Characterization of Acetyl Xylane Esterase from *Anoxybacillus flavithermus* DSM 2641(T) with Activity on Low Molecular-Weight Acetates. In *PROTEIN JOURNAL*. ISSN 1572-3887, 2015, vol. 34, no. 4, pp. 237-242., Registrované v: WOS
8. [1.1] HETTIARACHCHI, Sachithra Amarin - KWON, Young-Kyung - LEE, Youngdeuk - JO, Eunyoung - EOM, Tae-Yang - KANG, Yoon-Hyeok - KANG, Do-Hyung - DE ZOYSA, Mahanama - MARASINGHE, Svinileepa - OH, Chulhong. Characterization of an acetyl xylan esterase from the marine bacterium *Ochrovirga pacifica* and its synergism with xylanase on beechwood xylan. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2019, vol. 18, no., pp., Registrované v: WOS
9. [1.1] HIRANO, Takako - SUGIYAMA, Kanako - SAKAKI, Yuta - HAKAMATA, Wataru - PARK, Sam-Yong - NISHIO, Toshiyuki. Structure-based analysis of domain function of chitin oligosaccharide deacetylase from *Vibrio parahaemolyticus*. In *FEBS LETTERS*. ISSN 0014-5793, 2015, vol. 589, no. 1, pp. 145-151., Registrované v: WOS
10. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In *BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION*, 2019, vol., no., pp. 427-445., Registrované v: WOS
11. [1.1] KACZMAREK, Michal - STRUSZCZYK-SWITA, Katarzyna - FLORCZAK, Tomasz - SZCZESNA-ANTCZAK, Mirosława - ANTCZAK, Tadeusz. ISOLATION, MOLECULAR CLONING AND CHARACTERISATION OF TWO GENES CODING CHITIN DEACETYLASE FROM *MUCOR CIRCINELLOIDES* IBT-83. In *PROGRESS ON CHEMISTRY AND APPLICATION OF CHITIN AND ITS DERIVATIVES*. ISSN 1896-5644, 2016, vol. 21, no., pp. 93-103., Registrované v: WOS
12. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS
13. [1.1] KARNAOURI, Anthi - ANTONOPOULOU, Io - ZERVA, Anastasia - DIMAROGONA, Maria - TOPAKAS, Evangelos - ROVA, Ulrika -

CHRISTAKOPOULOS, Paul. Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 279, no., pp. 362-372., Registrované v: WOS

14. [1.1] LIU, Lin - ZHOU, Yong - QU, Mingbo - QIU, Yu - GUO, Xingming - ZHANG, Yuebin - LIU, Tian - YANG, Jun - YANG, Qing. Structural and biochemical insights into the catalytic mechanisms of two insect chitin deacetylases of the carbohydrate esterase 4 family. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 15, pp. 5774-5783., Registrované v: WOS

15. [1.1] LIU, L. - QU, M. - YANG, J. - YANG, Q. The physiological differentiation along the midgut of Bombyx mori inspirations from proteomics and gene expression patterns of the secreted proteins in the ectoperitrophic space. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, 2018, vol. 27, no. 2, pp. 247-259., Registrované v: WOS

16. [1.1] LIU, Zhanliang - GAY, Laurie M. - TUVENG, Tina R. - AGGER, Jane W. - WESTERENG, Bjorge - MATHIESEN, Geir - HORN, Svein J. - VAAJE-KOLSTAD, Gustav - VAN AALTEN, Daan M. F. - EIJSINK, Vincent G. H. Structure and function of a broadspecificity chitin deacetylase from Aspergillus nidulans FGSC A4. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

17. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

18. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

19. [1.1] OH, Changsuk - KIM, T. Doohun - KIM, Kyeong Kyu. Carboxylic Ester Hydrolases in Bacteria: Active Site, Structure, Function and Application. In CRYSTALS. ISSN 2073-4352, 2019, vol. 9, no. 11, pp., Registrované v: WOS

20. [1.1] PARTHIBAN, C. - VARUDHARASU, D. - SHANMUGAM, M. - GOPAL, P. - RAGUNATH, C. - THOMAS, L. - NITZ, M. - RAMASUBBU, N. Structural and functional analysis of de-N-acetylase PgaB from periodontopathogen Aggregatibacter actinomycetemcomitans. In MOLECULAR ORAL MICROBIOLOGY. ISSN 2041-1006, 2017, vol. 32, no. 4, pp. 324-340., Registrované v: WOS

21. [1.1] PASARI, Nandita - ADLAKHA, Nidhi - GUPTA, Mayank - BASHIR, Zeenat - RAJACHARYA, Girish H. - VERMA, Garima - MUNDE, Manoj - BHATNAGAR, Rakesh - YAZDANI, Syed Shams. Impact of Module-X2 and Carbohydrate Binding Module-3 on the catalytic activity of associated glycoside hydrolases towards plant biomass. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

22. [1.1] SATO, Kazuki - CHIBA, Daisuke - YOSHIDA, Sayaka - TAKAHASHI, Mayu - TOTANI, Kazuhide - SHIDA, Yosuke - OGASAWARA,

Wataru - NAKAGAWA, Yuko S. Functional analysis of a novel lytic polysaccharide monooxygenase from *Streptomyces griseus* on cellulose and chitin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 2085-2091. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.015>., Registrované v: WOS

23. [1.1] TUVENG, Tina Rise - ROTHWEILER, Ulli - UDATHA, Gupta - VAAJE-KOLSTAD, Gustav - SMALAS, Arne - EIJSINK, Vincent G. H. Structure and function of a CE4 deacetylase isolated from a marine environment. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 11, pp., Registrované v: WOS

24. [1.1] ULAGANATHAN, Kandasamy - GOUD, Burragoni S. - REDDY, Mettu M. - KUMAR, Vanaparthi P. - BALSINGH, Jatoth - RADHAKRISHNA, Surabhi. Proteins for Breaking Barriers in Lignocellulosic Bioethanol Production. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2015, vol. 16, no. 2, pp. 100-134., Registrované v: WOS

25. [1.1] VAAJE-KOLSTAD, Gustav - TUVENG, Tina Rise - MEKASHA, Sophanit - EIJSINK, Vincent G. H. Enzymes for Modification of Chitin and Chitosan. In *CHITIN AND CHITOSAN: PROPERTIES AND APPLICATIONS*, 2020, vol., no., pp. 189-228., Registrované v: WOS

26. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA, Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and Their Bioproducts. In *MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS*, 2019, vol., no., pp. 325-373., Registrované v: WOS

27. [1.1] WANG, Mingyu - HOU, Jin. Biorefinery of Lignocellulosics for Biofuels and Biochemicals. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016, vol., no., pp. 143-191., Registrované v: WOS

28. [1.1] WATANABE, Masahiro - FUKADA, Harumi - INOUE, Hiroyuki - ISHIKAWA, Kazuhiko. Crystal structure of an acetyltransferase from *Talaromyces cellulolyticus* and the importance of a disulfide bond near the active site. In *FEBS LETTERS*. ISSN 0014-5793, 2015, vol. 589, no. 11, pp. 1200-1206., Registrované v: WOS

29. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase from *Aspergillus niger* BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS

30. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS

31. [1.1] XIE, Mingming - ZHAO, Xiaobing - LU, Yang - JIN, Cheng. Chitin deacetylases Cod4 and Cod7 are involved in polar growth of *Aspergillus fumigatus*. In *MICROBIOLOGY OPEN*. ISSN 2045-8827, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.1002/mbo3.943>., Registrované v: WOS

32. [1.1] ZHU, Xian-Yu - ZHAO, Yong - ZHANG, Huai-Dong - WANG, Wen-Xia - CONG, Hai-Hua - YIN, Heng. Characterization of the Specific Mode of Action of a Chitin Deacetylase and Separation of the Partially Acetylated Chitosan Oligosaccharides. In *MARINE DRUGS*, 2019, vol. 17, no. 2, pp., Registrované v: WOS
33. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
34. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS

ADCA1326 TENKANEN, Maija - VRŠANSKÁ, Mária - SIIKA-AHO, Matti - WONG, Dominic W. - PUCHART, Vladimír - PENTILLA, Merja - SALOHEIMO, Markku - BIELY, Peter. Xylanase XYN IV from *Trichoderma reesei* showing exo- and endo-xylanase activity. In *FEBS Journal*, 2013, vol. 280, p. 285-301. (2012: 4.250 - IF, Q2 - JCR, 2.085 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.12069>

Ohlasy:

1. [1.1] BENGTSSON, Oskar - ARNTZEN, Magnus O. - MATHIESEN, Geir - SKAUGEN, Morten - EIJSINK, Vincent G. H. A novel proteomics sample preparation method for secretome analysis of *Hypocrea jecorina* growing on insoluble substrates. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2016, vol. 131, no., pp. 104-112., Registrované v: WOS
2. [1.1] BISCHOF, Robert H. - RAMONI, Jonas - SEIBOTH, Bernhard. Cellulases and beyond: the first 70 years of the enzyme producer *Trichoderma reesei*. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2016, vol. 15, no., pp., Registrované v: WOS
3. [1.1] BOWMAN, Michael J. - DIEN, Bruce S. - VERMILLION, Karl E. - MERTENS, Jeffrey A. Isolation and characterization of unhydrolyzed oligosaccharides from switchgrass (*Panicum virgatum*, L.) xylan after exhaustive enzymatic treatment with commercial enzyme preparations. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 407, no., pp. 42-50., Registrované v: WOS
4. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
5. [1.1] FU, Li-Hao - JIANG, Nan - LI, Cheng-Xi - LUO, Xue-Mei - ZHAO, Shuai - FENG, Jia-Xun. Purification and characterization of an endo-xylanase from *Trichoderma* sp., with xylobiose as the main product from xylan hydrolysis. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 11, pp., Registrované v: WOS
6. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO,

- Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
7. [1.1] HIRASAWA, Hiroki - SHIOYA, Koki - FURUKAWA, Takanori - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - SHIDA, Yosuke - OGASAWARA, Wataru. Engineering of the *Trichoderma reesei* xylanase3 promoter for efficient enzyme expression. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2737-2752., Registrované v: WOS
8. [1.1] IKE, Masakazu - TOKUYASU, Ken. Control of pH by CO₂ Pressurization for Enzymatic Saccharification of Ca(OH)(2)-Pretreated Rice Straw in the Presence of CaCO₃. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2020, vol. 67, no. 2, pp. 59-62. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0019., Registrované v: WOS
9. [1.1] KATSIMPOURAS, Constantinos - DEDES, Grigorios - THOMAIDIS, Nikolaos S. - TOPAKAS, Evangelos. A novel fungal GH30 xylanase with xylobiohydrolase auxiliary activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
10. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
11. [1.1] LI, Chanjuan - KUMAR, Ashok - LUO, Xuan - SHI, Hui - LIU, Ziduo - WU, Gaobing. Highly alkali-stable and cellulase-free xylanases from *Fusarium* sp. 21 and their application in clarification of orange juice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 572-580. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.249>., Registrované v: WOS
12. [1.1] LI, Mi - YOO, Chang Geun - PU, Yunqiao - BISWAL, Ajaya K. - TOLBERT, Allison K. - MOHNEN, Debra - RAGAUŠKAS, Arthur J. Downregulation of pectin biosynthesis gene GAUT4 leads to reduced ferulate and lignin-carbohydrate cross-linking in switchgrass. In COMMUNICATIONS BIOLOGY, 2019, vol. 2, no., pp., Registrované v: WOS
13. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
14. [1.1] MANGAN, David - CORNAGGIA, Claudio - LIADOVA, Agnija - MCCORMACK, Niall - IVORY, Ruth - MCKIE, Vincent A. - ORMEROD, Aaron - MCCLEARY, Barry V. Novel substrates for the automated and manual assay of endo-1,4-beta-xylanase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 445, no., pp. 14-22., Registrované v: WOS
15. [1.1] MARTINS DE OLIVEIRA, Sandro - MORENO-PEREZ, Sonia

- FANCHINI TERRASAN, Cesar Rafael - ROMERO-FERNANDEZ, Maria - VIEIRA, Marcelo Fernandes - GUIBAN, Jose M. - ROCHA-MARTIN, Javier. Covalent immobilization-stabilization of beta-1,4-endoxylanases from *Trichoderma reesei*: Production of xylooligosaccharides. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 64, no., pp. 170-176., Registrované v: WOS
16. [1.1] MATSUZAWA, Tomohiko - KANEKO, Satoshi - YAOI, Katsuro. Improvement of thermostability and activity of *Trichoderma reesei* endo-xylanase Xyn III on insoluble substrates. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 18, pp. 8043-8051., Registrované v: WOS
17. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - FOUQUET, Thierry - MATSUSHIKA, Akinori - INOUE, Hiroyuki. GH30-7 Endoxylanase C from the Filamentous Fungus *Talaromyces cellulolyticus*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2019, vol. 85, no. 22, pp., Registrované v: WOS
18. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
19. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus *Talaromyces cellulolyticus*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 11, pp. 4065-4078., Registrované v: WOS
20. [1.1] ORTS, W. J. - MCMAHAN, C. M. Biorefinery Developments for Advanced Biofuels from a Sustainable Array of Biomass Feedstocks: Survey of Recent Biomass Conversion Research from Agricultural Research Service. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2016, vol. 9, no. 2, pp. 430-446., Registrované v: WOS
21. [1.1] RAI, Rohit - AGRAWAL, Dhruv - CHADHA, B. S. New Paradigm in Degradation of Lignocellulosic Biomass and Discovery of Novel Microbial Strains. In *MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS*, 2019, vol., no., pp. 403-440., Registrované v: WOS
22. [1.1] RAI, Rohit - KAUR, Batik - CHADHA, B. S. A method for rapid purification and evaluation of catalytically distinct lignocellulolytic glycosyl hydrolases from thermotolerant fungus *Acrophialophora* sp. In *RENEWABLE ENERGY*. ISSN 0960-1481, 2016, vol. 98, no., pp. 254-263., Registrované v: WOS
23. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS

24. [1.1] ROSALES-CALDERON, Oscar - TRAJANO, Heather L. - POSARAC, Dusko - DUFF, Sheldon J. B. Enzyme Recycling by Adsorption during Hydrolysis of Oxygen-Delignified Wheat Straw. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 11, pp. 9701-9708., Registrované v: WOS
25. [1.1] SEPTININGRUM, Krisna - OHI, Hiroshi - NAKAGAWA-IZUMI, Akiko - KOSUGI, Akihiko. Characterization of Hexenuronosyl Xylan-degrading Enzymes Produced by *Paenibacillus* sp 07. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 1, pp. 2756-2767., Registrované v: WOS
26. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
27. [1.1] SUN, Jianzhong - SHI, Sailing - WU, Jian - XIE, Rongrong - GENG, Alei - ZHU, Dao Chen. Characterization of a Salt-Tolerant and Cold-Adapted Xylanase from *Bacillus cellulosilyticus*. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 4, pp. 8875-8889., Registrované v: WOS
28. [1.1] WANG, Ruijun - LIU, Zhengchu - CHENG, Lifeng - DUAN, Shengwen - FENG, Xiangyuan - ZHENG, Ke - CHENG, Yi - ZENG, Jie. A novel endo-beta-1,4-xylanase GH30 from *Dickeya dadantii* DCE-01: Clone, expression, characterization, and ramie biological degumming function. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 463-472., Registrované v: WOS
29. [1.1] ZANPHORLIN, Leticia Maria - BUENO DE MORAIS, Mariana Abrahao - DIOGO, Jose Alberto - DOMINGUES, Mariane Noronha - MOREIRA DE SOUZA, Flavio Henrique - RULLER, Roberto - MURAKAMI, Mario Tyago. Structure-guided design combined with evolutionary diversity led to the discovery of the xylose-releasing exo-xylanase activity in the glycoside hydrolase family 43. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2019, vol. 116, no. 4, pp. 734-744., Registrované v: WOS
30. [1.1] ZHENG, Fei - HUANG, Jingxuan - LIU, Xingchen - HU, Hang - LONG, Liangkun - CHEN, Kaixiang - DING, Shaojun. N- and C-terminal truncations of a GH10 xylanase significantly increase its activity and thermostability but decrease its SDS resistance. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 8, pp. 3555-3565., Registrované v: WOS
31. [1.2] CARLI, Sibeli - MELEIRO, Luana Parras - ROSA, Jose Cesar - MORAES, Luiz Alberto Beraldo - JORGE, João Atílio - MASUI, Douglas Chodi - FURRIEL, Rosa P.M. A novel thermostable and halotolerant xylanase from *Colletotrichum graminicola*. In Journal of Molecular Catalysis B: Enzymatic. ISSN 13811177, 2016-10-17, 133, pp. S508-S517., Registrované v: SCOPUS
32. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
33. [1.2] DE VRIES, Ronald P. - VAN DEN BRINK, Joost - HILDÉN, Kristiina S. - MÄKELÄ, Miia R. - STÅLBRAND, Henrik. Fungal degradation of

plant oligo- and polysaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 809-895., Registrované v: SCOPUS

34. [1.2] PADILHA, Itácio Q.M. - VALENZUELA, Susana V. - GRISI, Teresa C.S.L. - DIAZ, Pilar - DE ARAÚJO, Demetrius A.M. - JAVIER PASTOR, Francisco I. A glucuronoxylan-specific xylanase from a new *Paenibacillus favisporus* strain isolated from tropical soil of Brazil. In International Microbiology. ISSN 11396709, 2015-01-01, 17, 3, pp. 175-184., Registrované v: SCOPUS

35. [1.2] SUKUMARAN, Rajeev K. - ABRAHAM, Amith - MATHEW, Anil K. Enzymes for bioenergy. In Bioresources and Bioprocess in Biotechnology, 2017-05-26, 2, pp. 3-43., Registrované v: SCOPUS

ADCA1327 TENKANEN, M. - BURGERMEISTER, M. - VRŠANSKÁ, Mária - BIELY, Peter - SALOHEIMO, M. - SIIKA-AHO, M. A novel xylanase XYN IV from *Trichoderma reesei* and its action on different xylans. In *COURTIN, C.M. - VERAVERBEKE, W.S. - DELCOUR, J.A. Recent Advances in Enzymes in Grain Processing. Leuven: Laboratory of Food Chemistry, Katholieke Univesiteit Leuven*, 2003, p. 41-46. ISSN 90-9016671-8.

Ohlasy:

1. [1.1] GHOSH, Arabinda - SUTRADHAR, Saikat - BAISHYA, Debabrat. Delineating thermophilic xylanase from *Bacillus licheniformis* DM5 towards its potential application in xylooligosaccharides production. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2019, vol. 35, no. 2, pp., Registrované v: WOS

ADCA1328 TENKANEN, M. - EIZAGUIRRE, J. - ISONIEMI, R. - FAULDS, C.B. - BIELY, Peter. Comparison of catalytic properties of acetyl xylan esterases from three carbohydrate esterase families. In *ACS Symposium Series 855: Application of Enzymes to Lignocellulosics*. - Washington, DC : American Chemical Society, 2003, p.211-229. ISBN 0-8412-3831-6.

Ohlasy:

1. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS

2. [1.1] LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. - DILOKPIMOL, Adiphol. Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694>., Registrované v: WOS

3. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. An extended loop in CE7 carbohydrate esterase family is dispensable for oligomerization but required for activity and thermostability. In *JOURNAL OF STRUCTURAL BIOLOGY*. ISSN 1047-8477, 2016, vol. 194, no. 3, pp. 434-445., Registrované v: WOS

ADCA1329 TIHLÁRIK, Karol - PAŠTEKA, Mikuláš. Estimation of functional groups and degree of substitution in carboxymethylstarch. In *Chemical Papers - Chemické zvesti*, 1987, vol. 41, p. 703-705. ISSN 0366-6352.

Ohlasy:

1. [1.1] SAHIN, Umut Kivanc. AN EASY AND ACCURATE METHOD FOR DETERMINING DEGREE OF SUBSTITUTION ON CARBOXYMETHYLATED COTTON FABRIC. In *TEKSTIL VE KONFEKSIYON*. ISSN 1300-3356, 2018, vol. 28, no. 2, pp. 118-124., Registrované v: WOS

ADCA1330 TIHLARIK, K. - PAŠTEKA, M.. Determination of the carbonyl groups in oxidized polysaccharides by hydroxylammonium formate. In *Starch-Starke*, 1992, vol. 44, p. 385-387. ISSN 0038-9056. Dostupné na: <https://doi.org/10.1002/star.19920441006>

Ohlasy:

1. [1.1] ALGHAMDI, Abdulaziz A. - ABDEL-HALIM, Essam S. - AL-OTHMAN, Zeid A. Low-Temperature Bleaching of Cotton Cellulose using an Ultrasound-assisted Tetraacetylenediamine/Hydrogen Peroxide/Triethanolamine System. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 1, pp. 2784-2796., Registrované v: WOS
2. [1.1] LIU, Yun - ZHANG, Chuan - ZHANG, Chuan-jie - GUO, Yi - ZHAO, Jin-chao - CUI, Li - ZHU, Ping. The Effect of Oxidation Degree of Oxidized Starch on the Properties of Sodium Alginate/Gelatin IPNs Crosslinked with Oxidized Starch. In *ACTA POLYMERICA SINICA*. ISSN 1000-3304, 2015, vol., no. 4, pp. 374-381., Registrované v: WOS
3. [1.2] CUI, Xin - YAN, Huang - ZHAO, Peitao. A review on the model construction and analytical methods of coal molecular structure. In *Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology*. ISSN 10001964, 2019-07-01, 48, 4, pp. 704-717., Registrované v: SCOPUS

ADCA1331 TKÁČ, Ján - DAVIS, J.J. An optimised electrode pre-treatment for SAM formation on polycrystalline gold. In *Journal of Electroanalytical Chemistry*, 2008, vol. 621, p. 117-120. (2007: 2.580 - IF, Q2 - JCR, 1.279 - SJR, Q1 - SJR). ISSN 0022-0728. Dostupné na: <https://doi.org/10.1016/j.jelechem.2008.04.010>

Ohlasy:

1. [1.1] ARJONA, N. - ARMENTA-GONZALEZ, A. J. - RIVAS, S. - GUERRA-BALCAZAR, M. - LEDESMA-GARCIA, J. - ARRIAGA, L. G. A new type of high performance air-breathing glucose membraneless microfluidic fuel cell. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. ISSN 0360-3199, 2015, vol. 40, no. 42, pp. 14699-14705., Registrované v: WOS
2. [1.1] ESCALERA-LOPEZ, D. - GOMEZ, E. - VALLES, E. Electrochemical growth of CoNi and Pt-CoNi soft magnetic composites on an alkanethiol monolayer-modified ITO substrate. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2015, vol. 17, no. 25, pp. 16575-16586., Registrované v: WOS
3. [1.1] HONDRED, John A. - JOHNSON, Zachary T. - CLAUSSEN, Jonathan C. Nanoporous gold peel-and-stick biosensors created with etching inkjet maskless lithography for electrochemical pesticide monitoring with

- microfluidics. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, 2020, vol. 8, no. 33, pp. 11376-11388. Dostupné na: <https://doi.org/10.1039/d0tc01423k>., Registrované v: WOS
4. [1.1] HO, Lance St John - LIMSON, Janice L. - FOGEL, Ronen. Certain Methods of Electrode Pretreatment Create Misleading Responses in Impedimetric Aptamer Biosensors. In ACS OMEGA. ISSN 2470-1343, 2019, vol. 4, no. 3, pp. 5839-5847., Registrované v: WOS
 5. [1.1] JOHN, Torsten - VOO, Zhi Xiang - KUBEIL, Clemens - ABEL, Bernd - GRAHAM, Bim - SPICCIA, Leone - MARTIN, Lisandra L. Effects of guanidino modified aminoglycosides on mammalian membranes studied using a quartz crystal microbalance. In MEDCHEMCOMM. ISSN 2040-2503, 2017, vol. 8, no. 5, pp. 1112-1120., Registrované v: WOS
 6. [1.1] KALIMUTHU, Palraj - HEIDER, Johann - KNACK, Daniel - BERNHARDT, Paul V. Electrocatalytic Hydrocarbon Hydroxylation by Ethylbenzene Dehydrogenase from Aromatoleum aromaticum. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2015, vol. 119, no. 8, pp. 3456-3463., Registrované v: WOS
 7. [1.1] KALIMUTHU, Palraj - HSIAO, Ju-Chun - NAIR, Remya Purushothaman - KAPPLER, Ulrike - BERNHARDT, Paul V. Bioelectrocatalysis of Sulfite Dehydrogenase from Sinorhizobium meliloti with Its Physiological Cytochrome Electron Partner. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 12, pp. 3163-3170., Registrované v: WOS
 8. [1.1] KALIMUTHU, Palraj - HAVEMEYER, Antje - CLEMENT, Bernd - KUBITZA, Christian - SCHEIDIG, Axel J. - BERNHARDT, Paul V. Human mitochondrial amidoxime reducing component (mARC): An electrochemical method for identifying new substrates and inhibitors. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2017, vol. 84, no., pp. 90-93., Registrované v: WOS
 9. [1.1] KALIMUTHU, Palraj - BELAIDI, Abdel A. - SCHWARZ, Guenter - BERNHARDT, Paul V. Chitosan-Promoted Direct Electrochemistry of Human Sulfite Oxidase. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 39, pp. 9149-9159., Registrované v: WOS
 10. [1.1] KALIMUTHU, Palraj - BELAIDI, Abdel A. - SCHWARZ, Guenter - BERNHARDT, Paul V. Mediated Catalytic Voltammetry of Holo and Heme-Free Human Sulfite Oxidases. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 947-956., Registrované v: WOS
 11. [1.1] KALIMUTHU, Palraj - WOJTKIEWICZ, Agnieszka M. - SZALENIEC, Maciej - BERNHARDT, Paul V. Electrocatalytic Hydroxylation of Sterols by Steroid C25 Dehydrogenase from Sterolibacterium denitrificans. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 30, pp. 7710-7717., Registrované v: WOS
 12. [1.1] KALIMUTHU, Palraj - DAUMANN, Lena J. - POL, Arjan - OP DEN CAMP, Huub J. M. - BERNHARDT, Paul V. Electrocatalysis of a Europium-Dependent Bacterial Methanol Dehydrogenase with Its Physiological Electron-Acceptor Cytochrome c(GJ). In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2019, vol. 25, no. 37, pp. 8760-8768., Registrované v: WOS
 13. [1.1] KALIMUTHU, Palraj - PETITGENET, Melanie - NIKS, Dimitri - DINGWALL, Stephanie - HARMER, Jeffrey R. - HILLE, Russ - BERNHARDT, Paul V. The oxidation-reduction and electrocatalytic properties

of CO dehydrogenase from *Oligotropha carboxidovorans*. In *BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS*. ISSN 0005-2728, 2020, vol. 1861, no. 1, pp. Dostupné na: <https://doi.org/10.1016/j.bbabbio.2019.148118>., Registrované v: WOS

14. [1.1] LI, Zonglin - SU, Wenqiong - LIU, Shuopeng - DING, Xianting. An electrochemical biosensor based on DNA tetrahedron/graphene composite film for highly sensitive detection of NADH. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2015, vol. 69, no., pp. 287-293., Registrované v: WOS

15. [1.1] MARQUES, Simone M. - SANTOS, Adriano - GONCALVES, Luis M. - SOUSA, Joao C. - BUENO, Paulo R. Sensitive label-free electron chemical capacitive signal transduction for D-dimer electroanalysis. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2015, vol. 182, no., pp. 946-952., Registrované v: WOS

16. [1.1] MEZOUR, Mohamed A. - PEREPICHKA, Iryna I. - IVASENKO, Oleksandr - LENNOX, R. Bruce - PEREPICHKA, Dmitrii F. Tridentate benzylthiols on Au(111): control of self-assembly geometry. In *NANOSCALE*. ISSN 2040-3364, 2015, vol. 7, no. 11, pp. 5014-5022., Registrované v: WOS

17. [1.1] MONTEIRO, Mariana C. O. - KOPER, Marc T. M. Alumina contamination through polishing and its effect on hydrogen evolution on gold electrodes. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2019, vol. 325, no., pp., Registrované v: WOS

18. [1.1] PISCHEL, Jan - PUCCI, Annemarie. Low-Temperature Adsorption of Carbon Monoxide on Gold Surfaces: IR Spectroscopy Uncovers Different Adsorption States on Pristine and Rough Au(111). In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, 2015, vol. 119, no. 32, pp. 18340-18351., Registrované v: WOS

19. [1.1] RAYMUNDO-PEREIRA, Paulo A. - SHIMIZU, Flavio M. - COELHO, Dyovani - PIAZZETA, Maria H. O. - GOBBI, Angelo L. - MACHADO, Sergio A. S. - OLIVEIRA, Osvaldo N. A Nanostructured Bifunctional platform for Sensing of Glucose Biomarker in Artificial Saliva: Synergy in hybrid Pt/Au surfaces. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 86, no., pp. 369-376., Registrované v: WOS

20. [1.1] SANTOS, Adriano - BUENO, Paulo R. Glycoprotein assay based on the optimized immittance signal of a redox tagged and lectin-based receptive interface. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 83, no., pp. 368-378., Registrované v: WOS

21. [1.1] SCHNEIDER, Sebastian - PARTES, Christoph - WIESNER, Adrian - TERFORT, Andreas. Potential-induced phase transition of benzoxazole-2-thiol, naphthaleneoxazole-2-thiol and anthraceneoxazole-2-thiol monolayers on gold electrodes. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2018, vol. 283, no., pp. 167-173., Registrované v: WOS

22. [1.1] THAL, Dana - KAHLERT, Heike - CHINNAYA, Jeyabharathi - AHRENS, Paula - HASSE, Ulrich. Impact of gold-1-decanethiol-SAM formation and removal cycles on the surface properties of polycrystalline gold and SAM quality. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. ISSN 1432-8488, 2018, vol. 22, no. 4, pp. 1149-1154., Registrované v: WOS

23. [1.1] XU ZHEN - QI DONG-MEI - JIANG LI - CHEN YU - ZHANG ZHAO - ZHANG JIAN-QING. Progress of Research on Underpotential

- Deposition-II. Research Techniques and Application of Underpotential Deposition. In ACTA PHYSICO-CHIMICA SINICA. ISSN 1000-6818, 2015, vol. 31, no. 7, pp. 1231-1250., Registrované v: WOS
24. [1.1] YANG, Shuo - NOGUCHI, Hidenori - UOSAKI, Kohei. Electronic Structure of CO Adsorbed on Electrodeposited Pt Thin Layers on Polycrystalline Au Electrodes Probed by Potential-Dependent IR/Visible Double-Resonance Sum Frequency Generation Spectroscopy. In JOURNAL OF PHYSICAL CHEMISTRY C. ISSN 1932-7447, 2018, vol. 122, no. 15, pp. 8191-8201., Registrované v: WOS
25. [1.1] YU, Chaofan - YU, Jie - ZHANG, Huirong - HE, Ziyang - SHA, Yunfei - LIU, Baizhan - WANG, Ying. A facile approach for rapid on-site screening of nicotine in natural tobacco. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 259, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2019.113841>., Registrované v: WOS
26. [1.1] ZHANG, Lingling - YE, Cui - ZHOU, Guohua - CHEN, Weizhen - XU, Xuyao - LI, Zhiguo. Effect of Surface Pretreatment on Electron Transfer of Methylene Blue Covalently Labeled Double-Stranded DNA Self-Assembled Monolayers on Gold. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 7, pp. 6763-6778., Registrované v: WOS

ADCA1332 TKÁČ, Ján - GEMEINER, Peter - ŠVITEL, J. - BENIKOVSKÝ, T. - ŠTURDÍK, E. - VALA, V. - PETRUŠ, Ladislav - HRABÁROVÁ, Eva. Determination of total sugars in lignocellulose hydrolysate by a mediated Gluconobacter oxydans biosensor. In *Analytica Chimica Acta*, 2000, vol. 420, p. 1-7. ISSN 0003-2670. Dostupné na: [https://doi.org/10.1016/S0003-2670\(00\)01001-1](https://doi.org/10.1016/S0003-2670(00)01001-1)

Ohlasy:

1. [1.1] APETREI, Roxana-Mihaela - CARAC, Geta - BAHIRM, Gabriela - CAMURLU, Pinar. Sensitivity enhancement for microbial biosensors through cell Self-Coating with polypyrrole. In INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS. ISSN 0091-4037, 2019, vol. 68, no. 17, pp. 1058-1067., Registrované v: WOS
2. [1.1] GIMKIEWICZ, Carla - HUNGER, Steffi - HARNISCH, Falk. Evaluating the Feasibility of Microbial Electrosynthesis Based on Gluconobacter oxydans. In CHEMELECTROCHEM. ISSN 2196-0216, 2016, vol. 3, no. 9, pp. 1337-1346., Registrované v: WOS
3. [1.1] KOCH, Christin - KUCHENBUCH, Anne - KRACKE, Frauke - BERNHARDT, Paul V. - KROEMER, Jens - HARNISCH, Falk. Predicting and experimental evaluating bio-electrochemical synthesis A case study with Clostridium kluyveri. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2017, vol. 118, no., pp. 114-122., Registrované v: WOS
4. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
5. [1.2] BHADRA, Chris M. - THARUSHI PERERA, Palalle G. - TRUONG, Vi Khanh - PONAMOREVA, Olga N. - CRAWFORD, Russell J. - IVANOVA, Elena P. Renewable bio-anodes for microbial fuel cells. In

ADCA1333

TKÁČ, Ján - RUZGAS, T. Dispersion of single walled carbon nanotubes. Comparison of different dispersing strategies for preparation of modified electrodes toward hydrogen peroxide detection. In *Electrochemistry Communications*, 2006, vol. 8, p. 899-903. (2005: 3.388 - IF, Q1 - JCR, 1.712 - SJR, Q1 - SJR). ISSN 1388-2481. Dostupné na:
<https://doi.org/10.1016/j.elecom.2006.03.028>

Ohlasy:

1. [1.1] ASHLEY, Brandon K. - BROWN, Matthew S. - PARK, Youjoong - KUAN, Sally - KOH, Ahyeon. Skin-inspired, open mesh electrochemical sensors for lactate and oxygen monitoring. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 132, no., pp. 343-351., Registrované v: WOS
2. [1.1] BARKAOUI, Sami - HADDAOUI, Marwa - DHAOUADI, Hassouna - RAOUAFI, Noureddine - TOUATI, Fathi. Hydrothermal synthesis of urchin-like Co₃O₄ nanostructures and their electrochemical sensing performance of H₂O₂. In *JOURNAL OF SOLID STATE CHEMISTRY*. ISSN 0022-4596, 2015, vol. 228, no., pp. 226-231., Registrované v: WOS
3. [1.1] CUI, Shiqiang - GU, Shuqing - DING, Yaping - ZHANG, Jiangjiang - ZHANG, Zhen - HU, Zongqian. Hollow mesoporous CuCo₂O₄ microspheres derived from metal organic framework: A novel functional materials for simultaneous H₂O₂ biosensing and glucose biofuel cell. In *TALANTA*. ISSN 0039-9140, 2018, vol. 178, no., pp. 788-795., Registrované v: WOS
4. [1.1] DEVRE, Rinky D. - BUDHLALL, Bridgette M. - BARRY, Carol F. Enhancing the Colloidal Stability and Electrical Conductivity of Single-Walled Carbon Nanotubes Dispersed in Water. In *MACROMOLECULAR CHEMISTRY AND PHYSICS*. ISSN 1022-1352, 2016, vol. 217, no. 5, pp. 683-700., Registrované v: WOS
5. [1.1] GAN, Lu - SHANG, Songmin - MEI, Changtong - XU, Lijie - TAN, Lin - HU, Enling. Wet Functionalization of Carbon Nanotubes and Its Applications in Rubber Composites. In *CARBON-BASED NANOFILLERS AND THEIR RUBBER NANOCOMPOSITES: CARBON NANO-OBJECTS*, 2019, vol., no., pp. 77-108., Registrované v: WOS
6. [1.1] JODAT, Yasamin A. - LOTFI, Parisa - ABADI, Parisa Pour Shahid Saeed - MUN, Ji-Young - SEO, Jungmok - SHIN, Eun Ae - JUNG, Sung Mi - LEE, Chang Kee - SHIN, Su Ryon. pH-Responsive DNA Nanolinker Conjugated Hybrid Materials for Electrochemical Microactuator and Biosensor Applications. In *ACS APPLIED NANO MATERIALS*. ISSN 2574-0970, 2018, vol. 1, no. 12, pp. 6630-6640., Registrované v: WOS
7. [1.1] LI, Yong - ZHAO, Yun - MA, Canliang - ZHAO, Yongxiang. Novel solvent-thermal preparation of a SnO₂ nanoparticles/expanded graphite multiscale composite with extremely enhanced electrical performances for Li-ion batteries. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2016, vol. 218, no., pp. 191-198., Registrované v: WOS
8. [1.1] MA, Li Ya - MIAO, Shan Shan - LU, Feng Fan - WU, Mei Sheng - LU, Yi Chen - YANG, Hong. Selective Electrochemical Determination of Salicylic Acid in Wheat Using Molecular Imprinted Polymers. In

- ANALYTICAL LETTERS. ISSN 0003-2719, 2017, vol. 50, no. 15, pp. 2369-2385., Registrované v: WOS
9. [1.1] METTERS, Jonathan P. - BANKS, Craig E. Carbon Nanomaterials in Electrochemical Detection. In ELECTROCHEMICAL STRATEGIES IN DETECTION SCIENCE. ISSN 2052-3068, 2016, vol., no. 6, pp. 229-278., Registrované v: WOS
10. [1.1] NDIAYE, Amadou L. - PAULY, Alain - DELILE, Sebastien - BRUNET, Jerome - VARENNE, Christelle - KUMAR, Abhishek. Electrodes Modification Based on Metal-Free Phthalocyanine: Example of Electrochemical Sensors for the Detection of Acetic Acid. In JOURNAL OF SENSORS. ISSN 1687-725X, 2015, vol., no., pp., Registrované v: WOS
11. [1.1] PARK, Suyoung - KANG, Hana - KIM, Youngkwang - LEE, Dongjin - JIN, Changhyun. Catalyst-related Dispersion of Multiwalled Carbon Nanotubes by Simple Ultrasonication. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY. ISSN 0253-2964, 2016, vol. 37, no. 2, pp. 174-178., Registrované v: WOS
12. [1.1] SUAZO-DAVILA, D. - RIVERA-MELENDEZ, J. - KOEHNE, J. - MEYYAPPAN, M. - CABRERA, C. R. Surface analysis and electrochemistry of a robust carbon-nanofiber-based electrode platform H₂O₂ sensor. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2016, vol. 384, no., pp. 251-257., Registrované v: WOS
13. [1.1] TAVAKKOLI, Hamed - AKHOND, Morteza - GHORBANKHANI, Gholam Abbas - ABSALAN, Ghodrattollah. Electrochemical sensing of hydrogen peroxide using a glassy carbon electrode modified with multiwalled carbon nanotubes and zein nanoparticle composites: application to HepG2 cancer cell detection. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4064-7>., Registrované v: WOS
14. [1.1] TORRINHA, Alvaro - OLIVEIRA, Thiago M. B. F. - RIBEIRO, Francisco W. P. - CORREIA, Adriana N. - LIMA-NETO, Pedro - MORAIS, Simone. Application of Nanostructured Carbon-Based Electrochemical (Bio)Sensors for Screening of Emerging Pharmaceutical Pollutants in Waters and Aquatic Species: A Review. In NANOMATERIALS, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/nano10071268>., Registrované v: WOS
15. [1.1] VEKSHA, Andrei - MOO, James Guo Sheng - KRIKSTOLAITYTE, Vida - OH, Wen-Da - UDAYANGA, W. D. Chanaka - GIANNIS, Apostolos - LISAK, Grzegorz. Synthesis of CaCr₂O₄/carbon nanoplatelets from non-condensable pyrolysis gas of plastics for oxygen reduction reaction and charge storage. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 849, no., pp., Registrované v: WOS
16. [1.1] XIAO, Chong - LIU, Yan-Ling - XU, Jia-Quan - LV, Song-Wei - GUO, Shan - HUANG, Wei-Hua. Real-time monitoring of H₂O₂ release from single cells using nanoporous gold microelectrodes decorated with platinum nanoparticles. In ANALYST. ISSN 0003-2654, 2015, vol. 140, no. 11, pp. 3753-3758., Registrované v: WOS
17. [1.1] YANG, Lingfei - WANG, Bing - QI, Honglan - GAO, Qiang - LI, Chen-zhong - ZHANG, Chengxiao. Highly Sensitive Electrochemical Sensor for the Determination of 8-Hydroxy-2'-deoxyguanosine Incorporating

SWCNTs-Nafion Composite Film. In JOURNAL OF SENSORS. ISSN 1687-725X, 2015, vol., no., pp., Registrované v: WOS

18. [1.1] ZARATE-TRIVINO, D. G. - PROKHOROV, E. - LUNA-BARCENAS, G. - MENDEZ-NONELL, J. - GONZALEZ-CAMPOS, J. B. - ELIZALDE-PENA, E. - MOTA-MORALES, Josue D. - SANTIAGO-JACINTO, P. - TERRONES, M. - GOMEZ-SALAZAR, S. - NUNO-DONLUCAS, S. M. - SANCHEZ, I. C. The effect of CNT functionalization on electrical and relaxation phenomena in MWCNT/chitosan composites. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2015, vol. 155, no., pp. 252-261., Registrované v: WOS

19. [1.1] ZHANG, Wanlong - ZUO, Haibin - ZHANG, Xinru - WANG, Jingsong - GUO, Longfei - PENG, Xing. Preparation of Graphene-Perfluoroalkoxy Composite and Thermal and Mechanical Properties. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS

ADCA1334 TKÁČ, Ján - VOŠTIAR, I. - ŠTURDÍK, Ernest - GEMEINER, Peter - MASTIHUBA, Vladimír - ANNUS, J. Fructose biosensor based on D-fructose dehydrogenase immobilised on a ferrocene-embedded cellulose acetate membrane. In *Analytica Chimica Acta*, 2001, vol. 439, p. 39-46. ISSN 0003-2670. Dostupné na: [https://doi.org/10.1016/S0003-2670\(01\)01021-2](https://doi.org/10.1016/S0003-2670(01)01021-2)

Ohlasy:

1. [1.1] ADACHI, Taiki - KAIDA, Yuya - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Bioelectrocatalytic performance of D-fructose dehydrogenase. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2019, vol. 129, no., pp. 1-9., Registrované v: WOS
2. [1.1] ALAM, M. M. - ASIRI, Abdullah M. - RAHMAN, Mohammed M. - ISLAM, M. A. Fabrication of sensitive D-fructose sensor based on facile ternary mixed ZnO/CdO/SnO₂ nanocomposites by electrochemical approach. In SURFACES AND INTERFACES. ISSN 2468-0230, 2020, vol. 19, no., pp. Dostupné na: <https://doi.org/10.1016/j.surfin.2020.100540>., Registrované v: WOS
3. [1.1] AMANI-BENI, Zahra - NEZAMZADEH-EJHIEH, Alireza. Construction of a sensitive non-enzymatic fructose carbon paste electrode CuO nanoflower: designing the experiments by response surface methodology. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2018, vol. 42, no. 2, pp. 1021-1030., Registrované v: WOS
4. [1.1] DE OLIVEIRA, Ana Elisa F. - PEREIRA, Arnaldo Cesar. Biosensor and Food Industry Reviewy. In REVISTA VIRTUAL DE QUIMICA. ISSN 1984-6835, 2016, vol. 8, no. 5, pp. 1311-1333., Registrované v: WOS
5. [1.1] GOTA, Tatenda - CHOWDHURY, Mahabubur - OJUMU, Tunde. Non-enzymatic Fructose Sensor Based on Co₃O₄ Thin Film. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 12, pp. 2855-2862., Registrované v: WOS
6. [1.1] KIZLING, Michal - STOLARCZYK, Krzysztof - KIAT, Julianna Sim Sin - TAMMELA, Petter - WANG, Zhaohui - NYHOLM, Leif - BILEWICZ, Renata. Pseudocapacitive polypyrrole-nanocellulose composite for sugar-air enzymatic fuel cells. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2015, vol. 50, no., pp. 55-59., Registrované v: WOS

7. [1.1] SAKINYTE, Ieva - BARKAUSKAS, Jurgis - GAIDUKEVIC, Justina - RAZUMIENE, Julija. Thermally reduced graphene oxide: The study and use for reagentless amperometric D-fructose biosensors. In TALANTA. ISSN 0039-9140, 2015, vol. 144, no., pp. 1096-1103., Registrované v: WOS
8. [1.1] SHAIMI, R. - LOW, S. C. Morphological characteristics of polymeric nylon-6 film as biological recognition interface for electrochemical immunosensor application. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 45, pp., Registrované v: WOS
9. [1.1] SIEPENKOETTER, Till - SALAJ-KOSLA, Urszula - MAGNER, Edmond. The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 905-912., Registrované v: WOS
10. [1.1] SILVA-CARRILLO, Carolina - ALONSO REYNOSO-SOTO, Edgar - PARAGUAY-DELGADO, Francisco - ALONSO-NUNEZ, Gabriel - MARIA FELIX-NAVARROA, Rosa. Synthesis of PtNPs/MWCNT Functionalized with 4-Mercaptophenylboronic Acid for an Electrochemical Sensor of Fructose. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 4, pp. B86-B91., Registrované v: WOS
11. [1.1] VOITECHOVIC, Edita - VEKTARIENE, Ausra - VEKTARIS, Gytis - JINCIENE, Regina - RAZUMIENE, Julija - GUREVICIENE, Vidute. 1,4-Benzoquinone Derivatives for Enhanced Bioelectrocatalysis by Fructose Dehydrogenase from Gluconobacter Japonicus: towards Promising D-fructose Biosensor Development. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 1005-1016. Dostupné na: <https://doi.org/10.1002/elan.201900612>., Registrované v: WOS
12. [1.1] YAN, Chunxia - HUANG, Ximing - CHEN, Jingchao - GUO, Haixia - SHAO, Huibo. Study on Preferential Solvation of Water by Electrochemical Method. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 12, pp. 2339-2346., Registrované v: WOS
13. [1.2] ARYA, Aditya - GANGWAR, Anamika - KUMAR, Amit. Biosensors in animal biotechnology. In Nanotechnology in Modern Animal Biotechnology: Concepts and Applications, 2019-01-01, pp. 75-95., Registrované v: SCOPUS

ADCA1335 TKÁČ, Ján - VOŠTIAR, I. - GORTON, I. - GEMEINER, Peter - ŠTURDÍK, Ernest. Improved selectivity of microbial biosensor using membrane coating. Application to the analysis of ethanol during fermentation. In *Biosensors and Bioelectronic*, 2003, vol. 18, p. 1125-1134. Dostupné na: [https://doi.org/10.1016/S0956-5663\(02\)00244-0](https://doi.org/10.1016/S0956-5663(02)00244-0)

Ohlasy:

1. [1.1] ALTUNTAS, Derya Bal - TEPELI, Yudum - ANIK, Ulku. Graphene-metallic nanocomposites as modifiers in electrochemical glucose biosensor transducers. In 2D MATERIALS. ISSN 2053-1583, 2016, vol. 3, no. 3, pp., Registrované v: WOS
2. [1.1] ASLAN, Sema - ANIK, Ulku. Microbial glucose biosensors based on glassy carbon paste electrodes modified with Gluconobacter Oxydans and graphene oxide or graphene-platinum hybrid nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2016, vol. 183, no. 1, pp. 73-81., Registrované v: WOS

3. [1.1] CARLOS ESCAMILLA-MEJIA, Juan - ANTONIO RODRIGUEZ, Jose - ARTURO ALVAREZ-ROMERO, Giaan - ANDRES GALAN-VIDAL, Carlos. Monoenzymatic Lipase Potentiometric Biosensor for the Food Analysis Based on a pH Sensitive Graphite-epoxy Composite as Transducer. In JOURNAL OF THE MEXICAN CHEMICAL SOCIETY. ISSN 1870-249X, 2015, vol. 59, no. 1, pp. 19-23., Registrované v: WOS
4. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on Gluconobacter oxydans. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
5. [1.1] LV, Feng - GONG, Yuzhu - CAO, Yingying - DENG, Yaoyao - LIANG, Shufeng - TIAN, Xin - GU, Hongwei - YIN, Jun-Jie. A convenient detection system consisting of efficient Au@PtRu nanozymes and alcohol oxidase for highly sensitive alcohol biosensing. In NANOSCALE ADVANCES. ISSN 2516-0230, 2020, vol. 2, no. 4, pp. 1583-1589. Dostupné na: <https://doi.org/10.1039/d0na00002g>., Registrované v: WOS
6. [1.1] NUNES, Wilian da Silva - DE OLIVEIRA, Caroline Silva - ALCANTARA, Glaucia Braz. Ethanol determination in frozen fruit pulps: an application of quantitative nuclear magnetic resonance. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2016, vol. 54, no. 4, pp. 334-340., Registrované v: WOS
7. [1.1] NURHIDAYAT, N. - ISWANTINI, D. - BESTARI, P. - PURWANINGSIH, H. - SUGIARTI, S. The Accuracy of Ethanol Biosensor Based with Acetobacter aceti Biofilm in Certifying Halal Food Products. In 8TH INTERNATIONAL CONFERENCE OF THE INDONESIAN CHEMICAL SOCIETY (ICICS)) 2019. ISSN 0094-243X, 2020, vol. 2243, no., pp. Dostupné na: <https://doi.org/10.1063/5.0004769>., Registrované v: WOS
8. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
9. [1.1] SIMONTE, Francesca - STURM, Gunnar - GESCHER, Johannes - STURM-RICHTER, Katrin. Extracellular Electron Transfer and Biosensors. In BIOELECTROSYNTHESIS. ISSN 0724-6145, 2019, vol. 167, no., pp. 15-38., Registrované v: WOS
10. [1.1] SONAWANE, Jayesh M. - EZUGWU, Chizoba - GHOSH, Prakash C. Microbial Fuel Cell-Based Biological Oxygen Demand Sensors for Monitoring Wastewater: State-of-the-Art and Practical Applications. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 8, pp. 2297-2316. Dostupné na: <https://doi.org/10.1021/acssensors.0c01299>., Registrované v: WOS
11. [1.1] TEPELI, Yudum - ANIK, Ulku. Preparation, Characterization and Electrochemical Application of Graphene-metallic Nanocomposites. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 12, pp. 3048-3054., Registrované v: WOS
12. [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. Advances in developing

rapid, reliable and portable detection systems for alcohol. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99.,

Registrované v: WOS

13. [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi - CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS

14. [1.1] YANG, Hong-Wei - HAO, Jiong-Ju - LIU, Yu-Jie - SONG, Da-Jie - NIU, Qing-Xia - PAN, Lei-Qing - XU, Zhi-Gang. Study of a Photonic Crystal Sensor for Detection of Solution Concentration. In *JOURNAL OF NANO-ELECTRONICS AND OPTOELECTRONICS*. ISSN 1555-130X, 2018, vol. 13, no. 1, pp. 111-118., Registrované v: WOS

15. [1.1] YILDIRIM, Nimet - DEMIRKOL, Dilek Odaci - TIMUR, Suna. Modified Gold Surfaces with Gold Nanoparticles and 6-(Ferrocenyl)hexanethiol: Design of a Mediated Microbial Sensor. In *ELECTROANALYSIS*. ISSN 1040-0397, 2015, vol. 27, no. 1, pp. 52-57., Registrované v: WOS

16. [1.1] YUDINA, N. Yu. - ARLYAPOV, V. A. - CHEPURNOVA, M. A. - ALFEROV, S. V. - RESHETILOV, A. N. A yeast co-culture-based biosensor for determination of waste water contamination levels. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2015, vol. 78, no., pp. 46-53., Registrované v: WOS

17. [1.2] ASLAN, Sema - Ó CONGHAILE, Peter - LEECH, Dónal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *ChemistrySelect*, 2017-01-01, 2, 36, pp. 12034-12040., Registrované v: SCOPUS

18. [1.2] GONCHAR, Mykhailo - SMUTOK, Oleh - KARKOVSKA, Maria - STASYUK, Nataliya - GAYDA, Galina. Yeast-based biosensors for clinical diagnostics and food control. In *Biotechnology of Yeasts and Filamentous Fungi*, 2017-06-12, pp. 391-412., Registrované v: SCOPUS

19. [1.2] ISWANTINI, D. - NURHIDAYAT, N. - UTAMI, T. W. - TRIVADILA - SOEBRATA, B. M. Pineapple juice's microbe as bioreceptor for detecting alcohol by electrochemical method. In *IOP Conference Series: Earth and Environmental Science*. ISSN 17551307, 2018-11-19, 187, 1, pp., Registrované v: SCOPUS

20. [1.2] SUSPARINI, Ninik Triayu - ABIDIN, Zaenal - ISWANTINI, Dyah - NURHIDAYAT, Novik. Sensitive and stable ethanol biosensor development based on acetobacter aceti biofilm for halal detection of food and beverages. In *Journal of Applied Biology and Biotechnology*, 2019-11-01, 7, 6, pp. 40-47., Registrované v: SCOPUS

ADCA1336 TKÁČ, Ján - ŠVITEL, Juraj - VOSTIAR, Igor - NAVRÁTIL, Marian - GEMEINER, Peter. Membrane-bound dehydrogenases from *Gluconobacter* sp.: Interfacial electrochemistry and direct bioelectrocatalysis. Igor Vostiar, Marian Navrátil, Peter Gemeiner. In *Bioelectrochemistry*, 2009, vol.76, p.53-62. (2008: 2.444 - IF, Q2 - JCR, 1.038 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2009.02.013>

Ohlasy:

1. [1.1] ADACHI, Taiki - KAIDA, Yuya - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Bioelectrocatalytic performance of D-fructose dehydrogenase. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2019, vol. 129, no., pp. 1-9., Registrované v: WOS
2. [1.1] ALFEROV, S. V. - VOZCHIKOVA, S. V. - ARLYAPOV, V. A. - ALFEROV, V. A. - RESHETILOV, A. N. Competition Between Redox Mediator and Oxygen in the Microbial Fuel Cell. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 2, pp. 267-272., Registrované v: WOS
3. [1.1] ASLAN, Sema - ANIK, Ulku. Microbial glucose biosensors based on glassy carbon paste electrodes modified with Gluconobacter Oxydans and graphene oxide or graphene-platinum hybrid nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2016, vol. 183, no. 1, pp. 73-81., Registrované v: WOS
4. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
5. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and Gluconobacter oxydans DSM 2343 Cells. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
6. [1.1] BOLLELLA, Paolo - KATZ, Evgeny. Enzyme-Based Biosensors: Tackling Electron Transfer Issues. In SENSORS, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123517>., Registrované v: WOS
7. [1.1] DE FOUCHECOUR, Florence - SANCHEZ-CASTANEDA, Ana-Karen - SAULOU-BERION, Claire - SPINNLER, Henry Eric. Process engineering for microbial production of 3-hydroxypropionic acid. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2018, vol. 36, no. 4, pp. 1207-1222., Registrované v: WOS
8. [1.1] GIMKIEWICZ, Carla - HUNGER, Steffi - HARNISCH, Falk. Evaluating the Feasibility of Microbial Electrosynthesis Based on Gluconobacter oxydans. In CHEMELECTROCHEM. ISSN 2196-0216, 2016, vol. 3, no. 9, pp. 1337-1346., Registrované v: WOS
9. [1.1] GOMEZ-ANQUELA, C. - GARCIA-MENDIOLA, T. - ABAD, Jose M. - PITA, M. - PARIENTE, F. - LORENZO, E. Scaffold electrodes based on thioctic acid-capped gold nanoparticles coordinated Alcohol Dehydrogenase and Azure A films for high performance biosensor. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2015, vol. 106, no., pp. 335-342., Registrované v: WOS
10. [1.1] GORDEGIR, Meleknur - OZ, Sultan - YEZER, Irem - BUHUR, Merve - UNAL, Betul - DEMIRKOL, Dilek Odaci. Cells-on-nanofibers: Effect of polyethyleneimine on hydrophobicity of poly-epsilon-caprolacton electrospun nanofibers and immobilization of bacteria. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 126, no., pp. 24-31., Registrované v: WOS

11. [1.1] HUA, Xia - DU, GenLai - HAN, Jian - XU, Yong. Bioprocess Intensification for Whole-Cell Catalysis of Catabolized Chemicals with 2,4-Dinitrophenol Uncoupling. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 41, pp. 15782-15790. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c06466>., Registrované v: WOS
12. [1.1] HU, Zhong-Ce - ZHAO, Zi-Yu - KE, Xia - ZHENG, Yu-Guo. Repeated production of 6-(N-hydroxyethyl)-amino-6-deoxy- α -l-sorbofuranose by immobilized *Gluconobacter oxydans* cells with a strategy of in situ exhaustive cell regeneration. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2020, vol. 43, no. 10, pp. 1781-1789. Dostupné na: <https://doi.org/10.1007/s00449-020-02368-8>., Registrované v: WOS
13. [1.1] KANO, Kenji. Fundamentals and Applications of Redox Enzyme-functionalized Electrode Reactions. In ELECTROCHEMISTRY. ISSN 1344-3542, 2019, vol. 87, no. 6, pp. 301-311., Registrované v: WOS
14. [1.1] KOMORI, K. - HUANG, J. - MIZUSHIMA, N. - KO, S. - TATSUMA, T. - SAKAI, Y. Controlled direct electron transfer kinetics of fructose dehydrogenase at cup-stacked carbon nanofibers. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 40, pp. 27795-27800., Registrované v: WOS
15. [1.1] LIU, Xiaoqiang - YAN, Rui - ZHU, Jie - HUO, Xiaohe - WANG, Xinhai. DEVELOPMENT OF A PHOTOELECTROCHEMICAL LACTIC DEHYDROGENASE BIOSENSOR USING MULTI-WALL CARBON NANOTUBETIO₂ NANOPARTICLE COMPOSITE AS COENZYME REGENERATION TOOL. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 173, no., pp. 260-267., Registrované v: WOS
16. [1.1] MA, Qian - BI, Yan-Hui - WANG, En-Xu - ZHAI, Bing-Bing - DONG, Xiu-Tao - QIAO, Bin - DING, Ming-Zhu - YUAN, Ying-Jin. Integrated proteomic and metabolomic analysis of a reconstructed three-species microbial consortium for one-step fermentation of 2-keto-l-gulonic acid, the precursor of vitamin C. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2019, vol. 46, no. 1, pp. 21-31., Registrované v: WOS
17. [1.1] MILTON, Ross D. - MINTEER, Shelley D. Direct enzymatic bioelectrocatalysis: differentiating between myth and reality. In JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689, 2017, vol. 14, no. 131, pp., Registrované v: WOS
18. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In MEMBRANES. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS
19. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - PRISYAZHNAYA, Natalia - KOLESOV, Vladimir - SIGAEV, Vladimir - SIGNORE, Maria Assunta - RESHETILOV, Anatoly. Multiwalled Carbon Nanotubes and the Electrocatalytic Activity of *Gluconobacter oxydans* as the Basis of a Biosensor. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS
20. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV,

- Aleksandr - RESHETILOV, Anatoly. Electrochemical assessment of the interaction of microbial living cells and carbon nanomaterials. In IET NANOBIO TECHNOLOGY. ISSN 1751-8741, 2019, vol. 13, no. 3, pp. 332-338., Registrované v: WOS
21. [1.1] RASMUSSEN, Michelle - ABDELLAOUI, Sofiene - MINTEER, Shelley D. Enzymatic biofuel cells: 30 years of critical advancements. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2016, vol. 76, no., pp. 91-102., Registrované v: WOS
22. [1.1] RAZUMIENE, J. - SAKINYTE, I. - BARKAUSKAS, J. - BARONAS, R. Nano-structured carbon materials for improved biosensing applications. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2015, vol. 334, no., pp. 185-191., Registrované v: WOS
23. [1.1] RESHETILOV, A. N. - KITOVA, A. E. - KOLESOV, V. V. - YAROPOLOV, A. I. Mediator-Free Bioelectrocatalytic Oxidation of Ethanol on an Electrode from Thermally Expanded Graphite Modified by Gluconobacter oxydans Membrane Fractions. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 6, pp. 1443-1448., Registrované v: WOS
24. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by Gluconobacter oxydans Bacterial Cells. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
25. [1.1] SAKINYTE, Ieva - BARKAUSKAS, Jurgis - GAIDUKEVIC, Justina - RAZUMIENE, Julija. Thermally reduced graphene oxide: The study and use for reagentless amperometric D-fructose biosensors. In TALANTA. ISSN 0039-9140, 2015, vol. 144, no., pp. 1096-1103., Registrované v: WOS
26. [1.1] SARAULI, David - WETTSTEIN, Christoph - PETERS, Kristina - SCHULZ, Burkhard - FATTAKHOVA-ROHLFING, Dina - LISDAT, Fred. Interaction of Fructose Dehydrogenase with a Sulfonated Polyaniline: Application for Enhanced Bioelectrocatalysis. In ACS CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 4, pp. 2081-2087., Registrované v: WOS
27. [1.1] STOLARCZYK, Krzysztof - ROGALSKI, Jerzy - BILEWICZ, Renata. NAD(P)-dependent glucose dehydrogenase: Applications for biosensors, bioelectrodes, and biofuel cells. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 135, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107574>., Registrované v: WOS
28. [1.1] TAKEDA, Kouta - IGARASHI, Kiyohiko - YOSHIDA, Makoto - NAKAMURA, Nobuhumi. Discovery of a novel quinoxaline protein from a eukaryote and its application in electrochemical devices. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2019.107372>., Registrované v: WOS
29. [1.1] TAKEDA, Kouta - KUSUOKA, Ryo - BIRRELL, James A. - YOSHIDA, Makoto - IGARASHI, Kiyohiko - NAKAMURA, Nobuhumi. Bioelectrocatalysis based on direct electron transfer of fungal pyrroloquinoline quinone-dependent dehydrogenase lacking the cytochrome domain. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2020, vol. 359, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.136982>., Registrované v: WOS

30. [1.1] VOITECHOVIC, E. - BRATOV, A. - ABRAMOVA, N. - RAZUMIENE, J. - KIRSANOV, D. - LEGIN, A. - LAKSHMI, D. - PILETSKY, S. - WHITCOMBE, M. - IVANOVA-MITSEVA, P. K. Development of label-free impedimetric platform based on new conductive polyaniline polymer and three-dimensional interdigitated electrode array for biosensor applications. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2015, vol. 173, no., pp. 59-66., Registrované v: WOS
31. [1.1] WETTSTEIN, Christoph - KANO, Kenji - SCHAEFER, Daniel - WOLLENBERGER, Ulla - LISDAT, Fred. Interaction of Flavin-Dependent Fructose Dehydrogenase with Cytochrome c as Basis for the Construction of Biomacromolecular Architectures on Electrodes. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2016, vol. 88, no. 12, pp. 6382-6389., Registrované v: WOS
32. [1.1] YAMASHITA, Yuki - LEE, Inyoung - LOEW, Noya - SODE, Koji. Direct electron transfer (DET) mechanism of FAD dependent dehydrogenase complexes similar to from the elucidation of intra- and inter-molecular electron transfer pathway to the construction of engineered DET enzyme complexes similar to. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 92-100., Registrované v: WOS
33. [1.1] ZENGA, Weizhu - CAIA, Wen - LIUA, Li - DUA, Guocheng - CHENA, Jian - ZHOUA, Jingwen. Efficient biosynthesis of 2-keto-D-gluconic acid by fed-batch culture of metabolically engineered *Gluconobacter japonicus*. In SYNTHETIC AND SYSTEMS BIOTECHNOLOGY. ISSN 2405-805X, 2019, vol. 4, no. 3, pp. 134-141., Registrované v: WOS
34. [1.1] ZHANG, Huan - SHI, Lulu - MAO, Xinlei - LIN, Jinping - WEI, Dongzhi. Enhancement of cell growth and glycolic acid production by overexpression of membrane-bound alcohol dehydrogenase in *Gluconobacter oxydans* DSM 2003. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2016, vol. 237, no., pp. 18-24., Registrované v: WOS
35. [1.2] BHADRA, Chris M. - THARUSHI PERERA, Palalle G. - TRUONG, Vi Khanh - PONAMOREVA, Olga N. - CRAWFORD, Russell J. - IVANOVA, Elena P. Renewable bio-anodes for microbial fuel cells. In Handbook of Ecomaterials, 2019-02-13, 2, pp. 1167-1182., Registrované v: SCOPUS
36. [1.2] ZOR, Erhan - OZTEKIN, Yasemin - RAMANAVICIENE, Almira - ANUSEVICIUS, Zilvinas - VORONOVIC, Jaroslav - BINGOL, Haluk - BARAUSKAS-MEMENAS, Dana - LABANAUSKAS, Linas - RAMANAVICIUS, Arunas. Evaluation of 1,10-phenanthroline-5,6-dione as redox mediator for glucose oxidase. In Journal of Analytical Chemistry. ISSN 10619348, 2016-01-01, 71, 1, pp. 77-81., Registrované v: SCOPUS

ADCA1337 TKÁČ, Ján - NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Monitoring of dihydroxyacetone production during oxidation of glycerol by immobilized *Gluconobacter oxydans* cells with an enzyme biosensor. In *Enzyme and Microbial Technology*, 2001, vol. 28, p. 383-388. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(00\)00328-8](https://doi.org/10.1016/S0141-0229(00)00328-8)

Ohlasy:

1. [1.1] AYANKOJO, Akinrinade George - REUT, Jekaterina - OPIK, Andres - TRETJAKOV, Aleksei - SYRITSKI, Vitali. Enhancing binding

- properties of imprinted polymers for the detection of small molecules. In PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES. ISSN 1736-6046, 2018, vol. 67, no. 2, pp. 138-146., Registrované v: WOS
2. [1.1] AYMARD, Chloe - BONAVENTURA, Celia - HENKENS, Robert - MOUSTY, Christine - HECQUET, Laurence - CHARMANTRAY, Franck - BLUM, Loic J. - DOUMECHÉ, Bastien. High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 957-966., Registrované v: WOS
3. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on *Gluconobacter oxydans*. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
4. [1.1] FRICKE, Philipp Moritz - LINK, Tobias - GAETGENS, Jochem - SONNTAG, Christiane - OTTO, Maike - BOTT, Michael - POLEN, Tino. A tunable arabinose-inducible expression plasmid for the acetic acid bacterium *Gluconobacter oxydans*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 21, pp. 9267-9282. Dostupné na: <https://doi.org/10.1007/s00253-020-10905-4>., Registrované v: WOS
5. [1.1] GORSKA, Katarzyna - GARNCAREK, Zbigniew. Optimization of the nitrogen source in the culture medium with waste glycerol for the production of dihydroxyacetone. In PRZEMYSŁ CHEMICZNY. ISSN 0033-2496, 2019, vol. 98, no. 8, pp. 1306-1312., Registrované v: WOS
6. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. Review of Biosensors in Industrial Process Control. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103., Registrované v: WOS
7. [1.1] KRANZ, Angela - STEINMANN, Andrea - DEGNER, Ursula - MENGUS-KAYA, Aliye - MATAMOUROS, Susana - BOTT, Michael - POLEN, Tino. Global mRNA decay and 23S rRNA fragmentation in *Gluconobacter oxydans* 621H. In BMC GENOMICS. ISSN 1471-2164, 2018, vol. 19, no., pp., Registrované v: WOS
8. [1.1] KRANZ, Angela - VOGEL, Alexander - DEGNER, Ursula - KIEFLER, Ines - BOTT, Michael - USADEL, Bjoern - POLEN, Tino. High precision genome sequencing of engineered *Gluconobacter oxydans* 621H by combining long nanopore and short accurate Illumina reads. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 258, no., pp. 197-205., Registrované v: WOS
9. [1.1] LIU, Yujia - XIAO, Yao - XIA, Changjiu - YI, Xianfeng - ZHAO, Yi - YUAN, Jiamin - HUANG, Kaimeng - ZHU, Bin - ZHENG, Anmin - LIN, Min - PENG, Xinxin - LUO, Yibin - SHU, Xingtian. Insight into the effects of acid characteristics on the catalytic performance of Sn-MFI zeolites in the transformation of dihydroxyacetone to methyl lactate. In JOURNAL OF CATALYSIS. ISSN 0021-9517, 2020, vol. 391, no., pp. 386-396. Dostupné na:

<https://doi.org/10.1016/j.jcat.2020.09.004>., Registrované v: WOS

10. [1.1] MOTTA, Davide - TRUJILLO, Felipe J. Sanchez - DIMITRATOS, Nikolaos - VILLA, Alberto - PRATI, Laura. An investigation on AuPt and AuPt-Bi on granular carbon as catalysts for the oxidation of glycerol under continuous flow conditions. In CATALYSIS TODAY. ISSN 0920-5861, 2018, vol. 308, no., pp. 50-57., Registrované v: WOS
11. [1.1] SARA, M. - ROUISSI, T. - BRAR, S. K. - BLAIS, J. F. Propylene Glycol: An Industrially Important C3 Platform Chemical. In PLATFORM CHEMICAL BIOREFINERY: FUTURE GREEN CHEMISTRY, 2016, vol., no., pp. 77-100., Registrované v: WOS
12. [1.1] ZHAO, Wei Chen - REN, Hai Rui - ZHANG, Xin - WANG, Zheng - ZHAO, Yong Mei - LIU, Luo - WU, Zheng Long - XU, Hai Jun. Rapid determination of 1,3-propanediol in fermentation process based on a novel surface-enhanced Raman scattering biosensor. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2019, vol. 211, no., pp. 227-233., Registrované v: WOS
13. [1.1] ZHUANG, Meng-Yao - WANG, Cong - XU, Meng-Qiu - LING, Xiao-Min - SHEN, Jia-Jia - ZHANG, Ye-Wang. Using concanavalinA as a spacer for immobilization of E-coli onto magnetic nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 63-69., Registrované v: WOS
14. [1.2] LI, Yue Hua - ZHOU, Wei - YANG, Lan - ZHANG, Jing Jing - WANG, Shuang - LIU, Tao - ZHANG, Yan - ZHANG, Wei. Establishment of real-time fluorescence quantitative PCR for gluconobacter using SYBR green I. In Modern Food Science and Technology. ISSN 16739078, 2015-01-01, 31, 4, pp., Registrované v: SCOPUS

ADCA1338 TKÁČ, Ján - VOŠTIAR, I. - GEMEINER, Peter - ŠTURDÍK, Ernest. Monitoring of ethanol during fermentation using a microbial biosensor with enhanced selectivity. In *Bioelectrochemistry*, 2002, vol. 56, p. 127-129. (2002 - Current Contents). ISSN 1567-5394. Dostupné na: [https://doi.org/10.1016/S1567-5394\(02\)00054-3](https://doi.org/10.1016/S1567-5394(02)00054-3)

Ohlasy:

1. [1.1] GORDEGIR, Meleknur - OZ, Sultan - YEZER, Irem - BUHUR, Merve - UNAL, Betul - DEMIRKOL, Dilek Odaci. Cells-on-nanofibers: Effect of polyethyleneimine on hydrophobicity of poly-epsilon-caprolacton electrospun nanofibers and immobilization of bacteria. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 126, no., pp. 24-31., Registrované v: WOS
2. [1.1] SAMPHAO, Anchalee - KUNPATEE, Kanjana - PRAYOONPOKARACH, Sanchai - WITTAYAKUN, Jatuporn - SVORC, Lubomir - STANKOVIC, Dalibor M. - ZAGAR, Kristina - CEH, Miran - KALCHER, Kurt. An Ethanol Biosensor Based on Simple Immobilization of Alcohol Dehydrogenase on Fe₃O₄@Au Nanoparticles. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 12, pp. 2829-2837., Registrované v: WOS
3. [1.1] WANG, Bo - WANG, Xiaoli - HE, Zhifang - ZHAO, Xiufeng - WANG, Linyu. Direct Electrochemistry of Glucose Oxidase on a Graphene-Graphene Oxide Nanocomposite-Modified Electrode for a Glucose Biosensor. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL

SCIENCE. ISSN 1452-3981, 2019, vol. 14, no. 8, pp. 7495-7506., Registrované v: WOS

4. [1.2] Saxena, S. (2015). Applied microbiology. In Applied microbiology (pp. 1-190), Registrované v: SCOPUS

ADCA1339 TKÁČ, Ján - ŠTURDÍK, E. - GEMEINER, Peter. Novel glucose non-interference biosensor for lactose detection based on galactose oxidase-peroxidase with and without co-immobilised beta-galactosidase. In *Analyst*, 2000, vol. 125, p. 1285-1289. ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/b001432j>

Ohlasy:

1. [1.1] ADACHI, Taiki - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Development Perspective of Bioelectrocatalysis-Based Biosensors. In *SENSORS*, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174826>., Registrované v: WOS

2. [1.1] BAZAR, Gyoergy - KOVACS, Zoltan - TANAKA, Mariko - FURUKAWA, Akane - NAGAI, Airi - OSAWA, Manami - ITAKURA, Yukari - SUGIYAMA, Hiroshi - TSENKOVA, Roumiana. Water revealed as molecular mirror when measuring low concentrations of sugar with near infrared light. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2015, vol. 896, no., pp. 52-62., Registrované v: WOS

3. [1.1] KOVACS, Zoltan - BAZAR, Gyoergy - OSHIMA, Mitsue - SHIGEOKA, Shogo - TANAKA, Mariko - FURUKAWA, Akane - NAGAI, Airi - OSAWA, Manami - ITAKURA, Yukari - TSENKOVA, Roumiana. Water spectral pattern as holistic marker for water quality monitoring. In *TALANTA*. ISSN 0039-9140, 2016, vol. 147, no., pp. 598-608., Registrované v: WOS

4. [1.1] LOPEZ, Francesca - MA, Su - LUDWIG, Roland - SCHUHMANN, Wolfgang - RUFF, Adrian. A Polymer Multilayer Based Amperometric Biosensor for the Detection of Lactose in the Presence of High Concentrations of Glucose. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 1, pp. 154-161., Registrované v: WOS

5. [1.1] MAO, Guobin - LIU, Chen - DU, Mingyuan - ZHANG, Yuwei - JI, Xinghu - HE, Zhike. One-pot synthesis of the stable CdZnTeS quantum dots for the rapid and sensitive detection of copper-activated enzyme. In *TALANTA*. ISSN 0039-9140, 2018, vol. 185, no., pp. 123-131., Registrované v: WOS

6. [1.1] SHARMA, Shiv K. - LEBLANC, Roger M. Biosensors based on beta-galactosidase enzyme: Recent advances and perspectives. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 535, no., pp. 1-11., Registrované v: WOS

7. [1.1] SINGH, Ranjana - YADAV, Anjali - SHEKHAR, Shashank - AJAD, Ranjan K. - SING, Ranjan K. - KAYASTHA, Arvind M. Nitrogen Doped Carbon Quantum Dots Modified by *Lens culinaris* beta-Galactosidase as a Fluorescent Probe for Detection of Lactose. In *JOURNAL OF FLUORESCENCE*. ISSN 1053-0509, 2019, vol. 29, no. 5, pp. 1213-1219., Registrované v: WOS

8. [1.1] ZINNA, Jessica - LOCKWOOD, Tracy-Lynn E. - LIEBERMAN, Marya. Enzyme-based paper test for detection of lactose in illicit drugs. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2020, vol. 12, no. 8, pp. 1077-1084. Dostupné na: <https://doi.org/10.1039/c9ay02459j>., Registrované v: WOS

9. [1.2] KOVACS, Zoltan - BÁZÁR, György - OSHIMA, Mitsue - SHIGEOKA, Shogo - TANAKA, Mariko - FURUKAWA, Akane - NAGAI, Airi - OSAWA, Manami - ITAKURA, Yukari - TSENKOVA, Roumiana. Water spectral pattern as holistic marker for water quality monitoring. In *Talanta*. ISSN 00399140, 2015-10-22, 147, pp. 598-608., Registrované v: SCOPUS

ADCA1340 TKÁČ, Ján - GEMEINER, Peter - ŠTURDÍK, E. Rapid and sensitive galactose oxidase-peroxidase biosensor for galactose detection with prolonged stability. In *Biotechnology Techniques*, 1999, vol. 13, p. 931-936. Dostupné na: <https://doi.org/10.1023/A:1008966413722>

Ohlasy:

1. [1.1] ADACHI, Taiki - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Development Perspective of Bioelectrocatalysis-Based Biosensors. In *SENSORS*, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174826>., Registrované v: WOS

2. [1.1] DALKIRAN, Berna - ERDEN, Pinar Esra - KILIC, Esma. Electrochemical biosensing of galactose based on carbon materials: graphene versus multi-walled carbon nanotubes. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2016, vol. 408, no. 16, pp. 4329-4339., Registrované v: WOS

3. [1.1] KANYONG, Prosper - KRAMPA, Francis D. - ANIWEH, Yaw - AWANDARE, Gordon A. Enzyme-based amperometric galactose biosensors: a review. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 10, pp. 3663-3671., Registrované v: WOS

4. [1.1] LABBAN, Najwa - WAYU, Mulugeta B. - STEELE, Ciara M. - MUNOZ, Tess S. - POLLOCK, Julie A. - CASE, William S. - LEOPOLD, Michael C. First Generation Amperometric Biosensing of Galactose with Xerogel-Carbon Nanotube Layer-By-Layer Assemblies. In *NANOMATERIALS*, 2019, vol. 9, no. 1, pp., Registrované v: WOS

5. [1.1] LI, Menglu - YANG, Juan - OU, Yining - SHI, Ying - LIU, Li - SUN, Chaoqun - ZHENG, Huzhi - LONG, Yijuan. Peroxidase-like activity of 2',7'-difluorofluorescein and its application for galactose detection. In *TALANTA*. ISSN 0039-9140, 2018, vol. 182, no., pp. 422-427., Registrované v: WOS

6. [1.1] NIE, Yixin - LIU, Yang - ZHANG, Qian - SU, Xingguang - MA, Qiang. Novel coreactant modifier-based amplified electrochemiluminescence sensing method for point-of-care diagnostics of galactose. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 138, no., pp., Registrované v: WOS

7. [1.1] PHUONG HA LA PHAN - QUANG TRUNG TRAN - DUC ANH DINH - BOK, Ko Kang - HONG, Chang-Hee - TRAN VIET CUONG. The Facile Synthesis of Novel ZnO Nanostructure for Galactose Biosensor Application. In *JOURNAL OF NANOMATERIALS*. ISSN 1687-4110, 2019, vol. 2019, no., pp., Registrované v: WOS

8. [1.1] ZHANG, Juan - LV, Jun - WANG, Xiaonan - LI, Defeng - WANG, Zhaoxia - LI, Genxi. Integration of chemoselective ligation with enzymespecific catalysis: Saccharic colorimetric analysis using aminoxy/hydrazine-functionalized gold nanoparticles. In *NANO RESEARCH*. ISSN 1998-0124, 2015, vol. 8, no. 12, pp. 3853-3863., Registrované v: WOS

ADCA1341 TKÁČ, Ján - VOŠTIAR, I. - GEMEINER, Peter - ŠTURDÍK, Ernest.
Stabilization of ferrocene leakage by physical retention in a cellulose acetate membrane. The fructose biosensor. In *Bioelectrochemistry*, 2002, vol. 55, p. 149-151. (2002 - Current Contents). ISSN 1567-5394. Dostupné na: [https://doi.org/10.1016/S1567-5394\(01\)00130-X](https://doi.org/10.1016/S1567-5394(01)00130-X)

Ohlasy:

1. [1.1] BOLLELLA, Paolo - HIBINO, Yuya - CONEJO-VALVERDE, Paolo - SOTO-CRUZ, Jackeline - BERGUEIRO, Julian - CALDERON, Marcelo - ROJAS-CARRILLO, Oscar - KANO, Kenji - GORTON, Lo. The influence of the shape of Au nanoparticles on the catalytic current of fructose dehydrogenase. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2019, vol. 411, no. 29, pp. 7645-7657., Registrované v: WOS
2. [1.1] KAMEL, Samir - KHATTAB, Tawfik A. Recent Advances in Cellulose-Based Biosensors for Medical Diagnosis. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 6, pp. Dostupné na: <https://doi.org/10.3390/bios10060067>., Registrované v: WOS
3. [1.1] ZHANG, Ren-zhong - PAN, Bo-guang - WANG, Hai-ning - DAN, Jian-ming - HONG, Cheng-lin - LI, Hong-ling. Polydopamine and graphene oxide synergistically modified Prussian blue electrochemical immunosensor for the detection of alpha-fetoprotein with enhanced stability and sensibility. In *RSC ADVANCES*, 2015, vol. 5, no. 48, pp. 38176-38182., Registrované v: WOS
4. [1.2] ARYA, Aditya - GANGWAR, Anamika - KUMAR, Amit. Biosensors in animal biotechnology. In *Nanotechnology in Modern Animal Biotechnology: Concepts and Applications*, 2019-01-01, pp. 75-95., Registrované v: SCOPUS
5. [1.2] BAHARIFAR, Hadi - HONARVARFARD, Elham - MALEK-KHEILI, Mohammad Haji - MALEKI, Hassan - BARKHI, Mohammad - GHASEMZADEH, Ali - KHOSHNEVISAN, Kamyar. The Potentials and Applications of Cellulose Acetate in biosensor technology. In *Nanomedicine Research Journal*. ISSN 24763489, 2017-01-01, 2, 4, pp. 216-223., Registrované v: SCOPUS
6. [1.2] WANG, Hai Ning - FENG, Tao Tao - SUN, Zhao - QIAO, Xiu Wen - QI, Yu - HONG, Cheng Lin. Preparation and electrochemical properties of electrodes modified by novel enzyme-functionalized Co₃/Ni₄-Pt nanocomposite. In *Xiandai Huagong/Modern Chemical Industry*. ISSN 02534320, 2016-04-20, 36, 4, pp. 81-84., Registrované v: SCOPUS

ADCA1342 TKÁČ, Ján - WHITTAKER, J.W. - RUZGAS, T. The use of single walled carbon nanotubes dispersed in a chitosan matrix for preparation of a galactose biosensor. In *Biosensors and Bioelectronics*, 2007, vol. 22, p. 1820-1824. (2006: 4.132 - IF, Q1 - JCR, 1.911 - SJR, Q1 - SJR). Dostupné na: <https://doi.org/10.1016/j.bios.2006.08.014>

Ohlasy:

1. [1.1] ALSUHYBANI, Mohammed - ALSHAHRANI, Ahmed - HAIDYRAH, Ahmed S. Synthesis, Characterization, and Evaluation of Evaporated Casting MWCNT/Chitosan Composite Membranes for Water Desalination. In *JOURNAL OF CHEMISTRY*. ISSN 2090-9063, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/5207680>., Registrované v: WOS

2. [1.1] BAI, Jialei - ZHANG, Xiaoyan - PENG, Yuan - HONG, Xiaodi - LIU, Yuanyuan - JIANG, Suiyi - NING, Baoan - GAO, Zhixian. Ultrasensitive sensing of diethylstilbestrol based on AuNPs/MWCNTs-CS composites coupling with sol-gel molecularly imprinted polymer as a recognition element of an electrochemical sensor. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 238, no., pp. 420-426., Registrované v: WOS
3. [1.1] DALKIRAN, Berna - ERDEN, Pinar Esra - KILIC, Esma. Electrochemical biosensing of galactose based on carbon materials: graphene versus multi-walled carbon nanotubes. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2016, vol. 408, no. 16, pp. 4329-4339., Registrované v: WOS
4. [1.1] DE CESARE, Fabrizio - MACAGNANO, Antonella. Electrospinning-Based Nanobiosensors. In ELECTROSPINNING FOR HIGH PERFORMANCE SENSORS. ISSN 1434-4904, 2015, vol., no., pp. 225-279., Registrované v: WOS
5. [1.1] HATAMI, Zahra - JALALI, Fahimeh. Voltammetric Determination of Immunosuppressive Agent, Azathioprine, by Using a Graphene-Chitosan Modified-Glassy Carbon Electrode. In RUSSIAN JOURNAL OF ELECTROCHEMISTRY. ISSN 1023-1935, 2015, vol. 51, no. 1, pp. 70-76., Registrované v: WOS
6. [1.1] CHARMANTRAY, Franck - TOUISNI, Nadia - HECQUET, Laurence - NOGUER, Thierry - MOUSTY, Christine. Galactose Oxidase/Prussian Blue Based Biosensors. In ELECTROANALYSIS. ISSN 1040-0397, 2015, vol. 27, no. 6, pp. 1341-1344., Registrované v: WOS
7. [1.1] CHEN, Zhifei - WANG, Weihua - LI, Han - LI, Yuanyuan - CHEN, Jun. Rapid Detection of Mycobacterium bovis in Milk by a Nanobiosensor. In INTERNATIONAL JOURNAL OF APPLIED RESEARCH IN VETERINARY MEDICINE. ISSN 1542-2666, 2015, vol. 13, no. 2, pp. 93-99., Registrované v: WOS
8. [1.1] JIA, Yi - LI, Junbai. Molecular Assembly of Schiff Base Interactions: Construction and Application. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 3, pp. 1597-1621., Registrované v: WOS
9. [1.1] KANYONG, Prosper - KRAMPA, Francis D. - ANIWEH, Yaw - AWANDARE, Gordon A. Enzyme-based amperometric galactose biosensors: a review. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 10, pp. 3663-3671., Registrované v: WOS
10. [1.1] KARIMIAN, Nashmil - HASHEMI, Pegah - KHANMOHAMMADI, Akbar - AFKHAMI, Abbas - BAGHERI, Hasan. The Principles and Recent Applications of Bioelectrocatalysis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY RESEARCH. ISSN 2383-093X, 2020, vol. 7, no. 3, pp. 281-301., Registrované v: WOS
11. [1.1] KARIMI, P. - EBRAHIMI, A. Comparison between gas phase and solvent media for pi-pi stacking interactions of benzene with graphene and single-walled carbon nanotubes. In MOROCCAN JOURNAL OF CHEMISTRY. ISSN 2351-812X, 2016, vol. 4, no. 3, pp. 669-677., Registrované v: WOS
12. [1.1] KURBANOGLU, Sevinc - ZAFAR, Muhammed Nadeem - TASCA, Federico - ASLAM, Iqra - SPADIUT, Oliver - LEECH, Donal - HALTRICH, Dietmar - GORTON, Lo. Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications. In ELECTROANALYSIS. ISSN

- 1040-0397, 2018, vol. 30, no. 7, pp. 1496-1504., Registrované v: WOS
13. [1.1] LABBAN, Najwa - WAYU, Mulugeta B. - STEELE, Ciara M. - MUNOZ, Tess S. - POLLOCK, Julie A. - CASE, William S. - LEOPOLD, Michael C. First Generation Amperometric Biosensing of Galactose with Xerogel-Carbon Nanotube Layer-By-Layer Assemblies. In NANOMATERIALS, 2019, vol. 9, no. 1, pp., Registrované v: WOS
14. [1.1] MANDANI, Sonam - MAJEE, Prativa - SHARMA, Bhagwati - SARMA, Daisy - THAKUR, Neha - NAYAK, Debasis - SARMA, Tridib K. Carbon Dots as Nanodispersants for Multiwalled Carbon Nanotubes: Reduced Cytotoxicity and Metal Nanoparticle Functionalization. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 31, pp. 7622-7632., Registrované v: WOS
15. [1.1] MA, Li Ya - MIAO, Shan Shan - LU, Feng Fan - WU, Mei Sheng - LU, Yi Chen - YANG, Hong. Selective Electrochemical Determination of Salicylic Acid in Wheat Using Molecular Imprinted Polymers. In ANALYTICAL LETTERS. ISSN 0003-2719, 2017, vol. 50, no. 15, pp. 2369-2385., Registrované v: WOS
16. [1.1] MA, Ya - SHEN, Xiao-Lei - WANG, Hai-Shui - TAO, Jia - HUANG, Jian-Zhi - ZENG, Qiang - WANG, Li-Shi. MIPs-graphene nanoplatelets-MWCNTs modified glassy carbon electrode for the determination of cardiac troponin I. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2017, vol. 520, no., pp. 9-15., Registrované v: WOS
17. [1.1] MA, Ya - SHEN, Xiao-Lei - ZENG, Qiang - WANG, Hai-Shui - WANG, Li-Shi. A multi-walled carbon nanotubes based molecularly imprinted polymers electrochemical sensor for the sensitive determination of HIV-p24. In TALANTA. ISSN 0039-9140, 2017, vol. 164, no., pp. 121-127., Registrované v: WOS
18. [1.1] MIE, Yasuhiro - KATAGAI, Shizuka - IKEGAMI, Masiki. Electrochemical Oxidation of Monosaccharides at Nanoporous Gold with Controlled Atomic Surface Orientation and Non-Enzymatic Galactose Sensing. In SENSORS, 2020, vol. 20, no. 19, pp. Dostupné na: <https://doi.org/10.3390/s20195632>., Registrované v: WOS
19. [1.1] OLIVEIRA, Sabrina F. - BISKER, Gili - BAKH, Naveed A. - GIBBS, Stephen L. - LANDRY, Markita P. - STRANO, Michael S. Protein functionalized carbon nanomaterials for biomedical applications. In CARBON. ISSN 0008-6223, 2015, vol. 95, no., pp. 767-779., Registrované v: WOS
20. [1.1] PANNELL, Michael J. - DOLL, Elizabeth E. - LABBAN, Najwa - WAYU, Mulugeta B. - POLLOCK, Julie A. - LEOPOLD, Michael C. Versatile sarcosine and creatinine biosensing schemes utilizing layer-by-layer construction of carbon nanotube-chitosan composite films. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 814, no., pp. 20-30., Registrované v: WOS
21. [1.1] REDONDO-GOMEZ, Carlos - LEANDRO-MORA, Rocio - BLANCH-BERMUDEZ, Daniela - ESPINOZA-ARAYA, Christopher - HIDALGO-BARRANTES, David - VEGA-BAUDRIT, Jose. Recent Advances in Carbon Nanotubes for Nervous Tissue Regeneration. In ADVANCES IN POLYMER TECHNOLOGY. ISSN 0730-6679, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/6861205>., Registrované v: WOS
22. [1.1] SHARMA, Mamta - YADAV, Pooja - SHARMA, Minakshi. Novel electrochemical sensing of galactose using GalOxNPs/CHIT modified pencil graphite electrode. In CARBOHYDRATE RESEARCH. ISSN 0008-6215,

- 2019, vol. 483, no., pp., Registrované v: WOS
23. [1.1] SHI, Xiujuan - LU, Juxiu - YIN, Hongzong - QIAO, Xuguang - XU, Zhixiang. A Biomimetic Sensor with Signal Enhancement of Ferriferrous Oxide-Reduced Graphene Oxide Nanocomposites for Ultratrace Levels Quantification of Methamidophos or Omethoate in Vegetables. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2017, vol. 10, no. 4, pp. 910-920., Registrované v: WOS
24. [1.1] SRIVASTAVA, Anup K. - DEV, Atul - KARMAKAR, Surajit. Nanosensors for Food and Agriculture. In NANOSCIENCE IN FOOD AND AGRICULTURE 5. ISSN 2210-4410, 2017, vol. 26, no., pp. 41-79., Registrované v: WOS
25. [1.1] SRIVASTAVA, Anup K. - DEV, Atul - KARMAKAR, Surajit. Nanosensors and nanobiosensors in food and agriculture. In ENVIRONMENTAL CHEMISTRY LETTERS. ISSN 1610-3653, 2018, vol. 16, no. 1, pp. 161-182., Registrované v: WOS
26. [1.1] TALARICO, Daria - ARDUINI, Fabiana - AMINE, Aziz - CACCIOTTI, Ilaria - MOSCONE, Danila - PALLESCHI, Giuseppe. Screen-printed electrode modified with carbon black and chitosan: a novel platform for acetylcholinesterase biosensor development. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2016, vol. 408, no. 26, pp. 7299-7309., Registrované v: WOS
27. [1.1] VEKSHA, Andrei - MOO, James Guo Sheng - KRIKSTOLAITYTE, Vida - OH, Wen-Da - UDAYANGA, W. D. Chanaka - GIANNIS, Apostolos - LISAK, Grzegorz. Synthesis of CaCr_2O_4 /carbon nanoplatelets from non-condensable pyrolysis gas of plastics for oxygen reduction reaction and charge storage. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 849, no., pp., Registrované v: WOS
28. [1.1] WAYU, Mulugeta B. - PANNELL, Michael J. - LABBAN, Najwa - CASE, William S. - POLLOCK, Julie A. - LEOPOLD, Michael C. Functionalized carbon nanotube adsorption interfaces for electron transfer studies of galactose oxidase. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2019, vol. 125, no., pp. 116-126., Registrované v: WOS
29. [1.1] XIE, Jia - CHEN, Chao - ZHOU, Yuanqing - FEI, Junjie - DING, Yonglan - ZHAO, Jia. A Galactose Oxidase Biosensor Based on Graphene Composite Film for the Determination of Galactose and Dihydroxyacetone. In ELECTROANALYSIS. ISSN 1040-0397, 2016, vol. 28, no. 1, pp. 183-188., Registrované v: WOS
30. [1.1] XU, Jing-Jing - AN, Mingrui - YANG, Rui - TAN, Zhijing - HAO, Jie - CAO, Jun - PENG, Li-Qing - CAO, Wan. Determination of Tetracycline Antibiotic Residues in Honey and Milk by Miniaturized Solid Phase Extraction Using Chitosan-Modified Graphitized Multiwalled Carbon Nanotubes. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2016, vol. 64, no. 12, pp. 2647-2654., Registrované v: WOS
31. [1.1] YIN, Zuo - ZHI, Jinfang. A photoelectrochemical biosensor based on the direct electron transfer to galactose oxidase. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2020, vol. 397, no., pp. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2020.112560>., Registrované v: WOS
32. [1.2] CRESCITELLI, Alessio - CONSALES, Marco - CUTOLO,

- Antonello - GIORDANO, Michele - CUSANO, Andrea. Multifunctional fiber-optic nanosensors for environmental monitoring. In *Optochemical Nanosensors*, 2016-04-19, pp. 513-548., Registrované v: SCOPUS
33. [1.2] PISCO, M. - CONSALES, M. - CUTOLO, A. - CUSANO, A. Microstructured optical fiber filled with carbon nanotubes. In *Optofluidics, Sensors and Actuators in Microstructured Optical Fibers*, 2015-05-20, pp. 85-109., Registrované v: SCOPUS
34. [1.2] SIMATE, Geoffrey S. Biodegradable polymer-carbon nanotube composites for water and wastewater treatments. In *Handbook of Composites from Renewable Materials*, 2017-01-01, 1-8, pp. 15-33., Registrované v: SCOPUS
35. [1.2] TEKADE, Muktika - MAHESHWARI, Neha - YOUNGREN-ORTIZ, Susanne R. - PANDEY, Vikas - CHOURASIYA, Yashu - SONI, Vandana - DEB, Pran Kishore - SHARMA, Mukesh Chandra. Thiolated-Chitosan: A Novel Mucoadhesive Polymer for Better-Targeted Drug Delivery. In *Biomaterials and Bionanotechnology*, 2019-05-29, pp. 459-493., Registrované v: SCOPUS
36. [1.2] WANG, Kang. Enzyme immobilization on chitosan-based supports. In *Chitosan-Based Hydrogels: Functions and Applications*, 2016-04-19, pp. 339-406., Registrované v: SCOPUS

ADCA1343 TOKIWA, Takaki - NAKANO, Shogo** - YAMAMOTO, Yuta - ISHIKAWA, Takeshi - ITO, Sohei - SLÁDEK, Vladimír - FUKUZAWA, Kaori - MOCHIZUKI, Yuji - TOKIWA, Hiroaki** - MISAIZU, Fuminori - SHIGETA, Yasuteru**. Development of an analysis toolkit, analysisFMO, to visualize interaction energies generated by fragment molecular orbital calculations. In *Journal of Chemical Information and Modeling*, 2019, vol. 59, p. 25-30. (2018: 3.966 - IF, Q1 - JCR, 1.446 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 1549-9596. Dostupné na: <https://doi.org/10.1021/acs.jcim.8b00649>
Ohlasy:

1. [1.1] BOONYASUPPAYAKORN, Siwaporn - SAELEE, Thanaphon - VISITCHANAKUN, Peerapat - LEELAHAVANICHKUL, Asada - HENGPHASATPORN, Kowit - SHIGETA, Yasuteru - HUYNH, Thao Nguyen Thanh - CHU, Justin Jang Hann - RUNGROTMONGKOL, Thanyada - CHAVASIRI, Warinthorn. Dibromopinocembrin and Dibromopinostrobin Are Potential Anti-Dengue Leads with Mild Animal Toxicity. In *MOLECULES*, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184154>., Registrované v: WOS
2. [1.1] FEDOROV, Dmitri G. Three-Body Energy Decomposition Analysis Based on the Fragment Molecular Orbital Method. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4956-4971. Dostupné na: <https://doi.org/10.1021/acs.jpca.0c03085>., Registrované v: WOS
3. [1.1] HEIFETZ, Alexander - JAMES, Tim - SOUTHEY, Michelle - MORAO, Inaki - ALDEGHI, Matteo - SARRAT, Laurie - FEDOROV, Dmitri G. - BODKIN, Mike J. - TOWNSEND-NICHOLSON, Andrea. Characterising GPCR-ligand interactions using a fragment molecular orbital-based approach. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2019, vol. 55, no., pp. 85-92., Registrované v: WOS
4. [1.1] NAKLIANG, Pratanphorn - LAZIM, Raudah - CHANG,

Hyerim - CHOI, Sun. Multiscale Molecular Modeling in G Protein-Coupled Receptor (GPCR)-Ligand Studies. In *BIOMOLECULES*, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/biom10040631>., Registrované v: WOS 5. [1.1] TOWNSEND-NICHOLSON, Andrea - ALTWAIJRY, Nojood - POTTERTON, Andrew - MORAO, Inaki - HEIFETZ, Alexander. Computational prediction of GPCR oligomerization. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2019, vol. 55, no., pp. 178-184., Registrované v: WOS 6. [1.1] ZHANG, Baohua - MA, Yingjin - JIN, Xinsheng - WANG, Ying - SUO, Bingbing - HE, Xiao - JIN, Zhong. GridMol2.0: Implementation and application of linear-scale quantum mechanics methods and molecular visualization. In *INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY*. ISSN 0020-7608, 2020, vol. 120, no. 23, pp. Dostupné na: <https://doi.org/10.1002/qua.26402>., Registrované v: WOS

ADCA1344 TOMAN, Rudolf - KOHN, Rudolf - MALOVÍKOVÁ, Anna - ROSÍK, Jozef. Distribution of 4-O-methyl-D-glucuronic acid units in xylan of the bark of white willow (*Salix alba* L.). In *Collection of Czechoslovak Chemical Communications*, 1981, vol. 46, p. 1405-1412. ISSN 0010-0765.

Ohlasy:

1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

ADCA1345 TOMAN, Rudolf - KARÁCSONYI, Štefan - KOVÁČIK, Vladimír. Polysaccharides from the bark of the white willow (*Salix alba* L.): structure of a galactan. In *Carbohydrate Research*, 1972, vol. 25, p. 371-378. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)81647-X](https://doi.org/10.1016/S0008-6215(00)81647-X)

Ohlasy:

1. [1.2] HEMINGWAY, Richard W. Bark: Its chemistry and prospects for chemical utilization. In *Organic Chemicals from Biomass*, 2018-01-01, pp. 189-248., Registrované v: SCOPUS

ADCA1346 TOMAN, Rudolf - ROSÍK, Jozef - ALFOLDI, Juraj. Regioselective methylation of methyl α -L-fucopyranoside with diazomethane in the presence of tin(II) chloride. In *Carbohydrate Research*, 1986, vol. 158, p. 236-244. ISSN 0008-6215.

Ohlasy:

1. [1.1] DAMAGER, Iben - OLSEN, Carl Erik - EGELUND, Jack - JORGENSEN, Bodil - PETERSEN, Bent Larsen - ULVSKOV, Peter - MOLLER, Birger Lindberg - MOTAWIA, Mohammed Saddik. Chemical Synthesis of L-Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2017, vol. 2, no. 3, pp. 997-1007., Registrované v: WOS 2. [1.1] LAWANDI, Janice - ROCHELEAU, Sylvain - MOITESSIER, Nicolas. Regioselective acylation, alkylation, silylation and glycosylation of monosaccharides. In *TETRAHEDRON*. ISSN 0040-4020, 2016, vol. 72, no. 41, pp. 6283-6319., Registrované v: WOS

ADCA1347 TOMAN, Rudolf - KARÁCSONYI ŠTEFAN, Štefan - KUBAČKOVÁ, Marta. Studies on the pectin present in the bark of white willow (*Salix alba* L.). Structure of three acidic and two neutral oligosaccharides obtained by partial acid hydrolysis. In *Cellulose Chemistry and Technology*, 1976, vol. 10, p. 561-565. ISSN 0576-9787.

Ohlasy:

1. [1.2] SONG, Woo Yong - HAN, Sim Hee - SHIN, Soo Jeong. Studies on chemical composition and calorimetric value of four populus enuramericana clones in reclaimed land for short rotation coppice production. In *Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry*. ISSN 02533200, 2016-12-01, 48, 6, pp. 137-143., Registrované v: SCOPUS

ADCA1348 TOMAN, Rudolf - KARÁCSONYI, Š. - KUBAČKOVÁ, Marta. Studies on the pectin present in the bark of white willow (*Salix alba* L.): Fractionation and acidic depolymerization of the water-soluble pectin. In *Carbohydrate Research*, 1975, vol. 43, p. 111-116. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)83977-4](https://doi.org/10.1016/S0008-6215(00)83977-4)

Ohlasy:

1. [1.1] SALGADO-FLORES, Alejandro - TVEIT, Alexander T. - WRIGHT, Andre-Denis - POPE, Phil B. - SUNDSET, Monica A. Characterization of the cecum microbiome from wild and captive rock ptarmigans indigenous to Arctic Norway. In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 3, pp., Registrované v: WOS

ADCA1349 TOMANOVÁ, Vladimíra - SROKOVÁ, Iva - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta. Surface-active and associative properties of ionic polymeric surfactants based on carboxymethylcellulose. In *Polymer Engineering and Science*, 2011, vol. 51, p. 1476-1483. (2010: 1.296 - IF, Q2 - JCR, 0.765 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0032-3888. Dostupné na: <https://doi.org/10.1002/pen.22014>

Ohlasy:

1. [1.1] HE, Xin - GONG, Xuechen - LI, Wenfeng - CAO, Wenling - YAN, Jianghao - GUO, Ruijie - NIU, Baolong - JIA, Lan. Preparation and Characterization of Amphiphilic Composites Made with Double-Modified (Etherified and Esterified) Potato Starches. In *STARCH-STARKE*. ISSN 0038-9056, 2019, vol. 71, no. 9-10, pp., Registrované v: WOS

2. [1.1] YAN, Xinyan - ZHAI, Zhaolan - SONG, Zhanqian - SHANG, Shibin - RAO, Xiaoping. Synthesis of comb-like polymeric surfactants with a tricyclic rigid core and their use as dispersants in pymetrozine water suspension concentrates. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 88, pp. 55741-55747., Registrované v: WOS

3. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. Ultrasound assisted extraction of polysaccharides from hazelnut skin. In *FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL*. ISSN 1082-0132, 2016, vol. 22, no. 2, pp. 112-121., Registrované v: WOS

4. [1.1] ZHANG, Buyao - YU, Gaobo - LI, Jiacheng - LIU, Yuanyuan - ZHOU, Yang - LI, Yafei - FANG, Xiuqin - JIANG, Yue. Optimization of extraction technology of poly-mannuronic acid to a green delivery system for the water-insoluble pesticide, lambda-Cyhalothrin. In *INTERNATIONAL*

JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020,
vol. 153, no., pp. 17-25. Dostupné na:
<https://doi.org/10.1016/j.ijbiomac.2020.02.228>., Registrované v: WOS

- ADCA1350 TOMANOVÁ, V. - PIELICHOWSKI, K. - SROKOVÁ, I. - ŽOLDAKOVÁ, A. - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna.
Microwave-assisted synthesis of carboxymethylcellulose-based polymeric surfactants. In *Polymer Bulletin*, 2008, vol. 60, p. 15-25. (2007: 1.022 - IF, Q3 - JCR, 0.548 - SJR, Q1 - SJR). ISSN 0170-0839. Dostupné na:
<https://doi.org/10.1007/s00289-007-0834-1>
Ohlasy:
1. [1.1] HUANG, Xujuan - LIU, He - SHANG, Shibin - RAO, Xiaoping - SONG, Jie. Preparation and Characterization of Polymeric Surfactants Based on Epoxidized Soybean Oil Grafted Hydroxyethyl Cellulose. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2015, vol. 63, no. 41, pp. 9062-9068., Registrované v: WOS
 2. [1.1] IQBAL, D. Najaf - HUSSAIN, E. Akbar - SOOMRO, G. Afshan - RIZVI, H. - IQBAL, M. - NAZIR, A. Microwave-assisted green synthesis of guar gum esters with enhanced physicochemical properties. In *SCIENTIA IRANICA*. ISSN 1026-3098, 2019, vol. 26, no. 3, pp. 1474-1484., Registrované v: WOS
 3. [1.1] MISHRA, Anuradha - VATS, Tanvi - CLARK, James H. Polymer Modifications. In *MICROWAVE-ASSISTED POLYMERIZATION*. ISSN 1757-7039, 2016, vol., no. 35, pp. 171-191., Registrované v: WOS
 4. [1.1] PARMAR, Kaushal R. - DORA, D. T. K. - PANT, K. K. - ROY, S. An ultra-light flexible aerogel-based on methane derived CNTs as a reinforcing agent in silica-CMC matrix for efficient oil adsorption. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2019, vol. 375, no., pp. 206-215., Registrované v: WOS
 5. [1.1] RAFFA, Patrizio - WEVER, Diego Armando Zakarias - PICCHIONI, Francesco - BROEKHUIS, Antonius A. Polymeric Surfactants: Synthesis, Properties, and Links to Applications. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 16, pp. 8504-8563., Registrované v: WOS
 6. [1.2] ENGLERT, Christoph - SCHWENKE, Almut M. - HOEPPENER, Stephanie - WEBER, Christine - SCHUBERT, Ulrich S. Microwave-assisted polymer modifications. In *Advances in Polymer Science*. ISSN 00653195, 2016-01-01, 274, pp. 209-240., Registrované v: SCOPUS

- ADCA1351 TOMÁŠKA, M. - GEMEINER, Peter - MATERLÍN, I. - ŠTURDÍK, E. - HANDRÍKOVÁ, G. Calcium pectate gel beads for cell entrapment: A study on the stability of *Kluyveromyces marxianus* whole-cell lactase entrapped in hardened calcium pectate and calcium alginate gel beads. In *Biotechnology and Applied Biochemistry*, 1995, vol. 21, p. 347-356. (1995 - Current Contents). ISSN 0885-4513.

Ohlasy:

1. [1.1] SIMO, Guillermo - FERNANDEZ-FERNANDEZ, Encarnacion - VILA-CRESPO, Josefina - RUIPEREZ, Violeta - MANUEL RODRIGUEZ-NOGALES, Jose. Research progress in coating techniques of alginate gel polymer for cell encapsulation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 170, no., pp. 1-14., Registrované v: WOS

ADCA1352 TOMÁŠKA, M. - STREDŇANSKÝ, M. - GEMEINER, Peter - ŠTURDÍK, E. Improvement of the thermostability of beta-galactosidase from *Kluyveromyces marxianus*. In *Process Biochemistry*, 1995, vol. 30, p. 649-652. ISSN 1359-5113. Dostupné na: [https://doi.org/10.1016/0032-9592\(94\)00056-5](https://doi.org/10.1016/0032-9592(94)00056-5)
Ohlasy:
1. [1.1] KARIM, Ahasanul - GERLIANI, Natela - AIDER, Mohammed. *Kluyveromyces marxianus*: An emerging yeast cell factory for applications in food and biotechnology. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2020, vol. 333, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijfoodmicro.2020.108818>., Registrované v: WOS

ADCA1353 TOMKO, Jozef - BAUER, Štefan. Alkaloids from *Veratrum album* subsp. *lobelianum* (BERNH.) Suessenguth. VIII. The structure of verarine. In *Collection of Czechoslovak Chemical Communications*, 1964, vol. 29, . p.2570-2574. ISSN 0010-0765.

Ohlasy:
1. [1.1] GAO, Lijuan - CHEN, Fengyang - LI, Xiaoyu - XU, Shifang - HUANG, Wenhai - YE, Yiping. Three new alkaloids from *Veratrum grandiflorum* Loes with inhibition activities on Hedgehog pathway. In *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*. ISSN 0960-894X, 2016, vol. 26, no. 19, pp. 4735-4738., Registrované v: WOS

ADCA1354 TOMKO, J. - BAUEROVÁ, O. - VOTICKÝ, Zdeno - GOUTAREL, R. - LONGEVIALLE, P. Alkaloids of *buxus sempervirens* L. - VI - structure of buxpsiine. In *Tetrahedron Letters*, 1966, vol. 7, p. 915-919. ISSN 0040-4039. Dostupné na: [https://doi.org/10.1016/S0040-4039\(00\)76250-2](https://doi.org/10.1016/S0040-4039(00)76250-2)

Ohlasy:
1. [1.2] DEV, Sukh - NAGASAMPAGI, Bhimsen A. CRC handbook of terpenoids: Triterpenoids volume I: Acyclic, monocyclic, bicyclic, tricyclic, and tetracyclic terpenoids. In *CRC Handbook of Terpenoids Triterpenoids Volume I: Acyclic, Monocyclic, Bicyclic, Tricyclic, and Tetracyclic Terpenoids*, 2018-01-01, pp. 1-573., Registrované v: SCOPUS

ADCA1355 TOPAKAS, E. - KYRIAKOPOULOS, S. - BIELY, Peter - HIRSCH, Ján - VAFIADI, C. - CHRISTAKOPOULOS, P. Carbohydrate esterases of family 2 are 6-O-deacetylases. In *FEBS Letters*, 2010, vol. 584, p. 543-548. (2009: 3.541 - IF, Q2 - JCR, 2.170 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2009.11.095>

Ohlasy:
1. [1.1] GARDNER, Jeffrey G. Polysaccharide degradation systems of the saprophytic bacterium *Cellvibrio japonicus*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2016, vol. 32, no. 7, pp., Registrované v: WOS
2. [1.1] IRIBARREN, Adolfo M. - IGLESIAS, Luis E. An update of biocatalytic selective acylation and deacylation of monosaccharides. In *RSC ADVANCES*. ISSN 2046-2069, 2016, vol. 6, no. 20, pp. 16358-16386., Registrované v: WOS
3. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of

white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS

4. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

5. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>., Registrované v: WOS

6. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

7. [1.1] UECHI, Keiko - KAMACHI, Saori - AKITA, Hironaga - MINE, Shouhei - WATANABE, Masahiro. Crystal structure of an acetyl esterase complexed with acetate ion provides insights into the catalytic mechanism. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2016, vol. 477, no. 3, pp. 383-387., Registrované v: WOS

8. [1.1] WATANABE, Masahiro - FUKADA, Harumi - INOUE, Hiroyuki - ISHIKAWA, Kazuhiko. Crystal structure of an acetylcysteine lyase from Talaromyces cellulolyticus and the importance of a disulfide bond near the active site. In FEBS LETTERS. ISSN 0014-5793, 2015, vol. 589, no. 11, pp. 1200-1206., Registrované v: WOS

ADCA1356 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - KEKOS, D. - MACRIS, B.J. Purification and characterization of a feruloyl esterase from Fusarium oxysporum catalyzing esterification of phenolic acids in ternary water-organic solvent mixtures. In *Journal of Biotechnology*, 2003, vol. 102, p. 33-44. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(02\)00363-2](https://doi.org/10.1016/S0168-1656(02)00363-2)

Ohlasy:

1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS

2. [1.1] BEZBRADICA, Dejan - COROVIC, Marija - TANASKOVIC, Sonja J. - LUKOVIC, Nevena - CAREVIC, Milica - MILIVOJEVIC, Ana - KNEZEVIC-JUGOVIC, Zorica. Enzymatic Syntheses of Esters Green Chemistry for Valuable Food, Fuel and Fine Chemicals. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2017, vol. 21, no. 2, pp. 104-138., Registrované

v: WOS

3. [1.1] CAO, Li-chuang - CHEN, Ran - XIE, Wei - LIU, Yu-huan.
Enhancing the Thermostability of Feruloyl Esterase EstF27 by Directed Evolution and the Underlying Structural Basis. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 37, pp. 8225-8233., Registrované v: WOS
4. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - AGUILAR-PONTES, Maria Victoria - BENOIT-GELBER, Isabelle - HILDEN, Kristiina S. - DE VRIES, Ronald P. Diversity of fungal feruloyl esterases: updated phylogenetic classification, properties, and industrial applications. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
5. [1.1] GARCIA-CALVO, L. - ULLAN, R. V. - FERNANDEZ-AGUADO, M. - GARCIA-LINO, A. M. - BALANA-FOUCE, R. - BARREIRO, C. Secreted protein extract analyses present the plant pathogen *Alternaria alternata* as a suitable industrial enzyme toolbox. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2018, vol. 177, no., pp. 48-64., Registrované v: WOS
6. [1.1] GOPALAN, Nishant - NAMPOOTHIRI, Kesavan Madhavan - SZAKACS, George - PARAMESWARAN, Binod - PANDEY, Ashok. Solid-state fermentation for the production of biomass valorizing feruloyl esterase. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 7, no., pp. 7-13., Registrované v: WOS
7. [1.1] GRAJALES, Daniel A. - CARLOS MATEOS, Juan - LOPEZ GALLEGO, Fernando. Immobilization of feruloyl esterases Novel heterogeneous biocatalysts towards bioeconomy. In CHIMICA OGGI-CHEMISTRY TODAY. ISSN 0392-839X, 2018, vol. 36, no. 3, pp. 55-58., Registrované v: WOS
8. [1.1] GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ, Mariana - VELASCO-LOZANO, Susana - LOPEZ-GALLEGO, Fernando - MATEOS-DIAZ, Juan Carlos. Chitosan-based CLEAs from *Aspergillus niger* type A feruloyl esterase: high-productivity biocatalyst for alkyl ferulate synthesis. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 23, pp. 10033-10045. Dostupné na: <https://doi.org/10.1007/s00253-020-10907-2>., Registrované v: WOS
9. [1.1] GRAJALES-HERNANDEZ, Daniel A. - VELASCO-LOZANO, Susana - ARMENDARIZ-RUIZ, Mariana A. - RODRIGUEZ-GONZALEZ, Jorge A. - MARIA CAMACHO-RUIZ, Rosa - ASAFF-TORRES, Ali - LOPEZ-GALLEGO, Fernando - CARLOS MATEOS-DIAZ, Juan. Carrier-bound and carrier-free immobilization of type A feruloyl esterase from *Aspergillus niger*: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2020, vol. 316, no., pp. 6-16. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.04.004>., Registrované v: WOS
10. [1.1] CHI, D. H. - GIAP, V. D. - ANH, L. P. H. - NGHI, D. H. Feruloyl Esterase from *Alternaria tenuissima* that Hydrolyses Lignocellulosic Material to Release Hydroxycinnamic Acids. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 654-660., Registrované v: WOS
11. [1.1] LECLERCQ, Loic - DOUYERE, Gregory - NARDELLO-RATAJ, Veronique. Supramolecular Chemistry and

- Self-Organization: A Veritable Playground for Catalysis. In CATALYSTS. ISSN 2073-4344, 2019, vol. 9, no. 2, pp., Registrované v: WOS
12. [1.1] LI, Zhen - LIU, Xianwei - LIAN, Yiwei - XIE, Juan - GAO, Xiaorui - CHANG, Tao. The percolation mechanism of surfactant-free microemulsions witnessed by the conductivity measurement. In WORLD JOURNAL OF ENGINEERING. ISSN 1708-5284, 2016, vol. 13, no. 2, pp. 142-148., Registrované v: WOS
13. [1.1] NIETER, Annabel - HAASE-ASCHOFF, Paul - KELLE, Sebastian - LINKE, Diana - KRINGS, Ulrich - POPPER, Lutz - BERGER, Ralf G. A Chlorogenic Acid Esterase with a Unique Substrate Specificity from *Ustilago maydis*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 5, pp. 1679-1688., Registrované v: WOS
14. [1.1] NIETER, Annabel - KELLE, Sebastian - LINKE, Diana - BERGER, Ralf G. Feruloyl esterases from *Schizophyllum commune* to treat food industry side-streams. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2016, vol. 220, no., pp. 38-46., Registrované v: WOS
15. [1.1] OLIVEIRA, Dyonis M. - MOTA, Thatiane R. - OLIVA, Bianca - SEGATO, Fernando - MARCHIOSI, Rogerio - FERRARESE-FILHO, Osvaldo - FAULDS, Craig B. - DOS SANTOS, Wanderley D. Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 278, no., pp. 408-423., Registrované v: WOS
16. [1.1] ROMERO-BORBON, Evelyn - GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ, Mariana - RAMIREZ-VELASCO, Lorena - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - ALBERTO CIRA-CHAVEZ, Luis - ISABEL ESTRADA-ALVARADO, Maria - CARLOS MATEOS-DIAZ, Juan. Type C feruloyl esterase from *Aspergillus ochraceus*: A butanol specific biocatalyst for the synthesis of hydroxycinnamates in a ternary solvent system. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 35, no., pp. 1-9., Registrované v: WOS
17. [1.1] SURABHI, Singh - KUMAR, Nigam Vinod - ASHISH, Sachan. Purification and characterization of an extracellular ferulic acid esterase from *Bacillus safensis* SS3006. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2020, vol. 15, no. 12, pp. 1-10., Registrované v: WOS
18. [1.1] TAMAYO-CABEZAS, Juan - KARBOUNE, Salwa. Immobilized feruloyl esterase from *Humicola insolens* catalyzes the synthesis of feruloylated oligosaccharides. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2019, vol. 79, no., pp. 81-90., Registrované v: WOS
19. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Lihao - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48., Registrované v: WOS
20. [1.1] ZAGO, Erika - DURAND, Erwann - BAROUH, Nathalie - LECOMTE, Jerome - VILLENEUVE, Pierre - AOUF, Chahinez. Synthesis of Lipophilic Antioxidants by a Lipase-B-Catalyzed Addition of Peracids to the Double Bond of 4-Vinyl-2-methoxyphenol. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2015, vol. 63, no. 41, pp. 9069-9075., Registrované v: WOS

21. [1.2] FIGUEROA-ESPINOZA, Maria Cruz - BOURLIEU, Claire - DURAND, Erwann - LECOMTE, Jérôme - VILLENEUVE, Pierre. Lipophilized antioxidants. In Encyclopedia of Food Chemistry, 2018-01-01, pp. 193-201., Registrované v: SCOPUS
22. [3.2] SIRILUN, S.; CHAIYASUT, Ch.; PENGKUMSRI, N.; PELYUNTHA, W.; PEERAJAN, S.; SIVAMARUTHI, B. S. Production of Ferulic acid from Oryzanol Degradation during the Fermentation of Black Rice Bran by Ferulic acid esterase producing *Aspergillus oryzae* HP. IN Journal of Pure and Applied Microbiology, 2015, vol. 9, iss. Sp. iss. SI, p. 513-520., Registrované v: BIOSIS Citation Index

ADCA1357 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - CHRISTAKOPOULOS, P. Purification and characterization of a type B feruloyl esterase (StF AE-A) from the thermophilic fungus *Sporotrichum thermophile*. In *Applied Microbiology and Biotechnology*, 2004, vol. 63, p. 686-690. ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-003-1481-6>

Ohlasy:

1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
2. [1.1] DAHIYA, Seema - SINGH, Bijender. Enhanced endoxylanase production by *Myceliophthora thermophila* with applicability in saccharification of agricultural substrates. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 6, pp., Registrované v: WOS
3. [1.1] GOPALAN, Nishant - RODRIGUEZ-DURAN, L. V. - SAUCEDO-CASTANEDA, G. - NAMPOOTHIRI, K. Madhavan. Review on technological and scientific aspects of feruloyl esterases: A versatile enzyme for biorefining of biomass. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2015, vol. 193, no., pp. 534-544., Registrované v: WOS
4. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS
5. [1.1] MENG, Zhen - YANG, Qin-Zheng - WANG, Jing-zhen - HOU, Yun-Hua. Cloning, Characterization, and Functional Expression of a Thermostable Type B Feruloyl Esterase from Thermophilic *Thielavia terrestris*. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2019, vol. 189, no. 4, pp. 1304-1317., Registrované v: WOS
6. [1.1] MILLAR, Robert - RAHMANPOUR, Rahman - YUAN, Eugenie Wei Jia - WHITE, Catharine - BUGG, Timothy D. H. Esterase EstK from *Pseudomonas putida* mt-2: An enantioselective acetylsterase with activity for deacetylation of xylan and poly(vinylacetate). In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2017, vol. 64, no. 6, pp. 803-809., Registrované v: WOS
7. [1.1] NIETER, Annabel - HAASE-ASCHOFF, Paul - KELLE, Sebastian - LINKE, Diana - KRINGS, Ulrich - POPPER, Lutz - BERGER, Ralf G. A Chlorogenic Acid Esterase with a Unique Substrate Specificity from

- Ustilago maydis. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2015, vol. 81, no. 5, pp. 1679-1688., Registrované v: WOS
8. [1.1] OLIVEIRA, Dyoni M. - MOTA, Thatiane R. - OLIVA, Bianca - SEGATO, Fernando - MARCHIOSI, Rogerio - FERRARESE-FILHO, Osvaldo - FAULDS, Craig B. - DOS SANTOS, Wanderley D. Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 278, no., pp. 408-423., Registrované v: WOS
9. [1.1] SINGH, Bijender. Myceliophthora thermophila syn. Sporotrichum thermophile: a thermophilic mould of biotechnological potential. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 1, pp. 59-69., Registrované v: WOS
10. [1.1] WANG, Li - LI, Zhuang - ZHU, Mengjuan - MENG, Li - WANG, Hexiang - NG, Tzi Bun. An acidic feruloyl esterase from the mushroom Lactarius hatsudake: A potential animal feed supplement. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 290-295., Registrované v: WOS
11. [1.1] WANG, Ruonan - YANG, Jinshui - JANG, Jin Myong - LIU, Jiawen - ZHANG, Yu - LIU, Liang - YUAN, Hongli. Efficient ferulic acid and xylo-oligosaccharides production by a novel multi-modular bifunctional xylanase/feruloyl esterase using agricultural residues as substrates. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122487>., Registrované v: WOS
12. [1.1] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. Cloning, expression and characterization of a new feruloyl esterases from the Lactobacillus Johnsonii strain. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS
13. [1.2] GAO, Le - WANG, Min - CHEN, Shulin - ZHANG, Dongyuan. Biochemical characterization of a novel feruloyl esterase from Penicillium piceum and its application in biomass bioconversion. In Journal of Molecular Catalysis B: Enzymatic. ISSN 13811177, 2016-11-10, 133, pp. S388-S394., Registrované v: SCOPUS

ADCA1358 TOPAKAS, E. - STAMATIS, H. - MASTIHUBOVÁ, Mária - BIELY, Peter - KEKOS, D. - MACRIS, B.J. - CHRISTAKOPOULOS, P. Purification and characterization of a Fusarium oxysporum feruloyl esterase (FoFAE-I) catalysing transesterification of phenolic acid esters. In *Enzyme and Microbial Technology*, 2003, vol. 33, p. 729-737. (2003 - Current Contents). ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(03\)00213-8](https://doi.org/10.1016/S0141-0229(03)00213-8)

Ohlasy:

1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
2. [1.1] BEZBRADICA, Dejan - COROVIC, Marija - TANASKOVIC, Sonja J. - LUKOVIC, Nevena - CAREVIC, Milica - MILIVOJEVIC, Ana - KNEZEVIC-JUGOVIC, Zorica. Enzymatic Syntheses of Esters Green Chemistry

for Valuable Food, Fuel and Fine Chemicals. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2017, vol. 21, no. 2, pp. 104-138., Registrované v: WOS

3. [1.1] DE O BUANAFINA, Marcia M. - FERNANDA BUANAFINA, M. - LAREMORE, Tatiana - SHEARER, Erica A. - FESCEMYER, Howard W. Characterization of feruloyl esterases in maize pollen. In PLANTA. ISSN 0032-0935, 2019, vol. 250, no. 6, pp. 2063-2082., Registrované v: WOS

4. [1.1] DOTSENKO, Gleb - TONG, Xiaoxue - PILGAARD, Bo - BUSK, Peter Kamp - LANGE, Lene. Acidic-alkaline ferulic acid esterase from *Chaetomium thermophilum* var. *dissitum*: Molecular cloning and characterization of recombinant enzyme expressed in *Pichia pastoris*. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2016, vol. 5, no., pp. 48-55., Registrované v: WOS

5. [1.1] MAYELA RAMOS-DE-LA-PENA, Ana - CARLOS CONTRERAS-ESQUIVEL, Juan. Methods and substrates for feruloyl esterase activity detection; a review. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. ISSN 1381-1177, 2016, vol. 130, no., pp. 74-87., Registrované v: WOS

6. [1.1] OCHIENO, Dennis M. W. Towards consensus on the transfer of *Fusarium oxysporum* V5w2-enhanced tissue culture banana technology to farmers through public-private partnerships in East Africa. In SCIENTIFIC AFRICAN. ISSN 2468-2276, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.1016/j.sciaf.2020.e00605>., Registrované v: WOS

7. [1.1] PHUENGMAUNG, Pornpimol - SUNAGAWA, Yoichi - MAKINO, Yosuke - KUSUMOTO, Takafumi - HANDA, Satoshi - SUKHUMSIRICHART, Wasana - SAKAMOTO, Tatsuji. Identification and characterization of ferulic acid esterase from *Penicillium chrysogenum* 31B: de-esterification of ferulic acid decorated with L-arabinofuranoses and D-galactopyranoses in sugar beet pectin. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 131, no., pp., Registrované v: WOS

8. [1.1] ROMERO-BORBON, Evelyn - GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ, Mariana - RAMIREZ-VELASCO, Lorena - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - ALBERTO CIRA-CHAVEZ, Luis - ISABEL ESTRADA-ALVARADO, Maria - CARLOS MATEOS-DIAZ, Juan. Type C feruloyl esterase from *Aspergillus ochraceus*: A butanol specific biocatalyst for the synthesis of hydroxycinnamates in a ternary solvent system. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 35, no., pp. 1-9., Registrované v: WOS

9. [1.1] SUZUKI, Nobukazu - ITO, Toshihiko - HIROSHIMA, Kai - TOKIWANO, Tetsuo - HASHIZUME, Katsumi. Formation of ethyl ferulate from feruloylated oligosaccharide by transesterification of rice koji enzyme under sake mash conditions. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2016, vol. 121, no. 3, pp. 281-285., Registrované v: WOS

10. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Lihao - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48.,

Registrované v: WOS

11. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

12. [1.2] GAO, Le - WANG, Min - CHEN, Shulin - ZHANG, Dongyuan. Biochemical characterization of a novel feruloyl esterase from *Penicillium piceum* and its application in biomass bioconversion. In Journal of Molecular Catalysis B: Enzymatic. ISSN 13811177, 2016-11-10, 133, pp. S388-S394., Registrované v: SCOPUS

13. [3.2] SIRILUN, S.; CHAIYASUT, Ch.; PENGKUMSRI, N.; PELYUTHA, W.; PEERAJAN, S.; SIVAMARUTHI, B. S. Production of Ferulic acid from Oryzanol Degradation during the Fermentation of Black Rice Bran by Ferulic acid esterase producing *Aspergillus oryzae* HP. IN Journal of Pure and Applied Microbiology, 2015, vol. 9, iss. Sp. iss. SI, p. 513-520., Registrované v: BIOSIS Citation Index

ADCA1359 TRNKA, Tomáš - TVAROŠKA, Igor - KOČA, Jaroslav**. Automated training of reaxFF reactive force fields for energetics of enzymatic reactions. In *Journal of Chemical Theory and Computation*, 2018, vol. 14, p. 291-302. (2017: 5.399 - IF, Q1 - JCR, 2.497 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.7b00870>

Ohlasy:

1. [1.1] DULONG, Clement - MADEBENE, Bruno - MONTI, Susanna - RICHARDI, Johannes. Optimization of a New Reactive Force Field for Silver-Based Materials. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2020, vol. 16, no. 11, pp. 7089-7099. Dostupné na: <https://doi.org/10.1021/acs.jctc.0c00480>., Registrované v: WOS

2. [1.1] FURMAN, David - WALES, David J. Transforming the Accuracy and Numerical Stability of ReaxFF Reactive Force Fields. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS. ISSN 1948-7185, 2019, vol. 10, no. 22, pp. 7215-7223., Registrované v: WOS

3. [1.1] HAO, Huali - CHOW, Cheuk Lun - LAU, Denvid. Carbon monoxide release mechanism in cellulose combustion using reactive forcefield. In FUEL. ISSN 0016-2361, 2020, vol. 269, no., pp. Dostupné na: <https://doi.org/10.1016/j.fuel.2020.117422>., Registrované v: WOS

4. [1.1] MUELLER, Tim - HERNANDEZ, Alberto - WANG, Chuhong. Machine learning for interatomic potential models. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2020, vol. 152, no. 5, pp. Dostupné na: <https://doi.org/10.1063/1.5126336>., Registrované v: WOS

5. [1.1] RAHNAMEH, Ali - KAYMAK, Mehmet Cagri - MANATHUNGA, Madushanka - GOTZ, Andreas W. - VAN DUIN, Adri C. T. - MERZ, Kenneth M. - AKTULGA, Hasan Metin. ReaxFF/AMBER-A Framework for Hybrid Reactive/Nonreactive Force Field Molecular Dynamics Simulations. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2020, vol. 16, no. 12, pp. 7645-7654. Dostupné na: <https://doi.org/10.1021/acs.jctc.0c00874>., Registrované v: WOS

6. [1.1] SHUTTLEWORTH, Ian Gregory. Efficient methods of X-ray diffraction pattern inversion. In RESULTS IN PHYSICS. ISSN 2211-3797,

2019, vol. 15, no., pp., Registrované v: WOS

7. [1.1] SOTRIFTER, Christoph. Docking of Covalent Ligands: Challenges and Approaches. In MOLECULAR INFORMATICS. ISSN 1868-1743, 2018, vol. 37, no. 9-10, pp., Registrované v: WOS

ADCA1360 TRNOVEC, T. - ŠIKL, Dobroslav - ZEMÁNEK, M. - FÁBEROVÁ, V. - BEZEK, Š. - GAJDOŠÍK, A. - KOPRDA, V. The distribution in mice of intra venously administered labeled *Candida albicans*. In *Medical Mycology*, 1978, vol. 16, p. 299-306. ISSN 1369-3786.

Ohlasy:

1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida* adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA1361 TSIRIGOTIS-MANIECKA, Marta - PAWLACZYK-GRAJA, Izabela** - ZIEWIECKI, Rafal - BALICKI, Sebastian - MATULOVÁ, Mária - CAPEK, Peter - CZECHOWSKI, Franciszek - GANCARZ, Roman. The polyphenolic-polysaccharide complex of *Agrimonia L.* as an indirect thrombin inhibitor - isolation and chemical characterization. In *International Journal of Biological Macromolecules*, 2019, vol. 125, p. 124-132. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.12.017>

Ohlasy:

1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsipianthes chamaedrys* (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

2. [1.1] GARCIA-OLIVEIRA, P. - FRAGA-CORRAL, M. - PEREIRA, A. G. - LOURENCO-LOPES, C. - JIMENEZ-LOPEZ, C. - PRIETO, M. A. - SIMAL-GANDARA, J. Scientific basis for the industrialization of traditionally used plants of the Rosaceae family. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127197>., Registrované v: WOS

3. [1.1] PALUCH, Zoltan - BIRICZOVA, Lilla - PALLAG, Gergely - MARQUES, Emanuel Carneiro - VARGOVA, Natalia - KMONICKOVA, Eva. The Therapeutic Effects of *Agrimonia eupatoria L.* In PHYSIOLOGICAL RESEARCH. ISSN 0862-8408, 2020, vol. 69, no., pp. S555-S571. Dostupné na: <https://doi.org/10.33549/physiolres.934641>., Registrované v: WOS

4. [1.1] SPIRIDON, Iuliana. Extraction of lignin and therapeutic applications of lignin-derived compounds. A review. In ENVIRONMENTAL CHEMISTRY LETTERS. ISSN 1610-3653, 2020, vol. 18, no. 3, pp. 771-785. Dostupné na: <https://doi.org/10.1007/s10311-020-00981-3>., Registrované v: WOS

5. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM,

Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS

6. [1.1] ZHOU, Peng - FENG, Ru - LUO, Zhen - LI, Xiaoyu - WANG, Lu - GAO, Lili. Synthesis, identification and bioavailability of *Juglans regia* L. polyphenols-Hohenbuehelia serotina polysaccharides nanoparticles. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 329, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127158>., Registrované v: WOS

ADCA1362 TUOHY, M.G. - PULS, J. - CLAEYSSSENS, M. - VRŠANSKÁ, Mária - COUGHLAN, M.P. The xylan-degrading enzyme system of *Talaromyces emersonii* - novel enzymes with activity against aryl beta-D-xylosides and unsubstituted xylans. In *Biochemical Journal*, 1993, vol. 290, p. 515-523. (1993 - Current Contents). ISSN 0264-6021.

Ohlasy:

1. [1.1] AN, Jian-Lu - ZHANG, Wei-Xin - WU, Wei-Ping - CHEN, Guan-Jun - LIU, Wei-Feng. Characterization of a highly stable alpha-galactosidase from thermophilic *Rasamsonia emersonii* heterologously expressed in a modified *Pichia pastoris* expression system. In *MICROBIAL CELL FACTORIES*, 2019, vol. 18, no. 1, pp., Registrované v: WOS

2. [1.1] EL-GINDY, Ahmed Awad - SAAD, Rawia Ragab - FAWZI, Eman Mohammed. Purification of beta-xylosidase from *Aspergillus tamaris* using ground oats and a possible application on the fermented hydrolysate by *Pichia stipitis*. In *ANNALS OF MICROBIOLOGY*. ISSN 1590-4261, 2015, vol. 65, no. 2, pp. 965-974., Registrované v: WOS

3. [1.1] CHANWICHA, Nantawan - KATEKAEW, Somporn - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of alkaline xylanase from *Thermoascus aurantiacus* var. *levisporus* KGU-PN-I2-1 cultivated by solid-state fermentation. In *MYCOSCIENCE*. ISSN 1340-3540, 2015, vol. 56, no. 3, pp. 309-318., Registrované v: WOS

4. [1.1] JASIM, Raed Kadhim. ISOLATION AND MOLECULAR CHARACTERISATION XYLANASE PRODUCED BY *SPOROLACTOBACILLI*. In *BANATS JOURNAL OF BIOTECHNOLOGY*. ISSN 2068-4673, 2016, vol. 7, no. 14, pp. 30-37., Registrované v: WOS

5. [1.1] SINGH, Bijender - POCAS-FONSECA, Marcio J. - JOHRI, B. N. - SATYANARAYANA, Tulasi. Thermophilic molds: Biology and applications. In *CRITICAL REVIEWS IN MICROBIOLOGY*. ISSN 1040-841X, 2016, vol. 42, no. 6, pp. 985-1006., Registrované v: WOS

6. [1.1] TANAKA, Nobukiyo - NAKAJIMA, Masahiro - NARUKAWA-NARA, Megumi - MATSUNAGA, Hiroki - KAMISUKI, Shinji - ARAMASA, Hiroki - TAKAHASHI, Yuta - SUGIMOTO, Naohisa - ABE, Koichi - TERADA, Tohru - MIYANAGA, Akimasa - YAMASHITA, Tetsuro - SUGAWARA, Fumio - KAMAKURA, Takashi - KOMBA, Shiro - NAKAI, Hiroyuki - TAGUCHI, Hayao. Identification, characterization, and structural analyses of a fungal endo-beta-1,2-glucanase reveal a new glycoside hydrolase family. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 19, pp. 7942-7965., Registrované v: WOS

7. [1.1] WALIA, Abhishek - GULERIA, Shiwani - MEHTA, Preeti - CHAUHAN, Anjali - PARKASH, Jyoti. Microbial xylanases and their industrial application in pulp and paper biobleaching: a review. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA1363 TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. A QM/MM Investigation of the Catalytic Mechanism of Metal-Ion-Independent Core 2 beta 1,6-N-Acetylglucosaminyltransferase. In *Chemistry - A European Journal*, 2013, vol. 19, p. 8153-8162. (2012: 5.831 - IF, Q1 - JCR, 2.935 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201300383>

Ohlasy:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS
3. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG, Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms and applications in natural product development. In *CHEMICAL SOCIETY REVIEWS*. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374., Registrované v: WOS
4. [1.1] MERINO, Pedro - DELSO, Ignacio - TEJERO, Tomas - GHIRARDELLO, Mattia - JUSTE-NAVARRO, Veronica. Nucleoside Diphosphate Sugar Analogues that Target Glycosyltransferases. In *ASIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 2193-5807, 2016, vol. 5, no. 12, pp. 1413-1427., Registrované v: WOS
5. [1.1] WHITFIELD, Dennis M. In a glycosylation reaction how does a hydroxylic nucleophile find the activated anomeric carbon? In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 403, no., pp. 69-89., Registrované v: WOS

ADCA1364 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation of carbohydrate model compounds. 6. The gauche effect and conformations of the hydroxymethyl and methoxymethyl groups. In *Journal of physical chemistry*, 1997, vol. 101, p. 2992-2999. ISSN 0022-3654.

Ohlasy:

1. [1.1] Patel, DS (Patel, Dhilon S.); He, XB (He, Xibing); MacKerell, AD (MacKerell, Alexander D., Jr.): Polarizable Empirical Force Field for Hexopyranose Monosaccharides Based on the Classical Drude Oscillator. In: *JOURNAL OF PHYSICAL CHEMISTRY B* Volume: 119 Issue: 3 Special Issue: SI Pages: 637-652, Registrované v: WOS

2. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

ADCA1365 TVAROŠKA, Igor - ANDRÉ, I. - CARVER, J.P. Ab initio molecular orbital study of the conformational behaviour of the sugar-phosphate linkage. Toward an understanding of the catalytic mechanism of glycosyltransferases. In *Journal of Physical Chemistry B*, 1999, vol. 103, p. 2560-2569. ISSN 1520-6106.

Ohlasy:

1. [1.1] BARBOSA, Ester F. G. - PEREIRA, Elsa V. - SANTOS, Angela F. S. - LAMPREIA, Isabel M. S. Conformational analysis of branched alkanes using limiting partial molar volumes. In JOURNAL OF CHEMICAL THERMODYNAMICS. ISSN 0021-9614, 2017, vol. 115, no., pp. 84-90., Registrované v: WOS
2. [1.1] GERBST, Alexey G. - NIKOLAEV, Andrei V. - YASHUNSKY, Dmitry V. - SHASHKOV, Alexander S. - DMITRENOK, Andrey S. - NIFANTIEV, Nikolay E. Theoretical and NMR-based Conformational Analysis of Phosphodiester-linked Disaccharides. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA1366 TVAROŠKA, Igor - ANDRE, I. - CARVER, J.P. Ab initio molecular orbital study of the catalytic mechanism of glycosyl-transferases: Description of reaction pathways and determination of transition-state structures for inverting N-acetylglucosaminyltransferases. In *Journal of American Chemical Society*, 2000, vol. 122, p. 8762-8776.

Ohlasy:

1. [1.1] BELLA, Maros - KOOS, Miroslav - LIN, Chun-Hung. Towards inhibitors of glycosyltransferases: A novel approach to the synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2015, vol. 11, no., pp. 1547-1552., Registrované v: WOS
2. [1.1] YANG, Hui - ZIMMER, Jochen - YINGLING, Yaroslava G. - KUBICKI, James D. How Cellulose Elongates-A QM/MM Study of the Molecular Mechanism of Cellulose Polymerization in Bacterial CESA. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2015, vol. 119, no. 22, pp. 6525-6535., Registrované v: WOS

ADCA1367 TVAROŠKA, Igor - HRICOVÍNI, Miloš - PETRAKOVA, E. An attempt to derive a new Karplus-type equation of vicinal proton-carbon coupling constants for C-O-C-H segments of bonded atoms. In *Carbohydrate Research*, 1989, vol. 189, p. 359-362. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(89\)84112-6](https://doi.org/10.1016/0008-6215(89)84112-6)

Ohlasy:

1. [1.1] AYTFENFISU, Asaminew H. - YANG, Mingjun - MACKERELL, Alexander D. CHARMM Drude Polarizable Force Field for Glycosidic Linkages Involving Pyranoses and Furanoses. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3132-3143., Registrované v: WOS
2. [1.1] GEBHARDT, Julia - KLEIST, Catharina -

JAKOBTORWEIHEN, Sven - HANSEN, Niels. Validation and Comparison of Force Fields for Native Cyclodextrins in Aqueous Solution. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 5, pp. 1608-1626., Registrované v: WOS

3. [1.1] MANDHAPATI, Appi Reddy - KATO, Takayuki - MATSUSHITA, Takahiko - KSEBATI, Bashar - VASELLA, Andrea - BOETTGER, Erik C. - CRICH, David. Fluorine-Decoupled Carbon Spectroscopy for the Determination of Configuration at Fully Substituted, Trifluoromethyl- and Perfluoroalkyl-Bearing Carbons: Comparison with F-19-H-1 Heteronuclear Overhauser Effect Spectroscopy. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 3, pp. 1754-1763., Registrované v: WOS

4. [1.1] NAVARRO-VAZQUEZ, Armando - SANTAMARIA-FERNANDEZ, Raquel - JAVIER SARDINA, F. MSpin-JCoupling. A modular program for prediction of scalar couplings and fast implementation of Karplus relationships. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 6, pp. 505-512., Registrované v: WOS

5. [1.1] RUNDELL, Sarah R. - WAGAR, Zachary L. - MEINTS, Lisa M. - OLSON, Claire D. - O'NEILL, Mara K. - PILIGIAN, Brent F. - POSTON, Anne W. - HOOD, Robin J. - WOODRUFF, Peter J. - SWARTS, Benjamin M. Deoxyfluoro-D-trehalose (FDTre) analogues as potential PET probes for imaging mycobacterial infection. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 36, pp. 8598-8609., Registrované v: WOS

6. [1.1] SASANUMA, Yuji - NONAKA, Yuta - YAMAGUCHI, Yuki. Conformational characteristics and configurational properties of poly(ethylene succinate) and poly(butylene succinate) and structure-property-function relationships of representative biodegradable polyesters. In POLYMER. ISSN 0032-3861, 2015, vol. 56, no., pp. 327-339., Registrované v: WOS

7. [1.1] ZHANG, Wenhui - TURNEY, Toby - MEREDITH, Reagan - PAN, Qingfeng - SERNAU, Luke - WANG, Xiaocong - HU, Xiaosong - WOODS, Robert J. - CARMICHAEL, Ian - SERIANNI, Anthony S. Conformational Populations of beta-(1>4) O-Glycosidic Linkages Using Redundant NMR J-Couplings and Circular Statistics. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 14, pp. 3042-3058., Registrované v: WOS

8. [1.2] DÍAZ, Dolores - CANALES-MAYORDOMO, Angeles - JAVIER CAÑADA, F. - JIMÉNEZ-BARBERO, Jesús. Solution conformation of carbohydrates: A view by using NMR assisted by modeling. In Methods in Molecular Biology. ISSN 10643745, 2015-01-01, 1273, pp. 261-287., Registrované v: SCOPUS

ADCA1368 TVAROŠKA, Igor - BLEHA, Tomáš. Anomeric and exoanomeric effects in carbohydrate chemistry. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1989, vol. 47, p. 45-123. ISSN 0065-2318.

Ohlasy:

1. [1.1] AHMADI, Sara - MANICKAMACHARI, Vijayan - HUSSAIN, Zahir - HASHIM, Rauzah. Epimeric and anomeric relationship of octyl-alpha-D-gluco/galactosides: Insight from density functional theory and atom in molecules studies. In COMPUTATIONAL AND THEORETICAL

CHEMISTRY. ISSN 2210-271X, 2017, vol. 1108, no., pp. 93-102., Registrované v: WOS

2. [1.1] ALONSO, Elena R. - PENA, Isabel - CABEZAS, Carlos - ALONSO, Jose L. Structural Expression of Exo-Anomeric Effect. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS. ISSN 1948-7185, 2016, vol. 7, no. 5, pp. 845-850., Registrované v: WOS

3. [1.1] BUSCHBECK-ALVARADO, M.E. - HERNANDEZ-FERNANDEZ, G. - HERNANDEZ-TRUJILLO, J. - CORTES-GUZMAN, F. - CUEVAS, G. Charge transfer and electron localization as the origin of the anomeric effect in the OCO segment of dimethoxymethane and spiroketals. In JOURNAL OF PHYSICAL ORGANIC CHEMISTRY. ISSN 0894-3230, APR 2018, vol. 31, no. 4., Registrované v: WOS

4. [1.1] CARBAJO-GORDILLO, A.I. - BLANCO, J.L.J. - BENITO, J.M. - LANA, H. - MARCELO, G. - DI GIORGIO, C. - PRZYBYLSKI, C. - HINOUE, H. - CENA, V. - MELLET, C.O. - MENDICUTI, F. - DE ILARDUYA, C.T. - FERNANDEZ, J.M.G. Click Synthesis of Size- and Shape-Tunable Star Polymers with Functional Macrocyclic Cores for Synergistic DNA Complexation and Delivery. In BIOMACROMOLECULES. ISSN 1525-7797, DEC 2020, vol. 21, no. 12, p. 5173-5188., Registrované v: WOS

5. [1.1] GAWEDA, K. - PLAZINSKI, W. The endo- and exo-Anomeric Effects in Furanosides. A Computational Study. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, FEB 14 2020, vol. 2020, no. 6, p. 674-679., Registrované v: WOS

6. [1.1] GENG, X.Y. - WANG, G.R. - GUO, Z.W. - GU, G.F. Synthesis of the Oligosaccharides of Burkholderia pseudomallei and B. mallei Capsular Polysaccharide and Preliminary Immunological Studies of Their Protein Conjugates. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, FEB 21 2020, vol. 85, no. 4, p. 2369-2384., Registrované v: WOS

7. [1.1] GIMENO, A. - DELGADO, S. - VALVERDE, P. - BERTUZZI, S. - BERBIS, M.A. - ECHAVARREN, J. - LACETERA, A. - MARTIN-SANTAMARIA, S. - SUROLIA, A. - CANADA, F.J. - JIMENEZ-BARBERO, J. - ARDA, A. Minimizing the Entropy Penalty for Ligand Binding: Lessons from the Molecular Recognition of the Histo Blood-Group Antigens by Human Galectin-3. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, MAY 27 2019, vol. 58, no. 22, p. 7268-7272., Registrované v: WOS

8. [1.1] GUBICA, T. - ZIMNIAK, A. - SZELESZCZUK, L. - DABROWSKA, K. - CYRANSKI, M.K. - KANSKA, M. Influence of acetylation on anomeric effect in methyl glycosides. In MOLECULAR PHYSICS. ISSN 0026-8976, FEB 1 2019, vol. 117, no. 3, p. 349-358., Registrované v: WOS

9. [1.1] CHATTERJEE, S. - MOON, S. - HENTSCHEL, F. - GILMORE, K. - SEEBERGER, P.H. An Empirical Understanding of the Glycosylation Reaction. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, SEP 26 2018, vol. 140, no. 38, p. 11942-11953., Registrované v: WOS

10. [1.1] KHANAM, A. - TIWARI, A. - MANDAL, P.K. Chiral auxiliaries: Usefulness in stereoselective glycosylation reactions and their synthetic applications. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, SEP 2020, vol. 495., Registrované v: WOS

11. [1.1] LENOUEEN, Didier - DEFOIN, Albert - BEHR, Jean-Bernard. Determination of the Relative Configuration and Conformational Analysis of Five-membered N-Acyl-Iminosugars by Relevant (3)J Coupling Constants. In CHEMISTRYSELECT. ISSN 2365-6549, 2016, vol. 1, no. 6, pp. 1256-1267., Registrované v: WOS
12. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - PATEL, Bhaumik B. - DESAI, Umesh R. A molecular dynamics-based algorithm for evaluating the glycosaminoglycan mimicking potential of synthetic, homogenous, sulfated small molecules. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 2, pp., Registrované v: WOS
13. [1.1] PAMIES, Silvana C. - PETELSKI, Andre N. - CASTRO, Eduardo A. - SOSA, Gladis L. Static and Dynamic Study of Disaccharides Trehalose, Maltose and Sucrose. In STRUCTURAL CHEMISTRY. ISSN 1040-0400, 2017, vol. 28, no. 4, pp. 911-924., Registrované v: WOS
14. [1.1] PANCZYK, K. - GAWEDA, K. - DRACH, M. - PLAZINSKI, W. Extension of the GROMOS 56a6(CARBO/CARBO)_ (R) Force Field for Charged, Protonated, and Esterified Uronates. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, APR 12 2018, vol. 122, no. 14, p. 3696-3710., Registrované v: WOS
15. [1.1] PANZA, M. - PISTORIO, S.G. - STINE, K.J. - DEMCHENKO, A.V. Automated Chemical Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. In CHEMICAL REVIEWS. ISSN 0009-2665, SEP 12 2018, vol. 118, no. 17, p. 8105-8150., Registrované v: WOS
16. [1.1] RODRIGUEZ ORTEGA, Pilar Gema - MONTEJO, Manuel - LOPEZ GONZALEZ, Juan Jesus. Hyperconjugative and Electrostatic Interactions as Anomeric Triggers in Archetypical 1,4-Dioxane Derivatives. In CHEMPHYSICHEM. ISSN 1439-4235, 2016, vol. 17, no. 4, pp. 530-540., Registrované v: WOS
17. [1.1] TAMBURRINI, A. - COLOMBO, C. - BERNARDI, A. Design and synthesis of glycomimetics: Recent advances. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, MAR 2020, vol. 40, no. 2, p. 495-531., Registrované v: WOS
18. [1.1] WANG, Xiaocong - WOODS, Robert J. Insights into furanose solution conformations: beyond the two-state model. In JOURNAL OF BIOMOLECULAR NMR. ISSN 0925-2738, 2016, vol. 64, no. 4, pp. 291-305., Registrované v: WOS
19. [1.1] WANG, X.M. - CHEN, Y. - WANG, J.C. - YANG, Y. Total Synthesis of the Trisaccharide Antigen of the Campylobacter jejuni RM1221 Capsular Polysaccharide via de Novo Synthesis of the 6-Deoxy-D-manno-heptose Building Blocks. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, MAR 1 2019, vol. 84, no. 5, p. 2393-2403., Registrované v: WOS
20. [1.1] ZHANG, H. - NIE, S.P. - GUO, Q.B. - WANG, Q. - CUI, S.W. - XIE, M.Y. Conformational properties of a bioactive polysaccharide from Ganoderma atrum by light scattering and molecular modeling. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, NOV 2018, vol. 84, p. 16-25., Registrované v: WOS
21. [1.1] ZHANG, W.H. - MEREDITH, R. - YOON, M.K. - WANG, X.C. - WOODS, R.J. - CARMICHAEL, I. - SERIANNI, A.S. Synthesis and O-Glycosidic Linkage Conformational Analysis of C-13-Labeled

- Oligosaccharide Fragments of an Antifreeze Glycolipid. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, FEB 15 2019, vol. 84, no. 4, p. 1706-1724., Registrované v: WOS
22. [1.1] ZHANG, W.H. - WU, Q.Q. - OLIVER, A.G. - SERIANNI, A.S. Conformational analysis of the disaccharide methyl α -D-mannopyranosyl-(1 \rightarrow 3)-2-O-acetyl-beta-D-mannopyranoside monohydrate. In ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY. ISSN 2053-2296, JUN 2019, vol. 75, 6, p. 610-+, Registrované v: WOS
23. [1.2] BAILEY, William F. - LAMBERT, Kyle M. - WIBERG, Kenneth B. - MERCADO, Brandon Q. Effect of remote aryl substituents on the conformational equilibria of 2,2-diaryl-1,3-dioxanes: Importance of electrostatic interactions. In Journal of Organic Chemistry. ISSN 00223263, 2015-04-17, 80, 8, pp. 4108-4115., Registrované v: SCOPUS
24. [1.2] BANDARA, Mithila D. - YASOMANEE, Jagodige P. - DEMCHENKO, Alexei V. Application of Armed, Disarmed, Superarmed, and Superdisarmed Building Blocks in Stereocontrolled Glycosylation and Expeditious Oligosaccharide Synthesis. In Selective Glycosylation: Synthetic Methods and Catalysts, 2017-03-09, pp. 29-58., Registrované v: SCOPUS
25. [1.2] GOMES, Gabriel Dos Passos - VIL, Vera - TERENCEV, Alexander - ALABUGIN, Igor V. Stereoelectronic source of the anomalous stability of bis-peroxides. In Chemical Science. ISSN 20416520, 2015-01-01, 6, 12, pp. 6783-6791., Registrované v: SCOPUS
26. [1.2] CHENDO, Christophe - MOREIRA, Guillaume - TINTARU, Aura - POSOCCO, Paola - LAURINI, Erik - LEFAY, Catherine - GIGMES, Didier - VIEL, Stéphane - PRICL, Sabrina - CHARLES, Laurence. Anomerization of Acrylated Glucose during Traveling Wave Ion Mobility Spectrometry. In Journal of the American Society for Mass Spectrometry. ISSN 10440305, 2015-09-08, 26, 9, pp. 1483-1493., Registrované v: SCOPUS
27. [1.2] JUARISTI, Eusebio - NOTARIO, Rafael. Theoretical examination of the S-C-P anomeric effect. In Journal of Organic Chemistry. ISSN 00223263, 2015-03-06, 80, 5, pp. 2879-2883., Registrované v: SCOPUS
28. [1.2] MOYA-LÓPEZ, Juan Francisco - ELHALEM, Eleonora - RECIO, Rocío - ÁLVAREZ, Eleuterio - FERNÁNDEZ, Inmaculada - KHIAR, Nouredine. Studies on the diastereoselective oxidation of 1-thio- β -D-glucopyranosides: Synthesis of the usually less favoured RinfS/inf sulfoxide as a single diastereoisomer. In Organic and Biomolecular Chemistry. ISSN 14770520, 2015-02-14, 13, 6, pp. 1904-1914., Registrované v: SCOPUS
29. [1.2] NIGUDKAR, Swati S. - DEMCHENKO, Alexei V. Stereocontrolled 1,2-cis glycosylation as the driving force of progress in synthetic carbohydrate chemistry. In Chemical Science. ISSN 20416520, 2015-05-01, 6, 5, pp. 2687-2704., Registrované v: SCOPUS
30. [1.2] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In Carbohydrate Research. ISSN 00086215, 2015-01-12, 401, pp. 73-81., Registrované v: SCOPUS
31. [1.2] YI, Ruiqin - NARIMOTO, Hirofumi - NOZOE, Miku - ICHIYANAGI, Tsuyoshi. Convergent synthesis of 4,5-branched inner-core oligosaccharides of lipopolyand lipooligosaccharides. In Bioscience,

ADCA1369 TVAROŠKA, Igor. Atomistic insight into the catalytic mechanism of glycosyltransferases by combined quantum mechanics/molecular mechanics (QM/MM) methods. In *Carbohydrate Research*, 2015, vol.403, p. 38-47. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.06.017>

Ohlasy:

1. [1.1] ARDEVOL, Albert - ROVIRA, Carme. Reaction Mechanisms in Carbohydrate-Active Enzymes: Glycoside Hydrolases and Glycosyltransferases. Insights from ab Initio Quantum Mechanics/Molecular Mechanics Dynamic Simulations. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2015, vol. 137, no. 24, pp. 7528-7547., Registrované v: WOS
2. [1.1] BARATH, Marek - JAKUBCINOVA, Jana - KONYARIKOVA, Zuzana - KOZMON, Stanislav - MIKUSOVA, Katarina - BELLA, Maros. Synthesis, docking study and biological evaluation of D-fructofuranosyl and D-tagatofuranosyl sulfones as potential inhibitors of the mycobacterial galactan synthesis targeting the galactofuranosyltransferase GltT2. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2020, vol. 16, no., pp. 1853-1862. Dostupné na: <https://doi.org/10.3762/bjoc.16.152>., Registrované v: WOS
3. [1.1] BELLA, Maros - YAN, Shi - SESTAK, Sergej - KOZMON, Stanislav - LIN, Chun-Hung - MUCHA, Jan - KOOS, Miroslav. Synthesis of a beta-D-Psicofuranosyl Sulfone and Inhibitory-Activity Evaluation Against N-Acetylglucosaminyltransferase I. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2017, vol., no. 41, pp. 6179-6191., Registrované v: WOS
4. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
5. [1.1] BRAS, Natercia F. - FERNANDES, Pedro A. - RAMOS, Maria J. Understanding the Rate-Limiting Step of Glycogenolysis by Using QM/MM Calculations on Human Glycogen Phosphorylase. In CHEMMEDCHEM. ISSN 1860-7179, 2018, vol. 13, no. 15, pp. 1608-1616., Registrované v: WOS
6. [1.1] DONG, Lihua - ZHANG, Shujun - LIU, Yongjun. A water-assisted nucleophilic mechanism utilized by BphD, the meta-cleavage product hydrolase in biphenyl degradation. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2017, vol. 76, no., pp. 448-455., Registrované v: WOS
7. [1.1] HAMADA, Yojiro - KANEMATSU, Yusuke - TACHIKAWA, Masanori. Quantum Mechanics/Molecular Mechanics Study of the Sialyltransferase Reaction Mechanism. In BIOCHEMISTRY. ISSN 0006-2960, 2016, vol. 55, no. 40, pp. 5764-5771., Registrované v: WOS

8. [1.1] JAKUBCINOVA, Jana - KOZMON, Stanislav - SESTAK, Sergej - BARATH, Marek. Novel 1-O-Sulfono-alpha-d-Fructofuranosyl Sulfones as Possible Inhibitors of Human GnT-I Enzyme. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 16, pp. 4967-4972. Dostupné na: <https://doi.org/10.1002/slct.202001098>., Registrované v: WOS
9. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS
10. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG, Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms and applications in natural product development. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374., Registrované v: WOS
11. [1.1] LI, Zhijie - HAN, Kristina - PAK, John E. - SATKUNARAJAH, Malathy - ZHOU, Dongxia - RINI, James M. Recognition of EGF-like domains by the Notch-modifying O-fucosyltransferase POFUT1. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 7, pp. 757-+., Registrované v: WOS
12. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS
13. [1.1] MERINO, Pedro - DELSO, Ignacio - TEJERO, Tomas - GHIRARDELLO, Mattia - JUSTE-NAVARRO, Veronica. Nucleoside Diphosphate Sugar Analogues that Target Glycosyltransferases. In ASIAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 2193-5807, 2016, vol. 5, no. 12, pp. 1413-1427., Registrované v: WOS
14. [1.1] MESTROM, Luuk - PRZYPIS, Marta - KOWALCZYKIEWICZ, Daria - POLLENDER, Andre - KUMPF, Antje - MARSDEN, Stefan R. - BENTO, Isabel - JARZEBSKI, Andrzej B. - SZYMANSKA, Katarzyna - CHRUSCIEL, Arkadiusz - TISCHLER, Dirk - SCHOEVAART, Rob - HANEFELD, Ulf - HAGEDOORN, Peter-Leon. Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 21, pp., Registrované v: WOS
15. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>., Registrované v: WOS
16. [1.1] SU, Hao - SHENG, Xiang - LIU, Yongjun. Insights into the catalytic mechanism of N-acetylglucosaminidase glycoside hydrolase from Bacillus subtilis: a QM/MM study. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 13, pp. 3432-3442., Registrované v: WOS
17. [1.1] TURUPCU, Ayseguel - POLIAK, Peter - MARGREITTER,

Christian - OOSTENBRINK, Chris - STAUDACHER, Erika.
 UDP-N-acetyl-alpha-D-galactosamine:polypeptide
 N-acetylgalactosaminyltransferase from the snail *Biomphalaria glabrata*
 structural reflections. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080,
 2020, vol. 37, no. 1, pp. 15-25. Dostupné na:
<https://doi.org/10.1007/s10719-019-09886-y>., Registrované v: WOS
 18. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN
 FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes)
 Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY
 AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625.
 Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS
 19. [2.1] MENDOZA, Fernanda - GOMEZ, Hansel - LLUCH, Jose M. -
 MASGRAU, Laura. alpha 1,4-N-Acetylhexosaminyltransferase EXTL2: The
 Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of
 Configuration. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 4, pp.
 2577-2589., Registrované v: WOS

ADCA1370 TVAROŠKA, Igor - BLEHA, Tomáš. Calculation of solvent effect on
 conformation stability and anomeric effect in dimethoxymethane. In *Collection of
 Czechoslovak chemical communications*. - Praha : Institute of Organic Chemistry
 and Biochemistry, Academy of Sciences of the Czech Republic, 1980, vol. 45, p.
 1883-1895. ISSN 0010-0765.

Ohlasy:

1. [1.1] BARBOSA, Ester F. G. - PEREIRA, Elsa V. - SANTOS,
 Angela F. S. - LAMPREIA, Isabel M. S. Conformational analysis of branched
 alkanes using limiting partial molar volumes. In JOURNAL OF CHEMICAL
 THERMODYNAMICS. ISSN 0021-9614, 2017, vol. 115, no., pp. 84-90.,
 Registrované v: WOS

ADCA1371 TVAROŠKA, Igor - TARAVEL, F.R. Carbon-proton coupling
 constants in the conformational analysis of sugar-molecules. In *Advances in
 Carbohydrate Chemistry and Biochemistry*, 1995, vol. 51, p. 15-61. ISSN
 0065-2318.

Ohlasy:

1. [1.1] ABE, Tatsuya - KIKUCHI, Hiroto - ARITSUKA, Tsutomu -
 TAKATA, Yusuke - FUKUSHI, Eri - FUKUSHI, Yukiharu - KAWABATA, Jun
 - UENO, Keiji - ONODERA, Shuichi - SHIOMI, Norio. Structural confirmation
 of novel oligosaccharides isolated from sugar beet molasses. In FOOD
 CHEMISTRY. ISSN 0308-8146, 2016, vol. 202, no., pp. 284-290., Registrované
 v: WOS
 2. [1.1] ALABUGIN, Igor V. - GOMES, Gabriel dos Passos - ABDO,
 Miguel A. Hyperconjugation. In WILEY INTERDISCIPLINARY
 REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876,
 2019, vol. 9, no. 2, pp., Registrované v: WOS
 3. [1.1] ALSARRAF, Jerome - GORMAND, Paul - LEGAULT, Jean -
 MIHOUB, Mouadh - PICHETTE, Andre. Synthesis of a first-generation
 L-rhamnose dendron. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2020,
 vol. 61, no. 14, pp. Dostupné na: <https://doi.org/10.1016/j.tetlet.2020.151706>.,
 Registrované v: WOS
 4. [1.1] BECKER, Johanna - LUY, Burkhard. CLIP-ASAP-HSQC for

- fast and accurate extraction of one-bond couplings from isotropic and partially aligned molecules. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2015, vol. 53, no. 11, pp. 878-885., Registrované v: WOS
5. [1.1] CALABRO, Kevin - KALAHROODI, Elaheh Lotfi - RODRIGUES, Daniel - DIAZ, Caridad - DE LA CRUZ, Mercedes - CAUTAIN, Bastien - LAVILLE, Remi - REYES, Fernando - PEREZ, Thierry - SOUSSI, Bassam - THOMAS, Olivier P. Poecillastrosides, Steroidal Saponins from the Mediterranean Deep-Sea Sponge *Poecillastra compressa* (Bowerbank, 1866). In *MARINE DRUGS*. ISSN 1660-3397, 2017, vol. 15, no. 7, pp., Registrované v: WOS
 6. [1.1] DEVANTHERY, Thierry - NAKAMURA, Keisuke - HASHIGUCHI, Shuhei - HASHIMOTO, Masahito. Structure of a heptose-containing polysaccharide derived from *Komagataeibacter europaeus* NBRC 3261. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107989>., Registrované v: WOS
 7. [1.1] DHARUMAN, Suresh - CRICH, David. Determination of the Influence of Side-Chain Conformation on Glycosylation Selectivity using Conformationally Restricted Donors. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2016, vol. 22, no. 13, pp. 4535-4542., Registrované v: WOS
 8. [1.1] GAST, Daniel - KOLLER, Franziska - KRAFCZYK, Ralph - BAUER, Lukas - WUNDER, Svetlana - LASSAK, Juergen - HOFFMANN-ROEDER, Anja. A set of rhamnosylation-specific antibodies enables detection of novel protein glycosylations in bacteria. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 35, pp. 6823-6828. Dostupné na: <https://doi.org/10.1039/d0ob01289k>., Registrované v: WOS
 9. [1.1] HAMARK, Christoffer - PENDRILL, Robert - LANDSTROEM, Jens - FAGERSTROM, Alexandra Dotson - SANDGREN, Mats - STAHLBERG, Jerry - WIDMALM, Goran. Enantioselective Binding of Propranolol and Analogues Thereof to Cellobiohydrolase Cel7A. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 68, pp. 17975-17985., Registrované v: WOS
 10. [1.1] HASHIMOTO, Masahito - OZONO, Mami - FURUYASHIKI, Maiko - BABA, Risako - HASHIGUCHI, Shuhei - SUDA, Yasuo - FUKASE, Koichi - FUJIMOTO, Yukari. Characterization of a Novel D-Glycero-D-talo-oct-2-ulonic acid-substituted Lipid A Moiety in the Lipopolysaccharide Produced by the Acetic Acid Bacterium *Acetobacter pasteurianus* NBRC 3283. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2016, vol. 291, no. 40, pp. 21184-21194., Registrované v: WOS
 11. [1.1] HASHIMOTO, Masahito - SATOU, Rune - OZONO, Mami - INAGAWA, Hiroyuki - SOMA, Gen-Ichiro. Characterization of the O-antigen polysaccharide derived from *Pantoea agglomerans* IG1 lipopolysaccharide. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 449, no., pp. 32-36., Registrované v: WOS
 12. [1.1] HASHIMOTO, Masahito - MIZUKAMI, Masato - OSUKI, Ken-ichi - FUJIWARA, Nagatoshi - SUDA, Yasuo - UCHIUMI, Toshiki. Characterization of O-antigen polysaccharide backbone derived from nitric

- oxide-inducing *Mesorhizobium loti* MAFF 303099 lipopolysaccharide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 445, no., pp. 44-50., Registrované v: WOS
13. [1.1] KOELLMANN, Christoph - JONES, Peter G. - WERZ, Daniel B. Synthesis of 5-&ITC&IT-Methylated D-Mannose, D-Galactose, L-Gulose, and L-Altrose and Their Structural Elucidation by NMR Spectroscopy. In ORGANIC LETTERS. ISSN 1523-7060, 2018, vol. 20, no. 4, pp. 1220-1223., Registrované v: WOS
14. [1.1] KUCZYNSKA, Kinga - CMOCH, Piotr - RAROVA, Lucie - OKLESTKOVA, Jana - KORDA, Anna - PAKULSKI, Zbigniew - STRNAD, Miroslav. Influence of intramolecular hydrogen bonds on regioselectivity of glycosylation. Synthesis of lupane-type saponins bearing the OSW-1 saponin disaccharide unit and its isomers. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2016, vol. 423, no., pp. 49-69., Registrované v: WOS
15. [1.1] LIN, Yanqin - ZENG, Qing - LIN, Liangjie - CHEN, Zhong - BARKER, Peter B. High-resolution methods for the measurement of scalar coupling constants. In PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. ISSN 0079-6565, 2018, vol. 109, no., pp. 135-159., Registrované v: WOS
16. [1.1] LI, Xiang - KRAFCZYK, Ralph - MACOSEK, Jakub - LI, Yu-Lei - ZOU, Yan - SIMON, Bernd - PAN, Xing - WU, Qiu-Ye - YAN, Fang - LI, Shan - HENNIG, Janosch - JUNG, Kirsten - LASSAK, Juergen - HU, Hong-Gang. Resolving the alpha-glycosidic linkage of arginine-rhamnosylated translation elongation factor P triggers generation of the first Arg(Rha) specific antibody. In CHEMICAL SCIENCE. ISSN 2041-6520, 2016, vol. 7, no. 12, pp. 6995-7001., Registrované v: WOS
17. [1.1] MANDHAPATI, Appi Reddy - KATO, Takayuki - MATSUSHITA, Takahiko - KSEBATI, Bashar - VASELLA, Andrea - BOETTGER, Erik C. - CRICH, David. Fluorine-Decoupled Carbon Spectroscopy for the Determination of Configuration at Fully Substituted, Trifluoromethyl- and Perfluoroalkyl-Bearing Carbons: Comparison with F-19-H-1 Heteronuclear Overhauser Effect Spectroscopy. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2015, vol. 80, no. 3, pp. 1754-1763., Registrované v: WOS
18. [1.1] MILLER, Michelle C. - ZHENG, Yi - ZHOU, Yifa - TAI, Guihua - MAYO, Kevin H. Galectin-3 binds selectively to the terminal, non-reducing end of (14)-galactans, with overall affinity increasing with chain length. In GLYCOBIOLOGY. ISSN 0959-6658, 2019, vol. 29, no. 1, pp. 74-84., Registrované v: WOS
19. [1.1] SIDORYK, Katarzyna - RAROVA, Lucie - OKLESTKOVA, Jana - PAKULSKI, Zbigniew - STRNAD, Miroslav - CMOCH, Piotr - LUBORADZKI, Roman. Synthesis of 28a-homoselenolupanes and 28a-homoselenolupane saponins. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2016, vol. 14, no. 43, pp. 10238-10248., Registrované v: WOS
20. [1.1] SIDORYK, Katarzyna - KORDA, Anna - RAROVA, Lucie - OKLESTKOVA, Jana - PAKULSKI, Zbigniew - STRNAD, Miroslav - CMOCH, Piotr - GWARDIAK, Katarzyna - KARCZEWSKI, Romuald. Synthesis and Cytotoxicity of 28a-Homothiolupanes and 28a-Homothiolupane Saponins. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN

- 1434-193X, 2016, vol., no. 2, pp. 373-383., Registrované v: WOS
21. [1.1] TOHDA, Kazuki - SAITO, Masashi - SAKAI, Hiroaki - ISHIKURA, Daisuke - SAITO, Ryota - SASAKI, Kaname. NMR characterization of alpha- and beta-mannopyranurono-2,6-lactones. In TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 38, pp. 5481-5485., Registrované v: WOS
22. [1.1] WANG, Ya-Nan - MOU, Yan-Hua - DONG, Yu - WU, Yan - LIU, Bing-Yu - BAI, Jian - YAN, Dao-Jiang - ZHANG, Le - FENG, Dan-Qing - PEI, Yue-Hu - HU, You-Cai. Diphenyl Ethers from a Marine-Derived *Aspergillus sydowii*. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 11, pp., Registrované v: WOS
23. [1.1] YAN, Shihai - YAO, Lishan. DFT application in conformational determination of cellobiose. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 404, no., pp. 117-123., Registrované v: WOS
24. [1.1] YI, Ruiqin - NARIMOTO, Hirofumi - NOZOE, Miku - ICHIYANAGI, Tsuyoshi. Convergent synthesis of 4,5-branched inner-core oligosaccharides of lipopoly- and lipooligosaccharides. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2015, vol. 79, no. 12, pp. 1931-1945., Registrované v: WOS
25. [1.2] DÍAZ, Dolores - CANALES-MAYORDOMO, Angeles - JAVIER CAÑADA, F. - JIMÉNEZ-BARBERO, Jesús. Solution conformation of carbohydrates: A view by using NMR assisted by modeling. In Methods in Molecular Biology. ISSN 10643745, 2015-01-01, 1273, pp. 261-287., Registrované v: SCOPUS

ADCA1372 TVAROŠKA, Igor - PÉREZ, S. - MARCHESSAULT, R.H. Conformation analysis of (1-6)-alfa-D-glucan. In *Carbohydrate Research*, 1978, vol. 61, p. 97-106. ISSN 0008-6215.

Ohlasy:

1. [1.1] ABRAHAM, K. - KUNST, S. - FLOETER, E. Membrane Characterisation for Fractionated Dextran Analysis in Sugar Industry. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, 2019, vol. 12, no. 5, pp. 1092-1102., Registrované v: WOS

ADCA1373 TVAROŠKA, Igor - MAZEAU, K. - BLANC-MUESSER, M. - LAVAITTE, S. - DRIGUEZ, H. - TARAVEL, F.R. Karplus-type equation for vicinal carbon-proton coupling for the C-S-C-H pathway in 1-thioglycosides. In *Carbohydrate Research*, 1992, vol. 229, p. 225-231. (1991: 1.299 - IF). ISSN 0008-6215.

Ohlasy:

1. [1.1] THORSHEIM, Karin - WILLEN, Daniel - TYKESSON, Emil - STAHL, Jonas - PRALY, Jean-Pierre - VIDAL, Sebastien - JOHNSON, Magnus T. - WIDMALM, Goran - MANNER, Sophie - ELLERVIK, Ulf. Naphthyl Thio- and Carba-xylopyranosides for Exploration of the Active Site of-1,4-Galactosyltransferase 7 (4GalT7). In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 71, pp. 18057-18065., Registrované v: WOS

- ADCA1374 TVAROŠKA, Igor - BLEHA, T. Lone pair interaction in dimetoxymethane and anomeric effect. In *Canadian Journal of Chemistry*, 1979, vol. 57, p. 424-435. ISSN 0008-4042.
Ohlasy:
1. [1.1] HE, Tanjin - WANG, Zhi - YOU, Xiaoqing - LIU, Haoye - WANG, Yingdi - LI, Xiaoyu - HE, Xin. A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). In *FUEL*. ISSN 0016-2361, 2018, vol. 212, no., pp. 223-235., Registrované v: WOS
- ADCA1375 TVAROŠKA, Igor - BLEHA, Tomáš. Molecular orbitals studies of the conformations of dimethoxymethane. In *Journal of Molecular Structure*, 1975, vol. 24, p. 249. Dostupné na: [https://doi.org/10.1016/0022-2860\(75\)87003-7](https://doi.org/10.1016/0022-2860(75)87003-7)
Ohlasy:
1. [1.1] HE, Tanjin - WANG, Zhi - YOU, Xiaoqing - LIU, Haoye - WANG, Yingdi - LI, Xiaoyu - HE, Xin. A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). In *FUEL*. ISSN 0016-2361, 2018, vol. 212, no., pp. 223-235., Registrované v: WOS
2. [1.1] HE, T.J. - WANG, Z. - YOU, X.Q. - LIU, H.Y. - WANG, Y.D. - LI, X.Y. - HE, X. A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). In *FUEL*. ISSN 0016-2361, JAN 15 2018, vol. 212, p. 223-235., Registrované v: WOS
- ADCA1376 TVAROŠKA, Igor - KOŽÁR, J. - HRICOVÍNI, Miloš. Oligosaccharides in solution. Conformational analysis by NMR spectroscopy and calculation. In *Computer Modeling of Carbohydrate Molecules*, 1990, vol. 430, p. 162-176. ISSN 0097-6156.
Ohlasy:
1. [1.1] DEL VIGO, Enrique A. - MARINO, Carla - STORTZ, Carlos A. Exhaustive rotamer search of the C-4(1) conformation of alpha- and beta-D-galactopyranose. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 448, no., pp. 136-147., Registrované v: WOS
- ADCA1377 TVAROŠKA, Igor. QM/MM insight on enzymatic reactions of glycosyltransferases. In *Mini-Reviews in Organic Chemistry*, 2011, vol. 8, p. 263-269. (2010: 2.284 - IF, Q2 - JCR, 0.920 - SJR, Q2 - SJR). ISSN 1570-193X. Dostupné na: <https://doi.org/10.2174/157019311796197490>
Ohlasy:
1. [1.1] GHIRARDELLO, Mattia - DE LAS RIVAS, Matilde - LACETERA, Alessandra - DELSO, Ignacio - LIRA-NAVARRETE, Erandi - TEJERO, Tomas - MARTIN-SANTAMARIA, Sonsoles - HURTADO-GUERRERO, Ramon - MERINO, Pedro. Glycomimetics Targeting Glycosyltransferases: Synthetic, Computational and Structural Studies of Less-Polar Conjugates. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2016, vol. 22, no. 21, pp. 7215-7224., Registrované v: WOS
2. [1.1] YANG, Hui - ZIMMER, Jochen - YINGLING, Yaroslava G. - KUBICKI, James D. How Cellulose Elongates-A QM/MM Study of the Molecular Mechanism of Cellulose Polymerization in Bacterial CESA. In

ADCA1378 TVAROŠKA, Igor - TARAVEL, F.R. - UTILLE, J.P. - CARVER, J.P.

Quantum mechanical and NMR spectroscopy studies on the conformations of the hydroxymethyl and methoxymethyl groups in aldohexosides. In *Carbohydrate Research*, 2002, vol. 337, p. 353-367. (2001: 1.349 - IF, Current Contents - CCC). (2002 - Current Contents). ISSN 0008-6215. Dostupné na:
[https://doi.org/10.1016/S0008-6215\(01\)00315-9](https://doi.org/10.1016/S0008-6215(01)00315-9)

Ohlasy:

1. [1.1] AHMADI, Sara - MANICKAMACHARI, Vijayan - HUSSAIN, Zahir - HASHIM, Rauzah. Epimeric and anomeric relationship of octyl- α -D-glucopyranosides: Insight from density functional theory and atom in molecules studies. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2017, vol. 1108, no., pp. 93-102., Registrované v: WOS

2. [1.1] AMARASEKARA, Harsha - DHARUMAN, Suresh - KATO, Takayuki - CRICH, David. Synthesis of Conformationally-Locked cis- and trans-Bicyclo[4.4.0] Mono-, Di-, and Trioxadecane Modifications of Galactopyranose; Experimental Limiting $^3J_{\text{H,H}}$ Coupling Constants for the Estimation of Carbohydrate Side Chain Populations and Beyond. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 2, pp. 881-897., Registrované v: WOS

3. [1.1] BESTAOUI-BERREKHCHI-BERRAHMA, N. - SPRINGBORG, M. - BERREKHCHI-BERRAHMA, C. A. - SEKKAL-RAHAL, M. DFT and MP2 conformational study of 3,6-anhydro- α -D-galactose in gas phase and in aqueous solvent. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1126, no., pp. 44-53., Registrované v: WOS

4. [1.1] DHAKAL, Bibek - BUDA, Szymon - CRICH, David. Stereoselective Synthesis of 5-epi- α -Sialosides Related to the Pseudaminic Acid Glycosides. Reassessment of the Stereoselectivity of the 5-Azido-5-deacetamidodialyl Thioglycosides and Use of Triflate as Nucleophile in the Zbiral Deamination of Sialic Acids. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2016, vol. 81, no. 22, pp. 10617-10630., Registrované v: WOS

5. [1.1] DHARUMAN, Suresh - CRICH, David. Determination of the Influence of Side-Chain Conformation on Glycosylation Selectivity using Conformationally Restricted Donors. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2016, vol. 22, no. 13, pp. 4535-4542., Registrované v: WOS

6. [1.1] DVORES, M. P. - CARCABAL, P. - MAITRE, P. - SIMONS, J. P. - GERBER, R. B. Gas phase dynamics, conformational transitions and spectroscopy of charged saccharides: the oxocarbenium ion, protonated anhydrogalactose and protonated methyl galactopyranoside. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 7, pp. 4144-4157. Dostupné na: <https://doi.org/10.1039/c9cp06572e>., Registrované v: WOS

7. [1.1] FENG, Xuan - LI, Fan - DING, Mingming - ZHANG, Ran - SHI, Tongfei. Molecular dynamic simulation: Conformational properties of

- single-stranded curdlan in aqueous solution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116906>., Registrované v: WOS
8. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS
9. [1.1] HRICOVINI, Milos. Solution Structure of Heparin Pentasaccharide: NMR and DFT Analysis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2015, vol. 119, no. 38, pp. 12397-12409., Registrované v: WOS
10. [1.1] KERINS, Louise - BYRNE, Sylvester - GABBA, Adele - MURPHY, Paul. Anomer Preferences for Glucuronic and Galacturonic Acid and Derivatives and Influence of Electron-Withdrawing Substituents. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 15, pp. 7714-7729., Registrované v: WOS
11. [1.1] LEE, Ka Hung - SCHNUPF, Udo - SUMPTER, Bobby G. - IRLE, Stephan. Performance of Density-Functional Tight-Binding in Comparison to Ab Initio and First-Principles Methods for Isomer Geometries and Energies of Glucose Epimers in Vacuo and Solution. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 16899-16915., Registrované v: WOS
12. [1.1] LOMAS, John S. Intramolecular O²H⁺O and C²H⁺O hydrogen bond cooperativity in D-glucopyranose and D-galactopyranose A DFT/GIAO, QTAIM/IQA, and NCI approach. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 8, pp. 748-766., Registrované v: WOS
13. [1.1] LOMAS, John S. - JOUBERT, Laurent. On the importance of intramolecular hydrogen bond cooperativity in d-glucose an NMR and QTAIM approach. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2017, vol. 55, no. 10, pp. 893-901., Registrované v: WOS
14. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS
15. [1.1] NOWACKI, Andrzej - LIBEREK, Beata. Comparative conformational studies of 3,4,6-tri-O-acetyl-1,5-anhydro-2-deoxyhex-1-enitols at the DFT level. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 462, no., pp. 13-27., Registrované v: WOS
16. [1.1] PLAZINSKI, Wojciech - LONARDI, Alice - HUNENBERGER, Philippe H. Revision of the GROMOS 56A6(CARBO) force field: Improving the description of ring-conformational equilibria in hexopyranose-based carbohydrates chains. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2016, vol. 37, no. 3, pp. 354-365., Registrované v: WOS
17. [1.1] TAN, Yanglan - ZHAO, Ning - LIU, Jinfeng - LI, Pengfei - STEDWELL, Corey N. - YU, Long - POLFER, Nicolas C. Vibrational Signatures of Isomeric Lithiated N-acetyl-D-hexosamines by Gas-Phase Infrared Multiple-Photon Dissociation (IRMPD) Spectroscopy. In JOURNAL OF THE

- AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2017, vol. 28, no. 3, pp. 539-550., Registrované v: WOS
18. [1.1] UDDIN, Nizam - GHOSH, Manik Kumer - CHOI, Tae Hoon - CHOI, Cheol Ho. Gauche effects of glucopyranose by QM/MM-MD simulations. In THEORETICAL CHEMISTRY ACCOUNTS. ISSN 1432-881X, 2015, vol. 134, no. 11, pp., Registrované v: WOS
19. [1.1] WATSON, Amelia - HACKBUSCH, Sven - FRANZ, Andreas H. NMR solution geometry of saccharides containing the 6-O-(alpha-D-glucopyranosyl)-alpha/beta-D-glucopyranose (isomaltose) or 6-O-(alpha-D-galactopyranosyl)-alpha/beta-D-glucopyranose (melibiose) core. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 473, no., pp. 18-35., Registrované v: WOS
20. [1.2] DEL VIGO, Enrique A. - MARINO, Carla - STORTZ, Carlos A. Exhaustive rotamer search of the sup4/supCin1/inf conformation of α - and β -D-galactopyranose. In Carbohydrate Research. ISSN 00086215, 2017-01-01, 448, pp. 136-147., Registrované v: SCOPUS
21. [1.2] PATEL, Dhilon S. - HE, Xibing - MACKERELL, Alexander D. Polarizable empirical force field for hexopyranose monosaccharides based on the classical drude oscillator. In Journal of Physical Chemistry B. ISSN 15206106, 2015-01-22, 119, 3, pp. 637-652., Registrované v: SCOPUS

ADCA1379 TVAROŠKA, Igor** - SELVARAJ, Chandrabose - KOČA, Jaroslav. Selectins—The two Dr. Jekyll and Mr. Hyde faces of adhesion molecules—A review. In *Molecules*, 2020, vol. 25, art. no. 2835 [61] p. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules25122835>

Ohlasy:

1. [1.1] AGUILAR, Gaynor - KONING, Tania - EHRENFELD, Pamela - SANCHEZ, Fabiola A. Role of NO and S-nitrosylation in the Expression of Endothelial Adhesion Proteins That Regulate Leukocyte and Tumor Cell Adhesion. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.595526>., Registrované v: WOS

ADCA1380 TVAROŠKA, Igor. Structural insights into the catalytic mechanism and transition state of glycosyltransferases using ab initio molecular modeling. In *Trends in Glycoscience and Glycotechnology*, 2005, vol. 17, p. 177-190. Dostupné na: <https://doi.org/10.4052/tigg.17.177>

Ohlasy:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol.

18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>,
Registrované v: WOS

- ADCA1381 TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela
- KOČA, Jaroslav. Substrate-Assisted Catalytic Mechanism of O-GlcNAc
Transferase Discovered by Quantum Mechanics/Molecular Mechanics Investigation.
In *Journal of the American Chemical Society*, 2012, vol. 134, p. 15563-15571.
(2011: 9.907 - IF, Q1 - JCR, 5.478 - SJR, Q1 - SJR, Current Contents - CCC). (2012
- Current Contents). ISSN 0002-7863. ??? (2011: 9.907 - IF, Q1 - JCR, 5.478 -
SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN
0002-7863. Dostupné na: <https://doi.org/10.1021/ja307040m>
Ohlasy:
1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. -
PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. -
ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the
Reaction and Inhibition Mechanism of Metal-Independent Retaining
Glycosyltransferase Responsible for Mycothiol Biosynthesis. In *JOURNAL OF
PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 3, pp.
471-478., Registrované v: WOS
2. [1.1] CROUS, Werner - NAIDOO, Kevin J. Conformational and
electrostatic analysis of S(N)1 donor analogue glycomimetic inhibitors of
ST3Gal-I mammalian sialyltransferase. In *BIOORGANIC & MEDICINAL
CHEMISTRY*. ISSN 0968-0896, 2016, vol. 24, no. 20, pp. 4998-5005.,
Registrované v: WOS
3. [1.1] HANOVER, John A. - CHEN, Weiping - BOND, Michelle R.
O-GlcNAc in cancer: An Oncometabolism-fueled vicious cycle. In *JOURNAL
OF BIOENERGETICS AND BIOMEMBRANES*. ISSN 0145-479X, 2018, vol.
50, no. 3, pp. 155-173., Registrované v: WOS
4. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can
quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of
enzymatic reaction with native and UDP-5 ' thio galactose substrates. In
ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol.
18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>,
Registrované v: WOS
5. [1.1] LIANG, Dong-Mei - LIU, Jia-Heng - WU, Hao - WANG,
Bin-Bin - ZHU, Hong-Ji - QIAO, Jian-Jun. Glycosyltransferases: mechanisms
and applications in natural product development. In *CHEMICAL SOCIETY
REVIEWS*. ISSN 0306-0012, 2015, vol. 44, no. 22, pp. 8350-8374.,
Registrované v: WOS
6. [1.1] PATHAK, Shalini - ALONSO, Jana - SCHIMPL, Marianne -
RAFIE, Karim - BLAIR, David E. - BORODKIN, Vladimir S. -
SCHUETTELKOPF, Alexander W. - ALBARBARAWI, Osama - VAN
AALTEN, Daan M. F. The active site of O-GlcNAc transferase imposes
constraints on substrate sequence. In *NATURE STRUCTURAL &
MOLECULAR BIOLOGY*. ISSN 1545-9993, 2015, vol. 22, no. 9, pp.
744-U133., Registrované v: WOS
7. [1.1] SHE, Nai - ZHAO, Yuan - HAO, Jingjing - XIE, Songqiang -
WANG, Chaojie. Uridine diphosphate release mechanism in
O-N-acetylglucosamine (O-GlcNAc) transferase catalysis. In *BIOCHIMICA ET
BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2019, vol.

1863, no. 3, pp. 609-622., Registrované v: WOS

8. [1.1] SLAMOVA, Kristyna - BOJAROVA, Pavia. Engineered N-acetylhexosamine-active enzymes in glycoscience. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 8, pp. 2070-2087., Registrované v: WOS

9. [1.1] URBANOWICZ, Breeanna R. - BHARADWAJ, Vivek S. - ALAHUHTA, Markus - PENA, Maria J. - LUNIN, Vladimir V. - BOMBLE, Yannick J. - WANG, Shuo - YANG, Jeong-Yeh - TUOMIVAARA, Sami T. - HIMMEL, Michael E. - MOREMEN, Kelley W. - YORK, William S. - CROWLEY, Michael F. Structural, mutagenic and in silico studies of xyloglucan fucosylation in *Arabidopsis thaliana* suggest a water-mediated mechanism. In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 91, no. 6, pp. 931-949., Registrované v: WOS

10. [1.1] ZHOU, Qing-tong - LIANG, Hao-jun - SHAKHNOVICH, Eugene. Virtual Screening of Human O-GlcNAc Transferase Inhibitors. In *CHINESE JOURNAL OF CHEMICAL PHYSICS*. ISSN 1674-0068, 2016, vol. 29, no. 3, pp. 374-380., Registrované v: WOS

11. [1.2] LEVINE, Zebulon G. - WALKER, Suzanne. The Biochemistry of O-GlcNAc Transferase: Which Functions Make It Essential in Mammalian Cells? In *Annual Review of Biochemistry*. ISSN 00664154, 2016-06-02, 85, pp. 631-657., Registrované v: SCOPUS

ADCA1382 TVAROŠKA, Igor - CARVER, J.P. The anomeric and exo-anomeric effects of a hydroxyl group and the stereochemistry of the hemiacetal linkage. In *Carbohydrate Research*, 1998, vol. 309, p. 1-9. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(98\)00114-1](https://doi.org/10.1016/S0008-6215(98)00114-1)

Ohlasy:

1. [1.1] RODRIGUEZ ORTEGA, Pilar Gema - MONTEJO, Manuel - LOPEZ GONZALEZ, Juan Jesus. Hyperconjugative and Electrostatic Interactions as Anomeric Triggers in Archetypical 1,4-Dioxane Derivatives. In *CHEMPHYSICHEM*. ISSN 1439-4235, 2016, vol. 17, no. 4, pp. 530-540., Registrované v: WOS

ADCA1383 UHĽIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - MCCLEARY, Barry V. - BIELY, Peter. Positional specificity of acetylxyloxy esterases on natural polysaccharide: An NMR study. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 3365-3372. (2012: 3.848 - IF, Q1 - JCR, 2.121 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2013.01.011>

Ohlasy:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] KANOKRATANA, Pattanop - WONGWILAIWALIN, Sarunyoo - MHUANTONG, Wuttichai - TANGPHATSORNRUANG, Sithichoke - EURWILAICHITR, Lily - CHAMPREDA, Verawat. Characterization of cellulolytic microbial consortium enriched on Napier grass using metagenomic approaches. In *JOURNAL OF BIOSCIENCE AND*

BIOENGINEERING. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 439-447.,
Registrované v: WOS

3. [1.1] LUO, Yuqiong - SHEN, Suqin - LUO, Jiwen - WANG, Xiaoying - SUN, Runcang. Green synthesis of silver nanoparticles in xylan solution via Tollens reaction and their detection for Hg²⁺. In NANOSCALE. ISSN 2040-3364, 2015, vol. 7, no. 2, pp. 690-700., Registrované v: WOS

4. [1.1] MAI-GISONDI, Galina - TURUNEN, Ossi - PASTINEN, Ossi - PAHIMANOLIS, Nikolaos - MASTER, Emma R. Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2015, vol. 79-80, no., pp. 27-33., Registrované v: WOS

5. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

6. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

7. [1.1] NEUMULLER, Klaus G. - DE SOUZA, Adriana Carvalho - VAN RIJN, Jozef H. J. - STREEKSTRA, Hugo - GRUPPEN, Harry - SCHOLS, Henk A. Positional preferences of acetyl esterases from different CE families towards acetylated 4-O-methyl glucuronic acid-substituted xylo-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2015, vol. 8, no., pp., Registrované v: WOS

8. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

9. [1.1] SCHENDEL, Rachel R. - PUCHBAUER, Ann-Katrin - BRITSCHO, Natalie - BUNZEL, Mirko. Feruloylated Wheat Bran Arabinoxylans: Isolation and Characterization of Acetylated and O-2-Monosubstituted Structures. In CEREAL CHEMISTRY. ISSN 0009-0352, 2016, vol. 93, no. 5, pp. 493-501., Registrované v: WOS

10. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS

11. [1.1] TIAN, Hua - YIN, Xueqiong - ZENG, Qinghuan - ZHU, Li - CHEN, Junhua. Isolation, structure, and surfactant properties of polysaccharides from *Ulva lactuca* L. from South China Sea. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 79, no., pp. 577-582., Registrované v: WOS

ADCA1384 UHRÍN, Dušan - PROKSA, Bohumil. Conformational analysis of 4-methylraucubainium and 4-methylstrictaminium chlorides. In *Journal of Natural Products*, 1989, vol. 52, p. 637-639. ISSN 0163-3864.

Ohlasy:

1. [1.1] BENIDDIR, Mehdi A. - GENTA-JOUVE, Gregory - LEWIN, Guy. Resolving the (19R) Absolute Configuration of Lanciferine, a Monoterpene Indole Alkaloid from *Alstonia boullindaensis*. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2018, vol. 81, no. 4, pp. 1075-1078., Registrované v: WOS

ADCA1385 UHRÍN, Dušan - LIPTAJ, T. - HRICOVÍNÍ, Miloš - CAPEK, Peter. Determination of long-range proton-carbon coupling constants using modified 2D J-resolved experiments. In *Journal of Magnetic Resonance*, 1989, vol. 84, p. 137-140. ISSN 1090-7807. Dostupné na: [https://doi.org/10.1016/0022-2364\(89\)90326-0](https://doi.org/10.1016/0022-2364(89)90326-0)

Ohlasy:

1. [1.1] PARELLA, Teodor. Current developments in homonuclear and heteronuclear J-resolved NMR experiments. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 4, pp. 230-250., Registrované v: WOS
2. [1.2] CLARIDGE, Timothy D.W. High-Resolution NMR Techniques in Organic Chemistry: Third Edition. In *High-Resolution NMR Techniques in Organic Chemistry: Third Edition*, 2016-05-13, pp. 1-541., Registrované v: SCOPUS

ADCA1386 UHRÍN, Dušan - PROKSA, Bohumil - ZHAMIANSAN, J. Lepenine and denudatine: New alkaloid from *Aconitum kusnezoffii*. In *Planta Medica : an international journal of natural products and medicinal plant research*, 1991, vol. 57, p. 390-391. ISSN 0032-0943.

Ohlasy:

1. [1.1] CHIRKIN, Egor - POREE, Francois-Hugues. The Diels-Alder Reaction in Total Synthesis: A Review of the State of the Art During the Period 2009-2014. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2016, vol. 20, no. 22, pp. 2284-2325., Registrované v: WOS
2. [1.1] LIU, Xiao-Yu - QIN, Yong. Ongoing Pursuit of Diterpenoid Alkaloids: A Synthetic View. In *ASIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 2193-5807, 2015, vol. 4, no. 10, pp. 1010-1019., Registrované v: WOS
3. [1.1] SHI, Yingbo - WANG, Qiaoling - GAO, Shuanhu. Recent advances in the intramolecular Mannich reaction in natural products total synthesis. In *ORGANIC CHEMISTRY FRONTIERS*. ISSN 2052-4129, 2018, vol. 5, no. 6, pp. 1049-1066., Registrované v: WOS
4. [1.1] TANG, Hua - CHEN, Qi-Feng - LIU, Xiao-Yu - ZHANG, Hua - CHEN, Dong-Lin - WANG, Feng-Peng. Novel analogues of diterpenoid alkaloids from ring distortion of talatisamine, a potassium ion channel blocker. In *TETRAHEDRON*. ISSN 0040-4020, 2016, vol. 72, no. 10, pp. 1357-1363., Registrované v: WOS
5. [1.2] XIONG, Jiao - LIU, Wang Yan - HE, Dan - ZHANG, Lian - YANG, Chong Kang - LUO, Qi Peng - LIU, Jia - SHEN, Yong. Diterpenoid alkaloids in aerial parts of *Aconitum transsectum*. In *Chinese Traditional and*

ADCA1387 UHRÍN, Dušan - LIPTAJ, T. - KOVÉR, K.E. Modified BIRD pulses and design of heteronuclear pulse sequences. In *Journal of Magnetic Resonance*, 1993, vol. 101, p. 41-46. ISSN 1090-7807. Dostupné na: <https://doi.org/10.1006/jmra.1993.1005>

Ohlasy:

1. [1.1] CASTANAR, Laura - PARELLA, Teodor. Recent Advances in Small Molecule NMR: Improved HSQC and HMQC Experiments. In ANNUAL REPORTS ON NMR SPECTROSCOPY, VOL 84. ISSN 0066-4103, 2015, vol. 84, no., pp. 163-232., Registrované v: WOS
2. [1.1] GOERLING, Benjamin - BERMEL, Wolfgang - BRAESE, Stefan - LUY, Burkhard. Homonuclear decoupling by projection reconstruction. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 1006-1020., Registrované v: WOS
3. [1.1] HALLER, Jens D. - BODOR, Andrea - LUY, Burkhard. Real-time pure shift measurements for uniformly isotope-labeled molecules using X-selective BIRD homonuclear decoupling. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2019, vol. 302, no., pp. 64-71., Registrované v: WOS
4. [1.1] KIRALY, Peter - NILSSON, Mathias - MORRIS, Gareth A. Practical aspects of real-time pure shift HSQC experiments. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 993-1005., Registrované v: WOS
5. [1.1] LIN, Yanqin - ZENG, Qing - LIN, Liangjie - CHEN, Zhong - BARKER, Peter B. High-resolution methods for the measurement of scalar coupling constants. In PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. ISSN 0079-6565, 2018, vol. 109, no., pp. 135-159., Registrované v: WOS
6. [1.1] MARCO, Nuria - NOLIS, Pau - GIL, Roberto R. - PARELLA, Teodor. (2)J(HH)-resolved HSQC: Exclusive determination of geminal proton-proton coupling constants. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2017, vol. 282, no., pp. 18-26., Registrované v: WOS
7. [1.1] MARCO, N. - SOUZA, A. A. - NOLIS, P. - GIL, R. R. - PARELLA, T. Perfect (1)J(CH)resolved HSQC: Efficient measurement of one-bond proton-carbon coupling constants along the indirect dimension. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2017, vol. 276, no., pp. 37-42., Registrované v: WOS
8. [1.1] NOLIS, Pau - MOTIRAM-CORRAL, Kumar - PEREZ-TRUJILLO, Miriam - PARELLA, Teodor. Broadband homodecoupled time-shared H-1-C-13 and H-1-N-15 HSQC experiments. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2019, vol. 298, no., pp. 23-30., Registrované v: WOS
9. [1.1] NOLIS, Pau - PARELLA, Teodor. Multiplicity-edited H-1-H-1 TOCSY experiment. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 976-982., Registrované v: WOS
10. [1.1] PARELLA, Teodor. Current developments in homonuclear and heteronuclear J-resolved NMR experiments. In MAGNETIC RESONANCE IN

CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 4, pp. 230-250., Registrované v: WOS

11. [1.1] PARELLA, Teodor. Towards perfect NMR: Spin-echo versus perfect-echo building blocks. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2019, vol. 57, no. 1, pp. 13-29., Registrované v: WOS

12. [1.1] SAKAS, Justinas - BELL, Nicholle G. A. Reduced dimensionality hyphenated NMR experiments for the structure determination of compounds in mixtures. In FARADAY DISCUSSIONS. ISSN 1359-6640, 2019, vol. 218, no., pp. 191-201., Registrované v: WOS

13. [1.1] SAKHAI, Peyman - BERMEL, Wolfgang. A different approach to multiplicity-edited heteronuclear single quantum correlation spectroscopy. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2015, vol. 259, no., pp. 82-86., Registrované v: WOS

14. [1.1] SAURI, Josep - BERMEL, Wolfgang - PARELLA, Teodor - WILLIAMSON, R. Thomas - MARTIN, Gary E. Incorporating BIRD-based homodecoupling in the dual-optimized, inverted (1)J(CC) 1,n-ADEQUATE experiment. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 1029-1036., Registrované v: WOS

15. [1.1] TIMARI, Istvan - WANG, Cheng - HANSEN, Alexandar L. - DOS SANTOS, Gilson Costa - YOON, Sung Ok - BRUSCHWEILER-LI, Lei - BRUSCHWEILER, Rafael. Real-Time Pure Shift HSQC NMR for Untargeted Metabolomics. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2019, vol. 91, no. 3, pp. 2304-2311., Registrované v: WOS

16. [1.1] TOLMAN, Joel R. - ARBOGAST, Luke W. Selective spin inversion in solution by magic field cross polarization. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, 2019, vol. 308, no., pp., Registrované v: WOS

17. [1.1] VERMA, Ajay - BHATTACHARYA, Subrato - BAISHYA, Bikash. Perfecting band selective homo-decoupling for decoupling two signals coupled within the same band. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 36, pp. 19990-19999., Registrované v: WOS

18. [1.1] VERMA, Ajay - PARIHAR, Rashmi - BHATTACHARYA, Subrato - BAISHYA, Bikash. Analyses of Complex Mixtures by F-1 Homo-Decoupled Diagonal Suppressed Total Correlation Spectroscopy. In CHEMPHYSICHEM. ISSN 1439-4235, 2017, vol. 18, no. 21, pp. 3076-3082., Registrované v: WOS

19. [1.2] CLARIDGE, Timothy D.W. High-Resolution NMR Techniques in Organic Chemistry: Third Edition. In High-Resolution NMR Techniques in Organic Chemistry: Third Edition, 2016-05-13, pp. 1-541., Registrované v: SCOPUS

20. [1.2] SAURÍ, Josep - MARTIN, Gary E. - FURRER, Julien. A Comprehensive Discussion of HMBC Pulse Sequences: 4. Establishing Two-Bond Correlations from HMBC and Related Experiments. In Concepts in Magnetic Resonance Part A: Bridging Education and Research. ISSN 15466086, 2015-09-01, 44A, 5, pp. 227-251., Registrované v: SCOPUS

21. [1.2] SMITH, Thomas Brendan - PATEL, Kamlesh - MUNFORD, Haydn - PEET, Andrew - TENNANT, Daniel A. - JEEVES, Mark - LUDWIG, Christian. High-speed tracer analysis of metabolism (HS-TrAM) [version 1; referees: 1 approved, 3 approved with reservations]. In Wellcome Open Research, 2018-01-01, 3, pp., Registrované v: SCOPUS

ADCA1388 UHRÍN, Dušan - MELE, A. - KOVÉR, K. E. - BOYD, J. - DWEK, R.A. One-dimensional inverse-detected methods for measurement of long-range proton-carbon coupling constants. Application to saccharides. In *Journal of Magnetic Resonance*, 1994, vol. 108, p. 160-170. ISSN 1090-7807. Dostupné na: <https://doi.org/10.1006/jmra.1994.1106>

Ohlasy:

1. [1.1] BIGLER, Peter - FURRER, Julien. Measurement of long-range heteronuclear coupling constants using the peak intensity in classical 1D HMBC spectra. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 5, pp. 329-337., Registrované v: WOS

ADCA1389 UHRÍN, Dušan - MELE, A. - DWEK, R.A. Selective inverse correlation by using chemical-shift selective filters and selective pulses. In *Journal of Magnetic Resonance*, 1993, vol. 101, p. 98-102. ISSN 1090-7807.

Ohlasy:

1. [1.1] NGUTA, Joseph Mwanzia - APPIAH-OPONG, Regina - NYARKO, Alexander K. - YEBOAH-MANU, Dorothy - ADDO, Phyllis G. A. Current perspectives in drug discovery against tuberculosis from natural products. In *INTERNATIONAL JOURNAL OF MYCOBACTERIOLOGY*. ISSN 2212-5531, 2015, vol. 4, no. 3, pp. 165-183., Registrované v: WOS

ADCA1390 UHRÍN, Dušan - PROKSA, Bohumil. Study of conformation of narcotine N-oxide and related compounds. In *Collection of Czechoslovak Chemical Communications*, 1989, vol. 54, p. 498-505. (1988: 0.436 - IF, Current Contents - CCC). (1989 - Current Contents, WOS). ISSN 0010-0765.

Ohlasy:

1. [1.1] CHEN, Xue - DANG, Thu-Thuy T. - FACCHINI, Peter J. Noscapine comes of age. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2015, vol. 111, no., pp. 7-13., Registrované v: WOS

ADCA1391 UHRÍNOVÁ, Stanislava - UHRÍN, Dušan - LIPTAJ, Tibor - BELLA, Juraj - HIRSCH, Ján. Measurement of one-bond proton-carbon coupling constants of saccharides. In *Magnetic Resonance in Chemistry*, 1991, vol. 29, p. 912-922. ISSN 0749-1581. Dostupné na: <https://doi.org/10.1002/mrc.1260290909>

Ohlasy:

1. [1.1] LAVOIE, Serge - OUELLET, Michael - FLEURY, Pierre-Yves - GAUTHIER, Charles - LEGAULT, Jean - PICHETTE, Andre. Complete H-1 and C-13 NMR assignments of a series of pergalloylated tannins. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2016, vol. 54, no. 2, pp. 168-174., Registrované v: WOS

2. [1.1] NYMAN, Anna Armika T. - AACHMANN, Finn L. - RISE, Frode - BALLANCE, Simon - SAMUELSEN, Anne Berit C. Structural characterization of a branched (1> 6)-alpha-mannan and beta-glucans isolated from the fruiting bodies of *Cantharellus cibarius*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 146, no., pp. 197-207., Registrované v: WOS

3. [1.1] SURUP, Frank - HALECKER, Sandra - NIMTZ, Manfred - RODRIGO, Sara - SCHULZ, Barbara - STEINERT, Michael - STADLER, Marc. Hyfraxins A and B, cytotoxic ergostane-type steroid and lanostane triterpenoid

glycosides from the invasive ash dieback ascomycete *Hymenoscyphus fraxineus*. In *STERIODS*. ISSN 0039-128X, 2018, vol. 135, no., pp. 92-97., Registrované v: WOS

4. [1.1] ZHENG, Xiu-An - WANG, Rui - GONG, Shan-Shan - KONG, Rui - LIU, Rong - SUN, Qi. An efficient and practical synthesis of formylglycinamide ribonucleotide (FGAR). In *NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS*. ISSN 1525-7770, 2018, vol. 37, no. 2, pp. 79-88., Registrované v: WOS

ADCA1392 URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, K.B.R. - HOFF, T. - BIELY, Peter. Structural basis for substrate recognition by *Erwinia chrysanthemi* GH30 glucuronoxylanase. In *FEBS Journal*, 2011, vol. 278, p. 2105-2116. (2010: 3.129 - IF, Q2 - JCR, 1.669 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2011.08127.x>

Ohlasy:

1. [1.1] ARONSSON, A. - GULER, F. - PETOUKHOV, M.V. - CRENNELL, S.J. - SVERGUN, D.I. - LINARES-PASTEN, J.A. - KARLSSON, E.N. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. FEB 2018, vol. 1866, no. 2, p. 292-306., Registrované v: WOS

2. [1.1] BASIT, A. - LIU, J.Q. - RAHIM, K. - JIANG, W. - LOU, H.Q. Thermophilic xylanases: from bench to bottle. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. 2018, vol. 38, no. 7, p. 989-1002., Registrované v: WOS

3. [1.1] BHARDWAJ, Nisha - KUMAR, Bikash - VERMA, Pradeep. A detailed overview of xylanases: an emerging biomolecule for current and future prospective. In *BIORESOURCES AND BIOPROCESSING*, 2019, vol. 6, no. 1, pp.40, Registrované v: WOS

4. [1.1] BHARDWAJ, Nisha - VERMA, Vijay Kumar - CHATURVEDI, Venkatesh - VERMA, Pradeep. Cloning, expression and characterization of a thermo-alkali-stable xylanase from *Aspergillus oryzae* LC1 in *Escherichia coli* BL21(DE3). In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2020, vol. 168, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2019.105551>., Registrované v: WOS

5. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS

6. [1.1] BUSSE-WICHER, M. - GRANTHAM, N.J. - LYCZAKOWSKI, J.J. - NIKOLOVSKI, N. - DUPREE, P. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. FEB 15 2016, vol. 44, 1, p. 74-78., Registrované v: WOS

7. [1.1] BUSSE-WICHER, M. - LI, A. - SILVEIRA, R.L. - PEREIRA, C.S. - TRYFONA, T. - GOMES, T.C.F. - SKAF, M.S. - DUPREE, P. In *PLANT PHYSIOLOGY*. AUG 2016, vol. 171, no. 4, p. 2418-2431., Registrované v:

WOS

8. [1.1] CROOKS, Casey - LONG, Liangkun - ST JOHN, Franz J. CaXyn30B from the solventogenic bacterium *Clostridium acetobutylicum* is a glucuronic acid-dependent endoxylanase. In BMC RESEARCH NOTES, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13104-020-05091-5>., Registrované v: WOS
9. [1.1] DUPREY, Alexandre - TAIB, Najwa - LEONARD, Simon - GARIN, Tiffany - FLANDROIS, Jean-Pierre - NASSER, William - BROCHIER-ARMANET, Celine - REVERCHON, Sylvie. The phytopathogenic nature of *Dickeya aquatica* 174/2 and the dynamic early evolution of *Dickeya* pathogenicity. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2019, vol. 21, no. 8, pp. 2809-2835., Registrované v: WOS
10. [1.1] ESPINOZA, K. - EYZAGUIRRE, J. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In CARBOHYDRATE RESEARCH. OCT 2018, vol. 468, p. 45-50., Registrované v: WOS
11. [1.1] FREIRE, F. - VERMA, A. - BULE, P. - ALVES, V.D. - FONTES, C.M.G.A. - GOYAL, A. - NAJMUDIN, S. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. NOV 2016, vol. 72, no. 11, p. 1162-1173., Registrované v: WOS
12. [1.1] GUO, Y.L. - GAO, Z. - XU, J.X. - CHANG, S.Y. - WU, B. - HE, B.F. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. OCT 1 2018, vol. 117, p. 377-384., Registrované v: WOS
13. [1.1] HAGIWARA, Yusuke - MIHARA, Yasuhiro - SAKAGAMI, Koichi - SAGARA, Ryuta - BAT-ERDENE, Undramaa - YATSUNAMI, Rie - NAKAMURA, Satoshi. Isolation of four xylanases capable of hydrolyzing corn fiber xylan from *Paenibacillus* sp. H2C. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2020, vol. 84, no. 3, pp. 640-650. Dostupné na: <https://doi.org/10.1080/09168451.2019.1693253>., Registrované v: WOS
14. [1.1] JIMENEZ-ORTEGA, Elena - VALENZUELA, Susana - RAMIREZ-ESCUADERO, Mercedes - PASTOR, Francisco Javier - SANZ-APARICIO, Julia. Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 deciphers its molecular specificity. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 24, pp. 5362-5374. Dostupné na: <https://doi.org/10.1111/febs.15332>., Registrované v: WOS
15. [1.1] KARLSSON, E.N. - SCHMITZ, E. - LINARES-PASTEN, J.A. - ADLERCREUTZ, P. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. NOV 2018, vol. 102, no. 21, p. 9081-9088., Registrované v: WOS
16. [1.1] KATSIMPOURAS, Constantinos - DEDES, Grigorios - THOMAIDIS, Nikolaos S. - TOPAKAS, Evangelos. A novel fungal GH30 xylanase with xylobiohydrolase auxiliary activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp. 120, Registrované v: WOS
17. [1.1] LINARES-PASTEN, J.A. - ARONSSON, A. - KARLSSON, E.N. Structural Considerations on the Use of Endo-Xylanases for the Production

- of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. 2018, vol. 19, no. 1, p. 48-67., Registrované v: WOS
18. [1.1] MAEHARA, T. - YAGI, H. - SATO, T. - OHNISHI-KAMEYAMA, M. - FUJIMOTO, Z. - KAMINO, K. - KITAMURA, Y. - ST JOHN, F. - YAOI, K. - KANEKO, S. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. FEB 2018, vol. 84, no. 4., Registrované v: WOS
19. [1.1] MUNK, Line - MUSCHIOLO, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
20. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2019, vol. 85, no. 13, pp.e00552-19, Registrované v: WOS
21. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus *Talaromyces cellulolyticus*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 11, pp. 4065-4078., Registrované v: WOS
22. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus *Talaromyces cellulolyticus*. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2020, vol. 76, no., pp. 341-349. Dostupné na: <https://doi.org/10.1107/S2053230X20009024>., Registrované v: WOS
23. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS
24. [1.1] ST JOHN, F.J. - DIETRICH, D. - CROOKS, C. - BALOGUN, P. - DE SERRANO, V. - POZHARSKI, E. - SMITH, J.K. - BALES, E. - HURLBERT, J. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. MAY 15 2018, vol. 475, 9, p. 1533-1551., Registrované v: WOS
25. [1.1] TEMPLE, Max J. - CUSKIN, Fiona - BASLE, Arnaud - HICKEY, Niall - SPECIALE, Gaetano - WILLIAMS, Spencer J. - GILBERT, Harry J. - LOWE, Elisabeth C. A *Bacteroides* locus dedicated to fungal 1,6--glucan degradation: Unique substrate conformation drives specificity of the key endo-1,6--glucanase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 25, pp. 10639-10650., Registrované v: WOS

26. [1.1] VALLS, A. - DIAZ, P. - PASTOR, F.I.J. - VALENZUELA, S.V. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. FEB 2016, vol. 100, no. 4, p. 1743-1751., Registrované v: WOS
27. [1.1] VERMA, A.K. - GOYAL, A. In JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC. JUL 2016, vol. 129, p. 6-14., Registrované v: WOS
28. [1.1] WANG, Ruijun - LIU, Zhengchu - CHENG, Lifeng - DUAN, Shengwen - FENG, Xiangyuan - ZHENG, Ke - CHENG, Yi - ZENG, Jie. A novel endo-beta-1,4-xylanase GH30 from Dickeya dadantii DCE-01: Clone, expression, characterization, and ramie biological degumming function. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2019, vol. 89, no. 4, pp. 463-472., Registrované v: WOS
29. [1.2] PADILHA, Itácio Q.M. - VALENZUELA, Susana V. - GRISI, Teresa C.S.L. - DIAZ, Pilar - DE ARAÚJO, Demetrius A.M. - JAVIER PASTOR, Francisco I. A glucuronoxylan-specific xylanase from a new Paenibacillus favisporus strain isolated from tropical soil of Brazil. In International Microbiology. ISSN 11396709, 2015-01-01, 17, 3, pp. 175-184., Registrované v: SCOPUS
30. [1.2] ST JOHN, Franz J. - CROOKS, Casey - DIETRICH, Diane - HURLBERT, Jason. Xylanase 30 A from Clostridium thermocellum functions as a glucuronoxylan xylanohydrolase. In Journal of Molecular Catalysis B: Enzymatic. ISSN 13811177, 2016-11-08, 133, pp. S445-S451., Registrované v: SCOPUS

ADCA1393 VAAJE-KOLSTAD, G. - FARKAŠ, Vladimír - FINCHER, G.B. - HRMOVÁ, Mária. Barley xyloglucan xyloglucosyl transferases bind xyloglucan-derived oligosaccharides in their acceptor-binding regions in multiple conformational states. In *Archives of Biochemistry and Biophysics*, 2010, vol. 496, p. 61-68. (2009: 3.046 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0003-9861. Dostupné na: <https://doi.org/10.1016/j.abb.2010.01.011>

Ohlasy:

1. [1.1] KONGTAWORN, Napat - HIRUN, Namon - TANTISHAIYAKUL, Vimom - RUNGROTMONGKOL, Thanyada - DOKMAISRIJAN, Supaporn. Molecular Aggregation of Four Modified Xyloglucan Models in Aqueous Solution. In CHIANG MAI JOURNAL OF SCIENCE. ISSN 0125-2526, 2018, vol. 45, no. 5, pp. 2201-2210., Registrované v: WOS

ADCA1394 VAAJE-KOLSTAD, G. - FARKAŠ, Vladimír - HRMOVÁ, Mária - FINCHER, G.B. Xyloglucan xyloglucosyl transferases from barley (*Hordeum vulgare* L.) bind oligomeric and polymeric xyloglucan molecules in their acceptor binding sites. In *Biochimica et Biophysica Acta : general subjects*, 2010, vol. 1800, p. 674-684. (2009: 2.958 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, Current Contents - CCC). (2010 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2010.04.001>

Ohlasy:

1. [1.1] CASTRO, Ricardo I. - MORALES-QUINTANA, Luis. Study of the cell wall components produced during different ripening stages through thermogravimetric analysis. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26,

no. 5, pp. 3009-3020., Registrované v: WOS

2. [1.1] MENDEZ-YANEZ, Angela - BELTRAN, Dina - CAMPANO-ROMERO, Constanza - MOLINETT, Sebastian - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria - MORALES-QUINTANA, Luis.

Glycosylation is important for FcXTH1 activity as judged by its structural and biochemical characterization. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 119, no., pp. 200-210., Registrované v: WOS

3. [1.1] VALENZUELA-RIFFO, Felipe - RAMOS, Patricio - MORALES-QUINTANA, Luis. Computational study of FaEXPA1, a strawberry alpha expansin protein, through molecular modeling and molecular dynamics simulation studies. In *COMPUTATIONAL BIOLOGY AND CHEMISTRY*. ISSN 1476-9271, 2018, vol. 76, no., pp. 79-86., Registrované v: WOS

4. [1.1] VALENZUELA-RIFFO, Felipe - GAETE-EASTMAN, Carlos - STAPPUNG, Yazmina - LIZANA, Rodrigo - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria - MORALES-QUINTANA, Luis. Comparative in silico study of the differences in the structure and ligand interaction properties of three alpha-expansin proteins from *Fragaria chiloensis* fruit. In *JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*. ISSN 0739-1102, 2019, vol. 37, no. 12, pp. 3245-3258., Registrované v: WOS

5. [1.1] VALENZUELA-RIFFO, Felipe - MORALES-QUINTANA, Luis. Study of the structure and binding site features of FaEXPA2, an alpha-expansin protein involved in strawberry fruit softening. In *COMPUTATIONAL BIOLOGY AND CHEMISTRY*. ISSN 1476-9271, 2020, vol. 87, no., pp. Dostupné na:

<https://doi.org/10.1016/j.compbiolchem.2020.107279>., Registrované v: WOS

ADCA1395 VACULÍK, Marek** - LUKAČOVÁ, Zuzana - BOKOR, Boris - MARTINKA, Michal - TRIPATHI, Durgesh Kumar - LUX, Alexander. Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In *Journal of Experimental Botany*, 2020, vol. 71, no. 21, p. 6744-6757. (2019: 5.908 - IF, Q1 - JCR, 2.647 - SJR, Q1 - SJR, Current Contents - CCC). (2020 - Current Contents). ISSN 0022-0957. Dostupné na: <https://doi.org/10.1093/jxb/eraa288>

Ohlasy:

1. [1.1] GOMEZ-MERINO, F.C. - TREJO-TELLEZ, L.I. - GARCIA-JIMENEZ, A. - ESCOBAR-SEPULVEDA, H.F. - RAMIREZ-OLVERA, S.M. Silicon flow from root to shoot in pepper: a comprehensive in silico analysis reveals a potential linkage between gene expression and hormone signaling that stimulates plant growth and metabolism. In *PEERJ*. ISSN 2167-8359, NOV 4 2020, vol. 8., Registrované v: WOS

2. [1.1] VEGA, I. - RUMPEL, C. - RUIZ, A. - MORA, M.D. - CALDERINI, D.F. - CARTES, P. Silicon Modulates the Production and Composition of Phenols in Barley under Aluminum Stress. In *AGRONOMY-BASEL*. AUG 2020, vol. 10, no. 8., Registrované v: WOS

ADCA1396 VACULÍK, Marek - LUX, Alexander - LUXOVÁ, Miroslava - TANIMOTO, Eiichi - LICHTSCHEIDL, Irene. Silicon mitigates cadmium inhibitory effects in young maize plants. In *Environmental and Experimental Botany*, 2009, vol. 67, no. 1, p. 52-58. (2008: 2.301 - IF, Q1 - JCR, 0.963 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents, SCOPUS, GEOBASE,

BIOSIS). ISSN 0098-8472. Dostupné na:
<https://doi.org/10.1016/j.envexpbot.2009.06.012>

Ohlasy:

1. [1.1] ADHIKARI, A. - KHAN, M.A. - LEE, K.E. - KANG, S.M. - DHUNGANA, S.K. - BHUSAL, N. - LEE, I.J. The Halotolerant Rhizobacterium-Pseudomonas koreensis MU2 Enhances Inorganic Silicon and Phosphorus Use Efficiency and Augments Salt Stress Tolerance in Soybean (*Glycine max* L.). In MICROORGANISMS. SEP 2020, vol. 8, no. 9., Registrované v: WOS
2. [1.1] ADREES, Muhammad - ALI, Shafaqat - RIZWAN, Muhammad - ZIA-UR-REHMAN, Muhammad - IBRAHIM, Muhammad - ABBAS, Farhat - FARID, Mujahid - QAYYUM, Muhammad Farooq - IRSHAD, Muhammad Kashif. Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2015, vol. 119, no., pp. 186-197., Registrované v: WOS
3. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. Tolerance and potential for bioaccumulation of *Alternanthera tenella* Colla to cadmium under in vitro conditions. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
4. [1.1] ASHKAVAND, Peyman - ZARAFSHAR, Mehrdad - TABARI, Masoud - MIRZAIE, Javad - NIKPOUR, Amirreza - BORDBAR, Seyed Kazem - STRUVE, Daniel - GABRIEL STRIKER, Gustavo. APPLICATION OF SiO₂ NANOPARTICLES AS PRETREATMENT ALLEVIATES THE IMPACT OF DROUGHT ON THE PHYSIOLOGICAL PERFORMANCE OF PRUNUS MAHALEB (ROSACEAE). In BOLETIN DE LA SOCIEDAD ARGENTINA DE BOTANICA. ISSN 1851-2372, 2018, vol. 53, no. 2, pp. 207-219., Registrované v: WOS
5. [1.1] BABU, Tapasya - NAGABOVANALLI, Prakash. Effect of silicon amendment on soil-cadmium availability and uptake in rice grown in different moisture regimes. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2017, vol. 40, no. 17, pp. 2440-2457., Registrované v: WOS
6. [1.1] BECKER, M. - NGO, N.S. - SCHENK, M.K.A. Silicon reduces the iron uptake in rice and induces iron homeostasis related genes. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 19 2020, vol. 10, no. 1., Registrované v: WOS
7. [1.1] COLZI, Ilaria - PIGNATTELLI, Sara - GIORNI, Elisabetta - PAPINI, Alessio - GONNELLI, Cristina. Linking root traits to copper exclusion mechanisms in *Silene paradoxa* L. (Caryophyllaceae). In PLANT AND SOIL. ISSN 0032-079X, 2015, vol. 390, no. 1-2, pp. 1-15., Registrované v: WOS
8. [1.1] COOKE, Julia - LEISHMAN, Michelle R. Consistent alleviation of abiotic stress with silicon addition: a meta-analysis. In FUNCTIONAL ECOLOGY. ISSN 0269-8463, 2016, vol. 30, no. 8, pp. 1340-1357., Registrované v: WOS
9. [1.1] DELPLACE, G. - SCHRECK, E. - POKROVSKY, O.S. - ZOUITEN, C. - BLONDET, I. - DARROZES, J. - VIERS, J. Accumulation of heavy metals in phytoliths from reeds growing on mining environments in Southern Europe. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN

- 0048-9697, APR 10 2020, vol. 712., Registrované v: WOS
10. [1.1] DONG, Qiyu - FANG, Jianbo - HUANG, Fei - CAI, Kunzheng. Silicon Amendment Reduces Soil Cd Availability and Cd Uptake of Two Pennisetum Species. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. ISSN 1661-7827, 2019, vol. 16, no. 9, pp., Registrované v: WOS
11. [1.1] DRESLER, S. - WOJCIK, M. - BEDNAREK, W. - HANAKA, A. - TUKIENDORF, A. The effect of silicon on maize growth under cadmium stress. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2015, vol. 62, no. 1, pp. 86-92., Registrované v: WOS
12. [1.1] EMAMVERDIAN, A. - DING, Y.L. - MOKHBERDORAN, F. - AHMAD, Z. - XIE, Y.F. Determination of heavy metal tolerance threshold in a bamboo species (*Arundinaria pygmaea*) as treated with silicon dioxide nanoparticles. In GLOBAL ECOLOGY AND CONSERVATION. ISSN 2351-9894, DEC 2020, vol. 24., Registrované v: WOS
13. [1.1] ETESAMI, Hassan. Can interaction between silicon and plant growth promoting rhizobacteria benefit in alleviating abiotic and biotic stresses in crop plants? In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. ISSN 0167-8809, 2018, vol. 253, no., pp. 98-112., Registrované v: WOS
14. [1.1] FARID, M. - ALI, S. - ISHAQUE, W. - SHAKOOR, M. B. - NIAZI, N. K. - BIBI, I. - DAWOOD, M. - GILL, R. A. - ABBAS, F. Exogenous application of ethylenediamminetetraacetic acid enhanced phytoremediation of cadmium by *Brassica napus* L. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2015, vol. 12, no. 12, pp. 3981-3992., Registrované v: WOS
15. [1.1] FAROOQ, Muhammad Ansar - DETTERBECK, Amelie - CLEMENS, Stephan - DIETZ, Karl-Josef. Silicon-induced reversibility of cadmium toxicity in rice. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2016, vol. 67, no. 11, pp. 3573-3585., Registrované v: WOS
16. [1.1] FENG, Juanjuan - JIA, Weitao - LV, Sulian - BAO, Hexigeduleng - MIAO, Fangfang - ZHANG, Xuan - WANG, Jinhui - LI, Jihong - LI, Dongsheng - ZHU, Cheng - LI, Shizhong - LI, Yinxin. Comparative transcriptome combined with morpho-physiological analyses revealed key factors for differential cadmium accumulation in two contrasting sweet sorghum genotypes. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2018, vol. 16, no. 2, pp. 558-571., Registrované v: WOS
17. [1.1] GAO Zi-xiang; ZHOU Hang; YANG Wen-tao; GU Jiao-feng; ChEN Li-wei; DU Wen-qi; XU Jun; LIAO Bo-han. Impacts of Silicon Fertilizer as Base Manure on Cadmium Bioavailability in Soil and on Cadmium Accumulation in Rice Plants. IN Huanjing Kexue Huanjing Kexue, 2017, vol. 38, issue 12, p. 5299-5307, Registrované v: WOS
18. [1.1] GAO, Wei - ZHAO, Peng - SUI, Fuqing - LIU, Hongen - FU, Haichao. Influence of Soil Amendments on Uptake and Accumulation of Cd and Pb in Maize (*Zea mays* L.). In ENVIRONMENTAL ENGINEERING SCIENCE. ISSN 1092-8758, 2018, vol. 35, no. 3, pp. 194-202., Registrované v: WOS
19. [1.1] GENISEL, M. - DEMIR, Y. - GORCEK, Z. - TURK, H. - YANMIS, D. - KARAMAN, A. - GENC, E. - KHOSROUSHAH, F. K. EFFECT OF LEAD STRESS ON ANTIOXIDANT MECHANISM AND DNA PROFILE IN DIFFERENT WHEAT CULTIVARS. In JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY. ISSN 1311-5065, 2015,

vol. 16, no. 4, pp. 1282-1296., Registrované v: WOS

20. [1.1] GUO, Bin - LIU, Chen - DING, Nengfei - FU, Qinglin - LIN, Yicheng - LI, Hua - LI, Ningyu. Silicon Alleviates Cadmium Toxicity in Two Cypress Varieties by Strengthening the Exodermis Tissues and Stimulating Phenolic Exudation of Roots. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2016, vol. 35, no. 2, pp. 420-429.,

Registrované v: WOS

21. [1.1] HINRICHS, Martin - FLECK, Alexander T. - BIEDERMANN, Eline - NGO, Ngoc S. - SCHREIBER, Lukas - SCHENK, Manfred K. An ABC Transporter Is Involved in the Silicon-Induced Formation of Casparian Bands in the Exodermis of Rice. In FRONTIERS IN PLANT SCIENCE. ISSN

1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

22. [1.1] HUANG, Y. C. - CHEN, H. - ZHAO, W. J. - LI, W. D. - YANG, H. Y. - SUN, Y. - WANG, L. - CAO, S. H. Silicon-mediated alleviation of Cadmium toxicity on *Thujopsis dolabrata*. In PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY. ISSN 1851-5657, 2016, vol. 85, no., pp. 283-290., Registrované v: WOS

23. [1.1] HU, Y.H. - WANG, Y.C. - LIANG, Y.F. - GUO, J. - GONG, H.J. - XU, Z.M. Silicon alleviates mercury toxicity in garlic plants. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, OCT 1 2020, vol. 43, no. 16, p. 2508-2517., Registrované v: WOS

24. [1.1] ISFAHANI, Faranak Moshabaki - TAHMOURESPOUR, Arezoo - HOODAJI, Mehran - ATAABADI, Mitra - MOHAMMADI, Ahmad. Influence of Exopolysaccharide-Producing Bacteria and SiO₂ Nanoparticles on Proline Content and Antioxidant Enzyme Activities of Tomato Seedlings (*Solanum lycopersicum* L.) under Salinity Stress. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2019, vol. 28, no. 1, pp. 153-163., Registrované v: WOS

25. [1.1] JI, Xionghui - LIU, Saihua - HUANG, Juan - BOCHARNIKOVA, Elena - MATICHENKOV, Vladimir. Monosilicic acid potential in phytoremediation of the contaminated areas. In CHEMOSPHERE. ISSN 0045-6535, 2016, vol. 157, no., pp. 132-136., Registrované v: WOS

26. [1.1] KANG, JianJun - ZHAO, WenZhi - ZHAO, Ming - ZHENG, Ying - YANG, Fan. NaCl and Na₂SiO₃ coexistence strengthens growth of the succulent xerophyte *Nitraria tangutorum* under drought. In PLANT GROWTH REGULATION. ISSN 0167-6903, 2015, vol. 77, no. 2, pp. 223-232.,

Registrované v: WOS

27. [1.1] KAYA, Cengiz - AKRAM, Nudrat Aisha - SURUCU, Abdulkadir - ASHRAF, Muhammad. Alleviating effect of nitric oxide on oxidative stress and antioxidant defence system in pepper (*Capsicum annum* L.) plants exposed to cadmium and lead toxicity applied separately or in combination. In SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2019, vol. 255, no., pp. 52-60., Registrované v: WOS

28. [1.1] KELLER, C. - RIZWAN, M. - DAVIDIAN, J.C. - POKROVSKY, O. S. - BOVET, N. - CHAURAND, P. - MEUNIER, J.D. Effect of silicon on wheat seedlings (*Triticum turgidum* L.) grown in hydroponics and exposed to 0 to 30 μ M Cu. In PLANTA. ISSN 0032-0935, 2015, vol. 241, no. 4, pp. 847-860., Registrované v: WOS

29. [1.1] KHALIQ, Ammara - ALI, Shafaqat - HAMEED, Amjad - FAROOQ, Muhammad Ahsan - FARID, Mujahid - SHAKOOR, Muhammad

- Bilal - MAHMOOD, Khalid - ISHAQUE, Wajid - RIZWAN, Muhammad. Silicon alleviates nickel toxicity in cotton seedlings through enhancing growth, photosynthesis, and suppressing Ni uptake and oxidative stress. In ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2016, vol. 62, no. 5, pp. 633-647., Registrované v: WOS
30. [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS
31. [1.1] KRESZIES, T. - KRESZIES, V. - LY, F. - THANGAMANI, P.D. - SHELLAKKUTTI, N. - SCHREIBER, L. Suberized transport barriers in plant roots: the effect of silicon. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6799-6806., Registrované v: WOS
32. [1.1] LIN, Hongmei - FANG, Changxun - LI, Yingzhe - LIN, Weiwei - HE, Jianyu - LIN, Ruiyu - LIN, Wenxiong. Cadmium-stress mitigation through gene expression of rice and silicon addition. In PLANT GROWTH REGULATION. ISSN 0167-6903, 2017, vol. 81, no. 1, pp. 91-101., Registrované v: WOS
33. [1.1] LIU, Hongying - GUO, Shanshan - JIA, Zhilei - HAN, Yue - HE, Qi - XU, Heng. Alleviating the toxicity of heavy metals by combined amendments in cultivated bag of Pleurotus cornucopiae. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2015, vol. 22, no. 21, pp. 17182-17191., Registrované v: WOS
34. [1.1] LIU, H.B. - MENCHYK, N. - BETHEA, F. - BALDWIN, C. - TAYLOR, J. - PATRICK, C. Turfgrass Nutrient Management under Stresses A Part of Integrated Stress Management. In HANDBOOK OF PLANT AND CROP STRESS, 4TH EDITION. 2020, p. 293-313., Registrované v: WOS
35. [1.1] LIU, H.B. - MENCHYK, N. - BETHEA, F. - BALDWIN, C. - TAYLOR, J. - PATRICK, C. Nutrient Management of Golf Course Putting Greens under Stress. In HANDBOOK OF PLANT AND CROP STRESS, 4TH EDITION. 2020, p. 315-341., Registrované v: WOS
36. [1.1] LIU, Y.K. - TAO, Q. - GUO, X.Y. - LUO, J.P. - LI, J.X. - LIANG, Y.C. - LI, T.Q. Low calcium-induced delay in development of root apoplastic barriers enhances Cd uptake and accumulation in Sedum alfredii. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JUN 25 2020, vol. 723., Registrované v: WOS
37. [1.1] LU YINGANG - MA JUN - TENG YING - HE JUNYU - CHRISTIE, Peter - ZHU LINGJIA - REN WENJIE - ZHANG MANYUN - DENG, Shiping. Effect of Silicon on Growth, Physiology, and Cadmium Translocation of Tobacco (Nicotiana tabacum L.) in Cadmium-Contaminated Soil. In PEDOSPHERE. ISSN 1002-0160, 2018, vol. 28, no. 4, pp. 680-689., Registrované v: WOS
38. [1.1] LU, Huanping - LI, Zhian - WU, Jingtao - SHEN, Yong - LI, Yingwen - ZOU, Bi - TANG, Yetao - ZHUANG, Ping. Influences of calcium silicate on chemical forms and subcellular distribution of cadmium in Amaranthus hypochondriacus L. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
39. [1.1] MAGHSOUDI, K. - ARVIN, M.J. - ASHRAF, M. Mitigation of

Arsenic Toxicity in Wheat by the Exogenously Applied Salicylic Acid, 24-Epi-Brassinolide and Silicon. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9508, JUN 2020, vol. 20, no. 2, p. 577-588., Registrované v: WOS

40. [1.1] MAJUMDAR, S. - PRAKASH, N.B. An Overview on the Potential of Silicon in Promoting Defence Against Biotic and Abiotic Stresses in Sugarcane. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9508, DEC 2020, vol. 20, no. 4, p. 1969-1998., Registrované v: WOS

41. [1.1] MAQBOOL, Arosha - RIZWAN, Muhammad - ALI, Shafaqat - ZIA-UR-REHMAN, Muhammad. Plant Nutrients and Cadmium Stress Tolerance. In CADMIUM TOLERANCE IN PLANTS: AGRONOMIC, MOLECULAR, SIGNALING, AND OMIC APPROACHES, 2019, vol., no., pp. 319-333., Registrované v: WOS

42. [1.1] MATICHENKOV, V. V. - BOCHARNIKOVA, E. A. - PAHNENKO, E. P. - KHOMIAKOV, D. M. - MATICHENKOV, I. V. - QIANG, Zhan - XIAO, Wei. Reduction of Cd, Cu, Ni, and Pb Mobility by Active Si in a Laboratory Study. In MINE WATER AND THE ENVIRONMENT. ISSN 1025-9112, 2016, vol. 35, no. 3, pp. 302-309., Registrované v: WOS

43. [1.1] MUNEEER, Sowbiya - JEONG, Byoung Ryong. Silicon Decreases Fe Deficiency Responses by Improving Photosynthesis and Maintaining Composition of Thylakoid Multiprotein Complex Proteins in Soybean Plants (*Glycine max* L.). In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2015, vol. 34, no. 3, pp. 485-498., Registrované v: WOS

44. [1.1] NAEEM, Asif - SAIFULLAH - ZIA-UR-REHMAN, Muhammad - AKHTAR, Tasneem - ZIA, Munir Hussain - ASLAM, Muhammad. Silicon nutrition lowers cadmium content of wheat cultivars by regulating transpiration rate and activity of antioxidant enzymes. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2018, vol. 242, no., pp. 126-135., Registrované v: WOS

45. [1.1] PANAHI, Abolghasem - AMINPANAHI, Hashem - SHARIFI, Peyman. Effect of Nitrogen, Bio-Fertilizer, and Silicon Application on Yield and Yield Components of Rice (*Oryza sativa* L.). In Philippine Journal of Crop Science. ISSN 0115-463X, 2015, vol. 40, no. 1, pp. 76-81., Registrované v: WOS

46. [1.1] PEREIRA, Talitha Soares - PEREIRA, Thais Soares - FIGUEREDO DE CARVALHO SOUZA, Carla Leticia - ALVINO LIMA, Emily Juliane - BATISTA, Bruno Lemos - DA SILVA LOBATO, Allan Klynger. Silicon deposition in roots minimizes the cadmium accumulation and oxidative stress in leaves of cowpea plants. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2018, vol. 24, no. 1, pp. 99-114., Registrované v: WOS

47. [1.1] RAHMAN, S.H.U. - QI, X. - ZHANG, Z. - ASHRAF, M.N. - DU, Z. - ZHONG, Y.L. - MEHMOOD, F. - RAHMAN, S.U. - SHEHZAD, M. THE EFFECT OF SILICON FOLIAR AND ROOT APPLICATION ON GROWTH, PHYSIOLOGY, AND ANTIOXIDANT ENZYME ACTIVITY OF WHEAT PLANTS UNDER CADMIUM TOXICITY. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2020, vol. 18, no. 2, p. 3349-3371., Registrované v: WOS

48. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM, Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad -

- ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (*Zea mays* L.) for phytomanagement of Cd-contaminated soils: a critical review. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS
49. [1.1] RIZWAN, M. - MEUNIER, J.D. - DAVIDIAN, J.C. - POKROVSKY, O. S. - BOVET, N. - KELLER, C. Silicon alleviates Cd stress of wheat seedlings (*Triticum turgidum* L. cv. Claudio) grown in hydroponics. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 2, pp. 1414-1427., Registrované v: WOS
50. [1.1] SAHEBI, Mahbod - HANAFI, Mohamed M. - AKMAR, Abdullah Siti Nor - RAFII, Mohd Y. - AZIZI, Parisa - TENGOUA, F. F. - AZWA, Jamaludin Nurul Mayzaitul - SHABANIMOFRAD, M. Importance of Silicon and Mechanisms of Biosilica Formation in Plants. In Biomed Research International. ISSN 2314-6133, 2015, vol., no., pp., Registrované v: WOS
51. [1.1] SAHEBI, Mahbod - HANAFI, Mohamed M. - AZIZI, Parisa. Application of silicon in plant tissue culture. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT. ISSN 1054-5476, 2016, vol. 52, no. 3, pp. 226-232., Registrované v: WOS
52. [1.1] SHABAYEV, V.P. - BOCHARNIKOVA, E.A. - OSTROUMOV, V.E. Remediation of Cadmium-Polluted Soil Using Plant Growth-Promoting Rhizobacteria and Natural Zeolite. In EURASIAN SOIL SCIENCE. ISSN 1064-2293, JUN 2020, vol. 53, no. 6, p. 809-819., Registrované v: WOS
53. [1.1] SHAO, Ji Feng - CHE, Jing - YAMAJI, Naoki - SHEN, Ren Fang - MA, Jian Feng. Silicon reduces cadmium accumulation by suppressing expression of transporter genes involved in cadmium uptake and translocation in rice. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 20, pp. 5641-5651., Registrované v: WOS
54. [1.1] SHI, Gangrong - ZHANG, Zheng - LIU, Caifeng. Silicon influences cadmium translocation by altering subcellular distribution and chemical forms of cadmium in peanut roots. In ARCHIVES OF AGRONOMY AND SOIL SCIENCE. ISSN 0365-0340, 2017, vol. 63, no. 1, pp. 117-123., Registrované v: WOS
55. [1.1] SHI, Zhenya - YANG, Suqin - HAN, Dan - ZHOU, Zhen - LI, Xuanzhen - LIU, Ye - ZHANG, Biao. Silicon alleviates cadmium toxicity in wheat seedlings (*Triticum aestivum* L.) by reducing cadmium ion uptake and enhancing antioxidative capacity. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 8, pp. 7638-7646., Registrované v: WOS
56. [1.1] SIDDIQUI, H. - YUSUF, M. - FARAZ, A. - FAIZAN, M. - SAMI, F. - HAYAT, S. 24-Epibrassinolide supplemented with silicon enhances the photosynthetic efficiency of *Brassica juncea* under salt stress. In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2018, vol. 118, no., pp. 120-128., Registrované v: WOS
57. [1.1] SOHAIL, M.I. - REHMAN, M.Z.U. - RIZWAN, M. - YOUSAF, B. - ALI, S. - UL HAQ, M.A. - ANAYAT, A. - WARIS, A.A. Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. In CHEMOSPHERE. ISSN 0045-6535, APR 2020, vol. 244., Registrované v: WOS
58. [1.1] STERCKEMAN, T. - THOMINE, S. Mechanisms of Cadmium

- Accumulation in Plants. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, JUL 3 2020, vol. 39, no. 4, p. 322-359., Registrované v: WOS
59. [1.1] TIAN, J. - LIU, F.W. - FAN, W.H. - JIA, X.R. - WANG, G.L. Effect of Silicon on Cadmium Absorption of Cucumber Organs in Calcareous Soil. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, JUL 16 2020, vol. 231, no. 7., Registrované v: WOS
60. [1.1] VEGA, Isis - NIKOLIC, Miroslav - PONTIGO, Sofia - GODOY, Karina - DE LA LUZ MORA, Maria - CARTES, Paula. Silicon Improves the Production of High Antioxidant or Structural Phenolic Compounds in Barley Cultivars under Aluminum Stress. In AGRONOMY-BASEL, 2019, vol. 9, no. 7, pp., Registrované v: WOS
61. [1.1] WANG, Meng - CHEN, Shibao - WANG, Duo - CHEN, Li. Agronomic Management for Cadmium Stress Mitigation. In CADMIUM TOLERANCE IN PLANTS: AGRONOMIC, MOLECULAR, SIGNALING, AND OMIC APPROACHES, 2019, vol., no., pp. 69-112., Registrované v: WOS
62. [1.1] WANG, Xun - TAM, Nora Fung-Yee - HE, Huaidong - YE, Zhihong. The role of root anatomy, organic acids and iron plaque on mercury accumulation in rice. In PLANT AND SOIL. ISSN 0032-079X, 2015, vol. 394, no. 1-2, pp. 301-313., Registrované v: WOS
63. [1.1] WANG, Yichao - HU, Yanhong - DUAN, Yaoke - FENG, Ru - GONG, Haijun. Silicon reduces long-term cadmium toxicities in potted garlic plants. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2016, vol. 38, no. 8, pp., Registrované v: WOS
64. [1.1] WANG, Zhaofeng - LI, Qien - WU, Weiguo - GUO, Jie - YANG, Yingli. Cadmium stress tolerance in wheat seedlings induced by ascorbic acid was mediated by NO signaling pathways. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2017, vol. 135, no., pp. 75-81., Registrované v: WOS
65. [1.1] WEI XIAO - LIU YUQIAO - ZHAN QIANG - MATICHENKOV, Vladimir - BOCHARNIKOVA, Elena - DASTOL, Magne. Efficacy of Si fertilization to modulate the heavy metals absorption by barley (*Hordeum vulgare* L.) and pea (*Pisum sativum* L.). In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2016, vol. 23, no. 20, pp. 20402-20407., Registrované v: WOS
66. [1.1] WU, Jiawen - GUO, Jia - HU, Yanhong - GONG, Haijun. Distinct physiological responses of tomato and cucumber plants in silicon-mediated alleviation of cadmium stress. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
67. [1.1] XU, L. L. - FAN, Z. Y. - DONG, Y. J. - KONG, J. - BAI, X. Y. Effects of exogenous salicylic acid and nitric oxide on physiological characteristics of two peanut cultivars under cadmium stress. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2015, vol. 59, no. 1, pp. 171-182., Registrované v: WOS
68. [1.1] XU, Wending - LU, Guining - WANG, Rui - GUO, Chuling - LIAO, Changjun - YI, Xiaoyun - DANG, Zhi. The Effect of Pollination on Cd Phytoextraction From Soil by Maize (*Zea mays* L.). In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2015, vol. 17, no. 10, pp. 945-950., Registrované v: WOS
69. [1.1] YANG, J.S. - DAI, Y.J. - LIU, Y.J. - DUAN, S.H. - LI, Y.Y. - HU, R.S. - ZHOU, Z.C. - SHI, Y. - LIU, H.W. - WANG, S.S. Reduced cadmium

- accumulation in tobacco by sodium chloride priming. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, OCT 2020, vol. 27, no. 30, p. 37410-37418., Registrované v: WOS
70. [1.1] YU QIONG - GUO YUAN - XIE ZHIXIA - SUN KE - XU JIN - YANG TING - LIU XIAOJING. EFFECTS OF SALT STRESS ON TILLERING NODES TO THE GROWTH OF WINTER WHEAT (*TRITICUM AESTIVUM* L.). In PAKISTAN JOURNAL OF BOTANY. ISSN 0556-3321, 2016, vol. 48, no. 5, pp. 1775-1782., Registrované v: WOS
71. [1.1] YU, Huan-Yun - DING, Xiaodong - LI, Fangbai - WANG, Xiangqin - ZHANG, Shirong - YI, Jicai - LIU, Chuanping - XU, Xianghua - WANG, Qi. The availabilities of arsenic and cadmium in rice paddy fields from a mining area: The role of soil extractable and plant silicon. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2016, vol. 215, no., pp. 258-265., Registrované v: WOS
72. [1.1] ZANG, Fei - WANG, Shengli - NAN, Zhongren - MA, Jianmin - ZHANG, Qian - CHEN, Yazhou - LI, Yepu. Accumulation, spatio-temporal distribution, and risk assessment of heavy metals in the soil-corn system around a polymetallic mining area from the Loess Plateau, northwest China. In GEODERMA. ISSN 0016-7061, 2017, vol. 305, no., pp. 188-196., Registrované v: WOS
73. [1.1] ZEHRA, A. - CHOUDHARY, S. - WANI, K.I. - NAEEM, M. - KHAN, M.M.A. - AFTAB, T. Silicon-mediated cellular resilience mechanisms against copper toxicity and glandular trichomes protection for augmented artemisinin biosynthesis in *Artemisia annua*. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, NOV 1 2020, vol. 155., Registrované v: WOS
74. [1.2] BOCHARNIKOVA, E. A. - SHABAYEV, V. P. - OSTROUMOV, V. E. - DEMIN, D. V. Natural zeolites: Prospects for heavy metal polluted soil remediation. In IOP Conference Series: Materials Science and Engineering. ISSN 17578981, 2020-09-10, 921, 1, pp. Dostupné na: <https://doi.org/10.1088/1757-899X/921/1/012003>., Registrované v: SCOPUS
75. [1.2] DORNELES, Athos Odin Severo - PEREIRA, Aline Soares - POSSEBOM, Gessieli - TAROUÇO, Camila Peligrinotti - ROSSATO, Liana Veronica - TABALDI, Luciane Almeri. Ameliorate the cadmium toxicity in *solanum tuberosum* L. Plants with selenium and silicon application. In Advances in Horticultural Science. ISSN 03946169, 2019-01-01, 33, 1, pp. 49-56., Registrované v: SCOPUS
76. [1.2] IMTIAZ, Muhammad - RIZWAN, Muhammad Shahid - MUSHTAQ, Muhammad Adnan - ASHRAF, Muhammad - SHAHZAD, Sher Muhammad - YOUSAF, Balal - SAEED, Dawood Anser - RIZWAN, Muhammad - NAWAZ, Muhammad Azher - MEHMOOD, Sajid - TU, Shuxin. Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. In Journal of Environmental Management. ISSN 03014797, 2016-12-01, 183, pp. 521-529., Registrované v: SCOPUS
77. [1.2] IVANOV, Anatoly A. - KOSOBRYUKHOV, Anatoly A. Ecophysiology of plants under cadmium toxicity: Photosynthetic and physiological responses. In Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I: General Consequences and Plant Responses, 2020-01-01, pp. 429-484. Dostupné na: https://doi.org/10.1007/978-981-15-2156-0_15., Registrované v: SCOPUS

78. [1.2] LIAO, Xiong Hui - LONG, Qin - WANG, Hui Qun - YI, Zi Li - XUE, Shuai. Interaction effects of Miscanthus lutarioriparius-derived biochar and cadmium passivators on rice cadmium content and yield. In Journal of Agro-Environment Science. ISSN 16722043, 2018-01-01, 37, 9, pp. 1818-1826., Registrované v: SCOPUS
79. [1.2] LIU, Cai Feng - SHI, Gang Rong - YU, Ru Gang - ZHANG, Zheng. Eco-physiological mechanisms of silicon-induced alleviation of cadmium toxicity in plants: A review. In Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2017-01-01, 37, 23, pp. 7799-7810., Registrované v: SCOPUS
80. [1.2] LIU, Haibo - MENCHYK, Nick - BETHEA, Frank - BALDWIN, Christian. Nutrient management of golf course putting greens under stresses. In Handbook of Plant and Crop Stress, Third Edition, 2016-04-19, pp. 987-1015., Registrované v: SCOPUS
81. [1.2] LIU, Haibo - MENCHYK, Nick - BETHEA, Frank - BALDWIN, Christian. Turfgrass nutrient management under stresses: A part of integrated stress management. In Handbook of Plant and Crop Stress, Third Edition, 2016-04-19, pp. 963-986., Registrované v: SCOPUS
82. [1.2] MALHOTRA, Chanchal - KAPOOR, Riti Thapar. Silicon: A sustainable tool in abiotic stress tolerance in plants. In Plant Abiotic Stress Tolerance: Agronomic, Molecular and Biotechnological Approaches, 2019-04-04, pp. 333-356., Registrované v: SCOPUS
83. [1.2] WANG, Xiao Juan - WANG, Wen Bin - YANG, Long - JIN, Liang - SONG, Yu - JIANG, Shao Jun - QIN, Lan Lan. Transport pathways of cadmium (Cd) and its regulatory mechanisms in plant. In Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2015-01-01, 35, 23, pp. 7921-7929., Registrované v: SCOPUS
84. [1.2] ZHANG, Qiong - LIU, Jingchun - LU, Haoliang - ZHAO, Suzheng - WANG, Wenyun - DU, Jingna - YAN, Chongling. Effects of silicon on growth, root anatomy, radial oxygen loss (ROL) and Fe/Mn plaque of Aegiceras corniculatum (L.) Blanco seedlings exposed to cadmium. In Environmental Nanotechnology, Monitoring and Management. ISSN 22151532, 2015-07-06, 4, pp. 6-11., Registrované v: SCOPUS
85. [3.2] Bocharnikova, E. A.; Ostroumov, V. E.; Shabayev, V. P. Barley Plants Resistance to the Toxic Effect of Cadmium under Application of Natural Zeolite in Soil Contaminated with Heavy Metal. IN Agrokimiya, 2018, iss. 8, p. 64-73., Registrované v: BIOSIS Citation Index
86. [3.2] Grasic, Mateja. Multiple roles of silicon benefit plants. In: Acta Biologica Slovenica, 2019, vol. 62, no. 1, p. 3-56. ISSN 1408-3671., Registrované v: BIOSIS Citation Index
87. [4.1] Martiček, E. – Lukačová, Z. Zmierňuje nízka koncentrácia kremíka (Si) stredne silný stres z arzénu (As), kadmia (Cd) a zinku (Zn) v kukurici? In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 506-511. ISBN 978-80-223-3859-2.

ADCA1397 KOVÁČOVÁ, Kristína - DEGANI, Genny - STRATILOVÁ, Eva - FARKAŠ, Vladimír - POPOLO, Laura. Catalytic properties of Phr family members of cell wall glucan remodeling enzymes: implications for the adaption of *Candida albicans* to ambient pH. In *FEMS Yeast Research*, 2015, vol.15, p. fou11 (13 pages). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/fou011>

Ohlasy:

1. [1.1] AWAD, Andy - EL KHOURY, Pamela - WEX, Brigitte - KHALAF, Roy A. Tandem Mass Spectrometric Cell Wall Proteome Profiling of a *albicans* hwp2 Mutant Strain. In CURRENT MOLECULAR PHARMACOLOGY. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 211-225., Registrované v: WOS
2. [1.1] BORAL, Hazal - METIN, Banu - DOGEN, Aylin - SEYEDMOUSAVI, Seyedmojtaba - ILKIT, Macit. Overview of selected virulence attributes in *Aspergillus fumigants*, *Candida albicans*, *Cryptococcus neoformans*, *Trichophyton rubrum*, and *Exophiala dermatitidis*. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2018, vol. 111, no., pp. 92-107., Registrované v: WOS
3. [1.1] CHEN, Hui - ZHOU, Yujie - ZHOU, Xuedong - LIAO, Binyou - XU, Hockin H. K. - CHU, Chun-Hung - CHENG, Lei - REN, Biao. Dimethylaminododecyl methacrylate inhibits *Candida albicans* and oropharyngeal candidiasis in a pH-dependent manner. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 8, pp. 3585-3595. Dostupné na: <https://doi.org/10.1007/s00253-020-10496-0>., Registrované v: WOS
4. [1.1] KAR, Bibekananda - PATEL, Pavan - AO, Jie - FREE, Stephen J. *Neurospora crassa* family GH72 glucanotransferases function to crosslink cell wall glycoprotein N-linked galactomannan to cell wall lichenin. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2019, vol. 123, no., pp. 60-69., Registrované v: WOS
5. [1.1] LIU, Yuntao - LI, Yiwen - ZHANG, Huilan - LI, Cheng - ZHANG, Zhiqing - LIU, Aiping - CHEN, Hong - HU, Bin - LUO, Qingying - LIN, Bokun - WU, Wenjuan. Polysaccharides from *Cordyceps militaris* cultured at different pH: Sugar composition and antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 349-358. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.182>., Registrované v: WOS
6. [1.1] LUO, Zhibing - ZHANG, Tongbing - LIU, Pengfei - BAI, Yuting - CHEN, Qiyan - ZHANG, Yongjun - KEYHANI, Nemat O. The *Beauveria bassiana* Gas3 beta-Glucanotransferase Contributes to Fungal Adaptation to Extreme Alkaline Conditions. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 15, pp., Registrované v: WOS
7. [1.1] MATSUSHIKA, Akinori - NEGI, Kanako - SUZUKI, Toshihiro - GOSHIMA, Tetsuya - HOSHINO, Tamotsu. Identification and Characterization of a Novel *Issatchenkia orientalis* GPI-Anchored Protein, IoGas1, Required for Resistance to Low pH and Salt Stress. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 9, pp., Registrované v: WOS
8. [1.1] MATSUSHIKA, Akinori - SUZUKI, Toshihiro - GOSHIMA, Tetsuya - HOSHINO, Tamotsu. Evaluation of *Saccharomyces cerevisiae* GAS1 with respect to its involvement in tolerance to low pH and salt stress. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2017, vol. 124, no. 2, pp. 164-170., Registrované v: WOS
9. [1.1] PATE, Pavan K. - FREE, Stephen J. The Genetics and Biochemistry of Cell Wall Structure and Synthesis in *Neurospora crassa*, a Model Filamentous Fungus. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X,

2019, vol. 10, no., pp., Registrované v: WOS

10. [1.2] QUINTANA, Sandra Margarita Cruz - SJOSTROM, Pedro Díaz - BALDEÓN, Gloria Mazón - SOCARRÁS, Dunier Arias - PAZ, María Calderón - MOLINA, Angélica Herrera. Genome of *Candida albicans* and drug resistance. In *Salud Uninorte*. ISSN 01205552, 2017-09-01, 33, 3, pp. 438-450., Registrované v: SCOPUS

ADCA1398 VADKERTIOVÁ, Renáta** - DUDÁŠOVÁ, Hana - STRATILOVÁ, Eva - BALAŠČÁKOVÁ, Marta. Diversity of yeasts in the soil adjacent to fruit trees of the Rosaceae family. In *Yeast*, 2019, vol. 36, p. 617-631. (2018: 2.395 - IF, Q3 - JCR, 0.874 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0749-503X. Dostupné na: <https://doi.org/10.1002/yea.3430>

Ohlasy:

1. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In *AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE*. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS

2. [1.1] KORICHA, Anbessa Dabassa - HAN, Da-Yong - BACHA, Ketema - BAI, Feng-Yan. Occurrence and Molecular Identification of Wild Yeasts from Jimma Zone, South West Ethiopia. In *MICROORGANISMS*, 2019, vol. 7, no. 12, pp., Registrované v: WOS

3. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

ADCA1399 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Influence of pesticides on the yeasts colonizing the leaves. In *Zeitschrift für Naturforschung C*, 2011, vol. 66c, p. 588-594. (2010: 0.718 - IF, Q4 - JCR, 0.397 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0939-5075.

Ohlasy:

1. [1.1] GLENN, D. M. - BASSETT, C. - DOWD, S. E. Effect of pest management system on 'Empire' apple leaf phyllosphere populations. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2015, vol. 183, no., pp. 58-65., Registrované v: WOS

2. [1.1] KNIGHT, Alan L. - BASOALTO, Esteban - YEE, Wee - HILTON, Rick - KURTZMAN, Cletus P. Adding yeasts with sugar to increase the number of effective insecticide classes to manage *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) in cherry. In *PEST MANAGEMENT SCIENCE*. ISSN 1526-498X, 2016, vol. 72, no. 8, pp. 1482-1490., Registrované v: WOS

3. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na:

<https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

4. [1.1] POTOCKI, Leszek - BARAN, Aleksandra - OKLEJEWICZ, Bernadetta - SZPYRKA, Ewa - PODBIELSKA, Magdalena - SCHWARZBACHEROVA, Viera. Synthetic Pesticides Used in Agricultural Production Promote Genetic Instability and Metabolic Variability in *Candida* spp. In GENES, 2020, vol. 11, no. 8, pp. Dostupné na:

<https://doi.org/10.3390/genes11080848>., Registrované v: WOS

5. [1.1] SCARIOT, Fernando J. - JAHN, Luciane M. - DELAMARE, Ana Paula L. - ECHEVERRIGARAY, Sergio. The effect of the fungicide captan on *Saccharomyces cerevisiae* and wine fermentation. In 39TH WORLD CONGRESS OF VINE AND WINE. ISSN 2117-4458, 2016, vol. 7, no., pp., Registrované v: WOS

6. [1.1] SCARIOT, Fernando J. - JAHN, Luciane - DELAMARE, Ana Paula L. - ECHEVERRIGARAY, Sergio. Necrotic and apoptotic cell death induced by Captan on *Saccharomyces cerevisiae*. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2017, vol. 33, no. 8, pp., Registrované v: WOS

7. [1.1] SCARIOT, Fernando J. - JAHN, Luciane - DELAMARE, Ana Paula L. - ECHEVERRIGARAY, Sergio. Necrotic cell death induced by dithianon on *Saccharomyces cerevisiae*. In PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0048-3575, 2018, vol. 149, no., pp. 137-142., Registrované v: WOS

8. [1.1] TUTULESCU, Felicia - POPA, Angela - COSMULESCU, Sina Niculina. Influence of Pesticides on the Micro-Mycelia Present upon the Grape' Surface. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2017, vol. 22, no. 2, pp. 12448-12455., Registrované v: WOS

ADCA1400 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from the water environment. In *Canadian journal of microbiology*, 1995, vol. 41, p. 759-766. ISSN 0008-4166.

Ohlasy:

1. [1.1] BANJARA, Nabaraj - NICKERSON, Kenneth W. - SUHR, Mallory J. - HALLEN-ADAMS, Heather E. Killer toxin from several food-derived *Debaryomyces hansenii* strains effective against pathogenic *Candida* yeasts. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2016, vol. 222, no., pp. 23-29., Registrované v: WOS

2. [1.1] BOYNTON, Primrose J. The ecology of killer yeasts: Interference competition in natural habitats. In YEAST. ISSN 0749-503X, 2019, vol. 36, no. 8, pp. 473-485., Registrované v: WOS

3. [1.1] LIGUORI, Giuseppina - LAMAS, Bruno - RICHARD, Mathias L. - BRANDI, Giovanni - DA COSTA, Gregory - HOFFMANN, Thomas W. - DI SIMONE, Massimo Pierluigi - CALABRESE, Carlo - POGGIOLI, Gilberto - LANGELLA, Philippe - CAMPIERI, Massimo - SOKOL, Harry. Fungal Dysbiosis in Mucosa-associated Microbiota of Crohn's Disease Patients. In JOURNAL OF CROHNS & COLITIS. ISSN 1873-9946, 2016, vol. 10, no. 3, pp. 296-305., Registrované v: WOS

4. [1.1] MUSHTAQ, M.; SHARFUN-NAHAR; SHAHABALAM, M.; SHAHEEN, G.; HASHMI, M. H. SCREENING KILLER ACTIVITY OF SOME YEAST STRAINS ISOLATED FROM SLIME FLUXES OF TREES. IN

International Journal of Biology and Biotechnology, 2017, vol. 14, issue 1, p. 1-9, Registrované v: WOS

5. [1.1] WOJCIK, Monika - KORDOWSKA-WIATER, Monika. The occurrence of killer activity in yeasts isolated from natural habitats. In ACTA BIOCHIMICA POLONICA. ISSN 0001-527X, 2015, vol. 62, no. 4, pp. 821-824., Registrované v: WOS

6. [1.2] KLASSEN, Roland - SCHAFFRATH, Raffael - BUZZINI, Pietro - GANTER, Philip F. Antagonistic interactions and killer yeasts. In Yeasts in Natural Ecosystems: Ecology, 2017-01-01, pp. 229-275., Registrované v: SCOPUS

ADCA1401 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Metal tolerance of yeasts isolated from water, soil and plant environments. In *Journal of Basic Microbiology*, 2006, vol. 46, p. 145-152. (2005: 1.000 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.200510609>

Ohlasy:

1. [1.1] ABDEL-AZEEM, A. M. - EL-MORSY, E. M. - EL-DEIN, Nour M. M. - RASHAD, H. M. Occurrence and diversity of mycobiota in heavy metal contaminated sediments of Mediterranean coastal lagoon El-Manzala, Egypt. In MYCOSPHERE. ISSN 2077-7000, 2015, vol. 6, no. 2, pp. 228-240., Registrované v: WOS

2. [1.1] ACOSTA-RODRIGUEZ, Ismael - CARDENAS-GONZALEZ, Juan F. - RODRIGUEZ PEREZ, Adriana S. - TOVAR OVIEDO, Juana - MARTINEZ-JUAREZ, Victor M. Bioremoval of Different Heavy Metals by the Resistant Fungal Strain *Aspergillus niger*. In BIOINORGANIC CHEMISTRY AND APPLICATIONS. ISSN 1565-3633, 2018, vol., no., pp., Registrované v: WOS

3. [1.1] AL-HAGAR, Ola E. A. - BAYOUMI, Reda A. - AZIZ, Osama A. Abdel - MOUSA, Abeer Mohamed. Biosorption and adsorption of some heavy metals by *Fusarium* sp. F6c isolate as affected by gamma irradiation and agricultural wastes. In SCIENCEASIA. ISSN 1513-1874, 2020, vol. 46, no. 1, pp. 37-+. Dostupné na: <https://doi.org/10.2306/scienceasia1513-1874.2020.008.>, Registrované v: WOS

4. [1.1] CIVIERO, Enrico - PINTUS, Manuela - RUGGERI, Claudio - TAMBURINI, Elena - SOLLAI, Francesca - SANJUST, Enrico - ZUCCA, Paolo. Physiological and Phylogenetic Characterization of *Rhodotorula diobovata* DSBCA06, a Nitrophilous Yeast. In BIOLOGY-BASEL, 2018, vol. 7, no. 3, pp., Registrované v: WOS

5. [1.1] FERNANDES RODRIGUES DA CONCEICAO, Luis Eduardo - FONTES SARAIVA, Margarete Alice - SANTOS DINIZ, Raphael Hermano - OLIVEIRA, Juliana - BARBOSA, Gustavo Dimas - ALVAREZ, Florencia - DA MATA CORREA, Lygia Fatima - MEZADRI, Hygor - COUTRIM, Mauricio Xavier - DE CASSIA FRANCO AFONSO, Robson Jose - LUCAS, Candida - CASTRO, Ieso Miranda - BRANDAO, Rogelio Lopes. Biotechnological potential of yeast isolates from cachaca: the Brazilian spirit. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2015, vol. 42, no. 2, pp. 237-246., Registrované v: WOS

6. [1.1] GARCIA-BEJAR, Beatriz - AREVALO-VILLENA, Maria - GUISANTES-BATAN, Eduardo - RODRIGUEZ-FLORES, Juana - BRIONES,

- Ana. Study of the bioremediatory capacity of wild yeasts. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-68154-4>., Registrované v: WOS
7. [1.1] GORTER, Florian A. - AARTS, Mark M. G. - ZWAAN, Bas J. - DE VISSER, J. Arjan G. M. Dynamics of Adaptation in Experimental Yeast Populations Exposed to Gradual and Abrupt Change in Heavy Metal Concentration. In AMERICAN NATURALIST. ISSN 0003-0147, 2016, vol. 187, no. 1, pp. 110-119., Registrované v: WOS
8. [1.1] GRANGETEAU, Cedric - DAVID, Vanessa - HERVE, Alexandre - GUILLOUX-BENATIER, Michele - ROUSSEAUX, Sandrine. The sensitivity of yeasts and yeasts-like fungi to copper and sulfur could explain lower yeast biodiversity in organic vineyards. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2017, vol. 17, no. 8, pp., Registrované v: WOS
9. [1.1] GRANGETEAU, Cedric - ROULLIER-GALL, Chloe - ROUSSEAUX, Sandrine - GOUGEON, Regis D. - SCHMITT-KOPPLIN, Philippe - ALEXANDRE, Herve - GUILLOUX-BENATIER, Michele. Wine microbiology is driven by vineyard and winery anthropogenic factors. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, 2017, vol. 10, no. 2, pp. 354-370., Registrované v: WOS
10. [1.1] IRAWATI, Wahyu - WIJAYA, Yantra - CHRISTIAN, Salomo - DJOJO, Eric Santoso. Characterization of Heavy Metals Resistant Yeast Isolated from Activated Sludge in Rungkut, Surabaya, Indonesia as Biosorbent of Mercury, Copper, and Lead. In TOWARDS THE SUSTAINABLE USE OF BIODIVERSITY IN A CHANGING ENVIRONMENT: FROM BASIC TO APPLIED RESEARCH. ISSN 0094-243X, 2016, vol. 1744, no., pp., Registrované v: WOS
11. [1.1] KERFAHI, Dorsaf - OGWU, Matthew Chidozie - ARIUNZAYA, Dagvatseren - BALT, Altantsetseg - DAVAASUREN, Dulamsuren - ENKHMANDAL, Orsoo - PUREVSUREN, Tsolmonjav - BATBAATAR, Amgaa - TIBBETT, Mark - UNDRAKHBOLD, Sainbileg - BOLDGIV, Bazartseren - ADAMS, Jonathan M. Metal-Tolerant Fungal Communities Are Delineated by High Zinc, Lead, and Copper Concentrations in Metalliferous Gobi Desert Soils. In MICROBIAL ECOLOGY. ISSN 0095-3628, 2020, vol. 79, no. 2, pp. 420-431. Dostupné na: <https://doi.org/10.1007/s00248-019-01405-8>., Registrované v: WOS
12. [1.1] KIM CUC THI NGUYEN - PHU VAN NGUYEN - HAI THI HONG TRUONG. Heavy Metal Tolerance of Novel Papiliotrema Yeast Isolated from Vietnamese Mangosteen. In MYCOBIOLOGY. ISSN 1229-8093, 2020, vol. 48, no. 4, pp. 296-303. Dostupné na: <https://doi.org/10.1080/12298093.2020.1767020>., Registrované v: WOS
13. [1.1] KULAKOVSKAYA, Tatiana - RYAZANOVA, Lyubov - ZVONAREV, Anton - KHOKHLOVA, Galina - OSTROUMOV, Vladimir - VAINSHTEIN, Mikhail. The biosorption of cadmium and cobalt and iron ions by yeast *Cryptococcus humicola* at nitrogen starvation. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 507-510., Registrované v: WOS
14. [1.1] LATEGAN, Maria Josie - KLARE, William - KIDD, Sarah - HOSE, Grant C. - NEVALAINEN, Helena. The unicellular fungal tool RhoTox for risk assessments in groundwater systems. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2016, vol. 132, no., pp.

18-25., Registrované v: WOS

15. [1.1] LEGUINA, Ana Carolina del - BARRIOS, Andrea C. - ROSALES SORO, Maria del M. - LACOSEGLIAZ, Mariano J. - PAJOT, Hipolito M. - CASTELLANOS DE FIGUEROA, Lucia - NIETO-PENALVER, Carlos G. Copper alters the physiology of tomato rhizospheric isolates of *Papillotrema laurentii*. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2019, vol. 243, no., pp. 376-384., Registrované v: WOS

16. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na:

<https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

17. [1.1] MAHMOUD, A. H. - MASSOUD, M. S. - ABDEL-MOTAAL, F. F. - EL-ZAYAT, S. A. Tolerance and Biosorption of Manganese, Iron and Aluminium by Five *Aspergillus* Species Isolated from Freshwater. In *CATRINA-THE INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCES*. ISSN 1687-5052, 2017, vol. 16, no. 1, pp. 61-69., Registrované v: WOS

18. [1.1] MANNA, M. C. - SAHU, Asha - DE, Nirmal - THAKUR, J. K. - MANDAL, Asit - BHATTACHARJYA, Sudeshna - GHOSH, Avijit - RAHMAN, Mohammad Mahmudur - NAIDU, Ravi - SINGH, Udai Bhan - DAKHLI, Raja - SHARMA, M. P. - MISRA, Sukanya. Novel bio-filtration method for the removal of heavy metals from municipal solid waste. In *ENVIRONMENTAL TECHNOLOGY & INNOVATION*. ISSN 2352-1864, 2020, vol. 17, no., pp. Dostupné na: <https://doi.org/10.1016/j.eti.2020.100619>., Registrované v: WOS

19. [1.1] MARTINS, Luis C. - MONTEIRO, Catarina C. - SEMEDO, Paula M. - SA-CORREIA, Isabel. Valorisation of pectin-rich agro-industrial residues by yeasts: potential and challenges. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 15, pp. 6527-6547. Dostupné na: <https://doi.org/10.1007/s00253-020-10697-7>., Registrované v: WOS

20. [1.1] MOHITE, Pallavi - KUMAR, Ameeta Ravi - ZINJARDE, Smita. Relationship between salt tolerance and nanoparticle synthesis by *Williopsis saturnus* NCIM 3298. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 9, pp., Registrované v: WOS

21. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Soil Yeast Communities in Revegetated Post-Mining and Adjacent Native Areas in Central Brazil. In *MICROORGANISMS*, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081116>., Registrované v: WOS

22. [1.1] MOTESHAREIE, Houman - HAJIKARIMLOU, Maryam - INDRAYANTI, Alex Mulet - BURNSIDE, Daniel - DIAS, Ana Paula - LETTL, Clara - AHMED, Duale - OMIDI, Katayoun - KAZMIRCHUK, Tom - PUCHACZ, Nathalie - ZARE, Narges - TAKALLOU, Sarah - NAING, Thet - HERNANDEZ, Raul Bonne - WILLMORE, William G. - BABU, Mohan - MCKAY, Bruce - SAMANFAR, Bahram - HOLCIK, Martin - GOLSHANI, Ashkan. Heavy metal sensitivities of gene deletion strains for ITT1 and RPS1A

connect their activities to the expression of URE2, a key gene involved in metal detoxification in yeast. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS

23. [1.1] MUKHERJEE, Vaskar - RADECKA, Dorota - AERTS, Guido - VERSTREPEN, Kevin J. - LIEVENS, Bart - THEVELEIN, Johan M. Phenotypic landscape of non-conventional yeast species for different stress tolerance traits desirable in bioethanol fermentation. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

24. [1.1] OLADIPO, Oluwatosin Gbemisola - AUIOTOYE, Olusegun Olufemi - OLAYINKA, Akinyemi - BEZUIDENHOUT, Cornelius Carlos - MABOETA, Mark Steve. Heavy metal tolerance traits of filamentous fungi isolated from gold and gemstone mining sites. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, 2018, vol. 49, no. 1, pp. 29-37., Registrované v: WOS

25. [1.1] PARIS, Josephine R. - USHER, Jane. Functional genomic characterization of metallothioneins in brown trout (*Salmo trutta* L.). using synthetic genetic analysis. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

26. [1.1] RAMOS-GARZA, Juan - BUSTAMANTE-BRITO, Rafael - ANGELES DE PAZ, Gabriela - GABRIELA MEDINA-CANALES, Ma. - SOLEDAD VASQUEZ-MURRIETA, Maria - TAO WANG, En - VERONICA RODRIGUEZ-TOVAR, Aida. Isolation and characterization of yeasts associated with plants growing in heavy-metal- and arsenic-contaminated soils. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2016, vol. 62, no. 4, pp. 307-319., Registrované v: WOS

27. [1.1] RUSSO, Gabriel - LIBKIND, Diego - GIRAUDO, Maria Rosa - DANIEL DELGADO, Osvaldo. Heavy metal capture by autochthonous yeasts from a volcanic influenced environment of Patagonia. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2016, vol. 56, no. 11, pp. 1203-1211., Registrované v: WOS

28. [1.1] RYAZANOVA, Lubov - ZVONAREV, Anton - RUSAKOVA, Tatiana - DMITRIEV, Vladimir - KULAKOVSKAYA, Tatiana. Manganese tolerance in yeasts involves polyphosphate, magnesium, and vacuolar alterations. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2016, vol. 61, no. 4, pp. 311-317., Registrované v: WOS

29. [1.1] SHOAI, A. - AKHTAR, S. - AKHTAR, N. COPPER TOLERANCE, PROTEIN AND CATALYTIC ACTIVITY IN PHYTOPATHOGENIC FUNGUS ALTERNARIA ALTERNATA. In GLOBAL NEST JOURNAL. ISSN 1790-7632, 2015, vol. 17, no. 4, pp. 664-672., Registrované v: WOS

30. [1.1] SOLTYS, Katarina - PLANY, Matej - BIOCCA, Paola - VIANELLO, Valentina - BUCKOVA, Maria - PUSKAROVA, Andrea - SCLOCCHI, Maria Carla - COLAIZZI, Piero - BICCHIERI, Marina - PANGALLO, Domenico - PINZARI, Flavia. Lead soaps formation and biodiversity in a XVIII Century wax seal coloured with minium. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2020, vol. 22, no. 4, pp. 1517-1534. Dostupné na: <https://doi.org/10.1111/1462-2920.14735>., Registrované v: WOS

31. [1.1] VILLALBA-VILLALBA, Ana G. - CRUZ-CAMPAS, Martin E. - AZUARA-GOMEZ, Grecia. *Aspergillus niger* Tiegh., isolated in Sonora,

- Mexico: metal tolerance evaluation. In REVISTA CHAPINGO SERIE CIENCIAS FORESTALES Y DEL AMBIENTE. ISSN 2007-3828, 2018, vol. 24, no. 2, pp. 131-146., Registrované v: WOS
32. [1.2] GORTER, Florian A. - AARTS, Mark M.G. - ZWAAN, Bas J. - DE VISSER, J. Arjan G.M. Dynamics of adaptation in experimental yeast populations exposed to gradual and abrupt change in heavy metal concentration. In American Naturalist. ISSN 00030147, 2015-01-01, 187, 1, pp. 110-119., Registrované v: SCOPUS
33. [1.2] GUPTA, Saurabh - SINGH, Daljeet. Role of genetically modified microorganisms in heavy metal bioremediation. In Advances in Environmental Biotechnology, 2017-05-01, pp. 197-214., Registrované v: SCOPUS
34. [1.2] HASAN, Saba - HAQUE, Ziyaul - HAIDER, Kaynat - MEHROTRA, Varhshika. Isolation, identification and heavy metal tolerance of fungal strains isolated from heavy metal contaminated River Gomti. In Asian Journal of Microbiology, Biotechnology and Environmental Sciences. ISSN 09723005, 2017-01-01, 19, 1, pp. 154-159., Registrované v: SCOPUS
35. [1.2] MANORAMA, Barwa Arti - SUCHARITA, Panda Swati - ARADHANA, Basu - KUMAR, Dhal Nabin. Kinetics and surface studies on biosorption of Cr (VI) by using dead fungal biomass from chromium mine waste, Sukinda, India. In Research Journal of Chemistry and Environment. ISSN 09720626, 2016-01-01, 20, 12, pp. 42-50., Registrované v: SCOPUS
36. [1.2] YANG, Zhenxing - TIAN, Congkui - DANG, Chenyuan - CHANG, Fang - NI, Jinren. Comparative study on Pb(II), Cd(II), As(III), Cr(VI) resistance characteristics of fungus. In Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis. ISSN 04798023, 2015-01-01, 51, 4, pp. 667-676., Registrované v: SCOPUS
37. [3.1] Fatma, M., Gehad, F., Ahmed, A. E. (2015-2016). Isolation of Heavy Metal Tolerant Fungi from Industrial Discharge. Journal of Chemical, Biological and Physical Science, Section D: Environmental Sciences, 6(1), 018-035
38. [3.1] Zili, D., Jinpin, W., Chunhai, J., Cougui, C. (2016). Isolation of heavy metal-resistant fungi from contaminated soil and co-culturing with rice seedlings. African Journal of Microbiology Research, 10(28), 1080-1085

ADCA1402 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - VRÁNOVÁ, Dana - SLÁVIKOVÁ, Elena. Yeasts and yeast-like organisms associated with fruits and blossoms of different fruit trees. In *Canadian Journal of Microbiology*, 2012, vol. 58, p. 1344-1352. (2011: 1.363 - IF, Q3 - JCR, 0.523 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0008-4166. Dostupné na: <https://doi.org/10.1139/cjm-2012-0468>

Ohlasy:

1. [1.1] BAIG, Farrukh - FARNIER, Kevin - PIPER, Alexander M. - SPEIGHT, Robert - CUNNINGHAM, John Paul. Yeasts Influence Host Selection and Larval Fitness in Two Frugivorous Carpophilus Beetle Species. In JOURNAL OF CHEMICAL ECOLOGY. ISSN 0098-0331, 2020, vol. 46, no. 8, pp. 675-687. Dostupné na: <https://doi.org/10.1007/s10886-020-01167-5>, Registrované v: WOS
2. [1.1] BECK, Zachary T. - XING, Zheng - TRAN, Elizabeth J. LncRNAs: Bridging environmental sensing and gene expression. In RNA

BIOLOGY. ISSN 1547-6286, 2016, vol. 13, no. 12, pp. 1189-1196.,
Registrované v: WOS

3. [1.1] CINI, Alessandro - MERIGGI, Niccolo - BACCI, Giovanni -
CAPPA, Federico - VITALI, Francesco - CAVALIERI, Duccio - CERVO, Rita.
Gut microbial composition in different castes and developmental stages of the
invasive hornet *Vespa velutina nigrithorax*. In SCIENCE OF THE TOTAL
ENVIRONMENT. ISSN 0048-9697, 2020, vol. 745, no., pp. Dostupné na:
<https://doi.org/10.1016/j.scitotenv.2020.140873>., Registrované v: WOS

4. [1.1] DE VEGA, Clara - ALBALADEJO, Rafael G. - GUZMAN,
Beatriz - STEENHUISEN, Sandy-Lynn - JOHNSON, Steven D. - HERRERA,
Carlos M. - LACHANCE, Marc-Andre. Flowers as a reservoir of yeast diversity:
description of *Wickerhamiella nectarea* f.a. sp nov., and *Wickerhamiella*
natalensis f.a. sp nov from South African flowers and pollinators, and transfer of
related *Candida* species to the genus *Wickerhamiella* as new combinations. In
FEMS YEAST RESEARCH. ISSN 1567-1356, 2017, vol. 17, no. 5, pp.,
Registrované v: WOS

5. [1.1] DESHPANDE, M. V. Microbial Diversity on Grapes and Other
Fruits: Role and Significance in Fermentation. In MICROBIAL DIVERSITY IN
ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL
APPLICATIONS, VOL 2: SOIL & AGROECOSYSTEMS, 2019, vol., no., pp.
187-204., Registrované v: WOS

6. [1.1] DEUTSCHER, Ania T. - BURKE, Catherine M. - DARLING,
Aaron E. - RIEGLER, Markus - REYNOLDS, Olivia L. - CHAPMAN, Toni A.
Near full-length 16S rRNA gene next-generation sequencing revealed *Asaia* as a
common midgut bacterium of wild and domesticated Queensland fruit fly larvae.
In MICROBIOME. ISSN 2049-2618, 2018, vol. 6, no., pp., Registrované v:
WOS

7. [1.1] FREIMOSER, Florian M. - RUEDA-MEJIA, Maria Paula -
TILOCCA, Bruno - MIGHELI, Quirico. Biocontrol yeasts: mechanisms and
applications. In WORLD JOURNAL OF MICROBIOLOGY &
BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 10, pp., Registrované
v: WOS

8. [1.1] GIACOMUZZI, Valentino - MATTHEIS, James P. -
BASOALTO, Esteban - ANGELI, Sergio - KNIGHT, Alan L. Survey of
conspicuous herbivore-induced volatiles from apple as possible attractants for
Pandemis pyrusana (Lepidoptera: Tortricidae). In PEST MANAGEMENT
SCIENCE. ISSN 1526-498X, 2017, vol. 73, no. 9, pp. 1837-1845., Registrované
v: WOS

9. [1.1] GLENN, D. M. - BASSETT, C. - DOWD, S. E. Effect of pest
management system on 'Empire' apple leaf phyllosphere populations. In
SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2015, vol. 183, no., pp.
58-65., Registrované v: WOS

10. [1.1] GLUSHAKOVA, A. M. - KACHALKIN, A. V. Endophytic
yeasts in *Malus domestica* and *Pyrus communis* fruits under anthropogenic
impact. In MICROBIOLOGY. ISSN 0026-2617, 2017, vol. 86, no. 1, pp.
128-135., Registrované v: WOS

11. [1.1] GORDUN, Elena - DEL VALLE, Luis J. - GINOVART, Marta
- CARBO, Rosa. Comparison of the microbial dynamics and biochemistry of
laboratory sourdoughs prepared with grape, apple and yogurt. In FOOD
SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, 2015,

vol. 21, no. 6, pp. 428-439., Registrované v: WOS

12. [1.1] GORE-LLOYD, Deborah - SUMANN, Ines - BRACHMANN, Alexander O. - SCHNEEBERGER, Kerstin - ORTIZ-MERINO, Raul A. - MORENO-BELTRAN, Mauro - SCHLAFTI, Michael - KIRNER, Pascal - KRON, Amanda Santos - RUEDA-MEJIA, Maria Paula - SOMERVILLE, Vincent - WOLFE, Kenneth H. - PIEL, Jam - AHRENS, Christian H. - HENK, Daniel - FREIMOSER, Florian M. Snf2 controls pulcherriminic acid biosynthesis and antifungal activity of the biocontrol yeast *Metschnikowia pulcherrima*. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, 2019, vol. 112, no. 1, pp. 317-332., Registrované v: WOS

13. [1.1] GROSS, Simon - KUNZ, Liesa - MUELLER, Denise C. - KRON, Amanda Santos - FREIMOSER, Florian M. Characterization of antagonistic yeasts for biocontrol applications on apples or in soil by quantitative analyses of synthetic yeast communities. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 10, pp. 559-566., Registrované v: WOS

14. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS

15. [1.1] KNIGHT, Alan L. - BASOALTO, Esteban - YEE, Wee - HILTON, Rick - KURTZMAN, Cletus P. Adding yeasts with sugar to increase the number of effective insecticide classes to manage *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) in cherry. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2016, vol. 72, no. 8, pp. 1482-1490., Registrované v: WOS

16. [1.1] LANGENBERG, Anne-Kathrin - BINK, Frauke J. - WOLFF, Lena - WALTER, Stefan - VON WALLBRUNN, Christian - GROSSMANN, Manfred - HEINISCH, Juergen J. - SCHMITZ, Hans-Peter. Glycolytic Functions Are Conserved in the Genome of the Wine Yeast *Hanseniaspora uvarum*, and Pyruvate Kinase Limits Its Capacity for Alcoholic Fermentation. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 22, pp., Registrované v: WOS

17. [1.1] LENEVEU-JENVRIN, Charlene - QUENTIN, Baptiste - ASSEMAT, Sophie - HOARAU, Mathilde - MEILE, Jean-Christophe - REMIZE, Fabienne. Changes of Quality of Minimally-Processed Pineapple (*Ananas comosus*, var. 'Queen Victoria') during Cold Storage: Fungi in the Leading Role. In MICROORGANISMS, 2020, vol. 8, no. 2, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8020185>., Registrované v: WOS

18. [1.1] LOU, Wenjia - TING, Hsiu-Chi - REYNOLDS, Christian A. - TYURINA, Yulia Y. - TYURIN, Vladimir A. - LI, Yiran - JI, Jiajia - YU, Wenxi - LIANG, Zhuqing - STOYANOVSKY, Detcho A. - ANTHONYMUTHU, Tamil S. - FRASSO, Michael A. - WIPF, Peter - GREENBERGER, Joel S. - BAYIR, Hulya - KAGAN, Valerian E. - GREENBERG, Miriam L. Genetic re-engineering of polyunsaturated phospholipid profile of *Saccharomyces cerevisiae* identifies a novel role for Cld1 in mitigating the effects of cardiolipin peroxidation. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS. ISSN 1388-1981, 2018, vol. 1863, no. 10, pp. 1354-1368., Registrované v: WOS

19. [1.1] LUKSA, Juliana - SERVIENE, Elena. WHITE MULBERRY (MORUS ALBA L.) FRUIT-ASSOCIATED BACTERIAL AND FUNGAL MICROBIOTA. In JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT. ISSN 1648-6897, 2020, vol. 28, no. 4, pp. 183-191. Dostupné na: <https://doi.org/10.3846/jeelm.2020.13735>., Registrované v: WOS
20. [1.1] LUKSA, Juliana - VEPSTAITE-MONSTAVICE, Igle - YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. High content analysis of sea buckthorn, black chokeberry, red and white currants microbiota A pilot study. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 111, no., pp. 597-606., Registrované v: WOS
21. [1.1] LUKSA, Juliana - VEPSTAITE-MONSTAVICE, Igle - APSEGAITE, Violeta - BLAZYTE-CERESKIENE, Laima - STANEVICIENE, Ramune - STRAZDAITE-ZIELIENE, Zivile - RAVOITYTE, Bazile - ALEKNAVICIUS, Dominykas - BUDA, Vincas - MOZURAITIS, Raimondas - SERVIENE, Elena. Fungal Microbiota of Sea Buckthorn Berries at Two Ripening Stages and Volatile Profiling of Potential Biocontrol Yeasts (vol 8, 456, 2020). In MICROORGANISMS, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8071090>., Registrované v: WOS
22. [1.1] LYONS, Naomi - SOFTLEY, Isabel - BALFOUR, Andrew - WILLIAMSON, Carolyn - O'BRIEN, Heath E. - SHETTY, Amol C. - BRUNO, Vincent M. - DIEZMANN, Stephanie. Tobacco Hornworm (Manduca sexta) caterpillars as a novel host model for the study of fungal virulence and drug efficacy. In VIRULENCE. ISSN 2150-5594, 2020, vol. 11, no. 1, pp. 1075-1089. Dostupné na: <https://doi.org/10.1080/21505594.2020.1806665>., Registrované v: WOS
23. [1.1] MADDEN, Anne A. - EPPS, Mary Jane - FUKAMI, Tadashi - IRWIN, Rebecca E. - SHEPPARD, John - SORGER, D. Magdalena - DUNN, Robert R. The ecology of insect-yeast relationships and its relevance to human industry. In PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8452, 2018, vol. 285, no. 1875, pp., Registrované v: WOS
24. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and Aureobasidium pullulans Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS
25. [1.1] MOZURAITIS, Raimondas - ALEKNAVICIUS, Dominykas - VEPSTAITE-MONSTAVICE, Igle - STANEVICIENE, Ramune - EMAMI, Seyedeh Noushin - APSEGAITE, Violeta - RADZIUTE, Sandra - BLAZYTE-CERESKIENE, Laima - SERVIENE, Elena - BUDA, Vincas. Hippophae rhamnoides berry related Pichia kudriavzevii yeast volatiles modify behaviour of Rhagoletis batava flies. In JOURNAL OF ADVANCED RESEARCH. ISSN 2090-1232, 2020, vol. 21, no., pp. 71-77. Dostupné na: <https://doi.org/10.1016/j.jare.2019.08.001>., Registrované v: WOS
26. [1.1] PORTUGAL, Caure Barbosa - ALCARDE, Andre Ricardo - BORTOLETTO, Aline Marques - DE SILVA, Arthur Paron. The role of spontaneous fermentation for the production of cacha double dagger a: a study of case. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN

- 1438-2377, 2016, vol. 242, no. 9, pp. 1587-1597., Registrované v: WOS
27. [1.1] RODHOUSE, Lindsey - CARBONERO, Franck. Overview of craft brewing specificities and potentially associated microbiota. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2019, vol. 59, no. 3, pp. 462-473., Registrované v: WOS
28. [1.1] SALAMONE, Amy L. - ROBICHEAU, Brent M. - WALKER, Allison K. Fungal diversity of marine biofilms on artificial reefs in the north-central Gulf of Mexico. In BOTANICA MARINA. ISSN 0006-8055, 2016, vol. 59, no. 5, pp. 291-305., Registrované v: WOS
29. [1.1] SARE, Abdoul Razack - STOUVENAKERS, Gilles - ECK, Mathilde - LAMPENS, Amber - GOORMACHTIG, Sofie - JIJAKLI, M. Haissam - MASSART, Sebastien. Standardization of Plant Microbiome Studies: Which Proportion of the Microbiota is Really Harvested? In MICROORGANISMS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8030342>., Registrované v: WOS
30. [1.1] SAUNDERS, Manu E. - LUCK, Gary W. Combining Costs and Benefits of Animal Activities to Assess Net Yield Outcomes in Apple Orchards. In PLOS ONE. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
31. [1.1] SIAVOSHI, Farideh - SAHRAEE, Marzieh - EBRAHIMI, Hoda - SARRAFNEJAD, Abdolfatah - SANIEE, Parastoo. Natural fruits, flowers, honey, and honeybees harbor Helicobacter pylori-positive yeasts. In HELICOBACTER. ISSN 1083-4389, 2018, vol. 23, no. 2, pp., Registrované v: WOS
32. [1.1] SIPICZKI, Matthias. Metschnikowia pulcherrima and Related Pulcherrimin-Producing Yeasts: Fuzzy Species Boundaries and Complex Antimicrobial Antagonism. In MICROORGANISMS, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8071029>., Registrované v: WOS
33. [1.1] SKOTNICZNY, Magdalena - SATORA, Pawel - PANCZYSZYN, Katarzyna - CIOCH-SKONECZNY, Monika. Growth Dynamics and Diversity of Yeasts during Spontaneous Plum Mash Fermentation of Different Varieties. In FOODS, 2020, vol. 9, no. 8, pp. Dostupné na: <https://doi.org/10.3390/foods9081054>., Registrované v: WOS
34. [1.1] SOLIS, Michael Jay L. - YURKOV, Andrey - DELA CRUZ, Thomas Edison - UNTERSEHER, Martin. Leaf-inhabiting endophytic yeasts are abundant but unevenly distributed in three Ficus species from botanical garden greenhouses in Germany. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2015, vol. 14, no. 1, pp., Registrované v: WOS
35. [1.1] TING, Justine - XU, Rui - XU, Jianping. Molecular Identification and Distribution of Yeasts in Fruits. In MOLECULAR TECHNIQUES IN FOOD BIOLOGY: SAFETY, BIOTECHNOLOGY, AUTHENTICITY AND TRACEABILITY, 2018, vol., no., pp. 117-144., Registrované v: WOS
36. [1.1] VEGAS, Carlos - ZAVALA, Amparo - CANALES, Pamela E. - ESTEVE-ZARZOSO, Braulio. Yeasts Associated with Various Amazonian Native Fruits. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331, 2020, vol. 69, no. 3, pp. 251-261. Dostupné na: <https://doi.org/10.33073/pjm-2020-027>., Registrované v: WOS
37. [1.1] VEPSTAITE-MONSTAVIC, Igle - LUKSA, Juliana - STANEVICLENE, Ramune - STRAZDAITE-ZIELIENE, Zivile -

YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. Distribution of apple and blackcurrant microbiota in Lithuania and the Czech Republic. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2018, vol. 206, no., pp. 1-8., Registrované v: WOS

38. [1.1] WANG, Huxuan - HU, Zhongqiu - LONG, Fangyu - NIU, Chen - YUAN, Yahong - YUE, Tianli. Characterization of Osmotolerant Yeasts and Yeast-Like Molds from Apple Orchards and Apple Juice Processing Plants in China and Investigation of Their Spoilage Potential. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2015, vol. 80, no. 8, pp. M1850-M1860., Registrované v: WOS

39. [1.1] YURKOV, Andrey M. Yeasts of the soil obscure but precious. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS

40. [1.2] KACANIOVA, Miroslava - TERENTJEVA, Margarita - KLUGA, Alina - BREZINOVA, Monaca - HORAKOVA, Miriam Kadasi. MATRIX-ASSISTED LASER DESORPTION IONIZATION-TIME OF FLIGHT MASS SPECTROMETRY BASED IDENTIFICATION OF THE FISH GUT MICROBIOTA. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2019, vol. 9, no. 1, pp. 151-155., Registrované v: WOS

41. [1.2] MOUBASHER, Abdel Aal H. - ABDEL-SATER, M. A. - SOLIMAN, Zeinab S.M. Diversity of floricolous yeasts and filamentous fungi of some ornamental and edible fruit plants in assiut area, egypt. In Current Research in Environmental and Applied Mycology, 2018-01-01, 8, 1, pp. 135-161., Registrované v: SCOPUS

ADCA1403 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - LUX, Alexander - VACULÍK, Marek - LIŠKOVÁ, Desana. Yeasts associated with an abandoned mining area in Pernek and their tolerance to different chemical elements. In *Folia Microbiologica*, 2016, vol. 61, p.199-207. (2015: 1.335 - IF, Q4 - JCR, 0.472 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-015-0424-9>

Ohlasy:

1. [1.1] CROGNALÉ, Silvia - D'ANNIBALE, Alessandro - PESCIAROLI, Lorena - STAZI, Silvia R. - PETRUCCIOLI, Maurizio. Fungal Community Structure and As-Resistant Fungi in a Decommissioned Gold Mine Site. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.1] FROSSARD, Aline - DONHAUSER, Johanna - MESTROT, Adrien - GYGAX, Sebastien - BAATH, Erland - FREY, Beat. Long- and short-term effects of mercury pollution on the soil microbiome. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, 2018, vol. 120, no., pp. 191-199., Registrované v: WOS

3. [1.1] KULAKOVSKAYA, Tatiana - RYAZANOVA, Lyubov - ZVONAREV, Anton - KHOKHLOVA, Galina - OSTROUMOV, Vladimir - VAINSHTEIN, Mikhail. The biosorption of cadmium and cobalt and iron ions by yeast *Cryptococcus humicola* at nitrogen starvation. In FOLIA MICROBIOLOGICA. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 507-510., Registrované v: WOS

4. [1.1] ONETTO, Cristobal A. - SCHMIDT, Simon A. - ROACH,

Michael J. - BORNEMAN, Anthony R. Comparative genome analysis proposes three new *Aureobasidium* species isolated from grape juice. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2020, vol. 20, no. 6, pp. Dostupné na: <https://doi.org/10.1093/femsyr/foaa052>., Registrované v: WOS

5. [1.1] PRASONGSUK, Sehanat - LOTRAKUL, Pongtharin - ALI, Imran - BANKEEREE, Wichanee - PUNNAPAYAK, Hunsu. The current status of *Aureobasidium pullulans* in biotechnology. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 2, pp. 129-140., Registrované v: WOS

6. [1.1] RUSSO, Gabriel - LIBKIND, Diego - GIRAUDO, Maria Rosa - DANIEL DELGADO, Osvaldo. Heavy metal capture by autochthonous yeasts from a volcanic influenced environment of Patagonia. In *JOURNAL OF BASIC MICROBIOLOGY*. ISSN 0233-111X, 2016, vol. 56, no. 11, pp. 1203-1211., Registrované v: WOS

ADCA1404 VAFIADI, Christina - TOPAKAS, Evangelos - BIELY, Peter. Purification, characterization and mass spectrometric sequencing of a thermophilic glucuronoyl esterase from *Sporotrichum thermophile*. Peter Biely. In *FEMS Microbiology Letters*, 2009, vol.296, p. 178-184. (2008: 2.021 - IF, Q3 - JCR, 1.084 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.2009.01631.x>

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS

3. [1.1] DAHIYA, Seema - SATYANARAYANA, T. - SINGH, Bijender. Thermophilic Fungal Diversity in Sustainable Development. In *MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS: VOL 1. MICROBIAL DIVERSITY IN NORMAL & EXTREME ENVIRONMENTS*, 2019, vol., no., pp. 187-224., Registrované v: WOS

4. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS

5. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS

6. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
7. [1.1] D'ERRICO, Clotilde - JORGENSEN, Jonas O. - KROGH, Kristian B. R. M. - SPODSBERG, Nikolaj - MADSEN, Robert - MONRAD, Rune Nygaard. Enzymatic Degradation of Lignin-Carbohydrate Complexes (LCCs): Model Studies Using a Fungal Glucuronoyl Esterase from *Cerrena Unicolor*. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2015, vol. 112, no. 5, pp. 914-922., Registrované v: WOS
8. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS
9. [1.1] HUTTNER, Silvia - KLAUBAUF, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
10. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
11. [1.1] CHEN, Huayou - ZHANG, Tianxi - JIA, Jinru - VASTERMARK, Ake - TIAN, Rui - NI, Zhong - CHEN, Zhi - CHEN, Keping - YANG, Shengli. Expression and display of a novel thermostable esterase from *Clostridium thermocellum* on the surface of *Bacillus subtilis* using the CotB anchor protein. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2015, vol. 42, no. 11, pp. 1439-1448., Registrované v: WOS
12. [1.1] KRSKA, Daniel - LARSBRINK, Johan. Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01709-9>., Registrované v: WOS
13. [1.1] SINGH, Bijender - POCAS-FONSECA, Marcio J. - JOHRI, B. N. - SATYANARAYANA, Tulasi. Thermophilic molds: Biology and applications. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, 2016, vol. 42, no. 6, pp. 985-1006., Registrované v: WOS
14. [1.1] SINGH, Bijender. *Myceliophthora thermophila* syn. *Sporotrichum thermophile*: a thermophilic mould of biotechnological potential. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2016, vol. 36, no. 1, pp. 59-69., Registrované v: WOS

15. [1.1] TANG, Jiao - LONG, Liangkun - CAO, Yunfeng - DING, Shaojun. Expression and characterization of two glucuronoyl esterases from *Thielavia terrestris* and their application in enzymatic hydrolysis of corn bran. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2019, vol. 103, no. 7, pp. 3037-3048., Registrované v: WOS
16. [1.1] TIAN, Rui - CHEN, Huayou - NI, Zhong - ZHANG, Qing - ZHANG, Zhongge - ZHANG, Tianxi - ZHANG, Chunxia - YANG, Shengli. Expression and Characterization of a Novel Thermo-Alkalistable Lipase from Hyperthermophilic Bacterium *Thermotoga maritima*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2015, vol. 176, no. 5, pp. 1482-1497., Registrované v: WOS
17. [1.1] XU, Jing - LI, Jingen - LIN, Liangcai - LIU, Qian - SUN, Wenliang - HUANG, Bangquan - TIAN, Chaoguang. Development of genetic tools for *Myceliophthora thermophila*. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2015, vol. 15, no., pp., Registrované v: WOS
18. [1.2] CONACHER, C. G. - GARCÍA-APARICIO, M. P. - COETZEE, G. - VAN ZYL, W. H. - GOSRGENS, J. F. Scalable methanol-free production of recombinant glucuronoyl esterase in *Pichia pastoris*. In *BMC Research Notes*, 2019-09-18, 12, 1, pp., Registrované v: SCOPUS

ADCA1405 VALACH, Milan - KATRLÍK, Jaroslav - ŠTURDÍK, Ernest - GEMEINER, Peter. Ethanol Gluconobacter biosensor designed for flow injection analysis Application in ethanol fermentation off-line monitoring. Ernest Šturdík, Peter Gemeiner. In *Sensors and Actuators B*, 2009, vol.138, p. 581-586. (2008: 3.122 - IF, Q1 - JCR, 1.448 - SJR, Q1 - SJR). Dostupné na: <https://doi.org/10.1016/j.snb.2009.02.017>

Ohlasy:

1. [1.1] BERTOKOVA, Aniko - BERTOK, Tomas - FILIP, Jaroslav - TKAC, Jan. Gluconobacter sp cells for manufacturing of effective electrochemical biosensors and biofuel cells. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2015, vol. 69, no. 1, pp. 27-41., Registrované v: WOS
2. [1.1] DE SA, Acelino Cardoso - CIPRI, Andrea - GONZALEZ-CALABUIG, Andreu - STRADIOTTO, Nelson Ramos - DEL VALLE, Manel. Multivariate Determination of Total Sugar Content and Ethanol in Bioethanol Production Using Carbon Electrodes Modified with MWCNT/MeOOH and Chemometric Data Treatment. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 8, pp. 1688-1697., Registrované v: WOS
3. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on *Gluconobacter oxydans*. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
4. [1.1] CHEN, Hui - SIMOSKA, Olja - LIM, Koun - GRATTIERI, Matteo - YUAN, Mengwei - DONG, Fangyuan - LEE, Yoo Seok - BEAVER, Kevin - WELIWATTE, Samali - GAFFNEY, Erin M. - MINTEER, Shelley D. Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2020, vol. 120, no. 23, pp. 12903-12993. Dostupné na: <https://doi.org/10.1021/acs.chemrev.0c00472>., Registrované v: WOS

5. [1.1] Ostos-Ortíz, Olga Lucía; Rosas-Arango, Sonia Marcela; González-Devia, Johanna Lizeth. Biotechnological applications of microorganisms. In: Nova Vol. 17 (2019), Issue: 31, p. 129-163, Registrované v: WOS
6. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
7. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS
8. [1.1] SAMPHAO, Anchalee - BUTMEE, Preeyanut - SAEJUENG, Pranom - PUKAHUTA, Charida - SVORC, L'ubomir - KALCHER, Kurt. Monitoring of glucose and ethanol during wine fermentation by bienzymatic biosensor. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 816, no., pp. 179-188., Registrované v: WOS
9. [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. Advances in developing rapid, reliable and portable detection systems for alcohol. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99., Registrované v: WOS
10. [1.1] VITORINO, Luciana C. - BESSA, Layara A. Technological Microbiology: Development and Applications. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
11. [1.1] YE, Yongli - GUO, Hongyan - SUN, Xiulan. Recent progress on cell-based biosensors for analysis of food safety and quality control. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 389-404., Registrované v: WOS
12. [1.2] DAR, Zubair A. - BHAT, Rouf Ahmad - BHAT, Javeed I.A. - MIR, Shafat A. - AMIN, Azra - RASHID, Asmat - RIFAT, Bhat - LONE, Rafiq. Microbial diversity and their role in plant and soil health under stress conditions. In In vitro Plant Breeding towards Novel Agronomic Traits: Biotic and Abiotic Stress Tolerance, 2019-11-23, pp. 149-166., Registrované v: SCOPUS
13. [1.2] ISWANTINI, D. - NURHIDAYAT, N. - UTAMI, T. W. - TRIVADILA - SOEBRATA, B. M. Pineapple juice's microbe as bioreceptor for detecting alcohol by electrochemical method. In IOP Conference Series: Earth and Environmental Science. ISSN 17551307, 2018-11-19, 187, 1, pp., Registrované v: SCOPUS
14. [1.2] NURFATIAH, Zamri - SIDDIQUEE, Shafiquzzaman. Nanotechnology: Recent trends in food safety, quality and market analysis. In Nanotechnology: Applications in Energy, Drug and Food, 2019-01-16, pp. 283-293., Registrované v: SCOPUS
15. [1.2] Pacheco, J. G., Barroso, M. F., Nouws, H. P. A., Morais, S., & Delerue-Matos, C. (2017). Biosensors. In Current developments in biotechnology and bioengineering: Bioprocesses, bioreactors and controls (Elsevier, chapter 21,

pp. 627-648), Registrované v: SCOPUS

16. [1.2] Yoo, Y. J., Feng, Y., Kim, Y. H., & Yagonia, C. F. J. (2017). In Fundamentals of Enzyme Engineering (Springer, pp. 1-209)., Registrované v: SCOPUS

ADCA1406 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - DRÁFI, František - JURÁNEK, Ivo - BAUEROVÁ, Katarína - PRIESOLOVÁ, Elena - NAGY, Milan - ŠOLTĚS, Ladislav. Ascorbate and CU(II)-induced oxidative degradation of high-molar-mass hyaluronan. Pro- and antioxidative effects of some thiols. In *Neuroendocrinology Letters*, 2010, vol. 31, suppl. 2, p. 101-104. (2009: 1.047 - IF, Q4 - JCR, 0.440 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] KADERLI, S. - BOULOCHER, C. - PILLET, E. - WATRELOT-VIRIEUX, D. - ROGER, T. - VIGUIER, E. - GURNY, R. - SCAPOZZA, L. - MOLLER, M. A novel oxido-viscosifying Hyaluronic Acid-antioxidant conjugate for osteoarthritis therapy: Biocompatibility assessments. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2015, vol. 90, p. 70-79., Registrované v: WOS
2. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS
3. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *Analysis and Performance of Engineering Materials: Key Research and Development*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

ADCA1407 VALACHOVÁ, Katarína - VARGOVÁ, A. - RAPTA, Peter - HRABÁROVÁ, Eva - DRÁFI, František - BAUEROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Aurothiomalate as preventive and chain-breaking antioxidant in radical degradation of high-molar-mass hyaluronan. In *Chemistry & biodiversity*, 2011, vol. 8, no. 7, p. 1274-1283. (2010: 1.586 - IF, Q2 - JCR, 0.522 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.201000351>

Ohlasy:

1. [1.1] PARSONS, B. J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2015, vol. 49, no. 5, pp. 618-632., Registrované v: WOS
2. [1.2] OMER, A. M. - TAMER, T. M. - MOHYELDIN, M. S. - OMER, A. M. High-molecular weight biopolymer. In *Analysis and Performance of Engineering Materials: Key Research and Development*, 2015-01-01, pp. 19-43., Registrované v: SCOPUS
3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple

Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1408 VALACHOVÁ, Katarína - RAPTA, Peter - KOGAN, Grigorij - HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTÉS, Ladislav. Degradation of high-molar-mass hyaluronan by ascorbate plus cupric ions: effects of D-penicillamine addition. In *Chemistry & biodiversity*, 2009, vol.6, p.389-395. (2008: 1.659 - IF, Q2 - JCR, 0.641 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200800261>

Ohlasy:

1. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1409 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - PRIESOLOVÁ, Elena - NAGY, Milan - BAŇASOVÁ, Mária - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molecular-weight hyaluronan induced by ascorbate plus cupric ions. Testing of bucillamine and its SA981-metabolite as antioxidants. In *Journal of Pharmaceutical and Biomedical Analysis*, 2011, vol. 56, p. 664-670. (2010: 2.733 - IF, Q2 - JCR, 1.118 - SJR, Q1 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0731-7085. VEGA 1/0145/10. Dostupné na: <https://doi.org/10.1016/j.jpba.2011.06.015>

Ohlasy:

1. [1.1] KADERLI, S. - BOULOCHER, C. - PILLET, E. - WATRELOT-VIRIEUX, D. - ROGER, T. - VIGUIER, E. - GURNY, R. - SCAPOZZA, L. - MOLLER, M. A novel oxido-viscosifying Hyaluronic

Acid-antioxidant conjugate for osteoarthritis therapy: Biocompatibility assessments. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2015, vol. 90, p. 70-79., Registrované v: WOS

2. [1.1] KYRIAKIDOU, M. - ANASTASSOPOULOU, J. - TSAKIRIS, A. - KOUJI, M. - THEOPHANIDES, T. FT-IR Spectroscopy Study in Early Diagnosis of Skin Cancer. In IN VIVO. ISSN 0258-851X, 2017, vol. 31, no. 6, p. 1131-1137., Registrované v: WOS

3. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

4. [1.1] SUN, M.L. - ZHAO, F. - SHI, M. - ZHANG, XY. - ZHOU, B.Ch. - ZHANG, Y.-Z. - CHEN, X.L. Characterization and Biotechnological Potential Analysis of a New Exopolysaccharide from the Arctic Marine Bacterium *Polaribacter* sp SM1127. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, article number 18435., Registrované v: WOS

5. [1.1] TIWARI, S. - BAHADUR, P. Modified hyaluronic acid based materials for biomedical applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, p. 556-571., Registrované v: WOS

6. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

7. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

8. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1410 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Hyaluronan degradation by ascorbate: protective effects of manganese(II) chloride. In *Cellulose Chemistry and Technology*, 2008, vol. 42, no. 9-10, p.473-483. (2007: 0.113 - IF, Q4 - JCR, 0.383 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0576-9787.

Ohlasy:

1. [1.1] PARSONS, B. J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, pp. 618-632., Registrované v: WOS

2. [1.1] YU, Chen - TANG, Xiaozhi - LIU, Shaowei - YANG, Yuling -

SHEN, Xinchun - GAO, Chengcheng. Laponite crosslinked starch/polyvinyl alcohol hydrogels by freezing/thawing process and studying their cadmium ion absorption. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, p. 1-6., Registrované v: WOS

3. [1.2] OMER, A. M. - TAMER, T. M. - MOHYELDIN, M. S. - OMER, A. M. High-molecular weight biopolymer. In Analysis and Performance of Engineering Materials: Key Research and Development, 2015-01-01, pp. 19-43., Registrované v: SCOPUS

4. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.

5. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

6. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1411 VALACHOVÁ, Katarína - TOPOLSKÁ, Dominika - MENDICHI, Raniero - COLLINS, Maurice N. - SASINKOVÁ, Vlasta - ŠOLTĚS, Ladislav. Hydrogen peroxide generation by the Weissberger biogenic oxidative system during hyaluronan degradation. In *Carbohydrate Polymers*, 2016, vol. 148, p. 189-193. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.04.063>

Ohlasy:

1. [1.1] ABDEL-MOHSEN, A.M. - PAVLINAK, D. - CILEKOVA, M. - LEPCIO, P. - ABDEL-RAHMAN, R.M. - JANCAR, J. Electrospinning of hyaluronan/polyvinyl alcohol in presence of in-situ silver nanoparticles: Preparation and characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, p. 730-739., Registrované v: WOS

2. [1.1] ACAR, O.K. - KAYITMAZER, A.B. - KOSE, G.T. Hyaluronic Acid/Chitosan Coacervate-Based Scaffolds. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 4, p. 1198-1211., Registrované v: WOS

3. [1.1] BAZMANDEH, A.Z. - MIRZAEI, E. - GHASEMI, Y. - KOUHBANANI, M.A.J. Hyaluronic acid coated electrospun chitosan-based nanofibers prepared by simultaneous stabilizing and coating. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 138, p. 403-411., Registrované v: WOS

4. [1.1] BUCATARIU, S.M. - CONSTANTIN, M. - VARGANICI, C.D. - RUSU, D. - NICOLESCU, A. - PRISACARU, I. - CARNUTA, M. - ANGHELACHE, M. - CALIN, M. - ASCENZI, P. - FUNDUEANU, G. A new sponge-type hydrogel based on hyaluronic acid and poly (methylvinylether-alt-maleic acid) as a 3D platform for tumor cell growth. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, B, p. 2528-2540., Registrované v: WOS
5. [1.1] CAI, Chuner - GUO, Ziye - YANG, Yayun - GENG, Zhonglei - TANG, Langlang - ZHAO, Minglin - QIU, Yuyan - CHEN, Yifan - HE, Peimin. Inhibition of hydrogen peroxide induced injuring on human skin fibroblast by Ulva prolifera polysaccharide. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 91, no., pp. 241-247., Registrované v: WOS
6. [1.1] CANIBANO-HERNANDEZ, A. - SAENZ DEL BURGO, L. - ESPONA-NOGUERA, A. - ORIVE, G. - MA HERNANDEZ, R. - CIRIZA, J. - LUIS PEDRAZ, J. Hyaluronic acid enhances cell survival of encapsulated insulin-producing cells in alginate-based microcapsules. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2019, vol. 557, p. 192-198., Registrované v: WOS
7. [1.1] GAO, Y.L. - LIU, Q.L. - KONG, W.L. - WANG, J. - HE, L. - GUO, L.K. - LIN, H. - FAN, H.S. - FAN, Y.J. - ZHANG, X.D. Activated hyaluronic acid/collagen composite hydrogel with tunable physical properties and improved biological properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 2186-2196., Registrované v: WOS
8. [1.1] GAO, Z.Y. - YANG, X.B. - JONES, E. - BINGHAM, P.A. - SCRIMSHIRE, A. - THORNTON, P.D. - TRONCI, G. An injectable, self-healing and MMP-inhibiting hyaluronic acid gel via iron coordination. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, B, p. 2022-2029., Registrované v: WOS
9. [1.1] KHACHATRYAN, G. - KHACHATRYAN, K. - KRYSTYJAN, M. - KRZAN, M. - KHACHATRYAN, L. Functional properties of composites containing silver nanoparticles embedded in hyaluronan and hyaluronan-lecithin matrix. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, p. 417-423., Registrované v: WOS
10. [1.1] KIM, J.H. - MOON, M.J. - KIM, D.Y. - HEO, S.H. - JEONG, Y.Y. Hyaluronic Acid-Based Nanomaterials for Cancer Therapy. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 10, art. no. 1133., Registrované v: WOS
11. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1837-1843., Registrované v: WOS
12. [1.1] LEE, J.S. - CHO, J.H. - AN, S. - SHIN, J. - CHOI, S. - JEON, E.J. - CHO, S.W. In Situ Self-Cross-Linkable, Long-Term Stable Hyaluronic Acid Filler by Gallol Autoxidation for Tissue Augmentation and Wrinkle

- Correction. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2019, vol. 31, no. 23, p. 9614-9624., Registrované v: WOS
13. [1.1] LEE, S. - KIM, S. - PARK, J. - LEE, J.Y. Universal surface modification using dopamine-hyaluronic acid conjugates for anti-biofouling. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, p. 1314-1321., Registrované v: WOS
14. [1.1] LIN, Z.F. - WU, T.T. - WANG, W.S. - LI, B.L. - WANG, M. - CHEN, L.L. - XIA, H. - ZHANG, T. Biofunctions of antimicrobial peptide-conjugated alginate/hyaluronic acid/collagen wound dressings promote wound healing of a mixed-bacteria-infected wound. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 140, p. 330-342., Registrované v: WOS
15. [1.1] LIU, G.X. - LIN, T.S. - ZHANG, Q. - ZHANG, S.J. - JI, C.W. - ZHANG, S.W. - GUO, H.Q. Hyaluronic Acid-IR780 Nanoparticles for Photothermal Ablation in Orthotopic Renal Cancer. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2020, vol. 2020, art. no. 2421971., Registrované v: WOS
16. [1.1] LOEBEL, Claudia - SZCZESNY, Spencer E. - COSGROVE, Brian D. - ALINI, Mauro - ZENOBI-WONG, Marcy - MAUCK, Robert L. - EGLIN, David. Cross-Linking Chemistry of Tyramine-Modified Hyaluronan Hydrogels Alters Mesenchymal Stem Cell Early Attachment and Behavior. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 3, pp. 855-864., Registrované v: WOS
17. [1.1] LOPEZ-RUIZ, E. - JIMENEZ, G. - ALVAREZ DE CIENFUEGOS, L. - ANTICH, C. - SABATA, R. - MARCHAL, J. A. - GALVEZ-MARTIN, Patricia. ADVANCES OF HYALURONIC ACID IN STEM CELL THERAPY AND TISSUE ENGINEERING, INCLUDING CURRENT CLINICAL TRIALS. In EUROPEAN CELLS & MATERIALS. ISSN 1473-2262, 2019, vol. 37, p. 186-213., Registrované v: WOS
18. [1.1] MOHAMMADI, F. - TANIDEH, N. - SAMANI, S.M. - AHMADI, F. Efficacy of a hybrid system of hyaluronic acid and collagen loaded with prednisolone and TGF-beta 3 for cartilage regeneration in rats. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2019, vol. 51, p. 55-62., Registrované v: WOS
19. [1.1] MOHAMMADI, H. - ALIHOSSEINI, F. - HOSSEINI, S.A. Improving physical and biological properties of nylon monofilament as suture by Chitosan/Hyaluronic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 3394-3402., Registrované v: WOS
20. [1.1] MOURYCOVA, J. - DATTA, K. K. R. - PROCHAZKOVA, A. - PLOTENA, M. - ENEV, V. - SMILEK, J. - MASILKO, J. - PEKAR, M. Facile synthesis and rheological characterization of nanocomposite hyaluronan-organoclay hydrogels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 680-684., Registrované v: WOS
21. [1.1] RATANAVARAPORN, J. - CHUMA, N. - KANOKPANONT, S. - DAMRONGSAKKUL, S. Beads fabricated from alginate, hyaluronic acid, and gelatin using ionic crosslinking and layer-by-layer coating techniques for controlled release of gentamicin. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2019, vol. 136, no. 1, art. no. 46893., Registrované

v: WOS

22. [1.1] SHAH, S.A. - SOHAIL, M. - KHAN, S. - MINHAS, M.U. - DE MATAS, M. - SIKSTONE, V. - HUSSAIN, Z. - ABBASI, M. - KOUSAR, M. Biopolymer-based biomaterials for accelerated diabetic wound healing: A critical review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, p. 975-993.,

Registrované v: WOS

23. [1.1] TAVSANLI, B. - OKAY, O. Mechanically robust and stretchable silk/hyaluronic acid hydrogels. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 208, p. 413-420., Registrované v: WOS

24. [1.1] TAVSANLI, B. - OKAY, O. Macroporous methacrylated hyaluronic acid cryogels of high mechanical strength and flow-dependent viscoelasticity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, art. no. 115458., Registrované v: WOS

25. [1.1] TIWARI, S. - BAHADUR, P. Modified hyaluronic acid based materials for biomedical applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 121, p. 556-571., Registrované v: WOS

26. [1.1] ZAMBONI, F. - RYAN, E. - CULEBRAS, M. - COLLINS, M.N. Labile crosslinked hyaluronic acid via urethane formation using bis(beta-isocyanatoethyl) disulphide with tuneable physicochemical and immunomodulatory properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, OCT 1 2020, vol. 245., Registrované v: WOS

27. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

28. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA1412 VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOLESKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTĚS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In *Carbohydrate Polymers*, 2015, vol. 134, p. 516-523. (2014: 4.074 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2015.07.029>

Ohlasy:

1. [1.1] ABDEL-MOHSEN, A.M. - PAVLINAK, D. - CILEKOVA, M. - LEPCIO, P. - ABDEL-RAHMAN, R.M. - JANCAR, J. Electrospinning of hyaluronan/polyvinyl alcohol in presence of in-situ silver nanoparticles: Preparation and characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, p. 730-739., Registrované v: WOS

2. [1.1] ACAR, O.K. - KAYITMAZER, A.B. - KOSE, G.T. Hyaluronic Acid/Chitosan Coacervate-Based Scaffolds. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 4, p. 1198-1211., Registrované v: WOS
3. [1.1] BAZMANDEH, A.Z. - MIRZAEI, E. - GHASEMI, Y. - KOUHBANANI, M.A.J. Hyaluronic acid coated electrospun chitosan-based nanofibers prepared by simultaneous stabilizing and coating. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 138, p. 403-411., Registrované v: WOS
4. [1.1] CAMBRA, J.M. - MARTINEZ, C.A. - RODRIGUEZ-MARTINEZ, H. - MARTINEZ, E.A. - CUELLO, C. - GIL, M.A. N-(2-mercaptopropionyl)-glycine enhances in vitro pig embryo production and reduces oxidative stress. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1., Registrované v: WOS
5. [1.1] GAO, Y.L. - LIU, Q.L. - KONG, W.L. - WANG, J. - HE, L. - GUO, L.K. - LIN, H. - FAN, H.S. - FAN, Y.J. - ZHANG, X.D. Activated hyaluronic acid/collagen composite hydrogel with tunable physical properties and improved biological properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, p. 2186-2196., Registrované v: WOS
6. [1.1] GAO, Z.Y. - YANG, X.B. - JONES, E. - BINGHAM, P.A. - SCRIMSHIRE, A. - THORNTON, P.D. - TRONCI, G. An injectable, self-healing and MMP-inhibiting hyaluronic acid gel via iron coordination. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, B, p. 2022-2029., Registrované v: WOS
7. [1.1] KHACHATRYAN, G. - KHACHATRYAN, K. - KRYSTYJAN, M. - KRZAN, M. - KHACHATRYAN, L. Functional properties of composites containing silver nanoparticles embedded in hyaluronan and hyaluronan-lecithin matrix. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, p. 417-423., Registrované v: WOS
8. [1.1] KIM, J.H. - MOON, M.J. - KIM, D.Y. - HEO, S.H. - JEONG, Y.Y. Hyaluronic Acid-Based Nanomaterials for Cancer Therapy. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 10, art. no. 1133., Registrované v: WOS
9. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 1837-1843., Registrované v: WOS
10. [1.1] LEE, J.S. - CHO, J.H. - AN, S. - SHIN, J. - CHOI, S. - JEON, E.J. - CHO, S.W. In Situ Self-Cross-Linkable, Long-Term Stable Hyaluronic Acid Filler by Gallol Autoxidation for Tissue Augmentation and Wrinkle Correction. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2019, vol. 31, no. 23, p. 9614-9624., Registrované v: WOS
11. [1.1] LIN, Z.F. - WU, T.T. - WANG, W.S. - LI, B.L. - WANG, M. - CHEN, L.L. - XIA, H. - ZHANG, T. Biofunctions of antimicrobial peptide-conjugated alginate/hyaluronic acid/collagen wound dressings promote wound healing of a mixed-bacteria-infected wound. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 140, p. 330-342., Registrované v: WOS

12. [1.1] LIU, G.X. - LIN, T.S. - ZHANG, Q. - ZHANG, S.J. - JI, C.W. - ZHANG, S.W. - GUO, H.Q. Hyaluronic Acid-IR780 Nanoparticles for Photothermal Ablation in Orthotopic Renal Cancer. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2020, vol. 2020, art. no. 2421971., Registrované v: WOS
13. [1.1] LOPEZ-RUIZ, E. - JIMENEZ, G. - ALVAREZ DE CIENFUEGOS, L. - ANTICH, C. - SABATA, R. - MARCHAL, J. A. - GALVEZ-MARTIN, Patricia. ADVANCES OF HYALURONIC ACID IN STEM CELL THERAPY AND TISSUE ENGINEERING, INCLUDING CURRENT CLINICAL TRIALS. In EUROPEAN CELLS & MATERIALS. ISSN 1473-2262, 2019, vol. 37, p. 186-213., Registrované v: WOS
14. [1.1] MOHAMMADI, F. - TANIDEH, N. - SAMANI, S.M. - AHMADI, F. Efficacy of a hybrid system of hyaluronic acid and collagen loaded with prednisolone and TGF-beta 3 for cartilage regeneration in rats. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2019, vol. 51, p. 55-62., Registrované v: WOS
15. [1.1] MOHAMMADI, H. - ALIHOSSEINI, F. - HOSSEINI, S.A. Improving physical and biological properties of nylon monofilament as suture by Chitosan/Hyaluronic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, p. 3394-3402., Registrované v: WOS
16. [1.1] MOURYCOVA, J. - DATTA, K.K.R. - PROCHAZKOVA, A. - PLOTENA, M. - ENEV, V. - SMILEK, J. - MASILKO, J. - PEKAR, M. Facile synthesis and rheological characterization of nanocomposite hyaluronan-organoclay hydrogels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, p. 680-684., Registrované v: WOS
17. [1.1] RATANAVARAPORN, J. - CHUMA, N. - KANOKPANONT, S. - DAMRONGSAKKUL, S. Beads fabricated from alginate, hyaluronic acid, and gelatin using ionic crosslinking and layer-by-layer coating techniques for controlled release of gentamicin. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2019, vol. 136, no. 1, art. no. 46893., Registrované v: WOS
18. [1.1] SAFRANKOVA, B. - HERMANNOVA, M. - NESPOROVA, K. - VELEBNY, V. - KUBALA, L. Absence of differences among low, middle, and high molecular weight hyaluronan in activating murine immune cells in vitro. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, A, p. 1-8., Registrované v: WOS
19. [1.1] SHAH, S.A. - SOHAIL, M. - KHAN, S. - MINHAS, M.U. - DE MATAS, M. - SIKSTONE, V. - HUSSAIN, Z. - ABBASI, M. - KOUSAR, M. Biopolymer-based biomaterials for accelerated diabetic wound healing: A critical review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 139, p. 975-993., Registrované v: WOS
20. [1.1] SHEN, S. - CHI, X. - DONG, J. - HUO, S. - TIAN, H. - XU, L. - SHI, T. Oxidation of the drug tiopronin by Cerium(IV) in perchloric acid media: Kinetic and mechanistic analyses. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 246, p. 1-6., Registrované v: WOS
21. [1.1] THANUSHA, A.V. - MOHANTY, S. - DINDA, A.K. - KOUL, V. Fabrication and evaluation of gelatin/hyaluronic acid/chondroitin

- sulfate/asiatic acid based biopolymeric scaffold for the treatment of second-degree burn wounds - Wistar rat model study. In BIOMEDICAL MATERIALS. ISSN 1748-6041, SEP 2020, vol. 15, no. 5., Registrované v: WOS
22. [1.1] UNNITHAN, A.R. - SASIKALA, A.R.K. - PARK, C.H. - KIM, C.S. A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide-hyaluronic acid-chitosan with simvastatin. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2017, vol. 46, p. 182-191., Registrované v: WOS
23. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
24. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
25. [3.1] TANG, Z. - HE, Z. - LI, H. - GUO, D. - ZHAO, Z. Process Intensification in Tiopronin Extraction. In INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING AND APPLICATIONS. ISSN 2010-0221, 2016, vol. 7, no. 6, p. 433-436. doi: 10.18178/ijcea.2016.7.6.620

ADCA1413 VALENZUELA, Susana - LOPEZ, Sergi - BIELY, Peter - SANZ-APARICIO, Julia - PASTOR, F.I.Javier. The GH8 reducing end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 is active on branched xylooligosaccharides. = The Glycoside Hydrolase Family 8 Reducing-End Xylose-Releasing Exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 Is Active on Branched Xylooligosaccharides. In *Applied and Environmental Microbiology*, 2016, vol. 82, iss. 17, p. 5116-5124. (2015: 3.823 - IF, Q1 - JCR, 1.877 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.01329-16>

Ohlasy:

1. [1.1] DA FONSECA, Maria Joao Mauricio - ARMSTRONG, Zachary - WITHERS, Stephen G. - BRIERS, Yves. High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na: <https://doi.org/10.1128/AEM.01505-20>., Registrované v: WOS
2. [1.1] CHADHA, B. S. - KAUR, Baljit - BASOTRA, Neha - TSANG, Adrian - PANDEY, Ashok. Thermostable xylanases from thermophilic fungi and bacteria: Current perspective. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 277, no., pp. 195-203., Registrované v: WOS
3. [1.1] LIU, Xueqiang - JIANG, Zhengqiang - LIU, Yu - YOU, Xin - YANG, Shaoqing - YAN, Qiaojuan. Biochemical characterization of a novel exo-oligoxylanase from *Paenibacillus barengoltzii* suitable for monosaccharification from corncobs. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no., pp., Registrované v: WOS

4. [1.1] MALGAS, Samkelo - MAFA, Mpho S. - MKABAYI, Lithalethu - PLETSCHKE, Brett I. A mini review of xylanolytic enzymes with regards to their synergistic interactions during hetero-xylan degradation. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 12, pp., Registrované v: WOS
5. [1.1] MALGAS, Samkelo - PLETSCHKE, Brett I. The effect of an oligosaccharide reducing-end xylanase, BhRex8A, on the synergistic degradation of xylan backbones by an optimised xylanolytic enzyme cocktail. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 122, no., pp. 74-81., Registrované v: WOS
6. [1.1] MELLO, Bruno L. - ALESSI, Anna M. - RIANO-PACHON, Diego M. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. G. - ESPIRITO SANTO, Melissa C. - MCQUEEN-MASON, Simon - BRUCE, Neil C. - POLIKARPOV, Igor. Targeted metatranscriptomics of compost-derived consortia reveals a GH11 exerting an unusual exo-1,4-beta-xylanase activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
7. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus Talaromyces cellulolyticus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
8. [1.1] ONTANON, Ornella M. - GHIO, Silvina - DIAZ DE VILLEGAS, Ruben Marrero - GARRIDO, Mercedes M. - TALIA, Paola M. - FEHER, Csaba - CAMPOS, Eleonora. A thermostable GH8 endoglucanase of Enterobacter sp. R1 is suitable for beta-glucan deconstruction. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 298, no., pp., Registrované v: WOS
9. [1.1] RAY, Sayani - VIGOUROUX, Jacqueline - BOUDER, Axelle - ALLAMI, Mathilde Francin - GEAIRO, Audrey - FANUEL, Mathieu - ROPARTZ, David - HELBERT, William - LAHAYE, Marc - BONNIN, Estelle. Functional exploration of Pseudoalteromonas atlantica as a source of hemicellulose-active enzymes: Evidence for a GH8 xylanase with unusual mode of action. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2019, vol. 127, no., pp. 6-16., Registrované v: WOS

ADCA1414 VALENZUELA, Susana V. - LOPEZ, Sergi - BIELY, Peter - SANZ-APARICIO, Julia - PASTOR, Francisco I.J. The glycoside hydrolase family 8 reducing-end xylose-releasing exo-oligoxylanase Rex8A from Paenibacillus barcinonensis BP-23 is active on branched xylooligosaccharides. In *Applied and Environmental Microbiology*, 2016, vol. 82, p. 5116-5124. (2015: 3.823 - IF, Q1 - JCR, 1.877 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.01329-16>

Ohlasy:

1. [1.1] DA FONSECA, M.J.M. - ARMSTRONG, Z. - WITHERS, S.G. - BRIERS, Y. High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, DEC 2020, vol. 86, no. 23., Registrované v: WOS
2. [1.2] GHIO, Silvina - BRADANINI, María B. - GARRIDO,

Mercedes M. - ONTAÑON, Ornella M. - PICCINNI, Florencia E. - MARRERO DIAZ DE VILLEGAS, Ruben - TALIA, Paola M. - CAMPOS, Eleonora. Synergic activity of Cel8Pa β -1,4 endoglucanase and Bgl1Pa β -glucosidase from *Paenibacillus xylanivorans* A59 in beta-glucan conversion. In *Biotechnology Reports*, 2020-12-01, 28, pp. Dostupné na: <https://doi.org/10.1016/j.btre.2020.e00526>., Registrované v: SCOPUS

ADCA1415 VALKO, L. - TVAROŠKA, Igor - KOVAŘÍK, P. Saturated irregular structures in PVC. In *European Polymer Journal*, 1975, vol. 11, p. 411-416. ISSN 0014-3057.

Ohlasy:

1. [1.1] SHNAWA, Hussein Ali - KHALAF, Moayad Naeem - JAHANI, Yousef. The effects of natural polyphenols and calcium-based thermal stabilizer on the rheological and thermal resistance behaviors of PVC. In *INTERNATIONAL JOURNAL OF PLASTICS TECHNOLOGY*. ISSN 0972-656X, 2018, vol. 22, no. 2, pp. 365-385., Registrované v: WOS

ADCA1416 VAN PEU, N.N.M.E. - BRINKMANN, J. - VRŠANSKÁ, Mária - VISSER, J. - DE GRAAFF, L.H. Beta xylosidase activity, encoded by xlnD, is essential for complete hydrolysis of xylan by *Aspergillus niger* but not for induction of the xylanolytic enzyme spectrum. In *European Journal of Biochemistry*, 1997, vol. 245, p. 164-173. (1997 - Current Contents, SCOPUS). ISSN 0014-2956.

Ohlasy:

1. [1.1] BOSETTO, Adilson - JUSTO, Priscila Innocenti - ZANARDI, Bruna - VENZON, Simoni Spohr - GRACIANO, Luciana - DOS SANTOS, Elaine Luzia - GARCIA SIMAO, Rita de Cassia. Research Progress Concerning Fungal and Bacterial beta-Xylosidases. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2016, vol. 178, no. 4, pp. 766-795., Registrované v: WOS

2. [1.1] FAUNDEZ, Carolina - PEREZ, Rodrigo - CRISTINA RAVANAL, Maria - EYZAGUIRRE, Jaime. *Penicillium purpurogenum* produces a novel, acidic, GH3 beta-xylosidase: Heterologous expression and characterization of the enzyme. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 482, no., pp., Registrované v: WOS

3. [1.1] GRUBEN, Birgit S. - MAKELA, Miia R. - KOWALCZYK, Joanna E. - ZHOU, Miaomiao - BENOIT-GELBER, Isabelle - DE VRIES, Ronald P. Expression-based clustering of CAZyme-encoding genes of *Aspergillus niger*. In *BMC GENOMICS*. ISSN 1471-2164, 2017, vol. 18, no., pp., Registrované v: WOS

4. [1.1] HERNANDEZ, Christian - MILAGRES, Adriane M. F. - VAZQUEZ-MARRUFO, Gerardo - MARIA MUNOZ-PAEZ, Karla - ANTONIO GARCIA-PEREZ, Jose - ALARCON, Enrique. An ascomycota coculture in batch bioreactor is better than polycultures for cellulase production. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 467-478., Registrované v: WOS

5. [1.1] CHOENGPANYA, Khuanjarat - ARTHOMTHURASUK, Siriphan - WATTANA-AMORN, Pakorn - HUANG, Wan-Ting - PLENGMUANKHAE, Wandee - LI, Yaw-Kuen - KONGSAEREE, Prachumporn T. Cloning, expression and characterization of beta-xylosidase from *Aspergillus niger* ASKU28. In *PROTEIN EXPRESSION AND*

- PURIFICATION. ISSN 1046-5928, 2015, vol. 115, no., pp. 132-140.,
Registrované v: WOS
6. [1.1] INOUE, Kotomi - TAKAHASHI, Yui - OBARA, Ken -
MURAKAMI, Shuichiro. Localization of functional xylosidases, encoded by the
same single gene, xlsIV (xlnD), from *Aspergillus niger* E-1. In BIOSCIENCE
BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2017, vol. 81,
no. 3, pp. 621-624., Registrované v: WOS
7. [1.1] KIESENHOFER, Daniel - MACH-AIGNER, Astrid R. -
MACH, Robert L. Understanding the Mechanism of Carbon Catabolite
Repression to Increase Protein Production in Filamentous Fungi. In GENE
EXPRESSION SYSTEMS IN FUNGI: ADVANCEMENTS AND
APPLICATIONS. ISSN 2198-7777, 2016, vol., no., pp. 275-288., Registrované
v: WOS
8. [1.1] LI, Yanan - ZHENG, Xiaojun - ZHANG, Xiujuan - BAO, Longfei
- ZHU, Yingying - QU, Yinbo - ZHAO, Jian - QIN, Yuqi. The Different Roles of
Penicillium oxalicum LaeA in the Production of Extracellular Cellulase and
beta-xylosidase. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X,
2016, vol. 7, no., pp., Registrované v: WOS
9. [1.1] MORRISON, Jessica M. - ELSHAHED, Mostafa S. -
YOUSSEF, Noha. A multifunctional GH39 glycoside hydrolase from the
anaerobic gut fungus *Orpinomyces* sp strain CIA. In PEERJ. ISSN 2167-8359,
2016, vol. 4, no., pp., Registrované v: WOS
10. [1.1] MUSTAFA, Ghulam - KOUSAR, Sumaira - RAJOKA,
Muhammad Ibrahim - JAMIL, Amer. Molecular cloning and comparative
sequence analysis of fungal beta-Xylosidases. In AMB EXPRESS. ISSN
2191-0855, 2016, vol. 6, no., pp., Registrované v: WOS
11. [1.1] ROHMAN, Ali - DIJKSTRA, Bauke W. - PUSPANINGSIH, Ni
Nyoman Tri. beta-Xylosidases: Structural Diversity, Catalytic Mechanism, and
Inhibition by Monosaccharides. In INTERNATIONAL JOURNAL OF
MOLECULAR SCIENCES, 2019, vol. 20, no. 22, pp., Registrované v: WOS
12. [1.1] SALEM, Mohamed Z. M. - ZIDAN, Yassin E. - EL HADIDI,
Nesrin M. N. - MANSOUR, Maisa M. A. - ABO ELGAT, Wael A. A. Evaluation
of usage three natural extracts applied to three commercial wood species against
five common molds. In INTERNATIONAL BIODETERIORATION &
BIODEGRADATION. ISSN 0964-8305, 2016, vol. 110, no., pp. 206-226.,
Registrované v: WOS
13. [1.1] SALEM, Mohamed Z. M. - ZIDAN, Yassin E. - MANSOUR,
Maisa M. A. - EL HADIDI, Nesrin M. N. - ELGAT, Wael A. A. Abo. Antifungal
activities of two essential oils used in the treatment of three commercial woods
deteriorated by five common mold fungi. In INTERNATIONAL
BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2016, vol.
106, no., pp. 88-96., Registrované v: WOS
14. [1.1] SALEM, Mohamed Z. M. - MANSOUR, Maisa M. A. -
ELANSARY, Hosam O. Evaluation of the effect of inner and outer bark extracts
of sugar maple (*Acer saccharum* var. *saccharum*) in combination with citric acid
against the growth of three common molds. In JOURNAL OF WOOD
CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2019, vol. 39, no. 2, pp.
136-147., Registrované v: WOS
15. [1.1] SASAKI, Yusuke - TAKAGI, Toshiyuki - MOTONE, Keisuke -
KURODA, Kouichi - UEDA, Mitsuyoshi. Ethanol production from

hemicellulose using xylose isomerase-displaying yeast. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2016, vol. 33, no., pp. S85-S85., Registrované v: WOS

16. [1.1] SCHRODER, Sybrin P. - DE BOER, Casper - MCGREGOR, Nicholas G. S. - ROWLAND, Rhianna J. - MOROZ, Olga - BLAGOVA, Elena - REIJNGOUD, Jos - ARENTSHORST, Mark - OSBORN, David - MORANT, Marc D. - ABBATE, Eric - STRINGER, Mary A. - KROGH, Kristian B. R. M. - RAICH, Lluís - ROVIRA, Carme - BERRIN, Jean-Guy - VAN WEZEL, Gilles P. - RAM, Arthur F. J. - FLOREA, Bogdan - VAN DER MAREL, Gijsbert A. - CODEE, Jeroen D. C. - WILSON, Keith S. - WU, Liang - DAVIES, Gideon J. - OVERKLEEF, Herman S. Dynamic and Functional Profiling of Xylan-Degrading Enzymes in *Aspergillus* Secretomes Using Activity-Based Probes. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2019, vol. 5, no. 6, pp. 1067-1078., Registrované v: WOS

17. [1.1] TRAMONTINA, Robson - ROBL, Diogo - MAITAN-ALFENAS, Gabriela Piccolo - DE VRIES, Ronald P. Cooperation of *Aspergillus nidulans* enzymes increases plant polysaccharide saccharification. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2016, vol. 11, no. 7, pp. 988-992., Registrované v: WOS

18. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E. coli* B121. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS

19. [1.2] DE VRIES, Ronald P. - VAN DEN BRINK, Joost - HILDÉN, Kristiina S. - MÄKELÄ, Miia R. - STÅLBRAND, Henrik. Fungal degradation of plant oligo- and polysaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 809-895., Registrované v: SCOPUS

20. [1.2] SILVA, Roberto N. Regulation of plant cell wall degrading enzymes formation in filamentous fungi. In Fungal Enzymes, 2016-04-19, pp. 173-213., Registrované v: SCOPUS

21. [3.2] Group Author(s). Uniprot Consortium. O00089. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/O00089>, Registrované v: Data Citation Index

ADCA1417 VANĚK, Tomáš - HALECKÝ, Martin - PÁČA, Jan - ZÁPOTOCKÝ, Ľuboš - GELBICOVÁ, Tereza - VADKERTIOVÁ, Renáta - KOZLIAK, Evguenii - JONES, Kim. A two-stage combined trickle bed reactor/biofilter for treatment of styrene/acetone vapor mixtures. In *Journal of environmental science and health Part A, Toxic/Hazardous substances & Environmental engineering*, 2015, vol.50, p. 1148-1159. (2014: 1.164 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1093-4529. Dostupné na: <https://doi.org/10.1080/10934529.2015.1047672>

Ohlasy:

1. [1.1] YANG, Chunping - QIAN, Hui - LI, Xiang - CHENG, Yan - HE, Huijun - ZENG, Guangming - XI, Jinying. Simultaneous Removal of Multicomponent VOCs in Biofilters. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 7, pp. 673-685., Registrované v: WOS

- ADCA1418 VASSOVÁ, Anna - VOTICKÝ, Zdeno - TOMKO, J.. Structure of veramiline, an alkaloid from *Veratrum album* subsp. *Lobelianum* (Bernh.) Suessenguth. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 3643-3645. ISSN 0010-0765. Dostupné na: <https://doi.org/10.1135/cccc19773643>
- Ohlasy:
- [1.1] KHAN, Sadia - FATIMA, Itrat - KAZMI, Mehdi Hassan - MALIK, Abdul. A New Steroidal Alkaloid from *Allium victorialis*. In *CHEMISTRY OF NATURAL COMPOUNDS*. ISSN 0009-3130, 2015, vol. 51, no. 6, pp. 1134-1137., Registrované v: WOS
 - [1.1] WANG, Yun - SHI, Yong - TIAN, Wei-Sheng - TANG, Pei - ZHUANG, Chunlin - CHEN, Fen-Er. Stereoselective Synthesis of (-)-Verazine and Congeners via a Cascade Ring-Switching Process of Furostan-26-acid. In *ORGANIC LETTERS*. ISSN 1523-7060, 2020, vol. 22, no. 7, pp. 2761-2765. Dostupné na: <https://doi.org/10.1021/acs.orglett.0c00747>., Registrované v: WOS
- ADCA1419 VASSOVÁ, A. - TOMKO, J. - VOTICKÝ, Zdeno - BEAL, J.L. Buxus alkaloids. 8. Alkaloids from *Buxus wallichiana* Baillen. In *Pharmazie*, 1970, vol. 25, p. 363-365. ISSN 0031-7144.
- Ohlasy:
- [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In *CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids*, 2018-01-01, pp. 1-624., Registrované v: SCOPUS
- ADCA1420 VELEBNÝ, Samuel - HRČKOVÁ, Gabriela - KOGAN, Grigorij. Impact of treatment with praziquantel, silymarin and/or beta-glucan on pathophysiological markers of liver damage and fibrosis in mice infected with *Mesocostoides vogae* (Cestoda) tetrathyridia. In *Journal of Helminthology*, 2008, vol. 82, p. 211-219. (2007: 1.155 - IF, Q2 - JCR, 0.478 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 1475-2697. Dostupné na: <https://doi.org/10.1017/S0022149X08960776>
- Ohlasy:
- [1.1] NONO, Justin Komguez - FU, Kai - MPOTJE, Thabo - VARRONE, Georgianna - AZIZ, Nada Abdel - MOSALA, Paballo - HLAKA, Lerato - KAMDEM, Severin Donald - XU, Daigen - SPANGENBERG, Thomas - BROMBACHER, Frank. Investigating the antifibrotic effect of the antiparasitic drug Praziquantel in in vitro and in vivo preclinical models. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp., Registrované v: WOS
 - [1.1] SWEIFY, Karima Mohammad - DARWISH, Iman Abd El Moneim - HAFEZ, Dalia Demerdash Abd El Monem. The effect of ivermectin on secondary spermatocytes and serum total proteins. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2471-2477., Registrované v: WOS
 - [1.2] FARIDNIA, Roghiyeh - KALANI, Hamed - FAKHAR, Mahdi - AKHTARI, Javad. Investigating in vitro anti-leishmanial effects of silibinin and silymarin on *Leishmania major*. In *Annals of parasitology*. ISSN 22990631, 2018-01-01, 64, 1, pp., Registrované v: SCOPUS
 - [1.2] KAMEL, Reem O.A. Interactions between mefloquine and the anti-fibrotic drug silymarin on *Schistosoma mansoni* infections in mice. In

Journal of Helminthology. ISSN 0022149X, 2016-11-01, 90, 6, pp. 760-765.,
Registrované v: SCOPUS

5. [2.1] VETVICKA, V. - FERNANDEZ-BOTRAN, R. beta-Glucan
and parasites. In *HELMINTHOLOGIA*. ISSN 0440-6605, 2018, vol. 55, no. 3,
pp. 177-184., Registrované v: WOS

ADCA1421 VIKARTOVSKÁ, Alica - BUČKO, Marek - GEMEINER, Peter -
NAHÁLKA, Jozef - PÄTOPRSTÝ, Vladimír - HRABÁROVÁ, Eva. Flow
calorimetry - A useful tool for determination of immobilized cis-epoxysuccinate
hydrolase activity from *Nocardia tartaricans*. In *Artificial Cells, Bloods Substitutes
and Biotechnology*, 2004, vol. 32, p. 77-89. ISSN 1073-1199. Dostupné na:
<https://doi.org/10.1081/BIO-120028670>

Ohlasy:

1. [1.1] XUAN, Jinsong - FENG, Yingang. Enantiomeric Tartaric Acid
Production Using cis-Epoxysuccinate Hydrolase: History and Perspectives. In
MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 5, pp., Registrované v: WOS

ADCA1422 VIKARTOVSKÁ, Alica - BUČKO, Marek - MISLOVIČOVÁ, Danica
- PÄTOPRSTÝ, Vladimír - LACÍK, Igor - GEMEINER, Peter. Improvement of the
stability of glucose oxidase via encapsulation in sodium alginate-cellulose
sulfate-poly(methylene-co-guanidine) capsules. In *Enzyme and Microbial
Technology*, 2007, vol. 41, p. 748-755. (2006: 1.897 - IF, Q3 - JCR, 0.908 - SJR, Q2
- SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0141-0229.
Dostupné na: <https://doi.org/10.1016/j.enzmictec.2007.06.010>

Ohlasy:

1. [1.1] AFJEH, M.E.A. - POURAHMAD, R. - AKBARI-ADERGANI,
B. - AZIN, M. Use of Glucose Oxidase Immobilized on Magnetic Chitosan
Nanoparticles in Probiotic Drinking Yogurt. In *FOOD SCIENCE OF ANIMAL
RESOURCES*. ISSN 2636-0772, 2019, vol. 39, no. 1, p. 73-83., Registrované v:
WOS

2. [1.1] BORNHOEFT, L.R. - BISWAS, A. - MCSHANE, M.J.
Composite Hydrogels with Engineered Microdomains for Optical Glucose
Sensing at Low Oxygen Conditions. In *BIOSENSORS-BASEL*. ISSN
2079-6374, MAR 2017, vol. 7, no. 1., Registrované v: WOS

3. [1.1] EIN ALI AFJEH, M. - POURAHMAD, R. -
AKBARI-ADERGANI, B. - AZIN, M. Characteristics of glucose oxidase
immobilized on Magnetic Chitosan Nanoparticles. In *FOOD SCIENCE AND
TECHNOLOGY*. ISSN 0101-2061, JAN-MAR 2020, vol. 40, no. 1, p. 68-75.,
Registrované v: WOS

4. [1.1] HEINZE, T. - EL SEOUD, O.A. - KOSCHELLA, A. Cellulose
Esters. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND
PROPERTIES*. ISSN 2364-1878, 2018, p. 293-427., Registrované v: WOS

5. [1.1] HUANG, R.L. - WU, M.Y. - GOLDMAN, M.J. - LI, Z.
Encapsulation of Enzyme via One-Step Template-Free Formation of Stable
Organic Inorganic Capsules: A Simple and Efficient Method for Immobilizing
Enzyme With High Activity and Recyclability. In *BIOTECHNOLOGY AND
BIOENGINEERING*. ISSN 0006-3592, JUN 2015, vol. 112, no. 6, p.
1092-1101., Registrované v: WOS

6. [1.1] CHEN, Z.X. - GU, G.H. - LI, S.K. - WANG, C.Q. - ZHU, R.F.
The Effect of Seaweed Glue in the Separation of Copper-Molybdenum Sulphide

- Ore by Flotation. In MINERALS. ISSN 2075-163X, FEB 2018, vol. 8, no. 2., Registrované v: WOS
7. [1.1] ISLEROGLU, H. - TURKER, I. - KOC, B. - TOKATLI, M. Optimization of microencapsulation conditions of transglutaminase by freeze drying. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, NOV 2019, vol. 56, no. 11, p. 4925-4937., Registrované v: WOS
8. [1.1] KAMBUROV, M.N. - IVANOV, T.V. - LALOV, I.G. Immobilization of glucose oxidase on porous copolymer. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2015, vol. 47, A, p. 64-69., Registrované v: WOS
9. [1.1] LAWSON, B.P. - GOLIKOVA, E. - SULMAN, A.M. - STEIN, B.D. - MORGAN, D.G. - LAKINA, N.V. - KARPENKOV, A.Y. - SULMAN, E.M. - MATVEEVA, V.G. - BRONSTEIN, L.M. Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, AUG 2018, vol. 6, no. 8, p. 9845-9853., Registrované v: WOS
10. [1.1] MAHOU, R. - PASSEMARD, S. - CARVELLO, M. - PETRELLI, A. - NOVERRAZ, F. - GERBER-LEMAIRE, S. - WANDREY, C. Contribution of polymeric materials to progress in xenotransplantation of microencapsulated cells: a review. In XENOTRANSPLANTATION. ISSN 0908-665X, MAY-JUN 2016, vol. 23, no. 3, p. 179-201., Registrované v: WOS
11. [1.1] MU, Q.X. - CUI, Y.L. - TIAN, Y.E. - HU, M.R. - TAO, Y. - WU, B. Thermostability improvement of the glucose oxidase from *Aspergillus niger* for efficient gluconic acid production via computational design. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, SEP 1 2019, vol. 136, p. 1060-1068., Registrované v: WOS
12. [1.1] MVILA, B.G. - PILAR-IZQUIERDO, M.C. - BUSTO, M.D. - PEREZ-MATEOS, M. - ORTEGA, N. Synthesis and characterization of a stable humic-urease complex: application to barley seed encapsulation for improving N uptake. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, JUL 2016, vol. 96, no. 9, p. 2981-2989., Registrované v: WOS
13. [1.1] REZANIA, H. - VATANPOUR, V. - FAGHANI, S. Poly(itaconic acid)-assisted ultrafiltration of heavy metal ions' removal from wastewater. In IRANIAN POLYMER JOURNAL. ISSN 1026-1265, DEC 2019, vol. 28, no. 12, p. 1069-1077., Registrované v: WOS
14. [1.1] STRATZ, J. - LIEDMANN, A. - HEINZE, T. - FISCHER, S. - GROTH, T. Effect of Sulfation Route and Subsequent Oxidation on Derivatization Degree and Biocompatibility of Cellulose Sulfates. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, FEB 2020, vol. 20, no. 2., Registrované v: WOS
15. [1.1] WANG, Y.G. - WANG, X.J. - XIE, Y.J. - ZHANG, K. Functional nanomaterials through esterification of cellulose: a review of chemistry and application. In CELLULOSE. ISSN 0969-0239, JUL 2018, vol. 25, no. 7, p. 3703-3731., Registrované v: WOS
16. [1.1] XU, D.F. - SUN, L.J. - LI, C.H. - WANG, Y.L. - YE, R.Y. Inhibitory effect of glucose oxidase from *Bacillus* sp CAMT22370 on the quality deterioration of Pacific white shrimp during cold storage. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JUN 2018, vol. 92, p. 339-346., Registrované v: WOS

17. [1.1] ZHANG, Q.L. - LIN, D.Q. - YAO, S.J. Review on biomedical and bioengineering applications of cellulose sulfate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, NOV 5 2015, vol. 132, p. 311-322., Registrované v: WOS
18. [1.2] DAI, Y.-YUAN, Y.- YU, C.- SONG, Y. Degradation of bisphenol A in water by laccase immobilized in electrospun fibrous membranes. (2015) Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae, 35 (7), p. 2107-2113. DOI: 10.13671/j.hjkxxb.2014.0970, Registrované v: Scopus
19. [1.2] MONG THU, T.T.- KRASAEKOOPT, W. Encapsulation of protease from *Aspergillus oryzae* and lipase from *Thermomyces lanuginoseus* using alginate and different copolymer types. (2016) Agriculture and Natural Resources, 50 (3), p. 155-161. DOI: 10.1016/j.anres.2016.06.002, Registrované v: Scopus

ADCA1423 VATEHOVÁ, Zuzana - MALOVÍKOVÁ, Anna - KOLLÁROVÁ, Karin - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Impact of cadmium stress on two maize hybrids. In *Plant Physiology and Biochemistry*, 2016, vol. 108, p. 90-98. (2015: 2.928 - IF, Q1 - JCR, 1.185 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2016.06.035>

Ohlasy:

1. [1.1] ABDEL LATEF, Arafat Abdel Hamed - ZAID, Abbu - ABO-BAKER, Abo-Baker Abd-Elmoniem - SALEM, Wesam - ABU ALHMAD, Mona Fawzy. Mitigation of Copper Stress in Maize by Inoculation with *Paenibacillus polymyxa* and *Bacillus circulans*. In PLANTS-BASEL, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/plants9111513>., Registrované v: WOS
2. [1.1] ASILIAN, Ebrahim - GHASEMI-FASAEI, Reza - RONAGHI, Abdolmajid - SEPEHRI, Mozhgan - NIAZI, Ali. Chemical- and microbial-enhanced phytoremediation of cadmium-contaminated calcareous soil by maize. In TOXICOLOGY AND INDUSTRIAL HEALTH. ISSN 0748-2337, 2019, vol. 35, no. 5, pp. 378-386., Registrované v: WOS
3. [1.1] CRUSH, Jim. R. - OUYANG, Lily - COUSINS, Greig R. Variation in cadmium concentrations in shoots of chicory (*Cichorium intybus* L.). In NEW ZEALAND JOURNAL OF AGRICULTURAL RESEARCH. ISSN 0028-8233, 2019, vol. 62, no. 4, pp. 495-503., Registrované v: WOS
4. [1.1] HUYBRECHTS, Michiel - CUYPERS, Ann - DECKERS, Jana - IVEN, Verena - VANDIONANT, Stephanie - JOZEFCZAK, Marijke - HENDRIX, Sophie. Cadmium and Plant Development: An Agony from Seed to Seed. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, 2019, vol. 20, no. 16, pp., Registrované v: WOS
5. [1.1] LI, Cong - LIU, Yu - TIAN, Jing - ZHU, Yanshu - FAN, Jinjuan. Changes in sucrose metabolism in maize varieties with different cadmium sensitivities under cadmium stress. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 12, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0243835>., Registrované v: WOS
6. [1.1] LOIX, Christophe - HUYBRECHTS, Michiel - VANGRONSVELD, Jaco - GIELEN, Marijke - KEUNEN, Els - CUYPERS, Ann. Reciprocal Interactions between Cadmium-Induced Cell Wall Responses and Oxidative Stress in Plants. In FRONTIERS IN PLANT SCIENCE. ISSN

1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

7. [1.1] MATAYOSHI, Carolina L. - PENA, Liliana B. - ARBONA, Vicent - GOMEZ-CADENAS, Aurelio - GALLEGO, Susana M. Early responses of maize seedlings to Cu stress include sharp decreases in gibberellins and jasmonates in the root apex. In PROTOPLASMA. ISSN 0033-183X, 2020, vol. 257, no. 4, pp. 1243-1256. Dostupné na:

<https://doi.org/10.1007/s00709-020-01504-1>, Registrované v: WOS

8. [1.1] PERVEEN, Shagufta - SAEED, Muhammad - PARVEEN, Abida - JAVED, Muhammad Tariq - ZAFAR, Sara - IQBAL, Naeem. Modulation of growth and key physiobiochemical attributes after foliar application of zinc sulphate (ZnSO₄) on wheat (*Triticum aestivum* L.) under cadmium (Cd) stress. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2020, vol. 26, no. 9, pp. 1787-1797. Dostupné na:

<https://doi.org/10.1007/s12298-020-00861-8>, Registrované v: WOS

9. [1.1] SEIFIKALHOR, Maryam - HASSANI, Seyedeh Batool - ALINIAEIFARD, Sasan. Seed Priming by Cyanobacteria (*Spirulina platensis*) and Salep Gum Enhances Tolerance of Maize Plant Against Cadmium Toxicity. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2020, vol. 39, no. 3, pp. 1009-1021. Dostupné na:

<https://doi.org/10.1007/s00344-019-10038-7>, Registrované v: WOS

10. [1.2] MORAVCOVÁ, Šárka - TŮMA, Jiří - DUČAIOVÁ, Zuzana Kovalíková - WALIGÓRSKI, Piotr - KULA, Monika - SAJA, Diana - SŁOMKA, Aneta - BĄBA, Wojciech - LIBIK-KONIECZNY, Marta. Influence of salicylic acid pretreatment on seeds germination and some defence mechanisms of *Zea mays* plants under copper stress. In Plant Physiology and Biochemistry. ISSN 09819428, 2018-01-01, 122, pp. 19-30., Registrované v: SCOPUS

11. [1.2] SHEN, Tianer - SHI, Jie Hu - YING, Ying - GU, Jiajia - GUO, Yanping - LIAO, Fanglei - CHEN, Wenrong. Mechanism of Cadmium Transport and Accumulation in Maize and Its Physiological Response Against Cd Toxicity. In Journal of the Chinese Cereals and Oils Association. ISSN 10030174, 2019-09-25, 34, 9, pp. 139-146., Registrované v: SCOPUS

ADCA1424 VATEHOVÁ, Zuzana** - KOLLÁROVÁ, Karin - MALOVÍKOVÁ, Anna - LIŠKOVÁ, Desana. Maize shoot cell walls under cadmium stress. In *Environmental Science and Pollution Research*, 2018, vol. 25, p. 22318-22322. (2017: 2.800 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-018-2602-1>

Ohlasy:

1. [1.1] CHENG, Yiran - BAO, Yunjing - CHEN, Xing - YAO, Qin - WANG, Chao - CHAI, Songyue - ZENG, Jian - FAN, Xing - KANG, Houyang - SHA, Lina - ZHANG, Haiqin - ZHOU, Yonghong - WANG, Yi. Different nitrogen forms differentially affect Cd uptake and accumulation in dwarf Polish wheat (*Triticum polonicum* L.) seedlings. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 400, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.123209>, Registrované v: WOS

2. [1.1] JIA, Honglei - WANG, Xiaohong - WEI, Ting - ZHOU, Ran - MUHAMMAD, Haris - HUA, Li - REN, Xinhao - GUO, Junkang - DING, Yongzhen. Accumulation and fixation of Cd by tomato cell wall pectin under Cd

stress. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2019, vol. 167, no., pp., Registrované v: WOS

3. [1.1] SHEN, Mi - SCHNEIDER, Harald - XU, Runbing - CAO, Guanhua - ZHANG, Hanbo - LI, Tao - ZHAO, Zhiwei. Dark septate endophyte enhances maize cadmium (Cd) tolerance by the remodeled host cell walls and the altered Cd subcellular distribution. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 172, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104000>., Registrované v: WOS

4. [1.1] WANG, Xue-song - FU, Hui-ling - GONG, Fei-yue - ZHANG, Yan - HE, Chun-tao - YANG, Zhong-yi. Lignin side chain region participates in Cd detoxification related to the cultivar-dependent Cd accumulation in *Brassica chinensis* L. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 392, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.122264>., Registrované v: WOS

ADCA1425 VLČKOVÁ, Viera - DÚHOVÁ, V. - SVIDOVÁ, Soňa - FARKAŠOVÁ, A. - KAMASOVÁ, S. - VLČEK, D. - KOGAN, Grigorij - RAUKO, Peter - MIADOKOVÁ, Eva. Antigenotoxic potential of glucomannan on four model test systems. In *Cell biology and toxicology*, 2004, vol. 20, no. 6, p. 325-332. ISSN 0742-2091. Dostupné na: <https://doi.org/10.1007/s10565-004-0089-7>

Ohlasy:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] FDHILA, Kais - HADDAJI, Najla - CHAKROUN, Ibtissem - MACHERKI, Mohammed Ezz Eddine - NEFZI, Faten - BAKHROUF, Amina. Glucomannan's protective effect on the virulence of *Vibrio splendidus* in pacific oyster. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2016, vol. 56, no., pp. 410., Registrované v: WOS

3. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS

4. [1.1] MADRIGAL-SANTILLAN, Eduardo - MADRIGAL-BUJADAR, Eduardo - REYES-ARELLANO, Alicia - ANTONIO MORALES-GONZALEZ, Jose - ALVAREZ-GONZALEZ, Isela - SANCHEZ-GUTIERREZ, Manuel - IZQUIERDO-VEGA, Jeannett A. - CALZADA-MENDOZA, Claudia C. - ANGUIANO-ROBLEDO, Liliana - MORALES-GONZALEZ, Angel. Supramolecular complex formation, a possible antigenotoxic mechanism of glucomannan against aflatoxin B-1. In TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY. ISSN 0277-2248, 2019, vol. 101, no. 7-8, pp. 369-388., Registrované v: WOS

5. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS

6. [1.2] UTAMA, Gemilang Lara - MELIANA, Siska - DJALI, Mohamad - YULIANA, Tri - BALIA, Roostita L. Probiotic candidates yeast isolated from dangke–Indonesian traditional fermented buffalo milk. In *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*. ISSN 12118516, 2019-01-01, 67, 1, pp. 179-187., Registrované v: SCOPUS

ADCA1426 VODENIČAROVÁ, M. - DŘÍMALOVÁ, E. - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna. Xyloglucan degradation using different radiation sources: A comparative study. In *Ultrasonics Sonochemistry*, 2006, vol. 13, p. 157-164. (2005: 1.953 - IF, Q1 - JCR, 0.943 - SJR, Q1 - SJR). ISSN 1350-4177. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2005.03.001>

Ohlasy:

1. [1.1] AKRAM, Kashif - SHAHBAZ, Hafiz Muhammad - KIM, Gui-Ran - FAROOQ, Umar - KWON, Joong-Ho. Improved Extraction and Quality Characterization of Water-Soluble Polysaccharide from Gamma-Irradiated *Lentinus edodes*. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2017, vol. 82, no. 2, pp. 296-303., Registrované v: WOS
2. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS
3. [1.1] AZIZI, Rezvan - FARAHNAKY, Asgar. Ultrasound assisted-viscosifying of kappa carrageenan without heating. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 61, no., pp. 85-91., Registrované v: WOS
4. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Pdraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS
5. [1.1] DING, Qingzhi - LI, Zhikun - WU, Wei - SU, Yingying - SUN, Nianzhen - LUO, Lin - MA, Haile - HE, Ronghai. Physicochemical and functional properties of dietary fiber from *Nannochloropsis oceanica*: A comparison of alkaline and ultrasonic-assisted alkaline extractions. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.110080.>, Registrované v: WOS
6. [1.1] GU, Hanqi - ZHU, Yuyong - LI, Jie - PENG, Yanfang - HUANG, Jinglu - BI, Chunpu. Ultrasound-assisted fractionation of dried distillers' grains with solubles (DDGS) at mild temperature for co-production of xylan and protein feed. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2019, vol. 94, no. 3, pp. 829-836., Registrované v: WOS
7. [1.1] CHEN, Jialun - CHEN, Lei - LIN, Shaoling - LIU, Chaoran - CHEUNG, Peter C. K. Preparation and structural characterization of a partially depolymerized beta-glucan obtained from *Poria cocos sclerotium* by ultrasonic treatment. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 46, no., pp. 1-9., Registrované v: WOS
8. [1.1] KIA, Ala Ghasemi - GANJLOO, Ali - BIMAKR, Mandana. A

- Short Extraction Time of Polysaccharides from Fenugreek (*Trigonella foenum-graecum*) Seed Using Continuous Ultrasound Acoustic Cavitation: Process Optimization, Characterization and Biological Activities. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2018, vol. 11, no. 12, pp. 2204-2216., Registrované v: WOS
9. [1.1] LIU, Chao - SUN, Yonghai - MAO, Qian - GUO, Xiaolei - LI, Peng - LIU, Yang - XU, Na. Characteristics and Antitumor Activity of *Morchella esculenta* Polysaccharide Extracted by Pulsed Electric Field. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2016, vol. 17, no. 6, pp., Registrované v: WOS
10. [1.1] LI, Mei - LI, Junxun - ZHU, Chuanhe. Effect of ultrasound pretreatment on enzymolysis and physicochemical properties of corn starch. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 111, no., pp. 848-856., Registrované v: WOS
11. [1.1] MINJARES-FUENTES, R. - FEMENIA, A. - GARAU, M. C. - CANDELAS-CADILLO, M. G. - SIMAL, S. - ROSSELLO, C. Ultrasound-assisted extraction of hemicelluloses from grape pomace using response surface methodology. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 138, no., pp. 180-191., Registrované v: WOS
12. [1.1] PRAJAPAT, Amrutlal L. - GOGATE, Parag R. Depolymerization of guar gum solution using different approaches based on ultrasound and microwave irradiations. In *CHEMICAL ENGINEERING AND PROCESSING*. ISSN 0255-2701, 2015, vol. 88, no., pp. 1-9., Registrované v: WOS
13. [1.1] RAOUFI, Nassim - KADKHODAEI, Rassoul - FANG, Yapeng - PHILLIPS, Glyn O. Ultrasonic degradation of Persian gum and gum tragacanth: Effect on chain conformation and molecular properties. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2019, vol. 52, no., pp. 311-317., Registrované v: WOS
14. [1.1] SONG, Ang-Xin - MAO, Yu-Heng - SIU, Ka-Chai - WU, Jian-Yong. Bifidogenic effects of *Cordyceps sinensis* fungal exopolysaccharide and konjac glucomannan after ultrasound and acid degradation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 111, no., pp. 587-594., Registrované v: WOS
15. [1.1] TIAN, Jinhe - WANG, Yanjie - ZHU, Zhiwei - ZENG, Qingxiao - XIN, Meili. Recovery of *Tilapia* (*Oreochromis niloticus*) Protein Isolate by High-Intensity Ultrasound-Aided Alkaline Isoelectric Solubilization/Precipitation Process. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2015, vol. 8, no. 4, pp. 758-769., Registrované v: WOS
16. [1.1] TODARO, Simona - SABATINO, Maria Antonietta - MANGIONE, Maria Rosalia - PICONE, Pasquale - DI GIACINTO, Maria Laura - BULONE, Donatella - DISPENZA, Celia. Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 152, no., pp. 382-390., Registrované v: WOS
17. [1.1] TODARO, Simona - SABATINO, Maria Antonietta - AJOVALASIT, Alessia - DITTA, Lorena A. - CASTIGLIA, Debora - WACH, Radoslaw A. - ULANSKI, Piotr - BULONE, Donatella - DISPENZA, Clelia. Radiation Engineering of Xyloglucan Hydrogels. In *5TH INTERNATIONAL*

SYMPOSIUM ON INDUSTRIAL BIOTECHNOLOGY (IBIC 2016). ISSN 1974-9791, 2016, vol. 49, no., pp. 289-294., Registrované v: WOS

18. [1.1] VILLARES, Ana - BIZOT, Herve - MOREAU, Celine - ROLLAND-SABATE, Agnes - CATHALA, Bernard. Effect of xyloglucan molar mass on its assembly onto the cellulose surface and its enzymatic susceptibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1105-1112., Registrované v: WOS

19. [1.1] YAN, Jing-Kun - PEI, Juan-Juan - MA, Hai-Le - WANG, Zhen-Bin. Effects of ultrasound on molecular properties, structure, chain conformation and degradation kinetics of carboxylic curdlan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 121, no., pp. 64-70., Registrované v: WOS

20. [1.1] YAO, Yang - ZHU, Yingying - REN, Guixing. Immunoregulatory activities of polysaccharides from mung bean. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 139, no., pp. 61-66., Registrované v: WOS

21. [1.1] YI, Yang - XU, Wei - WANG, Hong-Xun - HUANG, Fei - WANG, Li-Mei. Natural polysaccharides experience physiochemical and functional changes during preparation: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115896>., Registrované v: WOS

22. [1.1] ZENDEBOODI, Fetemeh - FARAHNAKY, Asgar - GHOLIAN, Mohammad Mahdi. Structural changes and stress relaxation behavior of kappa-carrageenan cold-processed gels: Effects of ultrasonication time and power. In JOURNAL OF TEXTURE STUDIES. ISSN 0022-4901, 2019, vol. 50, no. 6, pp. 465-473., Registrované v: WOS

23. [1.1] ZHANG, Yuchi - LIU, Chunming - QI, Yanjuan - LI, Yuchun - LI, Sainan - WANG, Yuqi - REN, Junqi - TANG, Ying. Efficient combination of circulating ultrasound-assisted extraction and centrifugal partition chromatography for extraction and on-line separation of chemical constituents from *Stellera chamaejasme* L. In PHYTOCHEMICAL ANALYSIS. ISSN 0958-0344, 2015, vol. 26, no. 5, pp. 301-309., Registrované v: WOS

24. [1.2] CHEN, Jingqiu - CHEN, Shiguo - CHEN, Jianle - YE, Xingqian. The Preparation of Low-methoxyl Pectin by Ultrasonic Method. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-11-30, 17, 11, pp. 82-89., Registrované v: SCOPUS

25. [1.2] MUTHUKUMARAPPAN, Kasiviswanathan - TIWARI, B. K. - O'DONNELL, C. P. - CULLEN, P. J. Ultrasound processing: Rheological and functional properties of food. In Novel Food Processing: Effects on Rheological and Functional Properties, 2016-04-19, pp. 85-102., Registrované v: SCOPUS

ADCA1427 VOJTECH, Michal - PETRUŠOVÁ, Mária - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Direct conversion of 1-deoxy-1-nitroalditols to methyl glycofuranosides. In *Tetrahedron Letters*, 2008, vol.49, p. 3112-3116. (2007: 2.615 - IF, Q2 - JCR, 1.448 - SJR, Q1 - SJR). ISSN 0040-4039. Dostupné na: <https://doi.org/10.1016/j.tetlet.2008.03.044>

Ohlasy:

1. [1.1] BALLINI, Roberto - PETRINI, Marino. The Nitro to Carbonyl Conversion (Nef Reaction): New Perspectives for a Classical Transformation. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2015, vol. 357,

no. 11, pp. 2371-2402., Registrované v: WOS

2. [1.1] DRABINA, Pavel - HORAKOVA, Eva - RUZICKOVA, Zdenka - SEDLAK, Milos. Henry reaction catalyzed by new series of imidazolidine-4-one Cu-complexes. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2015, vol. 26, no. 2-3, pp. 141-147., Registrované v: WOS

3. [1.1] TANG, Shengbiao - XIONG, De-Cai - JIANG, Shende - YE, Xin-Shan. Nitro-polyols via Pyridine Promoted C=C Cleavage of 2-Nitroglycols. Application to the Synthesis of (-)-Hyacinthacine A1. In *ORGANIC LETTERS*. ISSN 1523-7060, 2016, vol. 18, no. 3, pp. 568-571., Registrované v: WOS

ADCA1428 VOJTECH, Michal - PETRUŠOVÁ, Mária - SLÁVIKOVÁ, Elena - BEKEŠOVÁ, Slávka - PETRUŠ, Ladislav. One-pot synthesis of 2-C-glycosylated benzimidazoles from the corresponding methanal dimethyl acetals. In *Carbohydrate Research*, 2007, vol. 342, p. 119-123. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, Current Contents - CCC). (2007 - Current Contents). ISSN 0008-6215.
Dostupné na: <https://doi.org/10.1016/j.carres.2006.10.019>

Ohlasy:

1. [1.1] BOKOR, Eva - KUN, Sandor - GOYARD, David - TOTH, Marietta - PRALY, Jean-Pierre - VIDAL, Sebastien - SOMSAK, Laszlo. C-Glycopyranosyl Arenes and Hetarenes: Synthetic Methods and Bioactivity Focused on Antidiabetic Potential. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 3, pp. 1687-1764., Registrované v: WOS

2. [1.1] KHOSE, Vaibhav N. - JOHN, Marina E. - PANDEY, Anita D. - KARNIK, Anil V. Chiral benzimidazoles and their applications in stereodiscrimination processes. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2017, vol. 28, no. 10, pp. 1233-1289., Registrované v: WOS

3. [1.1] MISHRA, Sarita - ROY, Soumik - GHOSH, Rina - DEY, Diganta - HAZRA, Banasri. FeCl₃ catalyzed tandem synthesis of optically pure sugar based benzimidazoles. In *JOURNAL OF THE INDIAN CHEMICAL SOCIETY*. ISSN 0019-4522, 2020, vol. 97, no. 2, pp. 197-211., Registrované v: WOS

4. [1.1] PRAMANIK, Nabyendu - SARKAR, Satinath - ROY, Dipanwita - DEBNATH, Sudipto - GHOSH, Sukla - KHAMARUI, Saikat - MAITI, Dilip K. Synthesis and diverse general oxidative cyclization catalysis of high-valent (MoO₂)-O-VI(HL) to ubiquitous heterocycles and their chiral analogues with high selectivity. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 123, pp. 101959-101964., Registrované v: WOS

5. [1.1] SOKOLENKO, Taras M. - DAVYDOVA, Yulia A. - YAGUPOLSKII, Yurii L. Polyfluoroethoxy derivatives of malonic aldehyde acetal in the synthesis of heterocyclic compounds. In *CHEMISTRY OF HETEROCYCLIC COMPOUNDS*. ISSN 0009-3122, 2015, vol. 51, no. 4, pp. 324-326., Registrované v: WOS

ADCA1429 VOJTECH, Michal - PETRUŠOVÁ, Mária - VALENT, Ivan - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Preparation of D-galactofuranosyl nitromethanes: a revision and a new approach. In *Carbohydrate Research*, 2011, vol. 346, p. 715-721. (2010: 1.898 - IF, Q2 - JCR, 0.730 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2011.02.007>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp. 255-422., Registrované v: WOS
2. [1.1] TANG, Shengbiao - XIONG, De-Cai - JIANG, Shende - YE, Xin-Shan. Nitro-polyols via Pyridine Promoted C=C Cleavage of 2-Nitroglycols. Application to the Synthesis of (-)-Hyacinthacine A1. In ORGANIC LETTERS. ISSN 1523-7060, 2016, vol. 18, no. 3, pp. 568-571., Registrované v: WOS
3. [1.1] YANG, Lin - LIN, Zuming - SHAO, Shunjie - ZHAO, Qian - HONG, Ran. An Enantioconvergent and Concise Synthesis of Lasonolide A. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 49, pp. 16200-16204., Registrované v: WOS
4. [1.1] YANG, Lin - LIN, Zuming - ZHENG, Kuan - KONG, Luyao - HONG, Ran. A Modular Synthesis of Antitumor Macrolide (-)-Lasonolide A(dagger). In CHINESE JOURNAL OF CHEMISTRY. ISSN 1001-604X, 2020, vol. 38, no. 7, pp. 725-736. Dostupné na: <https://doi.org/10.1002/cjoc.202000026>., Registrované v: WOS
5. [1.2] Goekjian, P., Haudrechy, A., Menhour, B., & Coiffier, C. (2017). In C-Furanosides: Synthesis and Stereochemistry. (Elsevier, pp. 1-771), Registrované v: SCOPUS

ADCA1430 VON DER KAMMER H - LÖFFLER C - HANES, Jozef - KLAUDINY, Jaroslav - SCHEIT K.H. The gene for the amyloid precursor-like protein APLP2 is assigned to human chromosome 11q23-q25. In *Genomics*, 1994, vol., 10, p. 308-311. ISSN 0888-7543.

Ohlasy:

1. [1.1] PANDEY, P. - SLIKER, B. - PETERS, H.L. - TULI, A. - HERSKOVITZ, J. - SMITS, K. - PUROHIT, A. - SINGH, R.K. - DONG, J.X. - BATRA, S.K. - COULTER, D.W. - SOLHEIM, J.C. Amyloid precursor protein and amyloid precursor-like protein 2 in cancer. In ONCOTARGET. APR 12 2016, vol. 7, no. 15, p. 19430-19444., Registrované v: WOS
2. [1.1] TKATCHENKO, A.V. - TKATCHENKO, T.V. - GUGGENHEIM, J.A. - VERHOEVEN, V.J.M. - HYSI, P.G. - WOJCIECHOWSKI, R. - SINGH, P.K. - KUMAR, A. - THINAKARAN, G. - WILLIAMS, C. APLP2 Regulates Refractive Error and Myopia Development in Mice and Humans. In PLOS GENETICS. ISSN 1553-7404, AUG 2015, vol. 11, no. 8., Registrované v: WOS

ADCA1431 VOS, Paul de - BUČKO, Marek - GEMEINER, Peter - NAVRÁTIL, Marián - ŠVITEL, Juraj - FAAS, Marijke - STRAND, Berit Lokensgard - SKJAK-BRAEK, Gudmund - MORCH, Yrr A. - VIKARTOVSKÁ, Alica - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - ORIVE, Gorka - PONCELET, Dennis - PEDRAZ, Jose Luis - ANSORGE-SCHUMACHER, Marion B. Multiscale requirements for bioencapsulation in medicine and biotechnology. In *Biomaterials*, 2009, vol. 30, p. 2559 - 2570. (2008: 6.646 - IF, Q1 - JCR, 3.012 - SJR, Q1 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0142-9612. Dostupné na: <https://doi.org/10.1016/j.biomaterials.2009.01.014>

Ohlasy:

1. [1.1] AIJAZ, A. - LI, M. - SMITH, D. - KHONG, D. - LEBLON, C. - FENTON, O.S. - OLABISI, R.M. - LIBUTTI, S. - TISCHFIELD, J. - MAUS, M.V. - DEANS, R. - BARCIA, R.N. - ANDERSON, D.G. - RITZ, J. - PRETI, R. - PAREKKADAN, B. Biomanufacturing for clinically advanced cell therapies. In NATURE BIOMEDICAL ENGINEERING. ISSN 2157-846X, JUN 2018, vol. 2, no. 6, p. 362-376., Registrované v: WOS
2. [1.1] ALINEJAD, Y. - BITAR, C.M.E. - VILLEGAS, K.M. - PERIGNON, S. - HOESLI, C.A. - LEROUGE, S. Chitosan Microbeads Produced by One-Step Scalable Stirred Emulsification: A Promising Process for Cell Therapy Applications. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JAN 2020, vol. 6, no. 1, p. 288-297., Registrované v: WOS
3. [1.1] BENAMER, W. - CELLESI, F. - TIRELLI, N. Chitosan/beta-glycerophosphate-based microparticles manufactured by laminar jet break-up technology. In JOURNAL OF MICROENCAPSULATION. ISSN 0265-2048, 2018, vol. 35, no. 5, p. 407-420., Registrované v: WOS
4. [1.1] COIMBRA, N.V. - NASCIMENTO, M. - GIESE, E.C. EVALUATION OF THE USE OF BACTERIAL IMMOBILIZED BIOMASS IN LIGHT AND MEDIUM RARE-EARTH ELEMENTS BIOSORPTION. In HOLOS. ISSN 1518-1634, 2017, vol. 33, no. 6, p. 136-146., Registrované v: WOS
5. [1.1] CORREIA, C.R. - NADINE, S. - MANO, J.F. Cell Encapsulation Systems Toward Modular Tissue Regeneration: From Immunoisolation to Multifunctional Devices. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, JUN 2020, vol. 30, no. 26, SI., Registrované v: WOS
6. [1.1] DIEKJURGEN, D. - GRAINGER, D.W. Polysaccharide matrices used in 3D in vitro cell culture systems. In BIOMATERIALS. ISSN 0142-9612, OCT 2017, vol. 141, p. 96-115., Registrované v: WOS
7. [1.1] DURUKSU, G. - POLAT, S. - KAYIS, L. - EKIMCI GURCAN, N. - GACAR, G. - YAZIR, Y. Improvement of the insulin secretion from beta cells encapsulated in alginate/poly-L-histidine/alginate microbeads by platelet-rich plasma. In TURKISH JOURNAL OF BIOLOGY. ISSN 1300-0152, 2018, vol. 42, no. 4, p. 297-306., Registrované v: WOS
8. [1.1] ETCHEPARE, M.D. - BARIN, J.S. - CICHOSKI, A.J. - JACOB-LOPES, E. - WAGNER, R. - FRIES, L.L.M. - DE MENEZES, C.R. Microencapsulation of probiotics using sodium alginate. In CIENCIA RURAL. ISSN 0103-8478, JUL 2015, vol. 45, no. 7, p. 1319-1326., Registrované v: WOS
9. [1.1] FACKLAM, Amanda L. - VOLPATTI, Lisa R. - ANDERSON, Daniel G. Biomaterials for Personalized Cell Therapy. In ADVANCED MATERIALS. ISSN 0935-9648, 2020, vol. 32, no. 13, pp. Dostupné na: <https://doi.org/10.1002/adma.201902005>., Registrované v: WOS
10. [1.1] FACKLAM, A.L. - VOLPATTI, L.R. - ANDERSON, D.G. Biomaterials for Personalized Cell Therapy. In ADVANCED MATERIALS. ISSN 0935-9648, APR 2020, vol. 32, no. 13, SI., Registrované v: WOS
11. [1.1] FARINA, M. - ALEXANDER, J.F. - THEKKEDATH, U. - FERRARI, M. - GRATTONI, A. Cell encapsulation: Overcoming barriers in cell transplantation in diabetes and beyond. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, JAN 15 2019, vol. 139, SI, p. 92-115., Registrované v: WOS

12. [1.1] FUCHS, Stephanie - SHARIATI, Kaavian - MA, Minglin. Specialty Tough Hydrogels and Their Biomedical Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.1002/adhm.201901396>., Registrované v: WOS
13. [1.1] FUCHS, S. - SHARIATI, K. - MA, M.L. Specialty Tough Hydrogels and Their Biomedical Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, JAN 2020, vol. 9, no. 2., Registrované v: WOS
14. [1.1] GALVEZ-MARTIN, P. - MARTIN, J.M. - RUIZ, A.M. - CLARES, B. Encapsulation in Cell Therapy: Methodologies, Materials, and Clinical Applications. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2017, vol. 18, no. 5, p. 365-377., Registrované v: WOS
15. [1.1] GIESE, E.C. MINING APPLICATIONS OF IMMOBILIZED MICROBIAL CELLS IN AN ALGINATE MATRIX: AN OVERVIEW. In REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL. ISSN 0188-4999, 2020, vol. 36, no. 3, p. 775-787., Registrované v: WOS
16. [1.1] GRYSHKOV, O. - HOFMANN, N. - LAUTERBOECK, L. - POGOZHYKH, D. - MUELLER, T. - GLASMACHER, B. Multipotent stromal cells derived from common marmoset Callithrix jacchus within alginate 3D environment: Effect of cryopreservation procedures. In CRYOBIOLOGY. ISSN 0011-2240, AUG 2015, vol. 71, no. 1, p. 103-111., Registrované v: WOS
17. [1.1] HATI, A.G. - ARNFINNSDOTTIR, N.B. - OSTEVOLD, C. - SLETMOEN, M. - ETIENNE, G. - AMSTAD, E. - STOKKE, B.T. Microarrays for the study of compartmentalized microorganisms in alginate microbeads and (W/O/W) double emulsions. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 115, p. 114830-114842., Registrované v: WOS
18. [1.1] HECK, R.T. - VENDRUSCOLO, R.G. - ETCHEPARE, M.D.A. - CICHOSKI, A.J. - DE MENEZES, C.R. - BARIN, J.S. - LORENZO, J.M. - WAGNER, R. - CAMPAGNOL, P.C.B. Is it possible to produce a low-fat burger with a healthy n-6/n-3 PUPA ratio without affecting the technological and sensory properties?. In MEAT SCIENCE. ISSN 0309-1740, AUG 2017, vol. 130, p. 16-25., Registrované v: WOS
19. [1.1] HEYDARI, A. - DOOSTAN, F. - KHOSHNOOD, H. - SHEIBANI, H. Water-soluble cationic poly(beta-cyclodextrin-co-guanidine) as a controlled vitamin B-2 delivery carrier. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 40, p. 33267-33278., Registrované v: WOS
20. [1.1] HOLZMEISTER, I. - SCHAMEL, M. - GROLL, J. - GBURECK, U. - VORNDRAN, E. Artificial inorganic biohybrids: The functional combination of microorganisms and cells with inorganic materials. In ACTA BIOMATERIALIA. ISSN 1742-7061, JUL 1 2018, vol. 74, p. 17-35., Registrované v: WOS
21. [1.1] CHAN, K.H. - KRISHNAN, R. - ALEXANDER, M. - LAKEY, J.R.T. Developing a Rapid Algorithm to Enable Rapid Characterization of Alginate Microcapsules. In CELL TRANSPLANTATION. ISSN 0963-6897, 2017, vol. 26, no. 5, p. 765-772., Registrované v: WOS
22. [1.1] CHAN, K.H. - TAY, J.J.J. Advancement of Peptide Nanobiotechnology via Emerging Microfluidic Technology. In MICROMACHINES. OCT 2019, vol. 10, no. 10., Registrované v: WOS
23. [1.1] JAWOREK, Anatol. ELECTROHYDRODYNAMIC MICROENCAPSULATION TECHNOLOGY. In ENCAPSULATIONS:

- NANOTECHNOLOGY IN THE AGRI-FOOD INDUSTRY, VOL 2, 2016, vol. 2, no., pp. 1-45., Registrované v: WOS
24. [1.1] KIM, D.H. - LEE, S.B. - PARK, H.D. Effect of air-blast drying and the presence of protectants on the viability of yeast entrapped in calcium alginate beads with an aim to improve the survival rate. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, JAN 2017, vol. 101, no. 1, p. 93-102., Registrované v: WOS
25. [1.1] KIM, D.H. - LEE, S.B. - PARK, H.D. FERMENTATION CHARACTERISTICS OF CAMPBELL EARLY GRAPE WINE INOCULATED WITH INDIGENOUS KOREAN WINE YEASTS ENCAPSULATED IN CA-ALGINATE BEADS AFTER AIR-BLAST DRYING. In ITALIAN JOURNAL OF FOOD SCIENCE. ISSN 1120-1770, 2018, vol. 30, no. 3, p. 535-552., Registrované v: WOS
26. [1.1] KONG, Y. - ZHAO, Y. - LI, D. - SHEN, H.W. - YAN, M.M. Dual delivery of encapsulated BM-MSCs and BMP-2 improves osteogenic differentiation and new bone formation. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A. ISSN 1549-3296, OCT 2019, vol. 107, no. 10, p. 2282-2295., Registrované v: WOS
27. [1.1] LAI, W.F. Microfluidic Methods for Non-Viral Gene Delivery. In CURRENT GENE THERAPY. ISSN 1566-5232, 2015, vol. 15, no. 1, p. 55-63., Registrované v: WOS
28. [1.1] LIFFOURRENA, A.S. - LUCCHESI, G.I. Alginate-perlite encapsulated *Pseudomonas putida* A (ATCC 12633) cells: Preparation, characterization and potential use as plant inoculants. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, JUL 20 2018, vol. 278, p. 28-33., Registrované v: WOS
29. [1.1] LIN, C. Y. - TA, D. T. - CHU, C. Y. - TA, T. M. N. Single-stage biohythane production via co-immobilized fermentative microorganisms. In ENVIRONMENTAL TECHNOLOGY AND INNOVATIONS, 2017, vol., no., pp. 127-131., Registrované v: WOS
30. [1.1] LLACUA, L.A. - HOEK, A. - DE HAAN, B.J. - DE VOS, P. Collagen type VI interaction improves human islet survival in immunoisolating microcapsules for treatment of diabetes. In ISLETS. ISSN 1938-2014, 2018, vol. 10, no. 2, p. 60-68., Registrované v: WOS
31. [1.1] LONG, R.M. - LIU, Y.G. - WANG, S.B. - YE, L. - HE, P. Co-microencapsulation of BMSCs and mouse pancreatic beta cells for improving the efficacy of type I diabetes therapy. In INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS. ISSN 0391-3988, APR 2017, vol. 40, no. 4, p. 169-175., Registrované v: WOS
32. [1.1] MACIK, M. - GRYTA, A. - FRAC, M. Biofertilizers in agriculture: An overview on concepts, strategies and effects on soil microorganisms. In ADVANCES IN AGRONOMY, VOL 162. ISSN 0065-2113, 2020, vol. 162, p. 31-87., Registrované v: WOS
33. [1.1] MAHOU, R. - BORCARD, F. - CRIVELLI, V. - MONTANARI, E. - PASSEMARD, S. - NOVERRAZ, F. - GERBER-LEMAIRE, S. - BUEHLER, L. - WANDREY, C. Tuning the Properties of Hydrogel Microspheres by Adding Chemical Cross-linking Functionality to Sodium Alginate. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, JUN 23 2015, vol. 27, no. 12, p. 4380-4389., Registrované v: WOS
34. [1.1] MARFIL-GARZA, B.A. - POLISHEVSKA, K. - PEPPER, A.R.

- KORBUTT, G.S. Current State and Evidence of Cellular Encapsulation Strategies in Type 1 Diabetes. In *COMPREHENSIVE PHYSIOLOGY*. ISSN 2040-4603, JUL 2020, vol. 10, no. 3, p. 839-878., Registrované v: WOS
- 35. [1.1] OPARA, E.C. Applications of Cell Microencapsulation. In *CELL MICROENCAPSULATION: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1479, p. 23-39., Registrované v: WOS
- 36. [1.1] OTA, A. - VISNJEVEC, A.M. - VIDRIH, R. - PRGOMET, Z. - NECEMER, M. - HRIBAR, J. - CIMERMAN, N.G. - MOZINA, S.S. - BUCAR-MIKLAVCIC, M. - ULRIH, N.P. Nutritional, antioxidative, and antimicrobial analysis of the Mediterranean hackberry (*Celtis australis* L.). In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, JAN 2017, vol. 5, no. 1, p. 160-170., Registrované v: WOS
- 37. [1.1] PAJIC-LIJAKOVIC, I. - LEVIC, S. - HADNADEV, M. - STEVANOVIC-DAJIC, Z. - RADOSEVIC, R. - NEDOVIC, V. - BUGARSKI, B. Structural changes of Ca-alginate beads caused by immobilized yeast cell growth. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, NOV 15 2015, vol. 103, p. 32-38., Registrované v: WOS
- 38. [1.1] PEREIRA, M.S. - CARDOSO, L.M.D. - DA SILVA, T.B. - TEIXEIRA, A.J. - MIZRAHI, S.E. - FERREIRA, G.S.M. - DANTAS, F.M.L. - COTTA-DE-ALMEIDA, V. - ALVES, L.A. A Low-Cost Open Source Device for Cell Microencapsulation. In *MATERIALS*. NOV 2020, vol. 13, no. 22., Registrované v: WOS
- 39. [1.1] POP, Oana Lelia - VODNAR, Dan Cristian - SOCACIU, Carmen. Encapsulation Field Polymers Fourier Transform Infrared Spectroscopy (FTIR). In *HANDBOOK OF ENCAPSULATION AND CONTROLLED RELEASE*, 2016, vol., no., pp. 617-639., Registrované v: WOS
- 40. [1.1] SCOGNAMIGLIO, F. - TRAVAN, A. - COK, M. - BORGOGNA, M. - MARSICH, E. - PAOLETTI, S. - DONATI, I. On the demixing of hyaluronan and alginate in the gel state. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, FEB 2017, vol. 95, p. 49-53., Registrované v: WOS
- 41. [1.1] SIPAILIENE, A. - PETRAITYTE, S. Encapsulation of Probiotics: Proper Selection of the Probiotic Strain and the Influence of Encapsulation Technology and Materials on the Viability of Encapsulated Microorganisms. In *PROBIOTICS AND ANTIMICROBIAL PROTEINS*. ISSN 1867-1306, MAR 2018, vol. 10, no. 1, p. 1-10., Registrované v: WOS
- 42. [1.1] SMITH, K.E. - JOHNSON, R.C. - PAPAS, K.K. Update on cellular encapsulation. In *XENOTRANSPLANTATION*. ISSN 0908-665X, SEP-OCT 2018, vol. 25, no. 5., Registrované v: WOS
- 43. [1.1] SONG, S. - ROY, S. Progress and challenges in macroencapsulation approaches for type 1 diabetes (T1D) treatment: Cells, biomaterials, and devices. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, JUL 2016, vol. 113, no. 7, p. 1381-1402., Registrované v: WOS
- 44. [1.1] TOMEIT, A.A. - VILLA, C. - RICORDI, C. Development of an encapsulated stem cell-based therapy for diabetes. In *EXPERT OPINION ON BIOLOGICAL THERAPY*. ISSN 1471-2598, SEP 2015, vol. 15, no. 9, p. 1321-1336., Registrované v: WOS
- 45. [1.1] TRAVAN, A. - FIORENTINO, S. - GRASSI, M. - BORGOGNA, M. - MARSICH, E. - PAOLETTI, S. - DONATI, I. Rheology of

mixed alginate-hyaluronan aqueous solutions. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 2015, vol. 78, p. 363-369., Registrované v: WOS

46. [1.1] VAITHILINGAM, V. - STEINKJER, B. - RYAN, L. - LARSSON, R. - TUCH, B.E. - OBERHOLZER, J. - ROKSTAD, A.M. In Vitro and In Vivo Biocompatibility Evaluation of Polyallylamine and Macromolecular Heparin Conjugates Modified Alginate Microbeads. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 15 2017, vol. 7., Registrované v: WOS

47. [1.1] VEGAS, A.J. - VEISEH, O. - DOLOFF, J.C. - MA, M.L. - TAM, H.H. - BRATLIE, K. - LI, J. - BADER, A.R. - LANGAN, E. - OLEJNIK, K. - FENTON, P. - KANG, J.W. - HOLLISTER-LOCKE, J. - BOCHENEK, M.A. - CHIU, A. - SIEBERT, S. - TANG, K. - JHUNJHUNWALA, S. - ARESTA-DASILVA, S. - DHOLAKIA, N. - THAKRAR, R. - VIETTI, T. - CHEN, M. - COHEN, J. - SINIAKOWICZ, K. - QI, M.R.G. - MCGARRIGLE, J. - LYLE, S. - HARLAN, D.M. - GREINER, D.L. - OBERHOLZER, J. - WEIR, G.C. - LANGER, R. - ANDERSON, D.G. Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. In NATURE BIOTECHNOLOGY. ISSN 1087-0156, MAR 2016, vol. 34, no. 3, p. 345-+, Registrované v: WOS

48. [1.1] WANG, G. - WANG, J.J. - LI, F. - TO, S.S.T. Development and Evaluation of a Novel Drug Delivery: Pluronic/SDS Mixed Micelle Loaded With Myricetin In Vitro and In Vivo. In JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0022-3549, APR 2016, vol. 105, no. 4, p. 1535-1543., Registrované v: WOS

49. [1.1] WANG, X.L. - BEN AHMED, N. - ALVAREZ, G.S. - TUTTOLOMONDO, M.V. - HELARY, C. - DESIMONE, M.F. - CORADIN, T. Sol-gel Encapsulation of Biomolecules and Cells for Medicinal Applications. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2015, vol. 15, no. 3, p. 223-244., Registrované v: WOS

50. [1.1] WANI, T.A. - SHAH, A.G. - WANI, S.M. - WANI, I.A. - MASOODI, F.A. - NISSAR, N. - SHAGOO, M.A. Suitability of Different Food Grade Materials for the Encapsulation of Some Functional Foods Well Reported for Their Advantages and Susceptibility. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2016, vol. 56, no. 15, p. 2431-2454., Registrované v: WOS

51. [1.1] YANG, Y.P. - OPARA, E.C. - LIU, Y.B. - ATALA, A. - ZHAO, W.X. Microencapsulation of porcine thyroid cell organoids within a polymer microcapsule construct. In EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 1535-3702, FEB 2017, vol. 242, no. 3, p. 286-296., Registrované v: WOS

52. [1.1] ZHANG, Y.B. - ALEXANDER, M. - YANG, S. - BIAN, Y.X. - BOTVINICK, E. - LAKEY, J.R.T. - OZCAN, A. High-Throughput Screening of Encapsulated Islets Using Wide-Field Lens-Free On-Chip Imaging. In ACS PHOTONICS. ISSN 2330-4022, JUN 2018, vol. 5, no. 6, p. 2081-2086., Registrované v: WOS

53. [1.1] ZHENG, H.Z. - LI, S. - GAO, M. - REN, Y. - ZHENG, G.S. - XIE, H.G. - YU, W.T. - WANG, X.L. - MA, X.J. An improved model for exploring the effect of physicochemical properties of alginate-based microcapsules on their fibrosis formation in vivo. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 96, p. 93288-93297., Registrované v: WOS

54. [1.2] DIAS, Maria Inês - FERREIRA, Isabel C.F.R. - BARREIRO, Maria Filomena. Microencapsulation of bioactives for food applications. In Food and Function. ISSN 20426496, 2015-01-01, 6, 4, pp. 1035-1052., Registrované v: SCOPUS
55. [1.2] TSE, Hubert M. - KOZLOVSKAYA, Veronika - KHARLAMPIEVA, Eugenia - HUNTER, Chad S. Minireview: Directed differentiation and encapsulation of Islet β -cells—Recent advances and future considerations. In Molecular Endocrinology. ISSN 08888809, 2015-01-01, 29, 10, pp. 1388-1399., Registrované v: SCOPUS
56. [1.2] VAITHILINGAM, Vijayaganapathy - BAL, Sumeet - TUCH, Bernard E. Encapsulated islet transplantation: Where do we stand? In Review of Diabetic Studies. ISSN 16136071, 2017-03-01, 14, 1, pp. 51-78., Registrované v: SCOPUS
57. [1.2] WANG, Liang - LIU, Keying - LIU, Penglong - QI, Xianghui. Optimization of the Encapsulating Conditions and Fermentation Characteristics of the Micro Capsule on Bacterias in Kefir Grains. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-05-31, 17, 5, pp. 73-81., Registrované v: SCOPUS
58. [1.2] YOON, Kun Ho - LEE, Eun Young - SHIN, Jun Seop - MIN, Byoung Hoon - KIM, Jong Min - PARK, Chung Gyu. Encapsulated islet transplantation: From allogeneic to xenogeneic transplantation. In Advances in Experimental Surgery, 2018-01-01, 1, pp. 569-592., Registrované v: SCOPUS
59. [3.1] NOVOSELOVA, M.V.; ANTIPINA, M.N. Semipermeable Polymeric Envelopes for Living Cells: Biomedical Applications. IN POLYMER CAPSULES, 2019, chapter 10, p. 293-360.
60. [3.1] VIJAYALAKSHMI S; SIVAKAMASUNDARI S.K.; MOSES J.A.; ANANDHARAMAKRISHNAN C.. Potential Application of Alginates in the Beverage Industry. IN ALGINATES: APPLICATIONS IN THE BIOMEDICAL AND FOOD INDUSTRIES, 2019, chapter 12, p. 233-261.

ADCA1432 VOŠTIAR, I. - TKÁČ, Ján - ŠTURDÍK, Ernest - GEMEINER, Peter. Amperometric urea biosensor based on urease and electropolymerized toluidine blue dye as a pH-sensitive redox probe. In *Bioelectrochemistry*, 2002, vol. 56, p. 113-115. (2002 - Current Contents). ISSN 1567-5394. Dostupné na: [https://doi.org/10.1016/S1567-5394\(02\)00042-7](https://doi.org/10.1016/S1567-5394(02)00042-7)

Ohlasy:

1. [1.1] AZADBAKHT, Azadeh - ABBASI, Amir Reza - DERIKVAND, Zohreh - KARIMI, Ziba. Preparation of the carboxylic acid-functionalized graphene oxide/gold nanoparticles/5-amino-2-hydroxybenzoic acid as a novel electrochemical sensing platform. In MONATSCHEFTE FÜR CHEMIE. ISSN 0026-9247, 2016, vol. 147, no. 4, pp. 705-717., Registrované v: WOS
2. [1.1] BABU, K. Justice - SENTHILKUMAR, N. - KIM, Ae Rhan - KUMAR, G. Gnana. Freestanding and binder free PVdF-HFP/Ni-Co nanofiber membrane as a versatile platform for the electrocatalytic oxidation and non-enzymatic detection of urea. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 241, no., pp. 541-551., Registrované v: WOS
3. [1.1] DENG, Hao-Hua - HONG, Guo-Lin - LIN, Feng-Lin - LIU, Ai-Lin - XIA, Xing-Hua - CHEN, Wei. Colorimetric detection of urea, urease,

and urease inhibitor based on the peroxidase-like activity of gold nanoparticles. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2016, vol. 915, no., pp. 74-80., Registrované v: WOS

4. [1.1] HASSAN, Rabeay Y. A. - KAMEL, Amira M. - HASHEM, Mona S. - HASSAN, Hassan N. A. - ABD EL-GHAFFAR, Mahmoud A. A new disposable biosensor platform: carbon nanotube/poly(o-toluidine) nanocomposite for direct biosensing of urea. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2018, vol. 22, no. 6, pp. 1817-1823., Registrované v: WOS

5. [1.1] CHEN, Jie - CHEN, Yan-Ping - CHEN, Ping. The Study of Urea Nitrogen Biosensor Based on the Disposable Screen-Printed Carbon Electrode. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2015, vol. 10, no. 9, pp. 7794-7802., Registrované v: WOS

6. [1.1] LI, Zhenzhen - ZHANG, Qiyi - HUANG, Huaying - REN, Changjing - OUYANG, Si - ZHAO, Qiang. L-noradrenaline functionalized near-infrared fluorescence CdSeTe probe for the determination of urea and bioimaging of HepG2 Cells. In TALANTA. ISSN 0039-9140, 2017, vol. 171, no., pp. 16-24., Registrované v: WOS

7. [1.1] MILTON, Ross D. - WANG, Tao - KNOCHE, Krysti L. - MINTEER, Shelley D. Tailoring Biointerfaces for Electrocatalysis. In LANGMUIR. ISSN 0743-7463, 2016, vol. 32, no. 10, pp. 2291-2301., Registrované v: WOS

8. [1.1] PUNDIR, C. S. - JAKHAR, Seema - NARWAL, Vinay. Determination of urea with special emphasis on biosensors: A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 123, no., pp. 36-50., Registrované v: WOS

9. [1.1] QIN, Yanan - CHEN, Fei - HALDER, Arnab - ZHANG, Minwei. Free-Standing NiO Nanosheets as Non-Enzymatic Electrochemical Sensors. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 8, pp. 2424-2429. Dostupné na: <https://doi.org/10.1002/slct.201904511>., Registrované v: WOS

10. [1.1] RAFIQ, Khezina - MAI, Hien Duy - KIM, Jin Kyung - WOO, Jae Min - MOON, Bo Mi - PARK, Chan Hum - YOO, Hyojong. Fabrication of a highly effective electrochemical urea sensing platform based on urease-immobilized silk fibroin scaffold and aminated glassy carbon electrode. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 251, no., pp. 472-480., Registrované v: WOS

11. [1.1] RAHMANIAN, Reza - MOZAFFARI, Sayed Ahmad - ABEDI, Mohammad. Disposable urea biosensor based on nanoporous ZnO film fabricated from omissible polymeric substrate. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 57, no., pp. 387-396., Registrované v: WOS

12. [1.1] RAHMANIAN, Reza - MOZAFFARI, Sayed Ahmad. Electrochemical fabrication of ZnO-polyvinyl alcohol nanostructured hybrid film for application to urea biosensor. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2015, vol. 207, no., pp. 772-781., Registrované v: WOS

13. [1.1] RAHMANIAN, Reza - MOZAFFARI, Sayed Ahmad - AMOLI, Hossein Salar - ABEDI, Mohammad. Development of sensitive impedimetric

urea biosensor using DC sputtered Nano-ZnO on TiO₂ thin film as a novel hierarchical nanostructure transducer. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 256, no., pp. 760-774., Registrované v: WOS

14. [1.1] RAJKUMAR, G. - SETHURAMAN, M. G. Electrochemical synthesis of poly-3-amino-5-mercapto-1,2,4-triazole on copper and its protective effect in 3.5 % NaCl medium. In *RESEARCH ON CHEMICAL INTERMEDIATES*. ISSN 0922-6168, 2015, vol. 41, no. 11, pp. 8041-8055., Registrované v: WOS

15. [1.1] RAZUMIENE, Julija - GUREVICIENE, Vidute - SAKINYTE, Ieva - RIMSEVICIUS, Laurynas - LAURINAVICIUS, Valdas. The Synergy of Thermally Reduced Graphene Oxide in Amperometric Urea Biosensor: Application for Medical Technologies. In *SENSORS*, 2020, vol. 20, no. 16, pp. Dostupné na: <https://doi.org/10.3390/s20164496>., Registrované v: WOS

16. [1.1] XIA, Chao - CAO, Mengmeng - XIA, Jinfeng - ZHOU, Guohong - JIANG, Danyu - ZHANG, Dafeng - WANG, Jing - LI, Huili. An ultrafast responsive and sensitive ratiometric fluorescent pH nanoprobe based on label-free dual-emission carbon dots. In *JOURNAL OF MATERIALS CHEMISTRY C*. ISSN 2050-7526, 2019, vol. 7, no. 9, pp. 2563-2569., Registrované v: WOS

17. [1.1] ZHYBAK, M. - BENI, V. - VAGIN, M. Y. - DEMPSEY, E. - TURNER, A. P. F. - KORPAN, Y. Creatinine and urea biosensors based on a novel ammonium ion-selective copper-polyaniline nano-composite. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 77, no., pp. 505-511., Registrované v: WOS

18. [1.2] PAITHANKAR, K. S. - DESHMUKH, V. B. - SHELKE, U. N. - IYYER, S. B. - MORE, S. T. - GADE, V. K. Synthesis of polyaniline based nanocomposite graphite paste electrode modified with and without rice husk for sensor application: A comparative study. In *Asian Journal of Chemistry*. ISSN 09707077, 2017-01-01, 29, 11, pp. 2545-2548., Registrované v: SCOPUS

19. [1.2] RAVAL, Ritu - RAVAL, Keyur. Microbes and their products as sensors in industrially important fermentations. In *Biochemical and Cellular Aspects of Microbial Sensing: Making Sense of Applied Parameters*, 2018-01-01, pp. 253-266., Registrované v: SCOPUS

ADCA1433 VOŠTIAR, I. - TKÁČ, Ján - MANDENIUS, C.-F. Intracellular monitoring of superoxide dismutase expression in an *Escherichia coli* fed-batch cultivation using on-line disruption with at-line surface plasmon resonance detection. In *Analytical Biochemistry*, 2005, vol. 342, p. 152-159. ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2005.03.055>

Ohlasy:

1. [1.1] GRINYTE, Ruta - BARROSO, Javier - MOLLER, Marco - SAA, Laura - PAVLOV, Valeri. Microbead QD-ELISA: Microbead ELISA Using Biocatalytic Formation of Quantum Dots for Ultra High Sensitive Optical and Electrochemical Detection. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2016, vol. 8, no. 43, pp. 29252-29260., Registrované v: WOS

ADCA1434 VOŠTIAR, I. - TKÁČ, Ján - MANDENIUS, C.F. Off-line monitoring of bacterial stress response during recombinant protein production using an optical

biosensor. In *Journal of Biotechnology*, 2004, vol. 111, p. 191-201. ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2004.04.007>

Ohlasy:

1. [1.1] PACHAURI, Nikhil - SINGH, Vijander - RANI, Asha. Two degree of freedom PID based inferential control of continuous bioreactor for ethanol production. In *ISA TRANSACTIONS*. ISSN 0019-0578, 2017, vol. 68, no., pp. 235-250., Registrované v: WOS

ADCA1435 VOTICKÝ, Zdeno - TOMKO, J.. Alkaloids from *Buxus sempervirens* L. V. Configuration of buxtauine and buxpiine. In *Tetrahedron Letters*, 1965, vol. 6, p. 3579-3584. ISSN 0040-4039. Dostupné na: [https://doi.org/10.1016/S0040-4039\(01\)99542-5](https://doi.org/10.1016/S0040-4039(01)99542-5)

Ohlasy:

1. [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In *CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids*, 2018-01-01, pp. 1-624., Registrované v: SCOPUS

ADCA1436 VOTICKÝ, Zdeno - JAHODÁŘ, L. - CAVA, M.P. Alkaloids from *Peshiera laeta* MART. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 1403-1406. ISSN 0010-0765.

Ohlasy:

1. [1.1] MARINHO, Flavio F. - SIMOES, Andre Olmos - BARCELLOS, Thiago - MOURA, Sidnei. Brazilian *Tabernaemontana* genus: Indole alkaloids and phytochemical activities. In *FITOTERAPIA*. ISSN 0367-326X, 2016, vol. 114, no., pp. 127-137., Registrované v: WOS

ADCA1437 VOTICKÝ, Zdeno - GROSSMANN, Eduard - POTIER, P. Vinoxine, a novel type of indole alkaloid. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 548-552. ISSN 0010-0765.

Ohlasy:

1. [1.1] Lood, CS (Lood, Christopher S.); Laine, AE (Laine, Aino E.); Hognasbacka, A (Hognasbacka, Antonia); Nieger, M (Nieger, Martin); Koskinen, AMP (Koskinen, Ari M. P.): Synthesis of Chiral (Indol-2-yl)methanamines and Insight into the Stereochemistry Protecting Effects of the 9-Phenyl-9-fluorenyl Protecting Group. In: *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY* Issue: 17 Pages: 3793-3805, Registrované v: WOS

ADCA1438 VRABEL, P. - POLAKOVIC, M. - GODO, S. - BALES, V. - DOČOLOMANSKÝ, Peter - GEMEINER, Peter. Influence of immobilization on the thermal inactivation of yeast invertase. In *Enzyme and Microbial Technology*, 1997, vol. 21, iss. 3, p.196-202. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(96\)00266-9](https://doi.org/10.1016/S0141-0229(96)00266-9)

Ohlasy:

1. [1.1] ALVAREZ, Gael - SHAHZAD, Tanvir - ANDANSON, Laurence - BAHN, Michael - WALLENSTEIN, Matthew D. - FONTAINE, Sebastien. Catalytic power of enzymes decreases with temperature: New insights for understanding soil C cycling and microbial ecology under warming. In *GLOBAL CHANGE BIOLOGY*. ISSN 1354-1013, 2018, vol. 24, no. 9, pp. 4238-4250., Registrované v: WOS

ADCA1439 VRŠANSKÁ, Mária - NERINCKX, W. - CLAEYSSSENS, M. - BIELY, Peter. An alternative approach for the synthesis of fluorogenic substrates of endo-beta-(1-4)-xylanases and some applications. In *Carbohydrate Research*, 2008, vol.343, p. 541-548. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.11.011>

Ohlasy:

1. [1.1] ARAB-JAZIRI, Faten - BISSARO, Bastien - TELLIER, Charles - DION, Michel - FAURE, Regis - O'DONOHUE, Michael J. Enhancing the chemoenzymatic synthesis of arabinosylated xylo-oligosaccharides by GH51 alpha-L-arabinofuranosidase. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 401, no., pp. 64-72., Registrované v: WOS
2. [1.1] BRUSA, Charlotte - MUZARD, Murielle - REMOND, Caroline - PLANTIER-ROYON, Richard. beta-Xylopyranosides: synthesis and applications. In *RSC ADVANCES*. ISSN 2046-2069, 2015, vol. 5, no. 110, pp. 91026-91055., Registrované v: WOS
3. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS
4. [1.1] OODE, Chisato - SHIMADA, Wataru - YOKOTA, Mariko - YAMADA, Yoichi - NIHEI, Ken-ichi. Dihydroresveratrol cellobioside and xylobioside as effective melanogenesis activators. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 436, no., pp. 45-49., Registrované v: WOS
5. [1.1] THORSHEIM, Karin - SIEGBAHN, Anna - JOHNSON, Richard E. - STALBRAND, Henrik - MANNER, Sophie - WIDMALM, Goran - ELLERVIK, Ulf. Chemistry of xylopyranosides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2015, vol. 418, no., pp. 65-88., Registrované v: WOS

ADCA1440 VRŠANSKÁ, Mária - BIELY, Peter - KRÁTKY, Zdeno. Enzymes of the yeast lytic system produced by *Arthrobacter* GJM-1 bacterium and their role in the lysis of yeast cell walls. In *Zeitschrift für allgemeine Mikrobiologie*, 1977, vol. 17, p. 465-480. Dostupné na: <https://doi.org/10.1002/jobm.19770170608>

Ohlasy:

1. [1.2] KUMAR, Mahadevan - MUGUNTHAN, M. Evaluation of three DNA extraction methods from fungal cultures. In *Medical Journal Armed Forces India*. ISSN 03771237, 2018-10-01, 74, 4, pp. 333-336., Registrované v: SCOPUS

ADCA1441 VRŠANSKÁ, Mária - KOLENOVÁ, Katarína - PUCHART, Vladimír - BIELY, Peter. Mode of action of glycoside hydrolase family 5 glucuronoxylan xylanohydrolase from *Erwinia chrysanthemi*. In *FEBS Letters*, 2007, vol.274, p. 1666-1677. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2007.05710.x>

Ohlasy:

1. [1.1] BUSSE-WICHER, Marta - GRANTHAM, Nicholas J. - LYCZAKOWSKI, Jan J. - NIKOLOVSKI, Nino - DUPREE, Paul. Xylan decoration patterns and the plant secondary cell wall molecular architecture. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 74-78., Registrované v: WOS
2. [1.1] CROOKS, Casey - LONG, Liangkun - ST JOHN, Franz J. CaXyn30B from the solventogenic bacterium *Clostridium acetobutylicum* a glucuronic acid-dependent endoxylanase. In BMC RESEARCH NOTES, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13104-020-05091-5>, Registrované v: WOS
3. [1.1] FOUQUET, Thierry - SATO, Hiroaki - NAKAMICHI, Yusuke - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Electrospray multistage mass spectrometry in the negative ion mode for the unambiguous molecular and structural characterization of acidic hydrolysates from 4-O-methylglucuronoxylan generated by endoxylanases. In JOURNAL OF MASS SPECTROMETRY. ISSN 1076-5174, 2019, vol. 54, no. 3, pp. 213-221., Registrované v: WOS
4. [1.1] FREIRE, Filipe - VERMA, Anil - BULE, Pedro - ALVES, Victor D. - FONTES, Carlos M. G. A. - GOYAL, Arun - NAJMUDIN, Shabir. Conservation in the mechanism of glucuronoxylan hydrolysis revealed by the structure of glucuronoxylan xylanohydrolase (CtXyn30A) from *Clostridium thermocellum*. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2016, vol. 72, no., pp. 1162-1173., Registrované v: WOS
5. [1.1] GRANTHAM, Nicholas J. - WURMAN-RODRICH, Joel - TERRETT, Oliver M. - LYCZAKOWSKI, Jan J. - STOTT, Katherine - IUGA, Dinu - SIMMONS, Thomas J. - DURAND-TARDIF, Mylene - BROWN, Steven. P. - DUPREE, Ray - BUSSE-WICHER, Marta - DUPREE, Paul. An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. In NATURE PLANTS. ISSN 2055-026X, 2017, vol. 3, no. 11, pp. 859-865., Registrované v: WOS
6. [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaying - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS
7. [1.1] CHADHA, Bhupinder Singh - RAI, Rohit - MAHAJAN, Chhavi. Hemicellulases for Lignocellulosics-Based Bioeconomy. In BIOFUELS: ALTERNATIVE FEEDSTOCKS AND CONVERSION PROCESSES FOR THE PRODUCTION OF LIQUID AND GASEOUS BIOFUELS, 2ND EDITION, 2019, vol., no., pp. 427-445., Registrované v: WOS
8. [1.1] KATSIMPOURAS, Constantinos - DEDES, Grigorios - THOMAIDIS, Nikolaos S. - TOPAKAS, Evangelos. A novel fungal GH30 xylanase with xylobiohydrolase auxiliary activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
9. [1.1] LABOUREL, Aureore - CROUCH, Lucy I. - BRAS, Joana L. A. - JACKSON, Adam - ROGOWSKI, Artur - GRAY, Joseph - YADAV, Madhav P. - HENRISSAT, Bernard - FONTES, Carlos M. G. A. - GILBERT, Harry J. - NAJMUDIN, Shabir - BASLE, Arnaud - CUSKIN, Fiona. The Mechanism by

- Which Arabinoxylanases Can Recognize Highly Decorated Xylans. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 42, pp. 22149-22159., Registrované v: WOS
10. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
11. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
12. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - FOUQUET, Thierry - MATSUSHIKA, Akinori - INOUE, Hiroyuki. GH30-7 Endoxylanase C from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 22, pp., Registrované v: WOS
13. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus *Talaromyces cellulolyticus*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 13, pp., Registrované v: WOS
14. [1.1] NAKAMICHI, Yusuke - FOUQUET, Thierry - ITO, Shotaro - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus *Talaromyces cellulolyticus*. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 11, pp. 4065-4078., Registrované v: WOS
15. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus *Talaromyces cellulolyticus*. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2020, vol. 76, no., pp. 341-349. Dostupné na: <https://doi.org/10.1107/S2053230X20009024>., Registrované v: WOS
16. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS
17. [1.1] SHARMA, Kedar - FONTES, Carlos M. G. A. - NAJMUDIN, Shabir - GOYAL, Arun. Molecular organization and protein stability of the *Clostridium thermocellum* glucuronoxylan endo-beta-1,4-xylanase of family 30 glycoside hydrolase in solution. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, 2019, vol. 206, no. 3, pp. 335-344., Registrované v: WOS
18. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey -

- BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
19. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
20. [1.1] VERMA, Anil Kumar - GOYAL, Arun. A novel member of family 30 glycoside hydrolase subfamily 8 glucuronoxylan endo-beta-1,4-xylanase (CtXynGH30) from *Clostridium thermocellum* orchestrates catalysis on arabinose decorated xylans. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 129, no., pp. 6-14., Registrované v: WOS
21. [1.1] WEI, Lusha - YAN, Tongjing - WU, Yifei - CHEN, Hui - ZHANG, Baoshan. Optimization of alkaline extraction of hemicellulose from sweet sorghum bagasse and its direct application for the production of acidic xylooligosaccharides by *Bacillus subtilis* strain MR44. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS
22. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS
23. [1.2] PADILHA, Itácio Q.M. - VALENZUELA, Susana V. - GRISI, Teresa C.S.L. - DIAZ, Pilar - DE ARAÚJO, Demetrius A.M. - JAVIER PASTOR, Francisco I. A glucuronoxylan-specific xylanase from a new *Paenibacillus favisporus* strain isolated from tropical soil of Brazil. In *International Microbiology*. ISSN 11396709, 2015-01-01, 17, 3, pp. 175-184., Registrované v: SCOPUS
24. [1.2] ST JOHN, Franz J. - CROOKS, Casey - DIETRICH, Diane - HURLBERT, Jason. Xylanase 30 A from *Clostridium thermocellum* functions as a glucuronoxylan xylanohydrolase. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-11-08, 133, pp. S445-S451., Registrované v: SCOPUS
25. [3.2] Guo Yalan; Zhou Yumeng; Wu Bin; He Bingfang. Expression of glucurono-xylanase in *Bacillus subtilis* and optimization of fermentation conditions. In: *Shengwu Jiagong Guocheng*. ISSN: 1672-3678, 2019, Vol. 17, Issue: 4, p. 379-384

ADCA1442 VRŠANSKÁ, Mária - GORBACHEVA, A.I.V. - KRÁTKY, Z. - BIELY, Peter. Reaction pathways of substrate degradation by an acidic endo-1,4-beta-xylanase of *Aspergillus niger*. In *Biochimica et Biophysica Acta*, 1982, vol. 704, p. 114-122. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/0167-4838\(82\)90138-8](https://doi.org/10.1016/0167-4838(82)90138-8)

Ohlasy:

1. [1.1] DEY, Prottyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN

- 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
 3. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from Streptomyces L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
 4. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA1443 VRŠANSKÁ, Mária - BIELY, Peter. The cellobiohydrolase I from *Trichoderma reesei* QM 9414: action on cello-oligosaccharides. In *Carbohydrate Research*, 1992, vol. 227, p. 19-27. (1991: 1.299 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(92\)85058-8](https://doi.org/10.1016/0008-6215(92)85058-8)

Ohlasy:

1. [1.1] AN, Xingye - WEN, Yangbing - CHENG, Dong - ZHU, Xuhai - NI, Yonghao. Preparation of cellulose nano-crystals through a sequential process of cellulase pretreatment and acid hydrolysis. In CELLULOSE. ISSN 0969-0239, 2016, vol. 23, no. 4, pp. 2409-2420., Registrované v: WOS
2. [1.1] HOBDEY, Sarah E. - KNOTT, Brandon C. - MOMENI, Majid Haddad - TAYLOR, Larry E. - BORISOVA, Anna S. - PODKAMINER, Kara K. - VANDERWALL, Todd A. - HIMMEL, Michael E. - DECKER, Stephen R. - BECKHAM, Gregg T. - STAHLBERG, Jerry. Biochemical and Structural Characterizations of Two Dictyostelium Cellobiohydrolases from the Amoebozoa Kingdom Reveal a High Level of Conservation between Distant Phylogenetic Trees of Life. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2016, vol. 82, no. 11, pp. 3395-3409., Registrované v: WOS
3. [1.1] KARI, Jeppe - KONT, Riin - BORCH, Kim - BUSKOV, Steen - OLSEN, Johan Pelck - CRUYZ-BAGGER, Nicolaj - VALJAMAE, Priit - WESTH, Peter. Anomeric Selectivity and Product Profile of a Processive Cellulase. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 1, pp. 167-178., Registrované v: WOS
4. [1.1] KARI, Jeppe - SCHIANO-DI-COLA, Corinna - HANSEN, Stine Fredslund - BADINO, Silke Flindt - SORENSEN, Trine Holst - CAVALEIRO, Ana Mafalda - BORCH, Kim - WESTH, Peter. A steady-state approach for inhibition of heterogeneous enzyme reactions. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2020, vol. 477, no. 10, pp. 1971-1982. Dostupné na: <https://doi.org/10.1042/BCJ20200083>., Registrované v: WOS
5. [1.1] MAFA, Mpho S. - MALGAS, Samkelo - RASHAMUSE, Konanani - PLETSCHEKE, Brett I. Delineating functional properties of a cello-oligosaccharide and j3-glucan specific cellobiohydrolase (GH5_38): Its synergism with Cel6A and Cel7A for beta-(1,3)-(1,4)-glucan degradation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108081>., Registrované v:

WOS

6. [1.1] OGUNMOLU, Funso Emmanuel - JAGADEESHA, Navya Bhatt Kammachi - KUMAR, Rakesh - KUMAR, Pawan - GUPTA, Dinesh - YAZDANI, Syed Shams. Comparative insights into the saccharification potentials of a relatively unexplored but robust *Penicillium funiculosum* glycoside hydrolase 7 cellobiohydrolase. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
7. [1.1] PAYNE, Christina M. - KNOTT, Brandon C. - MAYES, Heather B. - HANSSON, Henrik - HIMMEL, Michael E. - SANDGREN, Mats - STAHLBERG, Jerry - BECKHAM, Gregg T. Fungal Cellulases. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2015, vol. 115, no. 3, pp. 1308-1448., Registrované v: WOS
8. [1.1] UCHIYAMA, Taku - UCHIIHASHI, Takayuki - NAKAMURA, Akihiko - WATANABE, Hiroki - KANEKO, Satoshi - SAMEJIMA, Masahiro - IGARASHI, Kiyohiko. Convergent evolution of processivity in bacterial and fungal cellulases. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2020, vol. 117, no. 33, pp. 19896-19903. Dostupné na: <https://doi.org/10.1073/pnas.2011366117>., Registrované v: WOS
9. [1.1] ZHAI, Rui - HU, Jinguang - SADDLER, Jack N. The inhibition of hemicellulosic sugars on cellulose hydrolysis are highly dependant on the cellulase productive binding, processivity, and substrate surface charges. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 258, no., pp. 79-87., Registrované v: WOS

ADCA1444

WELLNER, N. - KAČURÁKOVÁ, Marta - MALOVÍKOVÁ, Anna - WILSON, R.H. - BELTON, P.S. FT-IR study of pectate and pectinate gels formed by divalent cations. In *Carbohydrate Research*, 1998, vol. 308, no. 1-2, p. 123. (1997: 1.417 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(98\)00065-2](https://doi.org/10.1016/S0008-6215(98)00065-2)

Ohlasy:

1. [1.1] ALEXANDRATOS, Spiro D. - ZHU, Xiaoping. Through-bond communication between polymer-bound phosphinic acid ligands and trivalent metal ions probed with FTIR spectroscopy. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2018, vol. 95, no., pp. 80-89., Registrované v: WOS
2. [1.1] BAUM, Andreas - DOMINIAK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS
3. [1.1] CABELLO, S. D. Pasini - TAKARA, E. A. - MARCHESE, J. - OCHOA, N. A. Influence of plasticizers in pectin films: Microstructural changes. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, 2015, vol. 162, no., pp. 491-497., Registrované v: WOS
4. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS

5. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS
6. [1.1] HAMA, Tetsuya - SEKI, Kousuke - ISHIBASHI, Atsuki - MIYAZAKI, Ayane - KOUCHI, Akira - WATANABE, Naoki - SHIMOAKA, Takafumi - HASEGAWA, Takeshi. Probing the Molecular Structure and Orientation of the Leaf Surface of Brassica oleracea L. by Polarization Modulation-Infrared Reflection-Absorption Spectroscopy. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2019, vol. 60, no. 7, pp. 1567-1580., Registrované v: WOS
7. [1.1] HE, Qian - REN, Jia - REN, Junkai - PANG, Kanglei - MA, Zhi - ZHU, Xingqi - SONG, Rui. Polymethylene-b-poly (acrylic acid) diblock copolymers: Aggregation and crystallization in the presence of CaCl₂. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 95, no., pp. 174-185., Registrované v: WOS
8. [1.1] CHAUHAN, Narendra Pal Singh - GHOLIPOURMALEKABADI, Mazaher - MOZAFARI, Masoud. Fabrication of newly developed pectinGeO₂ nanocomposite using extreme biomimetics route and its antibacterial activities. In JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY. ISSN 1060-1325, 2017, vol. 54, no. 10, pp. 655-661., Registrované v: WOS
9. [1.1] ISHIZAKA, Kei - LEWIS, Stephen R. - LEWIS, Roger. The low adhesion problem due to leaf contamination in the wheel/rail contact: Bonding and low adhesion mechanisms. In WEAR. ISSN 0043-1648, 2017, vol. 378-379, no., pp. 183-197., Registrované v: WOS
10. [1.1] ITOUGA, Misao - HAYATSU, Manabu - SATO, Mayuko - TSUBOI, Yuuri - KATO, Yukari - TOYOOKA, Kiminori - SUZUKI, Suechika - NAKATSUKA, Seiji - KAWAKAMI, Satoshi - KIKUCHI, Jun - SAKAKIBARA, Hitoshi. Protonema of the moss Funaria hygrometrica can function as a lead (Pb) adsorbent. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
11. [1.1] LEONG, Jun-Yee - TEY, Beng-Ti - TAN, Chin-Ping - CHAN, Eng-Seng. Nozzleless Fabrication of Oil-Core Biopolymeric Microcapsules by the Interfacial Gelation of Pickering Emulsion Templates. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2015, vol. 7, no. 30, pp. 16169-16176., Registrované v: WOS
12. [1.1] MIERCZYNSKA, Joanna - CYBULSKA, Justyna - ZDUNEK, Artur. Rheological and chemical properties of pectin enriched fractions from different sources extracted with citric acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 443-451., Registrované v: WOS
13. [1.1] PUSHKIN, Sergey A. - KOZLOVA, Liudmila V. - MAKAROV, Alexandr A. - GRACHEV, Andrey N. - GORSHKOVA, Tatyana A. Cell wall components in torrefied softwood and hardwood samples. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2015, vol. 116, no., pp. 102-113., Registrované v: WOS
14. [1.1] REVUELTA, Mariana V. - CHACON VILLALBA, M. Elizabeth - NAVARRO, Alba S. - GUIDA, Jorge A. - CASTRO, Guillermo R. Development of Crystal Violet encapsulation in pectin Arabic gum gel microspheres. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148,

2016, vol. 106, no., pp. 8-16., Registrované v: WOS

15. [1.1] SZYMANSKA-CHARGOT, M. - CHYLINSKA, M. - KRUK, B. - ZDUNEK, A. Combining FT-IR spectroscopy and multivariate analysis for qualitative and quantitative analysis of the cell wall composition changes during apples development. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 115, no., pp. 93-103., Registrované v: WOS

16. [1.1] WU, Hongfei - XIE, Yimin - ZHAO, Houkuan - CHEN, Xuekuan - JIANG, Chen - BI, Shuying - LIU, Yanchao. Preparation of Porous Composite Bio-carriers from Lignin-Carbohydrate Complexes and Cellulose Nanocrystals, and their Application in the Culture of Human Hepatocytes. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 6465-6484., Registrované v: WOS

17. [1.1] ZHAO, Houkuan - LI, Jinling - WANG, Peng - ZENG, Shaoqiong - XIE, Yimin. Lignin-Carbohydrate Complexes Based Spherical Biocarriers: Preparation, Characterization, and Biocompatibility. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2017, vol., no., pp., Registrované v: WOS

18. [1.1] ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS

19. [1.1] ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS

20. [1.2] EKINCI, Neslihan - YILDIZ, Mustafa. Determination of polygalacturonic acid content in sweet cherry (0900 Ziraat) extracts by fourier transform infrared spectroscopy and effects of CaCl₂/infand Ca(NO₃)₂/inf2/infliar and fruit sprays appications on polygalacturonic acid. In Asian Journal of Chemistry. ISSN 09707077, 2015-06-01, 27, 6, pp. 2178-2180., Registrované v: SCOPUS

ADCA1445 WOJCIECHOWICZ, M. - HEINRICHOVÁ, Kvetoslava - ZIOLECKI, A. A polygalacturonate lyase produced by *Lachnospira multiparus* isolated from the bovine rumen. In *Journal of General Microbiology*, 1980, vol. 117, p. 193-199.

Ohlasy:

1. [1.1] BANG, So-Jung - KIM, Gayoung - LIM, Mi Young - SONG, Eun-Ji - JUNG, Dong-Hyun - KUM, Jun-Seok - NAM, Young-Do - PARK, Cheon-Seok - SEO, Dong-Ho. The influence of in vitro pectin fermentation on the human fecal microbiome. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS

2. [1.1] ZHOU, Xin - ZHANG, Zhao - HUANG, Fenghong - YANG, Chen - HUANG, Qingde. In Vitro Digestion and Fermentation by Human Fecal Microbiota of Polysaccharides from Flaxseed. In MOLECULES, 2020, vol. 25, no. 19, pp. Dostupné na: <https://doi.org/10.3390/molecules25194354>., Registrované v: WOS

ADCA1446 WOJCIECHOWICZ, M. - HEINRICHOVÁ, Kvetoslava - ZIOLECKI, A. An exopeptidase of *Butyrivibrio fibrisolvens*. In *Journal of General Microbiology*, 1982, vol. 128, p. 2661-2665.

Ohlasy:

1. [1.1] KASPEROWICZ, A. - STAN-GLASEK, K. - TACIAK, M. - MICHALOWSKI, T. The fructanolytic abilities of the rumen bacterium *Butyrivibrio fibrisolvens* strain 3071. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2016, vol. 120, no. 1, pp. 29-40.,

Registrované v: WOS

2. [1.2] HYDER, Iqbal - RAVI KANTH REDDY, P. - RAJU, Jakkula - MANJARI, P. - SRINIVASA PRASAD, C. - ASWANI KUMAR, K. - SEJIAN, Veerasamy. Alteration in rumen functions and diet digestibility during heat stress in sheep. In *Sheep Production Adapting to Climate Change*, 2017-06-20, pp. 235-265., Registrované v: SCOPUS

ADCA1447 XU, Peng** - KORCOVÁ, Jana, Vráblová - BARÁTH, Peter - ČÍŽOVÁ, Alžbeta - VALÁRIKOVÁ, Jana - QADRI, Firdausi - KELLY, Megan - O'CONNOR, Robert D. - RYAN, Edward T. - BYSTRICKÝ, Slavomír - KOVÁČ, Pavol. Isolation, purification, characterization and direct conjugation of the lipid A-free lipopolysaccharide of *Vibrio cholerae* O139. In *Chemistry - A European Journal*, 2019, vol. 25, p. 12946-12956. (2018: 5.160 - IF, Q1 - JCR, 1.842 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201902263>

Ohlasy:

1. [1.1] AHADI, Somayeh - AWAN, Shahid - WERZ, Daniel B. Total Synthesis of Tri-, Hexa- and Heptasaccharidic Substructures of the O-Polysaccharide of *Providencia rustigianii* O34. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2020, vol. 26, no. 28, pp. 6264-6270. Dostupné na: <https://doi.org/10.1002/chem.202000496>., Registrované v: WOS

ADCA1448 YAMAMOTO, Yuta - TAKEI, Kenta - ARULMOZHIRAJA, Sundaram - SLÁDEK, Vladimír - MATSUO, Naoya - HAN, Song-lee - MATSUZAKA, Takashi - SEKIYA, Motohiro - TOKIWA, Takaki - SHOJI, Mitsuo - SHIGETA, Yasuteru - NAKAGAWA, Yoshimi - TOKIWA, Hiroaki - SHIMANO, Hitoshi**. Molecular association model of PPAR α and its new specific and efficient ligand, pemafibrate: Structural basis for SPPARM α . In *Biochemical and Biophysical Research Communications*, 2018, vol. 499, p. 239-245. (2017: 2.559 - IF, Q2 - JCR, 1.087 - SJR, Q1 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0006-291X. Dostupné na: <https://doi.org/10.1016/j.bbrc.2018.03.135>

Ohlasy:

1. [1.1] DOU, Xiaozheng - DUERFELDT, Adam S. Small-Molecule Modulation of PPARs for the Treatment of Prevalent Vascular Retinal Diseases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21239251>., Registrované v: WOS

2. [1.1] FLICK, Andrew C. - LEVERETT, Carolyn A. - DING, Hong X. - MCINTURFF, Emma - FINK, Sarah J. - HELAL, Christopher J. - O'DONNELL, Christopher J. Synthetic Approaches to the New Drugs Approved During 2017. In *JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0022-2623,

2019, vol. 62, no. 16, pp. 7340-7382., Registrované v: WOS

3. [1.1] FRUCHART, Jean-Charles - SANTOS, Raul D. SPPARM alpha: the Lazarus effect. In CURRENT OPINION IN LIPIDOLOGY. ISSN 0957-9672, 2019, vol. 30, no. 6, pp. 419-427., Registrované v: WOS

4. [1.1] FRUCHART, Jean-Charles - SANTOS, Raul D. - YAMASHITA, Shizuya - LIBBY, Peter. Residual vascular risk in diabetes Will the SPPARM alpha concept hold the key? In DIABETES & METABOLIC SYNDROME-CLINICAL RESEARCH & REVIEWS. ISSN 1871-4021, 2019, vol. 13, no. 4, pp. 2723-2725., Registrované v: WOS

5. [1.1] FRUCHART, Jean-Charles - HERMANS, Michel P. - FRUCHART-NAJIB, Jamila. Selective Peroxisome Proliferator-Activated Receptor Alpha Modulators (SPPARM alpha): New Opportunities to Reduce Residual Cardiovascular Risk in Chronic Kidney Disease? In CURRENT ATHEROSCLEROSIS REPORTS. ISSN 1523-3804, 2020, vol. 22, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11883-020-00860-w>., Registrované v: WOS

6. [1.1] OGAWA, Kento - YAGI, Takashi - GUO, Tingting - TAKEDA, Katsushi - OHGUCHI, Hideomi - KOYAMA, Hiroyuki - AOTANI, Daisuke - IMAEDA, Kenro - KATAOKA, Hiromi - TANAKA, Tomohiro. Pemafibrate, a selective PPAR alpha modulator, and fenofibrate suppress microglial activation through distinct PPAR alpha and SIRT1-dependent pathways. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2020, vol. 524, no. 2, pp. 385-391. Dostupné na: <https://doi.org/10.1016/j.bbrc.2020.01.118>., Registrované v: WOS

7. [1.1] PRADHAN, Aruna D. - PAYNTER, Nina P. - EVERETT, Brendan M. - GLYNN, Robert J. - AMARENCO, Pierre - ELAM, Marshall - GINSBERG, Henry - HIATT, William R. - ISHIBASHI, Shun - KOENIG, Wolfgang - NORDESTGAARD, Borge G. - FRUCHART, Jean-Charles - LIBBY, Peter - RIDKER, Paul M. Rationale and design of the Pemafibrate to Reduce Cardiovascular Outcomes by Reducing Triglycerides in Patients with Diabetes (PROMINENT) study. In AMERICAN HEART JOURNAL. ISSN 0002-8703, 2018, vol. 206, no., pp. 80-93., Registrované v: WOS

8. [1.1] SANDOVAL-RODRIGUEZ, Ana - CHRISTIAN MONROY-RAMIREZ, Hugo - MEZA-RIOS, Alejandra - GARCIA-BANUELOS, Jesus - VERA-CRUZ, Jose - GUTIERREZ-CUEVAS, Jorge - SILVA-GOMEZ, Jorge - STAELS, Bart - DOMINGUEZ-ROSALES, Jose - GALICIA-MORENO, Marina - VAZQUEZ-DEL MERCADO, Monica - NAVARRO-PARTIDA, Jose - SANTOS-GARCIA, Arturo - ARMENDARIZ-BORUNDA, Juan. Pirfenidone Is an Agonistic Ligand for PPAR alpha and Improves NASH by Activation of SIRT1/LKB1/pAMPK. In HEPATOLOGY COMMUNICATIONS, 2020, vol. 4, no. 3, pp. 434-449. Dostupné na: <https://doi.org/10.1002/hep4.1474>., Registrované v: WOS

9. [1.1] SANTOS, Raul D. - ROCHA, Viviane Z. Mendelian randomization causally link lipoproteins to systemic atherosclerosis and help design clinical trials for the future of lipidology. In CURRENT OPINION IN LIPIDOLOGY. ISSN 0957-9672, 2018, vol. 29, no. 6, pp. 482-483., Registrované v: WOS

10. [1.1] SASAKI, Yusuke - RAZA-IQBAL, Sana - TANAKA, Toshiya - MURAKAMI, Kentaro - ANAI, Motonobu - OSAWA, Tsuyoshi - MATSUMURA, Yoshihiro - SAKAI, Juro - KODAMA, Tatsuhiko. Gene

Expression Profiles Induced by a Novel Selective Peroxisome Proliferator-Activated Receptor alpha Modulator (SPPARM alpha) Pemafibrate. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 22, pp., Registrované v: WOS

11. [1.1] SIRTORI, Cesare R. - YAMASHITA, Shizuya - GRECO, Maria Francesca - CORSINI, Alberto - WATTS, Gerald F. - RUSCICA, Massimiliano. Recent advances in synthetic pharmacotherapies for dyslipidaemias. In EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY. ISSN 2047-4873, 2020, vol. 27, no. 15, pp. 1576-1596. Dostupné na:

<https://doi.org/10.1177/2047487319845314>., Registrované v: WOS

12. [1.1] TOMITA, Yohei - LEE, Deokho - TSUBOTA, Kazuo - KURIHARA, Toshihide. PPAR alpha Agonist Oral Therapy in Diabetic Retinopathy. In BIOMEDICINES, 2020, vol. 8, no. 10, pp. Dostupné na: <https://doi.org/10.3390/biomedicines8100433>., Registrované v: WOS

13. [1.1] TOMITA, Yohei - OZAWA, Nobuhiro - MIWA, Yukihiro - ISHIDA, Ayako - OHTA, Masayuki - TSUBOTA, Kazuo - KURIHARA, Toshihide. Pemafibrate Prevents Retinal Pathological Neovascularization by Increasing FGF21 Level in a Murine Oxygen-Induced Retinopathy Model. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 23, pp., Registrované v: WOS

14. [1.1] YAMASHITA, Shizuya - ARAI, Hidenori - YOKOTE, Koutaro - ARAKI, Eiichi - MATSUSHITA, Mitsunori - NOJIMA, Toshiaki - SUGANAMI, Hideki - ISHIBASHI, Shun. Efficacy and Safety of Pemafibrate, a Novel Selective Peroxisome Proliferator-Activated Receptor alpha Modulator (SPPARM alpha): Pooled Analysis of Phase 2 and 3 Studies in Dyslipidemic Patients with or without Statin Combination. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 22, pp., Registrované v: WOS

15. [1.1] YAMASHITA, Shizuya - MASUDA, Daisaku - MATSUZAWA, Yui. Clinical Applications of a Novel Selective PPAR alpha Modulator, Pemafibrate, in Dyslipidemia and Metabolic Diseases. In JOURNAL OF ATHEROSCLEROSIS AND THROMBOSIS. ISSN 1340-3478, 2019, vol. 26, no. 5, pp. 389-402., Registrované v: WOS

16. [1.1] YAMASHITA, Shizuya - MASUDA, Daisaku - MATSUZAWA, Yuji. Pemafibrate, a New Selective PPAR alpha Modulator: Drug Concept and Its Clinical Applications for Dyslipidemia and Metabolic Diseases. In CURRENT ATHEROSCLEROSIS REPORTS. ISSN 1523-3804, 2020, vol. 22, no. 1, pp. Dostupné na:

<https://doi.org/10.1007/s11883-020-0823-5>., Registrované v: WOS

17. [1.1] YANG, Yu - ZHAO, Yu - LI, Wenzhen - WU, Yuyao - WANG, Xin - WANG, Yijie - LIU, Tingmei - YE, Tinghong - XIE, Yongmei - CHENG, Zhiqiang - HE, Jun - BAI, Peng - ZHANG, Yiwen - OUYANG, Liang. Emerging targets and potential therapeutic agents in non-alcoholic fatty liver disease treatment. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2020, vol. 197, no., pp. Dostupné na:

<https://doi.org/10.1016/j.ejmech.2020.112311>., Registrované v: WOS

ADCA1449 YEN, T.Y. - MACHER, B.A. - BRYSON, S. - CHANG, X.Q. - TVAROŠKA, Igor - TSE, R. - TAKESHITA, S. - LEW, A.M. - DATTI, A. Highly conserved cysteines of mouse core 2 β 1,6-N-acetylglucosaminyltransferase I form a network of disulfide bonds and include a thiol that affects enzyme activity. In

Journal of Biological Chemistry, 2003, vol. 278, p. 45864-45881. (2002: 6.696 - IF, Current Contents - CCC). (2003 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M303851200>

Ohlasy:

1. [1.1] KELLOKUMPU, Sakari - HASSINEN, Antti - GLUMOFF, Tuomo. Glycosyltransferase complexes in eukaryotes: long-known, prevalent but still unrecognized. In *CELLULAR AND MOLECULAR LIFE SCIENCES*. ISSN 1420-682X, 2016, vol. 73, no. 2, pp. 305-325., Registrované v: WOS
2. [3.2] Group Author(s). Uniprot Consortium. Q09324. IN UniProt Knowledgebase, 2017. Dostupné na internete: <http://www.uniprot.org/uniprot/Q09324>, Registrované v: Data Citation Index
3. [3.2] Group Author(s). Uniprot Consortium. Q09324. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q09324>, Registrované v: Data Citation Index

ADCA1450 YORDANOV, Georgi - GEMEINER, Peter - KATRLÍK, Jaroslav.
Study of interactions between blood plasma proteins and poly(butyl cyanoacrylate) drug nanocarriers by surface plasmon resonance. In *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2016, vol. 510, p. 309-316. (2015: 2.760 - IF, Q2 - JCR, 0.795 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0927-7757. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2016.05.080>

Ohlasy:

1. [1.1] ALAVI, Seyed Ebrahim - AL HARTHI, Sitah Muflih - SHAHMABADI, Hasan Ebrahimi - AKBARZADEH, Azim. Cisplatin-Loaded Polybutylcyanoacrylate Nanoparticles with Improved Properties as an Anticancer Agent. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2019, vol. 20, no. 7, pp., Registrované v: WOS
2. [1.1] KORDE, Jay M. - KANDASUBRAMANIAN, Balasubramanian. Biocompatible alkyl cyanoacrylates and their derivatives as bio-adhesives. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2018, vol. 6, no. 7, pp. 1691-1711., Registrované v: WOS
3. [1.1] LIRA, Andre L. - FERREIRA, Rodrigo S. - TORQUATO, Ricardo J. S. - ZHAO, Huaying - OLIVA, Maria Luiza V. - HASSAN, Sergio A. - SCHUCK, Peter - SOUSA, Alioscka A. Binding kinetics of ultrasmall gold nanoparticles with proteins. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 7, pp. 3235-3244., Registrované v: WOS
4. [1.2] HEARTY, Stephen - LEONARD, Paul - MA, Hui - O'KENNEDY, Richard. Measuring antibody-antigen binding kinetics using surface plasmon resonance. In *Methods in Molecular Biology*. ISSN 10643745, 2018-01-01, 1827, pp. 421-455., Registrované v: SCOPUS

ADCA1451 ZAVAHIR, Sifani - KRUPA, Igor - AL-MAADEED, Sumaya Ali - TKÁČ, Ján - KASÁK, Peter**. Polyzwitterionic hydrogels in engines based on the antipolyelectrolyte effect and driven by the salinity gradient. In *Environmental Science and Technology*, 2019, vol. 53, p. 9260-9268. (2018: 7.149 - IF, Q1 - JCR, 2.514 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0013-936X. Dostupné na: <https://doi.org/10.1021/acs.est.8b06377>

Ohlasy:

1. [1.1] ZHANG, Sui - LIN, Shaoting - ZHAO, Xuanhe - KARNIK,

Rohit. Thermodynamic analysis and material design to enhance chemo-mechanical coupling in hydrogels for energy harvesting from salinity gradients. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, 2020, vol. 128, no. 4, pp. Dostupné na: <https://doi.org/10.1063/5.0013357>., Registrované v: WOS

ADCA1452 ZDURIENČÍKOVÁ, Martina - CHOLUJOVÁ, Dana - DURAJ, Jozef - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - KARNIŠOVÁ POTOCKÁ, Elena - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - KLAPÁKOVÁ, Martina - HORVÁTHOVÁ, Eva**. Salidroside, a chemopreventive glycoside, diminishes cytotoxic effect of cisplatin in vitro. In *Basic & Clinical Pharmacology & Toxicology*, 2018, vol. 122, no. 3, p. 346-354. (2017: 2.659 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 1742-7835. Dostupné na: <https://doi.org/10.1111/bcpt.12906>

Ohlasy:

1. [1.1] MIGUEZ, Noa - RAMIREZ-ESCUADERO, Mercedes - GIMENO-PEREZ, Maria - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - FERNANDEZ-LOBATO, Maria - SANZ-APARICIO, Julia - PLOU, Francisco J. Fructosylation of Hydroxytyrosol by the beta-Fructofuranosidase from *Xanthophyllomyces dendrorhous*: Insights into the Molecular Basis of the Enzyme Specificity. In CHEMCATCHER. ISSN 1867-3880, 2018, vol. 10, no. 21, pp. 4892-4901., Registrované v: WOS
2. [1.1] NIE, Ying - YAO, Weifeng. A Comprehensive Quality Evaluation Method Based on C-30-HPLC and an Analytic Hierarchy Process for the Chinese Herbal Formula, Erzhiwan. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 8, pp., Registrované v: WOS
3. [1.1] YAN, Rui - XU, Hua - FU, Xiaoxiang. Salidroside protects hypoxia-induced injury by up-regulation of miR-210 in rat neural stem cells. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2018, vol. 103, no., pp. 1490-1497., Registrované v: WOS

ADCA1453 ZELKO, Ivan - LUX, Alexander - STERCKEMAN, Thibault - MARTINKA, Michal - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. An easy method for cutting and fluorescent staining of thin roots. In *Annals of Botany*, 2012, vol. 110, p. 475-478. (2011: 4.030 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcs046>

Ohlasy:

1. [1.1] ATKINSON, Jonathan A. - WELLS, Darren M. An Updated Protocol for High Throughput Plant Tissue Sectioning. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BLUM, Adrien - BRESSAN, Melanie - ZAHID, Abderrakib - TRINSOUTROT-GATTIN, Isabelle - DRIOUICH, Azeddine - LAVAL, Karine. Verticillium Wilt on Fiber Flax: Symptoms and Pathogen Development In Planta. In PLANT DISEASE. ISSN 0191-2917, 2018, vol. 102, no. 12, pp. 2421-2429., Registrované v: WOS
3. [1.1] BRABHAM, Chad - SINGH, Abhishek - STORK, Jozsef - RONG, Ying - KUMAR, Indrajit - KIKUCHI, Kazuhiro - YINGLING, Yaroslava G. - BRUTNELL, Thomas P. - ROSE, Jocelyn K. C. - DEBOLT, Seth.

- Biochemical and physiological flexibility accompanies reduced cellulose biosynthesis in *Brachypodium cesa1*(S830N). In AOB PLANTS. ISSN 2041-2851, 2019, vol. 11, no. 5, pp., Registrované v: WOS
4. [1.1] FEIGL, Gabor - MOLNAR, Arpad - SZOLLOSI, Reka - ORDOG, Attila - TOROCSI, Kitti - OLAH, Dora - BODOR, Attila - PEREI, Katalin - KOLBERT, Zsuzsanna. Zinc-induced root architectural changes of rhizotron-grown *B. napus* correlate with a differential nitro-oxidative response. In NITRIC OXIDE-BIOLOGY AND CHEMISTRY. ISSN 1089-8603, 2019, vol. 90, no., pp. 55-65., Registrované v: WOS
 5. [1.1] GOLAN, Guy - HENDEL, Elisha - ESPITIA, Gabriel E. Mendez - SCHWARTZ, Nimrod - PELEG, Zvi. Activation of seminal root primordia during wheat domestication reveals underlying mechanisms of plant resilience. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2018, vol. 41, no. 4, pp. 755-766., Registrované v: WOS
 6. [1.1] HUBBE, Martin A. - CHANDRA, Richard P. - DOGU, Dilek - VAN VELZEN, S. T. J. Analytical Staining of Cellulosic Materials: A Review. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 3, pp. 7387-7464., Registrované v: WOS
 7. [1.1] KITIN, Peter - NAKABA, Satoshi - HUNT, Christopher G. - LIM, Sierin - FUNADA, Ryo. Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. In AOB PLANTS. ISSN 2041-2851, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.1093/aobpla/plaa032>., Registrované v: WOS
 8. [1.1] KOLBERT, Zsuzsanna - MOLNAR, Arpad - SZOLLOSI, Reka - FEIGL, Gabol - ERDEI, Laszlo - ORDOG, Attila. Nitro-Oxidative Stress Correlates with Se Tolerance of *Astragalus* Species. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2018, vol. 59, no. 9, pp. 1827-1843., Registrované v: WOS
 9. [1.1] KOLBERT, Zsuzsanna - OLAH, Dora - MOLNAR, Arpad - SZOLLOSI, Reka - ERDEI, Laszlo - ORDOG, Attila. Distinct redox signalling and nickel tolerance in *Brassica juncea* and *Arabidopsis thaliana*. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2019.109989>., Registrované v: WOS
 10. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
 11. [1.1] MATUSZEK, Dominika B. - WOJTKIEWICZ, Krystian. APPLICATION OF FLUORESCENT MARKERS FOR HOMOGENEITY ASSESSMENT OF GRAIN MIXTURES BASED ON MAIZE CONTENT. In CHEMICAL AND PROCESS ENGINEERING-INZYNIERIA CHEMICZNA I PROCESOWA. ISSN 0208-6425, 2017, vol. 38, no. 4, pp. 505-512., Registrované v: WOS
 12. [1.1] MOLNAR, Arpad - RONA VARI, Andrea - BELTEKY, Peter - SZOLLOSI, Reka - VALYON, Emil - OLAH, Dora - RAZGA, Zsolt - ORDOG, Attila - KONYA, Zoltan - KOLBERT, Zsuzsanna. ZnO nanoparticles induce cell wall remodeling and modify ROS/RNS signalling in roots of *Brassica* seedlings.

In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2020, vol. 206, no., pp. Dostupné na:

<https://doi.org/10.1016/j.ecoenv.2020.111158>., Registrované v: WOS

13. [1.1] SOUKUP, Ales - TYLOVA, Edita. Essential Methods of Plant Sample Preparation for Light Microscopy. In PLANT CELL

MORPHOGENESIS: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2019, vol. 1992, no., pp. 1-26., Registrované v: WOS

14. [1.1] STAVENGA, Doekele G. - VAN DER KOOL, Casper J.

Coloration of the Chilean Bellflower, *Nolana paradoxa*, interpreted with a scattering and absorbing layer stack model. In PLANTA. ISSN 0032-0935, 2016, vol. 243, no. 1, pp. 171-181., Registrované v: WOS

15. [1.1] URSACHE, Robertas - ANDERSEN, Tonni Grube -

MARHAVY, Peter - GELDNER, Niko. A protocol for combining fluorescent proteins with histological stains for diverse cell wall components. In PLANT JOURNAL. ISSN 0960-7412, 2018, vol. 93, no. 2, pp. 399-412., Registrované v: WOS

ADCA1454 ZELKO, Ivan - OUVARD, Stéphanie - SIRGUEY, Catherine. Roots alterations in presence of phenanthrene may limit co-remediation implementation with *Nocca caerulescens*. In *Environmental Science and Pollution Research*, 2017, vol. 24, no. 24, p. 19653-19661. (2016: 2.741 - IF, Q2 - JCR, 0.891 - SJR, Q1 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-017-9592-2>

Ohlasy:

1. [1.1] KRZESLOWSKA, Magdalena - TIMMERS, Antonius C. J. - MLECZEK, Mirosław - NIEDZIELSKI, Przemysław - RABEDA, Irena - WOZNY, Adam - GOLINSKI, Piotr. Alterations of root architecture and cell wall modifications in *Tilia cordata* Miller (Linden) growing on mining sludge. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2019, vol. 248, no., pp. 247-259., Registrované v: WOS

2. [1.2] SHI, Wei - GUO, Yanjie - NING, Guohui - LI, Cheng - LI, Yan - REN, Yilei - ZHAO, Ouya - YANG, Zhixin. Remediation of soil polluted with HMW-PAHs by alfalfa or brome in combination with fungi and starch. In Journal of Hazardous Materials. ISSN 03043894, 2018-10-15, 360, pp. 115-121., Registrované v: SCOPUS

ADCA1455 ZEMEK, Juraj - KOŠÍKOVÁ, Božena - JONIAK, Dušan.

Antimicrobial effects of lignin compounds. In *Folia Microbiologica*, 1979, vol. 24, p. 483-486. ISSN 0015-5632.

Ohlasy:

1. [1.1] BAH, Addie - SHAO, Jianzhong - MOHSENI, Madjid - KO, Frank K. Membranes based on electrospun lignin-zeolite composite nanofibers. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 187, no., pp. 207-213., Registrované v: WOS

2. [1.1] BEISL, Stefan - FRIEDL, Anton - MILTNER, Angela. Lignin from Micro- to Nanosize: Applications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 11, pp., Registrované v: WOS

3. [1.1] COLBURN, Andrew - VOGLER, Ronald J. - PATEL, Aum - BEZOLD, Mariah - CRAVEN, John - LIU, Chunqing - BHATTACHARYYA,

- Dibakar. Composite Membranes Derived from Cellulose and Lignin Sulfonate for Selective Separations and Antifouling Aspects. In NANOMATERIALS. ISSN 2079-4991, 2019, vol. 9, no. 6, pp., Registrované v: WOS
4. [1.1] DAS, Paramita - VERMA, Chhavi - PRABHAKAR, Arjun - MAJI, Pradip K. Chemistry, Biology, and Surface Engineering of Sustainable Nanostructural Materials. In DYNAMICS OF ADVANCED SUSTAINABLE NANOMATERIALS AND THEIR RELATED NANOCOMPOSITES AT THE BIO-NANO INTERFACE, 2019, vol., no., pp. 25-52., Registrované v: WOS
5. [1.1] FERNANDEZ-RODRIGUEZ, Javier - ERDOCIA, Xabier - HERNANDEZ-RAMOS, Fabio - GONZALEZ ALRIOLS, Maria - LABIDI, Jalel. Lignin Separation and Fractionation by Ultrafiltration. In SEPARATION OF FUNCTIONAL MOLECULES IN FOOD BY MEMBRANE TECHNOLOGY, 2019, vol., no., pp. 229-265., Registrované v: WOS
6. [1.1] GABOV, Konstantin - OJA, Terhi - DEGUCHI, Takahiro - FALLARERO, Adyary - FARDIM, Pedro. Preparation, characterization and antimicrobial application of hybrid cellulose-lignin beads. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 2, pp. 641-658., Registrované v: WOS
7. [1.1] GAZDAGLI, Aylin - SEFER, Ozlem - YORUK, Emre - VAROL, Gulcin Inci - TEKER, Tugba - ALBAYRAK, Gulruh. Investigation of Camphor Effects on Fusarium graminearum and F. culmorum at Different Molecular Levels. In PATHOGENS. ISSN 2076-0817, 2018, vol. 7, no. 4, pp., Registrované v: WOS
8. [1.1] GORDOBIL, Oihana - HERRERA, Rene - YAHYAOU, Marwa - ILK, Sedef - KAYA, Murat - LABIDI, Jalel. Potential use of kraft and organosolv lignins as a natural additive for healthcare products. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 43, pp. 24525-24533., Registrované v: WOS
9. [1.1] GROSSMAN, Adam B. - RICE, Kelly C. - VERMERRIS, Wilfred. Lignin solvated in zwitterionic Good's buffers displays antibacterial synergy against Staphylococcus aureus. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 37, pp. Dostupné na: <https://doi.org/10.1002/app.49107>., Registrované v: WOS
10. [1.1] KALINOSKI, Ryan M. - SHI, Jian. Hydrogels derived from lignocellulosic compounds: Evaluation of the compositional, structural, mechanical and antimicrobial properties. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 128, no., pp. 323-330., Registrované v: WOS
11. [1.1] KALINOSKI, Ryan M. - LI, Wenqi - MOBLEY, Justin K. - ASARE, Shadrack O. - DORRANI, Masoumeh - LYNN, Bert C. - CHEN, Xiaowen - SHI, Jian. Antimicrobial Properties of Corn Stover Lignin Fractions Derived from Catalytic Transfer Hydrogenolysis in Supercritical Ethanol with a Ru/C Catalyst. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18455-18467. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05812>., Registrované v: WOS
12. [1.1] LEE, Young-Hee - KIM, Ae-Li - PARK, Young-Gwang - HWANG, Eun-Kyung - BAEK, Young-Mee - CHO, Sunja - KIM, Han-Do. Colorimetric assay and deodorizing/antibacterial performance of natural fabrics dyed with immature pine cone extract. In TEXTILE RESEARCH JOURNAL. ISSN 0040-5175, 2018, vol. 88, no. 7, pp. 731-743., Registrované v: WOS
13. [1.1] MEDEIROS, Daianne - OLIVEIRA-JUNIOR, Jose -

- NOBREGA, Jefferson - CORDEIRO, Laisa - JARDIM, Jeane - SOUZA, Helivaldo - SILVA, Gracielle - ATHAYDE-FILHO, Petronio - BARBOSA-FILHO, Jose - SCOTTI, Luciana - LIMA, Edeltrudes. Isoeugenol and Hybrid Acetamides against *Candida albicans* Isolated from the Oral Cavity. In PHARMACEUTICALS, 2020, vol. 13, no. 10, pp. Dostupné na: <https://doi.org/10.3390/ph13100291>., Registrované v: WOS
14. [1.1] MICCICHE, Andrew - ROTHROCK, Michael J. - YANG, Yichao - RICKE, Steven C. Essential Oils as an Intervention Strategy to Reduce *Campylobacter* in Poultry Production: A Review. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS
15. [1.1] NIELSEN, C. K. - SUBBIAHDOSS, G. - ZENG, G. - SALMI, Z. - KJEMS, J. - MYGIND, T. - SNABE, T. - MEYER, R. L. Antibacterial isoeugenol coating on stainless steel and polyethylene surfaces prevents biofilm growth. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2018, vol. 124, no. 1, pp. 179-187., Registrované v: WOS
16. [1.1] OLEA, Andres F. - BRAVO, Angelica - MARTINEZ, Rolando - THOMAS, Mario - SEDAN, Claudia - ESPINOZA, Luis - ZAMBRANO, Elisabeth - CARVAJAL, Denisse - SILVA-MORENO, Evelyn - CARRASCO, Hector. Antifungal Activity of Eugenol Derivatives against *Botrytis Cinerea*. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 7, pp., Registrované v: WOS
17. [1.1] ROEHE, I - METZGER, F. - VAHJEN, W. - BROCKMANN, G. A. - ZENTEK, J. Effect of feeding different levels of lignocellulose on performance, nutrient digestibility, excreta dry matter, and intestinal microbiota in slow growing broilers. In POULTRY SCIENCE, 2020, vol. 99, no. 10, pp. 5018-5026. Dostupné na: <https://doi.org/10.1016/j.psj.2020.06.053>., Registrované v: WOS
18. [1.1] SANTOS, Jessica D. C. - COELHO, Elisabete - SILVA, Rita - PASSOS, Claudia P. - TEIXEIRA, Pedro - HENRIQUES, Isabel - COIMBRA, Manuel A. Chemical composition and antimicrobial activity of *Satureja montana* byproducts essential oils. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2019, vol. 137, no., pp. 541-548., Registrované v: WOS
19. [1.1] SCHARF, Michael E. Challenges and physiological implications of wood feeding in termites. In CURRENT OPINION IN INSECT SCIENCE. ISSN 2214-5745, 2020, vol. 41, no., pp. 79-85. Dostupné na: <https://doi.org/10.1016/j.cois.2020.07.007>., Registrované v: WOS
20. [1.1] SPIRIDON, Iuliana. BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS OF LIGNIN AND ITS DERIVATIVES: A MINI-REVIEW. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2018, vol. 52, no. 7-8, pp. 543-550., Registrované v: WOS
21. [1.1] SUNTHORNVARABHAS, Jackapon - LIENGPRAYOON, Siriluck - LERKSAMRAN, Tucksin - BURATCHARIN, Chonlada - SUWONSICHON, Thongchai - VANICHSRIRATANA, Wirat - SRIROTH, Klanarong. Utilization of Lignin Extracts from Sugarcane Bagasse as Bio-based Antimicrobial Fabrics. In SUGAR TECH. ISSN 0972-1525, 2019, vol. 21, no. 2, pp. 355-363., Registrované v: WOS
22. [1.1] SUNTHORNVARABHAS, Jackapon - RUNGTHAWORN, Prapassorn - SUKATTA, Udomlak - JUNTRATIP, Narissara - SRIROTH, Klanarong. Antimicrobial Tendency of Bagasse Lignin Extracts by Raman Peak

Intensity. In SUGAR TECH. ISSN 0972-1525, 2020, vol. 22, no. 4, pp. 697-705.
Dostupné na: <https://doi.org/10.1007/s12355-019-00778-x>., Registrované v:
WOS

23. [1.1] VAINIO-KAILA, Tiina - ZHANG, Xue - HANNINEN, Tuomas - KYHKKYNNEN, Aino - JOHANSSON, Leena-Sisko - WILLFOR, Stefan - OSTERBERG, Monika - SIITONEN, Anja - RAUTKARI, Lauri. Antibacterial Effects of Wood Structural Components and Extractives from *Pinus sylvestris* and *Picea abies* on Methicillin-Resistant *Staphylococcus aureus* and *Escherichia coli* O157: H7. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 7601-7614., Registrované v: WOS

24. [1.1] XIE, Yimin - CHEN, Xuekuan - JIANG, Chen - WU, Hongfei - YE, Zhezi. Preparation of Oligomeric Dehydrogenation Polymer and Characterization of its Antibacterial Properties. In BIORESOURCES. ISSN 1930-2126, 2019, vol. 14, no. 2, pp. 2842-2860., Registrované v: WOS

25. [1.1] YANG, Shujuan - WANG, Tianhao - TANG, Rong - YAN, Qinglin - TIAN, Weiqian - ZHANG, Liping. Enhanced permeability, mechanical and antibacterial properties of cellulose acetate ultrafiltration membranes incorporated with lignocellulose nanofibrils. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, no., pp. 159-167. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.124>., Registrované v: WOS

26. [1.2] ALIGHIALO, Nasim Safari - RAHIMI, Ruhollah - HAJIREZAEI, Saeed - NIKOOKHAH, Farzaneh. ¹H NMR-based metabolomics approach to understanding the temperature-dependent pathogenicity of *Lactococcus garvieae*. In International Journal of Aquatic Biology. ISSN 23830956, 2019-01-01, 7, 4, pp. 224-232., Registrované v: SCOPUS

27. [1.2] FERNÁNDEZ-RODRÍGUEZ, Javier - ERDOČIA, Xabier - HERNÁNDEZ-RAMOS, Fabio - ALRIOLS, María González - LABID, Jalel. Lignin separation and fractionation by ultrafiltration. In Separation of Functional Molecules in Food by Membrane Technology, 2018-01-01, pp. 229-265., Registrované v: SCOPUS

28. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADCA1456 ZEMEK, Juraj - LINEK, Kazimír - KADLEČÍKOVÁ, B. - KUČÁR, Š. - SZOMOGYI, L. Antimicrobial effect of sugar osazones and anhydro sugars. In *Folia Microbiologica*, 1985, vol. 30, p. 396-399. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02927596>

Ohlasy:

1. [1.1] CHEN, Zhongli - SCHMIDT, Burkhard - SCHAEFFER, Andreas. Uptake and decomposition of the herbicide propanil in the plant *Bidens pilosa* L. dominating in the Yangtze Three Gorges Reservoir (TGR), China. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 12, pp. 11141-11153., Registrované v: WOS

ADCA1457 ZEMEK, Juraj - KUNIAK, Ľudovít - GEMEINER, Peter - ZÁMOCKÝ, Juraj - KUČÁR, Štefan. Crosslinked polyethylenimine: an enzyme carrier with spacers of various lengths introduced in crosslinking reaction. In

Enzyme and Microbial Technology, 1982, vol. 4, p. 233-238. ISSN 0141-0229.
Dostupné na: [https://doi.org/10.1016/0141-0229\(82\)90037-0](https://doi.org/10.1016/0141-0229(82)90037-0)

Ohlasy:

1. [1.1] VIRGEN-ORTIZ, Jose J. - DOS SANTOS, Jose C. S. - BERENGUER-MURCIA, Angel - BARBOSA, Oveimar - RODRIGUES, Rafael C. - FERNANDEZ-LAFUENTE, Roberto. Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2017, vol. 5, no. 36, pp. 7461-7490., Registrované v: WOS

ADCA1458 ZEMEK, Juraj - HRICOVÁ, Daniela - STRMEŇ, J. - BAUER, Štefan. Effect of 2-deoxy-D-glucose on tissue culture of *Nicotiana tabacum* L. (cv. Virginia Bright Italia). In *Zeitschrift fur Pflanzenphysiologie*, 1975, vol.76, p. 114-120.

Ohlasy:

1. [1.1] JUNG, Benjamin - LUDEWIG, Frank - SCHULZ, Alexander - MEISSNER, Garvin - WOESTEFELD, Nicole - FLUEGGE, Ulf-Ingo - POMMERENIG, Benjamin - WIRSCHING, Petra - SAUER, Norbert - KOCH, Wolfgang - SOMMER, Frederik - MUEHLHAUS, Timo - SCHRODA, Michael - CUIN, Tracey Ann - GRAUS, Dorothea - MARTEN, Irene - HEDRICH, Rainer - NEUHAUS, H. Ekkehard. Identification of the transporter responsible for sucrose accumulation in sugar beet taproots. In *NATURE PLANTS*. ISSN 2055-026X, 2015, vol. 1, no. 1, pp., Registrované v: WOS

ADCA1459 ZEMEK, Juraj - JEŽO, Ivan. Induction by α,α' -trehalose derivatives of α,α' -trehalase from *Saccharomyces cerevisiae* and *Aureobasidium pullulans*. In *Folia Microbiologica*, 1987, vol. 32, p. 417-420. ISSN 0015-5632.

Ohlasy:

1. [1.1] LIU, Tingting - ZHU, Liying - ZHANG, Zhiping - HUANG, He - ZHANG, Zhidong - JIANG, Ling. Protective role of trehalose during radiation and heavy metal stress in *Aureobasidium subglaciale* F134. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA1460 ZEMEK, Juraj - FARKAŠ, Vladimír - BIELY, Peter - BAUER, Štefan. Transglycosylic reactions of nucleotides of 2-deoxy sugars. II. 2-Deoxyglucose incorporation into glycogen. In *Biochimica et Biophysica Acta*, 1971, vol. 252, p. 432-438. Dostupné na: [https://doi.org/10.1016/0304-4165\(71\)90145-0](https://doi.org/10.1016/0304-4165(71)90145-0)

Ohlasy:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

ADCA1461 ZEMEK, J. - VALENT, M. - PODOVÁ, M. - KOŠÍKOVÁ, Božena - JONIAK, Dušan. Antimicrobial properties of aromatic compounds of plant origin. In *Folia microbiologica*, 1987, vol. 32, p. 421-425. ISSN 0015-5632.

Ohlasy:

1. [1.1] ERSANLI, Cem Cuneyt - KANTAR, Gunay Kaya - SASMAZ, Selami. Crystallographic, spectroscopic (FTIR and NMR) and quantum computational calculation studies on bis(2-methoxy-4-((E)-prop-1-enyl)phenyl)oxalate. In *JOURNAL OF*

MOLECULAR STRUCTURE. ISSN 0022-2860, 2017, vol. 1143, no., pp. 318-327., Registrované v: WOS

2. [1.1] GORDOBIL, Oihana - HERRERA, Rene - YAHYAUI, Marwa - ILK, Sedef - KAYA, Murat - LABIDI, Jalel. Potential use of kraft and organosolv lignins as a natural additive for healthcare products. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 43, pp. 24525-24533., Registrované v: WOS

3. [1.1] GROSSMAN, Adam B. - RICE, Kelly C. - VERMERRIS, Wilfred. Lignin solvated in zwitterionic Good's buffers displays antibacterial synergy against *Staphylococcus aureus*. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 37, pp. Dostupné na: <https://doi.org/10.1002/app.49107>., Registrované v: WOS

4. [1.1] HYLDGAARD, Morten - MEYER, Rikke L. - PENG, Min - HIBBERD, Ashley A. - FISCHER, Jana - SIGMUNDSSON, Arnar - MYGIND, Tina. Binary combination of epsilon-poly-L-lysine and isoeugenol affect progression of spoilage microbiota in fresh turkey meat, and delay onset of spoilage in *Pseudomonas putida* challenged meat. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2015, vol. 215, no., pp. 131-142., Registrované v: WOS

5. [1.1] HYLDGAARD, Morten - MYGIND, Tina - PIOTROWSKA, Roxana - FOSS, Morten - MEYER, Rikke L. Isoeugenol has a non-disruptive detergent-like mechanism of action. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2015, vol. 6, no., pp., Registrované v: WOS

6. [1.1] KUMAR, Harish - AGRAWAL, Rohini - KUMAR, Vipin. *Barleria cristata*: perspective towards phytopharmacological aspects. In JOURNAL OF PHARMACY AND PHARMACOLOGY. ISSN 0022-3573, 2018, vol. 70, no. 4, pp. 475-487., Registrované v: WOS

7. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

8. [1.1] LYU, Xiaomei - LEE, Jaslyn - CHEN, Wei Ning. Potential Natural Food Preservatives and Their Sustainable Production in Yeast: Terpenoids and Polyphenols. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 16, pp. 4397-4417., Registrované v: WOS

9. [1.1] NIELSEN, C. K. - SUBBIAHDOSS, G. - ZENG, G. - SALMI, Z. - KJEMS, J. - MYGIND, T. - SNABE, T. - MEYER, R. L. Antibacterial isoeugenol coating on stainless steel and polyethylene surfaces prevents biofilm growth. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2018, vol. 124, no. 1, pp. 179-187., Registrované v: WOS

10. [1.1] SENA-LOPES, Angela - BRILHANTE BEZERRA, Francisco Silvestre - DAS NEVES, Raquel Nascimento - DE PINHO, Rodrigo Barros - DE OLIVEIRA SILVA, Mara Thais - SAVEGNAGO, Lucielli - COLLARES, Tiago - SEIXAS, Fabiana - BEGNINI, Karine - PEGAS HENRIQUES, Joao Antonio - ELY, Mariana Roesch - RUFATTO, Luciane C. - MOURA, Sidnei - BARCELLOS, Thiago - PADILHA, Francine - DELLAGOSTIN, Odir - BORSUK, Sibeles. Chemical composition, immunostimulatory, cytotoxic and

- antiparasitic activities of the essential oil from Brazilian red propolis. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS
11. [1.1] SCHARF, Michael E. Challenges and physiological implications of wood feeding in termites. In CURRENT OPINION IN INSECT SCIENCE. ISSN 2214-5745, 2020, vol. 41, no., pp. 79-85. Dostupné na: <https://doi.org/10.1016/j.cois.2020.07.007>., Registrované v: WOS
12. [1.2] ALIGHIALO, Nasim Safari - RAHIMI, Ruhollah - HAJIREZAEI, Saeed - NIKOOKHAH, Farzaneh. ¹H NMR-based metabolomics approach to understanding the temperature-dependent pathogenicity of *Lactococcus garvieae*. In International Journal of Aquatic Biology. ISSN 23830956, 2019-01-01, 7, 4, pp. 224-232., Registrované v: SCOPUS
13. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADCA1462 ZEMEK, J. - MARVANOVÁ, L. - KUNIAK, Ľ. - KADLEČÍKOVÁ, B.. Hydrolytic enzymes in aquatic hyphomycetes. In *Folia microbiologica*, 1985, vol. 30, p. 363-372. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02927592>

Ohlasy:

1. [1.1] BAERLOCHER, Felix - BODDY, Lynne. Aquatic fungal ecology How does it differ from terrestrial? In FUNGAL ECOLOGY. ISSN 1754-5048, 2016, vol. 19, no., pp. 5-13., Registrované v: WOS
2. [1.1] BAERLOCHER, F. Aquatic hyphomycetes in a changing environment. In FUNGAL ECOLOGY. ISSN 1754-5048, 2016, vol. 19, no., pp. 14-27., Registrované v: WOS
3. [1.1] CANHOTO, Cristina - GONCALVES, Ana Lucia - BAERLOCHER, Felix. Biology and ecological functions of aquatic hyphomycetes in a warming climate. In FUNGAL ECOLOGY. ISSN 1754-5048, 2016, vol. 19, no., pp. 201-218., Registrované v: WOS
4. [1.1] CANHOTO, Cristina - SIMOES, Sara - GONCALVES, Ana Lucia - GUILHERMINO, Lucia - BARLOCHER, Felix. Stream salinization and fungal-mediated leaf decomposition: A microcosm study. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2017, vol. 599, no., pp. 1638-1645., Registrované v: WOS
5. [1.1] CORNUT, Julien - FERREIRA, Veronica - GONCALVES, Ana Lucia - CHAUVET, Eric - CANHOTO, Cristina. Fungal alteration of the elemental composition of leaf litter affects shredder feeding activity. In FRESHWATER BIOLOGY. ISSN 0046-5070, 2015, vol. 60, no. 9, pp. 1755-1771., Registrované v: WOS
6. [1.1] FERREIRA, Veronica - GRACA, Manuel A. S. Effects of whole-stream nitrogen enrichment and litter species mixing on litter decomposition and associated fungi. In LIMNOLOGICA. ISSN 0075-9511, 2016, vol. 58, no., pp. 69-77., Registrované v: WOS
7. [1.1] TSUI, Clement K. M. - BASCHIEN, Christiane - GOH, Teik-Khiang. Biology and Ecology of Freshwater Fungi. In BIOLOGY OF MICROFUNGI. ISSN 2198-7777, 2016, vol., no., pp. 285-313., Registrované v: WOS
8. [1.2] CASOTTI, Cinthia G. - KIFFER, Wallace P. - COSTA, Larissa

C. - BARBOSA, Pâmela - MORETTI, Marcelo S. The longer the conditioning, the better the quality? The effects of leaf conditioning time on aquatic hyphomycetes and performance of shredders in a tropical stream. In *Aquatic Ecology*. ISSN 13862588, 2019-06-15, 53, 2, pp. 163-178., Registrované v: SCOPUS

ADCA1463 ZHAO, S. - PETRUŠ, Ladislav - SERIANNI, A.S.

1-Deoxy-D-xylulose: Synthesis based on molybdate-catalyzed rearrangement of a branched-chain aldotetrose. In *Organic Letters*, 2001, vol. 3, p. 3819-3822. ISSN 1523-7060. Dostupné na: <https://doi.org/10.1021/ol016265f>

Ohlasy:

1. [1.1] GONZALEZ, Cesar - KAVOOSI, Sam - SANCHEZ, Andersson - WNUK, Stanislaw F. Reduction of sugar lactones to hemiacetals with lithium triethylborohydride. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2016, vol. 432, no., pp. 17-22., Registrované v: WOS
2. [1.1] GUCHHAIT, Sandip - GOSWAMI, Rajib Kumar. Studies toward the synthesis of macrotermycin C: stereoselective construction of the acyclic skeleton of the aglycon. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2019, vol. 17, no. 43, pp. 9502-9509., Registrované v: WOS

ADCA1464 ZICHOVÁ, Miroslava - STRATILOVÁ, Eva - ROSENBERG, Michal - OMELKOVÁ, Jiřina. Imobilizace celulólytických enzymů na nosiče z polyethylentereftalátu a polyakrylamidu. In *Chemické Listy*, 2015, vol. 109, p. 946-949. (2014: 0.272 - IF, Q4 - JCR, 0.198 - SJR, Q3 - SJR, Current Contents - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Ohlasy:

1. [1.1] DESKA, Malgorzata - KONCZAK, Beata. Operational stability of laccases under immobilization conditions. In *PRZEMYSŁ CHEMICZNY*. ISSN 0033-2496, 2020, vol. 99, no. 3, pp. 472-476. Dostupné na: <https://doi.org/10.15199/62.2020.3.22.>, Registrované v: WOS

ADCA1465 ZITKO, V. - ROSÍK, Jozef - BRUTENIČOVÁ, M. - KUBALA, Jozef. Some structural features of apricot-tree gum (*Prunus armenica* L.). In *Collection of Czechoslovak Chemical Communications*, 1965, vol. 30, p. 3501-3512. ISSN 0010-0765.

Ohlasy:

1. [1.1] SHAMSARA, Omid - JAFARI, Seid Mahdi - MUHIDINOV, Zayniddin K. Fabrication, characterization and stability of oil in water nano-emulsions produced by apricot gum-pectin complexes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 1285-1293., Registrované v: WOS

ADCB Scientific papers in foreign journals registered in Current Contents Connect without IF (non-impacted)

ADCB01 DAMBORSKÁ, Dominika - KASÁK, Peter - TKÁČ, Ján. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In *Open Chemistry*, 2015, vol. 13, p. 636-655. (2015 - Current Contents, WOS). ISSN 2391-5420. Dostupné na: <https://doi.org/10.1515/chem-2015-0082>

Ohlasy:

1. [1.1] AGUILAR, Ananda Pereira - ONOFRE, Thiago Souza - FABRES-KLEIN, Mary Hellen - KLEIN, Raphael Contelli - FEIO, Renato Neves - DE OLIVEIRA MENDES, Tiago Antonio - BARROS RIBON, Andrea de Oliveira. Carbohydrate-independent antibiofilm effect of Bothrops jararacussu lectin BJcuL on Staphylococcus aureus. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, 2019, vol. 137, no., pp., Registrované v: WOS
2. [1.1] BHATTARAI, Jay K. - TAN, Yih Horng - PANDEY, Binod - FUJIKAWA, Kohki - DEMCHENKO, Alexei V. - STINE, Keith J. Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2016, vol. 780, no., pp. 311-320., Registrované v: WOS
3. [1.1] BROSEL-OLIU, Sergi - GALYAMIN, Dmitry - ABRAMOVA, Natalia - MUNOZ-PASCUAL, Francesc-Xavier - BRATOV, Andrey. Impedimetric label-free sensor for specific bacteria endotoxin detection by surface charge registration. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 243, no., pp. 142-151., Registrované v: WOS
4. [1.1] CUI, Feiyun - ZHOU, Zhiru - ZHOU, H. Susan. Review-Measurement and Analysis of Cancer Biomarkers Based on Electrochemical Biosensors. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 167, no. 3, pp., Registrované v: WOS
5. [1.1] DAMBORSKY, Pavel - KOCZULA, Katarzyna M. - GALLOTTA, Andrea - KATRLIK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In ANALYST. ISSN 0003-2654, 2016, vol. 141, no. 23, pp. 6444-6448., Registrované v: WOS
6. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
7. [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
8. [1.1] GIRAUD, Manon - DELAPIERRE, Francois-Damien - WIJKHUISEN, Anne - BONVILLE, Pierre - THEVENIN, Mathieu - CANNIES, Gregory - PLAISANCE, Marc - PAUL, Elodie - EZAN, Eric - SIMON, Stephanie - FERMON, Claude - FERAUDET-TARISSE, Cecile - JASMIN-LEBRAS, Guenaelle. Evaluation of In-Flow Magnetoresistive Chip Cell-Counter as a Diagnostic Tool. In BIOSENSORS-BASEL, 2019, vol. 9, no. 3, pp., Registrované v: WOS
9. [1.1] HASHIM, Onn Haji - JAYAPALAN, Jaime Jacqueline - LEE, Cheng-Siang. Lectins: an effective tool for screening of potential cancer biomarkers. In PEERJ. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v:

WOS

10. [1.1] HAYES, Bryony - MURPHY, Caroline - CRAWLEY, Aoife - O'KENNEDY, Richard. Developments in Point-of-Care Diagnostic Technology for Cancer Detection. In *DIAGNOSTICS*. ISSN 2075-4418, 2018, vol. 8, no. 2, pp., Registrované v: WOS
11. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
12. [1.1] JOLLY, Pawan - DAMBORSKY, Pavel - MADABOOSI, Narayanan - SOARES, Ruben R. G. - CHU, Virginia - CONDE, Joao P. - KATRLIK, Jaroslav - ESTRELA, Pedro. DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2016, vol. 79, no., pp. 313-319., Registrované v: WOS
13. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS
14. [1.1] MISHRA, Abtar - BEHURA, Assirbad - MAWATWAL, Shradha - KUMAR, Ashish - NAIK, Lincoln - MOHANTY, Subhashree Subhasmita - MANNA, Debraj - DOKANIA, Puja - MISHRA, Amit - PATRA, Samir K. - DHIMAN, Rohan. Structure-function and application of plant lectins in disease biology and immunity. In *FOOD AND CHEMICAL TOXICOLOGY*. ISSN 0278-6915, 2019, vol. 134, no., pp., Registrované v: WOS
15. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
16. [1.1] RANGEL, Maria G. H. - SILVA, M. Luisa S. Detection of the cancer-associated T antigen using an Arachis hypogaea agglutinin biosensor. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 141, no., pp., Registrované v: WOS
17. [1.1] SAME, Saeideh - SAMEE, Golshan. Carbon Nanotube Biosensor for Diabetes Disease. In *CRESCENT JOURNAL OF MEDICAL AND BIOLOGICAL SCIENCES*. ISSN 2148-9696, 2018, vol. 5, no. 1, pp. 1-6., Registrované v: WOS
18. [1.1] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - BABUSHKINA, Tatyana A. - YAMSKOV, Igor A. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Silver- and gold-labeled colloidal and crosslinked glycopolymers based on glycyl glycosynthons and maleic anhydride copolymers for lectin binding. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 16, pp., Registrované v: WOS
19. [1.1] SILVA, M. Luisa S. Cancer serum biomarkers based on aberrant post-translational modifications of glycoproteins: Clinical value and discovery strategies. In *BIOCHIMICA ET BIOPHYSICA ACTA-REVIEWS ON CANCER*. ISSN 0304-419X, 2015, vol. 1856, no. 2, pp. 165-177., Registrované v: WOS

20. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
21. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A Vicia villosa agglutinin biosensor for cancer-associated Tn antigen. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS
22. [1.1] TOBOLA, Felix - SYLVANDER, Elise - GAFKO, Claudia - WILTSCHI, Birgit. 'Clickable lectins': bioorthogonal reactive handles facilitate the directed conjugation of lectins in a modular fashion. In *INTERFACE FOCUS*. ISSN 2042-8898, 2019, vol. 9, no. 2, pp., Registrované v: WOS
23. [1.1] TSANEVA, Mariya - VAN DAMME, Els J. M. 130 years of Plant Lectin Research. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 5, pp. 533-551. Dostupné na: <https://doi.org/10.1007/s10719-020-09942-y>., Registrované v: WOS
24. [1.1] VACCHINI, Mattia - EDWARDS, Rana - GUIZZARDI, Roberto - PALMIOLI, Alessandro - CIARAMELLI, Carlotta - PAIOTTA, Alice - AIROLDI, Cristina - LA FERLA, Barbara - CIPOLLA, Laura. Glycan Carriers As Glycotools for Medicinal Chemistry Applications. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2019, vol. 26, no. 35, pp. 6349-6398., Registrované v: WOS
25. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
26. [1.2] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - NOVIKOVA, Olga S. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Maleic anhydride copolymers as a base for neoglycoconjugate synthesis for lectin binding. In *Materials for Biomedical Engineering: Thermoset and Thermoplastic Polymers*, 2019-01-01, pp. 309-348., Registrované v: SCOPUS
27. [1.2] SAMOILOVA, N. A. - KRAYUKHINA, M. A. - LIKHOSHERSTOV, L. M. - YAMSKOV, I. A. - PISKAREV, V. E. Lectins: A new approach to their sensing and isolation. In *Advances in Chemistry Research*, 2017-10-01, 41, pp. 91-143., Registrované v: SCOPUS
28. [1.2] SUBRAMANI, Indragandi - AYUB, R. M. - GOPINATH, S. C.B. - ARSHAD, M. K.Md - RAJAPAKSHA, R. D.A.A. - IBAU, C. Determination of functional head and tail groups of self-assembled monolayer (SAM) formed by 2-mercaptoacetate on aluminium oxide substrate. In *International Journal of Nanoelectronics and Materials*. ISSN 19855761, 2018-12-01, 11, special Issue BOND21, pp. 115-122., Registrované v: SCOPUS

ADCB02 LUKAN, Norbert - RACZ, Oliver - PAULOVÍČOVÁ, Ema - MOCNEJOVÁ, Iveta - PETROVÍČOVÁ, Jozefína. Determination of immunological stress and oxygen free radical formation in white blood cells during allegren immunotherapy. In *Medical Science Monitor*, 2012, vol. 18, p. PR13-18. (2011: 0.462 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 1234-1010.

Ohlasy:

1. [1.1] BEDREAG, Ovidiu Horea - SANDESC, Dorel - CHIRIAC, Sorin Dan - ROGOBETE, Alexandru Florin - CRADIGATI, Alina Carmen -

SARANDAN, Mirela - DUMACHE, Raluca - NARTITA, Radu - PAPURICA, Marius. The Use of Circulating miRNAs as Biomarkers for Oxidative Stress in Critically Ill Polytrauma Patients. In *CLINICAL LABORATORY*. ISSN 1433-6510, 2016, vol. 62, no. 3, pp. 263-274., Registrované v: WOS

2. [1.1] PAPURICA, Marius - ROGOBETE, Alexandru F. - SANDESC, Dorel - CRADIGATI, Carmen A. - SARANDAN, Mirela - DUMACHE, Raluca - HORHAT, Florin G. - BRATU, Lavinia M. - NITU, Razvan - CRISAN, Dan C. - HORHAT, Delia I. - POPOVICI, Elena S. - TANASESCU, Sonia - DALIBORCA, Vlad - BORUGA, Ovidiu - BEDREAG, Ovidiu H. Using the Expression of Damage-Associated Molecular Pattern (DAMP) for the Evaluation and Monitoring of the Critically Ill Polytrauma Patient. In *CLINICAL LABORATORY*. ISSN 1433-6510, 2016, vol. 62, no. 10, pp. 1829-1840., Registrované v: WOS

ADCB03 MORAVSKÝ, Ladislav - KLAS, Matej - MACHOVÁ, Eva - PISKLOVÁ, Katarína - MATEJČÍK, Štefan. Influence of a plasma jet on the viability of *Candida albicans*. In *Open Chemistry*, 2015, vol. 13, p. 257-262. (2015 - Current Contents, WOS). ISSN 2391-5420. Dostupné na: <https://doi.org/10.1515/chem-2015-0028>

Ohlasy:

1. [1.1] HANDORF, O. - WEIHE, T. - BEKESCHUS, S. - GRAF, A. C. - SCHNABEL, U. - RIEDEL, K. - EHLBECK, J. Nonthermal Plasma Jet Treatment Negatively Affects the Viability and Structure of *Candida albicans* SC5314 Biofilms. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 21, pp., Registrované v: WOS

2. [1.2] DORIA, A. C.O.C. - FIGUEIRA, F. R. - LIMA, J. S.B. - MACIEL, H. S. - KHOURI, S. - PESSOA, R. S. Sterilization of *Candida albicans* biofilms grown on polymers by atmospheric plasma: From plasma devices to biofilm analysis. In *Biofilms Characterization, Applications and Recent Advances*, 2016-01-01, pp. 225-273., Registrované v: SCOPUS

3. [1.2] MANCE, D., GEILMANN, H., BRAND, W. A., KEWITZ, T., & KERSTEN, H. Changes of ²H and ¹⁸O abundances in water treated with non-thermal atmospheric pressure plasma jet. In *Plasma Processes and Polymers*, 2017, 14(10), Registrované v: SCOPUS

4. [1.2] NERETTI, Gabriele - RICCHIUTO, Anna C. - GALUPPI, Roberta - POGLAYEN, Giovanni - MORANDI, Benedetto - MAROTTA, Ester - PARADISI, Cristina - TAMPIERI, Francesco - BORGHI, Carlo A. Indirect inactivation of *Candida guilliermondii* by using a plasma synthetic jet actuator: Effect of advected charged particles. In *Plasma Medicine*. ISSN 19475764, 2018-01-01, 8, 3, pp. 255-268., Registrované v: SCOPUS

5. [1.2] PAWLAT, Joanna - KWIATKOWSKI, Michal - TEREKUN, Piotr - CHUDZIK, Barbara - GAGOS, Mariusz. *Candida albicans* inactivation with DBD He/O_{inf}²/inf plasma jet. In 2017 International Conference on Electromagnetic Devices and Processes in Environment Protection with Seminar Applications of Superconductors, ELMECO and AoS 2017, 2017-07-02, 2018-January, pp. 1-4., Registrované v: SCOPUS

ADCB04 TASKIN, Evrim - STRATILOVÁ, Eva. Polygalacturonases Produced Under Solid State and Submerged Fermentation Conditions by Two Strains of *Aspergillus foetidus*. In *Turkish Journal of Biochemistry*, 2008, vol. 33, no. 4, pp. 190-196.

Ohlasy:

1. [1.1] KUMAR, Sunil - JAIN, Narendra K. - SHARMA, Kailash C. - PASWAN, Ranjeet - MISHRA, Brijesh K. - SRINIVASAN, Ramakrishnan - MANDHANIA, Shiwani. Optimization, purification and characterization of pectinases from pectinolytic strain, *Aspergillus foetidus* MTCC 10559. In JOURNAL OF ENVIRONMENTAL BIOLOGY. ISSN 0254-8704, 2015, vol. 36, no. 2, pp. 483-489., Registrované v: WOS

ADD ADD

- ADD01 BUKOVSKY, M. - KARDOŠOVÁ, Alžbeta - KOSCOVA, H. - KOSTALOVA, D. Immunomodulating activity of 4-O-methyl-D-glucurono-D-xylan from *Rudbeckia fulgida*, var. *sullivantii*. In *Biologia*. - Cham : Springer International Publishing, 2018-, 1998, vol. 53, p. 771. (1997: 0.283 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS
2. [1.2] Ashter, S. A. (2017). In Technology and Applications of Polymers Derived from Biomass (Elsevier, pp. 1-272)., Registrované v: SCOPUS
3. [1.2] LOBERG, L. I. - ARCHER, K. A. Assessment of Innate Immunity. In Comprehensive Toxicology: Third Edition, 2017-12-15, 11-15, pp. 343-360., Registrované v: SCOPUS
4. [1.2] LOBERG, L. I. - ARCHER, K. A. Assessment of Innate Immunity. In Comprehensive Toxicology: Third Edition, 2018-01-01, 11-15, pp. 343-360., Registrované v: SCOPUS

- ADD02 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - MACHOVÁ, Eva - NARAN, R. - HRIBALOVA, V. Isolation and characterization of mitogenic pectic polysaccharides from *Cistanche deserticola* Y.C.Ma. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1997, vol. 51, no. 5, p. 289-294. (1997 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] BEN ATTIA, Imen - ZUCCA, Paolo - MARINCOLA, Flaminia Cesare - NIEDDU, Mariella - PIRAS, Alessandra - ROSA, Antonella - RESCIGNO, Antonio - CHAIEB, Mohamed. Evaluation of the Antioxidant and Cytotoxic Activities on Cancer Cell Line of Extracts of Parasitic Plants Harvested in Tunisia. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2020, vol. 70, no. 3, pp. 253-263. Dostupné na: <https://doi.org/10.31883/pjfn/122040>., Registrované v: WOS
2. [1.1] BOUGANDOURA, Amina - D'ABROSCA, Brigida - AMEDDAH, Souad - SCOGNAMIGLIO, Monica - MEKKIOU, Ratiba - FIORENTINO, Antonio - BENAYACHE, Samir - BENAYACHE, Fadila. Chemical constituents and in vitro anti-inflammatory activity of *Cistanche violacea* Desf. (Orobanchaceae) extract. In FITOTERAPIA. ISSN 0367-326X, 2016, vol. 109, no., pp. 248-253., Registrované v: WOS
3. [1.1] FU, Zhifei - FAN, Xiang - WANG, Xiaoying - GAO, Xiumei.

Cistanches Herba: An overview of its chemistry, pharmacology, and pharmacokinetics property. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 219, no., pp. 233-247., Registrované v: WOS

4. [1.1] LEI, Huibo - WANG, Xinyu - ZHANG, Yuhao - CHENG, Taofang - MI, Rui - XU, Xike - ZU, Xianpeng - ZHANG, Weidong. Herba Cistanche (Rou Cong Rong): A Review of Its Phytochemistry and Pharmacology. In CHEMICAL & PHARMACEUTICAL BULLETIN. ISSN 0009-2363, 2020, vol. 68, no. 8, pp. 694-712. Dostupné na: <https://doi.org/10.1248/cpb.c20-00057.>, Registrované v: WOS

5. [1.1] LV, Hai-Ning - ZENG, Ke-Wu - SONG, Yue-Lin - JIANG, Yong - TU, Peng-Fei. Phytochemical and Pharmacological Overview of Cistanche Species. In RECENT ADVANCES IN POLYPHENOL RESEARCH, VOL 5, 2016, vol. 5, no., pp. 313-341., Registrované v: WOS

ADD03 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš - PETRUŠOVÁ, Mária - MATULOVÁ, Mária - PETRUŠ, Ladislav. Molybdc acid-catalyzed Mutual Interconversions of 2-C-(Hydroxymethyl)-D-glucose with D-manno-hept-2-ulose and 2-C-(Hydroxymethyl)-D-mannose with D-gluco-hept-2-ulose. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1998, vol. 52, p. 238-243. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] CHEN, Yan - WANG, Xiaoman - WANG, Junchang - YANG, You. Synthesis of D-manno-heptulose via a cascade aldol/hemiketalization reaction. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2017, vol. 13, no., pp. 795-799., Registrované v: WOS
2. [1.1] Chethana, BK (Chethana, B. K.); Mushrif, SH (Mushrif, Samir H.): Bronsted and Lewis acid sites of Sn-beta zeolite, in combination with the borate salt, catalyze the epimerization of glucose: A density functional theory study. In: JOURNAL OF CATALYSIS Volume: 323 Pages: 158-164, Registrované v: WOS
3. [1.2] Niova, Z. H. (2015). Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In Ramawat, K. G., Mérillon, J. M. (Eds.) Polysaccharides: Bioactivity and Biotechnology (Springer, pp. 1319-1371)., Registrované v: SCOPUS

ADD04 HRICOVÍNIOVÁ, Zuzana - BABOR, K.. Saccharide constituents of horse chestnut (*Aesculus hippocastanum*) seeds II. Isolation and characterization of the starch. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1992, vol. 46, p. 196-198. ISSN 0366-6352.

Ohlasy:

1. [1.1] THOMAS, Peter A. - ALHAMD, Omar - ISZKULO, Grzegorz - DERING, Monika - MUKASSABI, Tarek A. Biological Flora of the British Isles: *Aesculus hippocastanum*. In JOURNAL OF ECOLOGY. ISSN 0022-0477, 2019, vol. 107, no. 2, pp. 992-1030., Registrované v: WOS

ADD05 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNÍ, Miloš - PETRUŠ, Ladislav. Stereospecific Molybdc Acid-Catalyzed Isomerization of D-Fructose to Branched-Chain Aldose. The Synthesis of D-Hamamelose. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1998, vol. 52, p. 692-698. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] BAYU, Asep - ABUDULA, Abuliti - GUAN, Guoqing. Reaction pathways and selectivity in chemo-catalytic conversion of biomass-derived carbohydrates to high-value chemicals: A review. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2019, vol. 196, no., pp., Registrované v: WOS
2. [1.1] KIM, Suk Min - LIM, Hyun Seung - LEE, Sun Bok. Discovery of a RuBisCO-like Protein that Functions as an Oxygenase in the Novel d-Hamamelose Pathway. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 5, pp. 490-499., Registrované v: WOS
3. [1.1] MILIORDOS, Evangelos - CARATZOULAS, Stavros - VLACHOS, Dionisios G. A periodic-DFT study of retro-aldol fragmentation of fuctose on MoO₃. In APPLIED CATALYSIS A-GENERAL. ISSN 0926-860X, 2017, vol. 530, no., pp. 75-82., Registrované v: WOS

ADD06 KARDOŠOVÁ, Alžbeta - DANIS, J. - ALFÖLDI, J. Extracellular phosphogalactomannan of *Candida mucifera* CCY 29-170-1 strain. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1994, vol. 48, p. 189. ISSN 0366-6352.

Ohlasy:

1. [1.1] GERBST, Alexey G. - NIKOLAEV, Andrei V. - YASHUNSKY, Dmitry V. - SHASHKOV, Alexander S. - DMITRENOK, Andrey S. - NIFANTIEV, Nikolay E. Theoretical and NMR-based Conformational Analysis of Phosphodiester-linked Disaccharides. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADD07 KARDOŠOVÁ, Alžbeta. Polysaccharides from the leaves of *Plantago lanceolata* L., var. *Libor*: an alpha-D-glucan. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1992, vol. 46, p. 127-130. ISSN 0366-6352.

Ohlasy:

1. [1.1] Jiang, S.; Bryant, R. H.; Jiao, J.; Tung, R. BRIEF COMMUNICATION: Investigation of the water-soluble carbohydrates content of Plantain (*Plantago Lanceolata* L.). In: Proceedings of the New Zealand Society of Animal Production Volume: 79 Pages: 174-176, Registrované v: WOS
2. [1.1] LUKOVA, Paolina - KARCHEVA-BAHCHEVANSKA, Diana - MOLLOVA, Daniela - NIKOLOVA, Mariana - MLADENOV, Rumen - ILIEV, Ilia. Study of prebiotic potential and antioxidant activity in *Plantago* spp. leaves after enzymatic hydrolysis with hemicellulase and xylanase. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2018, vol. 18, no. 11, pp. 831-839., Registrované v: WOS
3. [1.1] LUKOVA, P. K. - KARCHEVA-BAHCHEVANSKA, D. P. - NIKOLOVA, M. M. - ILIEV, Ilia N. - MLADENOV, R. D. Comparison of structure and antioxidant activity of polysaccharides extracted from the leaves of *Plantago major* L., *P. media* L. and *P. lanceolata* L. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2017, vol. 49, no., pp. 282-288., Registrované v: WOS
4. [1.1] YIN, Jun-Yi - HUANG, Xin-Yue - WANG, Li - GUO, Jian-Qi - XIE, Ming-Yong - WU, Jian-Yong - NIE, Shao-Ping. Molecular properties and

immunomodulatory activities of a water-soluble heteropolysaccharide isolated from *Plantago asiatica* L. leaves. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2019, vol. 33, no. 11, pp. 1678-1681., Registrované v: WOS

- ADD08 KARDOŠOVÁ, Alžbeta - BABOR, K. - ROSIK, J. - KUBALA, J.
Polysaccharides of wood-destroying fungi *Polyporus squamosus* (Huds.) Fr. and *Phellinus igniarius* (L.) Quel. In *Chemické zvesti*, 1969, vol. 23, p. 462.
Ohlasy:
1. [1.1] SZYMANSKI, Marcin - SMOLIBOWSKA, Joanna - SZYMANSKI, Arkadiusz. AN INVESTIGATION INTO THE RELATIONSHIPS BETWEEN ANTIOXIDANT ACTIVITY AND CHEMICAL ELEMENTS AS WELL AS POLYPHENOLICS IN FUNGAL FRUITING BODIES GROWING ON *BETULA* L. In *JOURNAL OF ELEMENTOLOGY*. ISSN 1644-2296, 2019, vol. 24, no. 1, pp. 193-205., Registrované v: WOS
- ADD09 KARDOŠOVÁ, Alžbeta - BABOR, K. - ROSIK, J. - KUBALA, J..
Polysaccharides of wood destroying fungus *Fomes fomentarius* (L.) Fr. extracted with water. In *Chemické zvesti*, 1969, vol. 23, p. 454.
Ohlasy:
1. [1.1] MUKHIN, Victor A. - ZHUYKOVA, Elena - BADALYAN, Susanna M. Genetic Variability of the Medicinal Tinder Bracket Polypore, *Fomes fomentarius* (Agaricomycetes), from the Asian Part of Russia. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 6, pp. 561-568., Registrované v: WOS
2. [1.1] ZHANG, Jixian - WEN, Chaoting - ZHANG, Haihui - DUAN, Yuqing. Review of isolation, structural properties, chain conformation, and bioactivities of psyllium polysaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2019, vol. 139, no., pp. 409-420., Registrované v: WOS
- ADD10 KARDOŠOVÁ, Alžbeta - KOSTALOVA, D. - CAPEK, Peter - PÄTOPRSTÝ, Vladimír - FRANOVA, S.. Water-extractable polysaccharide complex of *Rudbeckia fulgida*, var. *sullivantii* (Boynton et Beadle) possesses antitussive activity. In *Chemical Papers*. - Heidelberg : Springer-Verlag, 2017-, 1997, vol. 51, no. 1, p. 52-59. (1997 - Current Contents). ISSN 0366-6352.
Ohlasy:
1. [1.1] ZHONG, Shan - LIU, Xiao-dong - NIE, Yi-chu - GAN, Zhen-yong - YANG, Li-qi - HUANG, Chu-qin - LAI, Ke-fang - ZHONG, Nan-shan. Antitussive activity of the *Schisandra chinensis* fruit polysaccharide (SCFP-1) in guinea pigs models. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2016, vol. 194, no., pp. 378-385., Registrované v: WOS
- ADD11 KOŠÍKOVÁ, Božena - JONIAK, Dušan - TOMAS, M. - KOSIK, M. A study of some chemical reactions during hydrothermic processing of wood. III. Reactions at hydrothermic processing of wood. In *Drevarsky vyskum*, 1976, vol. 21, p. 157.
Ohlasy:
1. [1.1] VYBOHOVA, Eva - GEFFERTOVA, Jarmila - GEFFERT, Anton. Impact of Steaming on the Chemical Composition of Maple Wood. In

BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 5862-5874.,
Registrované v: WOS

- ADD12 KOŠÍKOVÁ, Božena - KAČURÁKOVÁ, Marta - DEMIANOVA, V.
Photooxidation of the composite lignin polypropylene films. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1993, vol. 47, no. 2, p. 132. ISSN 0366-6352.
Ohlasy:
1. [1.1] CROUVISIER-URION, Kevin - BODART, Philippe R. - WINCLDER, Pascale - RAYA, Jesus - GOUGEON, Regis D. - CAYOT, Philippe - DOMENEK, Sandra - DEBEAUFORT, Frederic - KARBOWIAK, Thomas. Biobased Composite Films from Chitosan and Lignin: Antioxidant Activity Related to Structure and Moisture. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2016, vol. 4, no. 12, pp. 6371-6381., Registrované v: WOS
2. [1.1] FARUK, Omar - OBAID, Numaira - TJONG, Jimi - SAIN, Mohini. Lignin Reinforcement in Thermoplastic Composites. In LIGNIN IN POLYMER COMPOSITES, 2016, vol., no., pp. 95-118., Registrované v: WOS
3. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
4. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
5. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
- ADD13 MARKOVIC, O. - JAROSOVA, A. - MACHOVÁ, Eva - SLEZARIK, A.
Effect of oligomeric and polymeric D-galacturonans on the activity of pectinesterases from tomato, *Aspergillus foetidus* and *Trichoderma reesei*. In *Biologia*. - Cham : Springer International Publishing, 2018-, 1996, vol. 51, no. 3, p. 293. (1995: 0.079 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0006-3088.
Ohlasy:
1. [1.1] KENT, Lisa M. - LOO, Trevor S. - MELTON, Laurence D. - MERCADANTE, Davide - WILLIAMS, Martin A. K. - JAMESON, Geoffrey B. Structure and Properties of a Non-processive, Salt-requiring, and Acidophilic Pectin Methylsterase from *Aspergillus niger* Provide Insights into the Key Determinants of Processivity Control. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 3, pp. 1289-1306., Registrované v: WOS
- ADD14 SASINKOVÁ, Vlasta - KOŮŠ, Miroslav. An alternative synthesis of Nojirimycin and Indoirimycin. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1997, vol. 51, p. 147. (1997 - Current Contents). ISSN 0366-6352.
Ohlasy:
1. [1.1] Shi, RH (Shi, Ronghua); Ai, WS (Ai, Wensi); He, T (He, Tao); Ma, XB (Ma, Xiaobo); Qian, S (Qian, Shan); Wang, ZY (Wang, Zhouyu): An

Efficient Way to Synthesize N-(beta-nitroalkyl) Amides Through Ritter Reaction.
In: LETTERS IN ORGANIC CHEMISTRY Volume: 12 Issue: 10 Pages:
720-726, Registrované v: WOS

- ADD15 STRATILOVÁ, Eva - MARKOVIČ, Oskar - DZÚROVÁ, Mária - MALOVÍKOVÁ, Anna - CAPEK, Peter - OMELKOVA, J.. The pectolytic enzymes of carrots. In *Biologia*, 1998, vol. 53, no. 6, p. 731-738. (1997: 0.283 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] IQBAL, Amjad - MILLER, Janice G. - MURRAY, Lorna - SADLER, Ian H. - FRY, Stephen C. The pectic disaccharides lepidimoic acid and beta-d-xylopyranosyl-(1>3)-d-galacturonic acid occur in cress-seed exudate but lack allelochemical activity. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2016, vol. 117, no. 4, pp. 607-623., Registrované v: WOS
2. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - BURGARA-ESTRELLA, Alexel - OROZCO-AVITIA, Jesus-Antonio - OJEDA-CONTRERAS, Angel-Javier - TRILLO-HERNANDEZ, Eduardo-Antonio - RIVERA-DOMINGUEZ, Marisela - TRONCOSO-ROJAS, Rosalba - BAEZ-SANUDO, Reginaldo - DATSENKA, Tatsiana - HANDA, Avtar K. - TIZNADO-HERNANDEZ, Martin-Ernesto. Functional analysis of tomato rhamnogalacturonan lyase gene Solyc11g011300 during fruit development and ripening. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 231, no., pp. 31-40., Registrované v: WOS
3. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - FERNANDEZ-VALLE, Rigel - MARTIN-ERNESTO - TIZNADO-HERNANDEZ. Rhamnogalacturonan lyase: A pectin modification enzyme of higher plants. In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2018, vol. 30, no. 11, pp. 910-917., Registrované v: WOS

- ADD16 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation of carbohydrate model compounds. 5. Anomeric, exo-anomeric, and reverse anomeric effects in C-, N-, and S-glycosyl compounds. In *Journal of physical chemistry*. - Washington : American Chemical Society, -1995, 1996, vol. 100, p. 11305-11313. (1995: 3.395 - IF). ISSN 0022-3654.

Ohlasy:

1. [1.1] ALABUGIN, Igor V. - GOMES, Gabriel dos Passos - ABDO, Miguel A. Hyperconjugation. In *WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE*. ISSN 1759-0876, 2019, vol. 9, no. 2, pp., Registrované v: WOS
2. [1.1] KARIMI, Fatemeh - YARIE, Meysam - ZOLFIGOL, Mohammad Ali. Fe₃O₄@SiO₂-(CH₂)₃-urea-thiourea: A novel hydrogen-bonding and reusable catalyst for the construction of bipyridine-5-carbonitriles via a cooperative vinylogous anomeric based oxidation. In *MOLECULAR CATALYSIS*. ISSN 2468-8231, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.mcat.2020.111201>., Registrované v: WOS
3. [1.1] KARIMI, Fatemeh - YARIE, Meysam - ZOLFIGOL, Mohammad Ali. A convenient method for synthesis of terpyridines via a cooperative vinylogous anomeric based oxidation. In *RSC ADVANCES*, 2020,

vol. 10, no. 43, pp. 25828-25835. Dostupné na:

<https://doi.org/10.1039/d0ra04461j>, Registrované v: WOS

4. [1.1] LANGENHAN, Joseph M. - MCLAUGHLIN, Ryan P. - LOSKOT, Steven A. - ROZAL, Leonardo M. - CLAY, Mackenzie S. - ALAIMO, Peter J. Using density functional theory to calculate the anomeric effect in hydroxylamine and hydrazide derivatives of tetrahydropyran. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2016, vol. 35, no. 2, pp. 106-117., Registrované v: WOS

5. [1.1] MARTINS, Francisco A. - SILLA, Josue M. - FREITAS, Matheus P. Theoretical study on the anomeric effect in alpha-substituted tetrahydropyrans and piperidines. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 451, no., pp. 29-35., Registrované v: WOS

6. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

7. [1.1] XIONG, Xiuming - CHEN, Zhaoqiang - COSSINS, Benjamin P. - XU, Zhijian - SHAO, Qiang - DING, Kai - ZHU, Weiliang - SHI, Jiye. Force fields and scoring functions for carbohydrate simulation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 401, no., pp. 73-81., Registrované v: WOS

ADD17 TVAROŠKA, Igor - KOZAR, T. Theoretical studies on the conformation of saccharides. XI. Stereochemistry of methyl alpha- and methyl α-D-glucopyranosides in solution. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1987, vol. 41, p. 501-510. ISSN 0366-6352.

Ohlasy:

1. [1.1] Christensen, AS (Christensen, Anders S.); Kubar, T (Kubar, Tomas); Cui, Q (Cui, Qiang); Elstner, M (Elstner, Marcus): Semiempirical Quantum Mechanical Methods for Noncovalent Interactions for Chemical and Biochemical Applications. In: CHEMICAL REVIEWS Volume: 116 Issue: 9 Special Issue: SI Pages: 5301-5337, Registrované v: WOS

ADDA Scientific papers in domestic journals registered in Current Contents Connect with IF (impacted)

ADDA01 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. PPK1 and PPK2 - which polyposphate kinase is older? In *Biologia : journal of the Slovak Academy of Sciences*, 2014, vol. 69, p. 263-269. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-013-0324-x>

Ohlasy:

1. [1.1] KRAUSER, Steffen - HOFFMANN, Thomas - HEINZLE, Elmar. Directed Multistep Biocatalysis for the Synthesis of the Polyketide Oxytetracycline in Permeabilized Cells of Escherichia coli. In ACS CATALYSIS. ISSN 2155-5435, 2015, vol. 5, no. 3, pp. 1407-1413., Registrované v: WOS

2. [1.1] MCGLYNN, Shawn E. - CHADWICK, Grayson L. - O'NEILL, Ariel - MACKEY, Mason - THOR, Andrea - DEERINCK, Thomas J. - ELLISMAN, Mark H. - ORPHAN, Victoria J. Subgroup Characteristics of Marine Methane-Oxidizing ANME-2 Archaea and Their Syntrophic Partners as Revealed by Integrated Multimodal Analytical Microscopy. In APPLIED AND

ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v: WOS

3. [1.1] THAKUR, Poulami Basu - LONG, Abigail R. - NELSON, Benjamin J. - KUMAR, Ranjit - ROSENBERG, Alexander F. - GRAY, Michael J. Complex Responses to Hydrogen Peroxide and Hypochlorous Acid by the Probiotic Bacterium *Lactobacillus reuteri*. In MSYSTEMS. ISSN 2379-5077, 2019, vol. 4, no. 5, pp., Registrované v: WOS

4. [1.1] WANG, Liang - LIU, Qinghua - WU, Xiang - HUANG, Yue - WISE, Michael J. - LIU, Zhanzhong - WANG, Wei - HU, Junfeng - WANG, Chunying. Bioinformatics Analysis of Metabolism Pathways of Archaeal Energy Reserves. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS

5. [1.1] WANG, Liang - YANG, Jianye - HUANG, Yue - LIU, Qinghua - XU, Yaping - PIAO, Xue - WISE, Michael J. Systematic Analysis of Metabolic Pathway Distributions of Bacterial Energy Reserves. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, 2019, vol. 9, no. 8, pp. 2489-2496., Registrované v: WOS

6. [1.1] WANG, Liang - YAN, Jiawei - WISE, Michael J. - LIU, Qinghua - ASENSO, James - HUANG, Yue - DAI, Shiyun - LIU, Zhanzhong - DU, Yan - TANG, Daoquan. Distribution Patterns of Polyphosphate Metabolism Pathway and Its Relationships With Bacterial Durability and Virulence. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

7. [1.2] YUAN, Linjiang - ZHOU, Guobiao - NAN, Yaping. Review on microbial polyphosphate accumulation and its enzymological regulation. In Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae. ISSN 02532468, 2015-07-06, 35, 7, pp. 1955-1962., Registrované v: SCOPUS

ADDA02 BABOR, Karol - HALÁSOVÁ, Gabriela - DODOK, L. - GÉCIOVÁ, Renáta - LOKAJ, Ján. Characterization of starch from *Amaranthus cruentus*. In *Chemical Papers*, 1994, vol. 48, p. 58-63.

Ohlasy:

1. [1.1] ZHU, Fan. Structures, physicochemical properties, and applications of amaranth starch. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 2, pp. 313-325., Registrované v: WOS

ADDA03 BABOR, Karol - KALÁČ, Vladimír - TIHLÁRIK, Karol. Structure of amylopectin. I. Preparation and structure of α -amylase macrodextrin. In *Chemické zvesti*, 1968, vol. 22, p. 321-326. ISSN 0366-6352.

Ohlasy:

1. [1.1] BERTOFT, Eric. STRUCTURE OF AMYLOPECTIN: THE BUILDING BLOCK BACKBONE MODEL. In PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2015, vol., no., pp. 10-13., Registrované v: WOS

2. [1.1] HAMAKER, Bruce R. - TUNCIL, Yunus E. - SHEN, Xinyu. Carbohydrates of the Kernel. In CORN: CHEMISTRY AND TECHNOLOGY, 3RD EDITION, 2019, vol., no., pp. 305-318., Registrované v: WOS

ADDA04 BABOR, Karol - KALÁČ, Vladimír. The kinetics of retrogradation of amylose. In *Chemické zvesti*, 1969, vol. 23, p. 134-138. ISSN 0366-6352.

Ohlasy:

1. [1.1] VAMADEVAN, Varatharajan - BERTOFT, Eric. Structure-function relationships of starch components. In *STARCH-STARKE*. ISSN 0038-9056, 2015, vol. 67, no. 1-2, pp. 55-68., Registrované v: WOS

ADDA05 BABOR, K. - KALÁČ, Vladimír - TIHLÁRIK, Karol. Periodate oxidation of saccharides. III. Comparison of the methods of determining the consumption of sodium periodate and the amount of formic acid formed. In *Chemické zvesti*, 1973, vol. 27, p. 676-680. ISSN 0366-6352.

Ohlasy:

1. [1.1] DOGHRI, Ibtissem - BRIAN-JAISSON, Florence - GRABER, Marianne - BAZIRE, Alexis - DUFOUR, Alain - BELLON-FONTAINE, Marie-Noelle - HERRY, Jean-Marie - FERRO, Ana Caroline - SOPENA, Valerie - LANNELUC, Isabelle - SABLE, Sophie. Antibiofilm activity in the culture supernatant of a marine *Pseudomonas* sp. bacterium. In *MICROBIOLOGY-SGM*. ISSN 1350-0872, 2020, vol. 166, no. 3, pp. 239-252. Dostupné na: <https://doi.org/10.1099/mic.0.000878>., Registrované v: WOS
2. [1.1] DOGHRI, Ibtissem - LAVAUD, Johann - DUFOUR, Alain - BAZIRE, Alexis - LANNELUC, Isabelle - SABLE, Sophie. Cell-bound exopolysaccharides from an axenic culture of the intertidal mudflat *Navicula phyllepta* diatom affect biofilm formation by benthic bacteria. In *JOURNAL OF APPLIED PHYCOLOGY*. ISSN 0921-8971, 2017, vol. 29, no. 1, pp. 165-177., Registrované v: WOS
3. [1.1] DOGHRI, Ibtissem - PORTIER, Emilie - DESRIAC, Florie - ZHAO, Jean Michel - BAZIRE, Alexis - DUFOUR, Alain - ROCHETTE, Vincent - SABLE, Sophie - LANNELUC, Isabelle. Anti-Biofilm Activity of a Low Weight Proteinaceous Molecule from the Marine Bacterium *Pseudoalteromonas* sp. IIA004 against Marine Bacteria and Human Pathogen Biofilms. In *MICROORGANISMS*, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8091295>., Registrované v: WOS
4. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Synthesis and characterization of functionalized 4-O-methylglucuronoxylan derivatives. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2015, vol. 69, no. 6, pp. 713-720., Registrované v: WOS
5. [1.1] CHEMIN, Maud - RAKOTOVELO, Alex - HAM-PICHAVANT, Frederique - CHOLLET, Guillaume - PEREZ, Denilson Da Silva - PETIT-CONIL, Michel - CRAMAIL, Henri - GRELIER, Stephane. Periodate oxidation of 4-O-methylglucuronoxylans: Influence of the reaction conditions. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 142, no., pp. 45-50., Registrované v: WOS

ADDA06 BARÁTH, Marek - LIN, Chun-Hung - TVAROŠKA, Igor - HIRSCH, Ján. Development of transition state analogue inhibitors for N-acetylglucosyltransferases bearing D-psico- and D-tagatofuranose scaffold. In *Chemical Papers*, 2015, vol. 69, p. 348-357. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents -

CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na:
<https://doi.org/10.1515/chempap-2015-0063>

Ohlasy:

1. [1.1] MAKURA, Yui - UEDA, Atsushi - MATSUZAKI, Takashi - MINAMINO, Tetsuo - TANAKA, Masakazu. alpha-Selective glycosidation of D-tagatofuranose with a 3,4-O-isopropylidene protection. In *TETRAHEDRON*. ISSN 0040-4020, 2019, vol. 75, no. 27, pp. 3758-3766., Registrované v: WOS
2. [1.1] UEDA, Atsushi - NISHIMURA, Yuri - MAKURA, Yui - TANAKA, Masakazu - UENISHI, Jun'ichi. beta-SELECTIVE D-PSICOFURANOSYLATION OF PYRIMIDINE BASES AND THIOLS. In *HETEROCYCLES*. ISSN 0385-5414, 2018, vol. 97, no. 2, pp. 729-743., Registrované v: WOS

ADDA07 BARTEK, Peter - KOLAROVA, Nadežda - CAPEK, Peter. Isolation and characterization of glycoproteins from the yeast *Cryptococcus laurentii* var. *laurentii*. II. Extracellular glycoproteins. In *Chemical Papers - Chemické zvesti*, 2001, vol. 55, p. 261-268. ISSN 0366-6352.

Ohlasy:

1. [1.1] GIENKA, Iwona - BLAZEJAK, Stanislaw - STASIAK-ROZANSKA, Lidia - CHLEBOWSKA-SMIGIEL, Anna. EXOPOLYSACCHARIDES FROM YEAST: INSIGHT INTO OPTIMAL CONDITIONS FOR BIOSYNTHESIS, CHEMICAL COMPOSITION AND FUNCTIONAL PROPERTIES REVIEW. In *ACTA SCIENTIARUM POLONORUM-TECHNOLOGIA ALIMENTARIA*. ISSN 1644-0730, 2015, vol. 14, no. 4, pp. 283-292., Registrované v: WOS
2. [1.1] PINTO, Mariana - COELHO, Elisabete - NUNES, Alexandra - BRANDAO, Tiago - COIMBRA, Manuel A. Valuation of brewers spent yeast polysaccharides: A structural characterization approach. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2015, vol. 116, no., pp. 215-222., Registrované v: WOS

ADDA08 BARTOŠ, L. - PRCHAL, V. - RAJCOVÁ, J. - EBRINGEROVÁ, Anna - GREGOROVÁ, Adriana. Rheological properties of hemicellulose. In *Textil a chemia*, 1990, vol. 20, p. 37-48. ISSN 1335-0617.

Ohlasy:

1. [1.2] BARBOSA, Bianca Moreira - LINO, Alessandro Guarino - DE FARIA, Bruno De Freitas Homem - DE AGUIAR, Alex Ramos - GOMES, Fernando José Borges - DA SILVA, Juliana Cristina - COLODETTE, Jorge Luiz. Addition of corn fiber xylan to eucalyptus and pinus pulp and its effect on pulp bleachability and strength. In *Nordic Pulp and Paper Research Journal*. ISSN 02832631, 2018-09-25, 33, 3, pp. 414-419., Registrované v: SCOPUS

ADDA09 BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In *Chemical Papers*, 2015, vol. 69, p.90-111. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0052>

Ohlasy:

1. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In *BIOSENSORS & BIOELECTRONICS*. ISSN

- 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
2. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
 3. [1.1] SAME, Saeideh - SAMEE, Golshan. Carbon Nanotube Biosensor for Diabetes Disease. In CRESCENT JOURNAL OF MEDICAL AND BIOLOGICAL SCIENCES. ISSN 2148-9696, 2018, vol. 5, no. 1, pp. 1-6., Registrované v: WOS
 4. [1.1] SHARMA, Shikha - ZAPATERO-RODRIGUEZ, Julia - O'KENNEDY, Richard. Prostate cancer diagnostics: Clinical challenges and the ongoing need for disruptive and effective diagnostic tools. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 2, pp. 135-149., Registrované v: WOS
 5. [1.1] TREFULKA, Mojmir - CERNOCKA, Hana - FOJT, Lukas - PALECEK, Emil - OSTATNA, Veronika. Distinguishing the glycan isomers 2,3-sialyllactose and 2,6-sialyllactose by voltammetry after modification with osmium(VI) complexes. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2019, vol. 1067, no., pp. 56-62., Registrované v: WOS
 6. [1.1] TREFULKA, Mojmir - PALECEK, Emil. Distinguishing glycan isomers by voltammetry. Modification of 2,3-sialyllactose and 2,6-sialyllactose by osmium(VI) complexes. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2017, vol. 85, no., pp. 19-22., Registrované v: WOS
 7. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS
 8. [1.2] KAWAHARA, Rebeca - ORTEGA, Fabio - ROSA-FERNANDES, Livia - GUIMARÃES, Vanessa - QUINA, Daniel - NAHAS, Willian - SCHWÄMMLE, Veit - SROUGI, Miguel - LEITE, Katia R.M. - THAYSEN-ANDERSEN, Morten - LARSEN, Martin R. - PALMISANO, Giuseppe. Distinct urinary glycoprotein signatures in prostate cancer patients. In Oncotarget, 2018-09-01, 9, 69, pp. 33077-33097., Registrované v: SCOPUS
 9. [2.1] RAGAB, Marwa A. A. - KORANY, Mohamed A. - GALAL, Shereen M. - AHMED, Aya R. Voltammetric study of valsartan-Ni complex: application to valsartan analysis in pharmaceuticals and in vivo human urine profiling. In CHEMICAL PAPERS. ISSN 2585-7290, 2019, vol. 73, no. 5, pp. 1209-1219., Registrované v: WOS

ADDA10 BERTÓKOVÁ, Anikó - BERTÓK, Tomáš - FILIP, Jaroslav - TKÁČ, Ján. Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. In *Chemical Papers*, 2015, vol. 69, p. 27-41. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0040>

Ohlasy:

1. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and Gluconobacter oxydans DSM

- 2343 Cells. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
2. [1.1] GIMKIEWICZ, Carla - HUNGER, Steffi - HARNISCH, Falk. Evaluating the Feasibility of Microbial Electrosynthesis Based on *Gluconobacter oxydans*. In CHEMELECTROCHEM. ISSN 2196-0216, 2016, vol. 3, no. 9, pp. 1337-1346., Registrované v: WOS
3. [1.1] KOSCIOW, Konrad - DOMIN, Claudia - SCHWEIGER, Paul - DEPPENMEIER, Uwe. Extracellular targeting of an active endoxylanase by a TolB negative mutant of *Gluconobacter oxydans*. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2016, vol. 43, no. 7, pp. 989-999., Registrované v: WOS
4. [1.1] LIU, Li - ZENG, Weizhu - DU, Guocheng - CHEN, Jian - ZHOU, Jingwen. Identification of NAD-Dependent Xylitol Dehydrogenase from *Gluconobacter oxydans* WSH-003. In ACS OMEGA. ISSN 2470-1343, 2019, vol. 4, no. 12, pp. 15074-15080., Registrované v: WOS
5. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In MEMBRANES. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS
6. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - RESHETILOV, Anatoly. Electrochemical assessment of the interaction of microbial living cells and carbon nanomaterials. In IET NANOBIOENGINEERING. ISSN 1751-8741, 2019, vol. 13, no. 3, pp. 332-338., Registrované v: WOS
7. [1.1] PLEKHANOVA, Yu. V. - TARASOV, S. E. - BYKOV, A. G. - PRISYAZHNAYA, N. V. - TENCHURIN, T. Kh. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - RESHETILOV, A. N. Carbon Fiber Anode of Biofuel Cell with Immobilized Bacteria and Membrane Fractions. In NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780, 2018, vol. 13, no. 9-10, pp. 531-538., Registrované v: WOS
8. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms *Gluconobacter*. In NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780, 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS
9. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by *Gluconobacter oxydans* Bacterial Cells. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
10. [1.1] ZENGA, Weizhu - CAIA, Wen - LIUA, Li - DUA, Guocheng - CHENA, Jian - ZHOUA, Jingwen. Efficient biosynthesis of 2-keto-D-gluconic acid by fed-batch culture of metabolically engineered *Gluconobacter japonicus*. In SYNTHETIC AND SYSTEMS BIOTECHNOLOGY, 2019, vol. 4, no. 3, pp. 134-141., Registrované v: WOS

ADDA11 BIELY, Peter - KRÁTKY, Zdeno - VRŠANSKÁ, Mária - URMANIČOVÁ, D.. Induction and inducers of endo-1,4-beta-xylanase in the yeast *Cryptococcus albidus*. In *European Journal of Biochemistry*, 1980, vol.108, p. 323-329. ISSN 0014-2956.

Ohlasy:

1. [1.1] HOSHIDA, Hisashi - KIDERA, Kenta - TAKISHITA, Ryuta - FUJIOKA, Nobuhisa - FUKAGAWA, Taiki - AKADA, Rinji. Enhanced production of extracellular inulinase by the yeast *Kluyveromyces marxianus* in xylose catabolic state. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 125, no. 6, pp. 676-681., Registrované v: WOS
2. [1.1] Prakash, A (Prakash, Ananth); Bateman, A (Bateman, Alex): Domain atrophy creates rare cases of functional partial protein domains. In: *GENOME BIOLOGY* Volume: 16 Article Number: 88, Registrované v: WOS
3. [1.1] SUN, Haiyan - PENG, Ming. Improvement of glucoamylase production for raw-starch digestion in *Aspergillus niger* F-01 by maltose stearic acid ester. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2017, vol. 39, no. 4, pp. 561-566., Registrované v: WOS

ADDA12 BIELY, Peter - SLÁVIKOVÁ, Elena. New search for pectolytic yeasts. In *Folia microbiologica*, 1994, vol. 39, p. 485-488. (1993: 0.268 - IF, Current Contents - CCC). (1994 - Current Contents). ISSN 0015-5632.

Ohlasy:

1. [1.1] POONDLA, Vijayakumar - BANDIKARI, Ramesh - SUBRAMANYAM, Rajagopal - OBULAM, Vijaya Sarathi Reddy. Low temperature active pectinases production by *Saccharomyces cerevisiae* isolate and their characterization. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2015, vol. 4, no. 1, pp. 70-76., Registrované v: WOS
2. [1.2] PROTZKO, Ryan J. - LATIMER, Luke N. - MARTINHO, Ze - DE REUS, Elise - SEIBERT, Tanja - BENZ, J. Philipp - DUEBER, John E. Engineering *Saccharomyces cerevisiae* for co-utilization of d-galacturonic acid and d-glucose from citrus peel waste. In *Nature Communications*, 2018-12-01, 9, 1, pp., Registrované v: SCOPUS

ADDA13 BÍLIK, Vojtech - PETRUŠ, Ladislav - MIŠÍKOVÁ, M. - SUTORIS, V.. Contribution to the mechanism of the epimerization reaction. In *Chemické zvesti*, 1979, vol. 33, p. 114-117. ISSN 0366-6352.

Ohlasy:

1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS

ADDA14 BÍLIK, Vojtech - ZEMEK, Juraj - BABOR, Karol - SANDTNEROVÁ, Ružena - KOZÁK, Ján. Isolation and determination of maltooligosaccharides. In *Chemické zvesti*, 1980, vol. 34, p. 524-529. ISSN 0366-6352.

Ohlasy:

1. [1.1] ZHOU, Jinhui - QI, Yitao - RITHO, Joan - DUAN, Lili - WU,

Liming - DIAO, Qingyun - LI, Yi - ZHAO, Jing. Analysis of maltooligosaccharides in honey samples by ultra-performance liquid chromatography coupled with evaporative light scattering detection (vol 56, pg 260, 2014). In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2015, vol. 69, no., pp. 435-435., Registrované v: WOS

ADDA15 BÍLIK, Vojtech - KNĚZEK, I. Reaction of saccharides catalyzed by molybdate ions. XLV. Utilization of molybdic and peroxomolybdic acids for preparation of aldoses. In *Chemical Papers - Chemické zvesti*, 1992, vol. 46, p. 193-195. ISSN 0366-6352.

Ohlasy:

1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In ARKIVOC. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS

Zobrazovací formát pro typ dokumentu " nedefinovaný! sysno:170917

ADDA16 BÍLIK, Vojtech - PETRUŠ, Ladislav - FARKAŠ, Vladimír. *Reactions of saccharides catalyzed by molybdate ions. XV. Mechanism of epimerization reaction*
Ohlasy:

1. [1.1] BRAND, Stephen K. - LABINGER, Jay A. - DAVIS, Mark E. Tin Silsesquioxanes as Models for the "Open" Site in Tin-Containing Zeolite Beta. In CHEMCATCHEM. ISSN 1867-3880, 2016, vol. 8, no. 1, pp. 121-124., Registrované v: WOS

2. [1.1] CHETHANA, B. K. - MUSHRIF, Samir H. Bronsted and Lewis acid sites of Sn-beta zeolite, in combination with the borate salt, catalyze the epimerization of glucose: A density functional theory study. In JOURNAL OF CATALYSIS. ISSN 0021-9517, 2015, vol. 323, no., pp. 158-164., Registrované v: WOS

3. [1.1] LARI, Giacomo M. - GRONINGER, Olivier G. - LI, Qiang - MONDELLI, Cecilia - LOPEZ, Nuria - PEREZ-RAMIREZ, Javier. Catalyst and Process Design for the Continuous Manufacture of Rare Sugar Alcohols by Epimerization-Hydrogenation of Aldoses. In CHEMSUSCHEM. ISSN 1864-5631, 2016, vol. 9, no. 24, pp. 3407-3418., Registrované v: WOS

4. [1.1] MUSHRIF, Samir H. - VASUDEVAN, Vallabh - KRISHNAMURTHY, Chethana B. - VENKATESH, Boddu. Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In CHEMICAL ENGINEERING SCIENCE. ISSN 0009-2509, 2015, vol. 121, no., pp. 217-235., Registrované v: WOS

5. [1.1] ORAZOV, Marat - DAVIS, Mark E. Tandem catalysis for the production of alkyl lactates from ketohexoses at moderate temperatures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 38, pp. 11777-11782., Registrované v: WOS

6. [1.1] PELCKMANS, Michiel - VERMANDEL, Walter - VAN WAES, Frederik - MOONEN, Kristof - SELS, Bert F. Low-Temperature Reductive Aminolysis of Carbohydrates to Diamines and Aminoalcohols by Heterogeneous Catalysis. In ANGEWANDTE CHEMIE-INTERNATIONAL

EDITION. ISSN 1433-7851, 2017, vol. 56, no. 46, pp. 14540-14544.,
Registrované v: WOS

7. [1.1] TAKAGAKI, Atsushi - FURUSATO, Shogo - KIKUCHI, Ryuji - OYAMA, S. Ted. Efficient Epimerization of Aldoses Using Layered Niobium Molybdates. In CHEMSUSCHEM. ISSN 1864-5631, 2015, vol. 8, no. 22, pp. 3769-3772., Registrované v: WOS

8. [1.1] ZHANG, Wenhui - MEREDITH, Reagan - YOON, Mi-Kyung - CARMICHAEL, Ian - SERIANNI, Anthony S. Saccharide Structure and Reactivity Interrogated with Stable Isotopes. In STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL, VOL 1. ISSN 0097-6156, 2017, vol. 1257, no., pp. 105-153., Registrované v: WOS

9. [1.1] ZHANG, Wenhui - ZHAO, Shikai - SERIANNI, Anthony S. Labeling Monosaccharides With Stable Isotopes. In ISOTOPE LABELING OF BIOMOLECULES LABELING METHODS. ISSN 0076-6879, 2015, vol. 565, no., pp. 423-458., Registrované v: WOS

ADDA17 BÍLIK, Vojtech - ALFOLDI, Juraj - SANDTNEROVÁ, Ružena. Reactions of saccharides catalyzed by molybdate ions. XXXI. Oxidative degradation of 4-nitrophenylhydrazones of some 4-O-hexosylhexoses to 3-O-hexosylpentoses. In *Chemické zvesti*, 1981, vol. 35, p. 829-833. ISSN 0366-6352.

Ohlasy:

1. [1.1] SPASOVA, Berta - KUESTERS, Christof - STENGEL, Bruno - BRANDNER, Juergen J. Investigation of process conditions for catalytic conversion of carbohydrates by epimerization using a microstructured reactor. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2016, vol. 105, no., pp. 103-109., Registrované v: WOS

ADDA18 BÍLIK, Vojtech - KNĚZEK, I. Reactions of saccharides catalyzed by molybdate ions. XL. Inhibition of the epimerization of aldoses. In *Chemical Papers - Chemické zvesti*, 1990, vol. 44, p. 89-96. ISSN 0366-6352.

Ohlasy:

1. [1.1] Chethana, BK (Chethana, B. K.); Lee, D (Lee, Dongheon); Mushrif, SH (Mushrif, Samir H.): First principles investigation into the metal catalysed 1,2 carbon shift reaction for the epimerization of sugars. In: JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL Volume: 410 Pages: 66-73, Registrované v: WOS

2. [1.1] Chethana, BK (Chethana, B. K.); Mushrif, SH (Mushrif, Samir H.): : Bronsted and Lewis acid sites of Sn-beta zeolite, in combination with the borate salt, catalyze the epimerization of glucose: A density functional theory study. In: JOURNAL OF CATALYSIS Volume: 323 Pages: 158-164, Registrované v: WOS

3. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIÓZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS

4. [1.1] Mushrif, SH (Mushrif, Samir H.); Vasudevan, V (Vasudevan, Vallabh); Krishnamurthy, CB (Krishnamurthy, Chethana B.); Venkatesh, B (Venkatesh, Boddu): Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In:

- ADDA19 BÍLIK, Vojtech - MATULOVÁ, Mária. Reactions of saccharides catalyzed by molybdate ions. XLII. Epimerization and the molybdate complexes of the aldoses. In *Chemical Papers - Chemické zvesti*, 1990, vol. 44, p. 257-262. ISSN 0366-6352.

Ohlasy:

1. [1.1] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS
2. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS
3. [1.1] WANG, Hui - WANG, Meiyin - SHANG, Jining - REN, Yuanhang - YUE, Bin - HE, Heyong. H₃PMo₁₂O₄₀ Immobilized on Amine Functionalized SBA-15 as a Catalyst for Aldose Epimerization. In *MATERIALS*, 2020, vol. 13, no. 3, pp. Dostupné na: <https://doi.org/10.3390/ma13030507>., Registrované v: WOS

- ADDA20 BÍLIK, Vojtech - STANKOVIČ, Ľudovít. Reactions of saccharides catalyzed by molybdate ions. VI. Epimerization of aldotetroses. In *Chemické zvesti*, 1973, vol. 27, p. 544-546. ISSN 0366-6352.

Ohlasy:

1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
2. [1.1] Mushrif, SH (Mushrif, Samir H.); Vasudevan, V (Vasudevan, Vallabh); Krishnamurthy, CB (Krishnamurthy, Chethana B.); Venkatesh, B (Venkatesh, Boddu): Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In: *CHEMICAL ENGINEERING SCIENCE* Volume: 121 Pages: 217-235, Registrované v: WOS
3. [1.1] ZHANG, Wenhui - MEREDITH, Reagan - YOON, Mi-Kyung - CARMICHAEL, Ian - SERIANNI, Anthony S. Saccharide Structure and Reactivity Interrogated with Stable Isotopes. In *STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL*, VOL 1. ISSN 0097-6156, 2017, vol. 1257, no., pp. 105-153., Registrované v: WOS
4. [1.1] Zhang, WH (Zhang, Wenhui); Zhao, SK (Zhao, Shikai); Serianni, AS (Serianni, Anthony S.): Labeling Monosaccharides With Stable Isotopes. In: *ISOTOPE LABELING OF BIOMOLECULES - LABELING METHODS* Book Series Title: *Methods in Enzymology* Volume: 565 Pages: 423-458, Registrované v: WOS

ADDA21 BÍLIK, Vojtech - TIHLÁRIK, Karol. Reactions of saccharides catalyzed by molybdate ions. IX. Epimerization of ketohexoses. In *Chemické zvesti*, 1974, vol. 28, p. 106-109. ISSN 0366-6352.

Ohlasy:

1. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM, Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In *CHEMPLUSCHEM*. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS
2. [1.1] JUNEJA, Ankita - ZHANG, Guochang - JIN, Yong-Su - SINGH, Vijay. Bioprocessing and technoeconomic feasibility analysis of simultaneous production of D-psicose and ethanol using engineered yeast strain KAM-2GD. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2019, vol. 275, no., pp. 27-34., Registrované v: WOS
3. [1.1] ZHANG, Wenli - YU, Shuhuai - ZHANG, Tao - JIANG, Bo - MU, Wanmeng. Recent advances in D-allulose: Physiological functionalities, applications, and biological production. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2016, vol. 54, no., pp. 127-137., Registrované v: WOS

ADDA22 BÍLIK, Vojtech - JURČOVÁ, E. - SUTORIS, V. Reactions of saccharides catalyzed by molybdate ions. XX. Preparation of epilactose and epimaltose. In *Chemické zvesti*, 1978, vol. 32, p. 252-257. ISSN 0366-6352.

Ohlasy:

1. [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In *ASTROBIOLOGY*. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS

ADDA23 BÍLIK, Vojtech - SANDTNEROVÁ, Ružena - KRÁTKY, Zdeno - PETRUŠ, Ladislav. Reactions of saccharides catalyzed by molybdate ions. XXX. Epimerization of D-[U-14C]glucuronic acid. In *Chemical Papers - Chemické zvesti*, 1980, vol. 34, p. 518-523. ISSN 0366-6352.

Ohlasy:

1. [1.1] BAN, Chunghyeon - JEON, Wonjin - PARK, Geonu - WOO, Hee Chul - KIM, Do Heui. Hydrothermal Conversion of Alginate into Uronic Acids over a Sulfonated Glucose-Derived Carbon Catalyst. In *CHEMCATCHEM*. ISSN 1867-3880, 2017, vol. 9, no. 2, pp. 329-337., Registrované v: WOS

ADDA24 BÍLIK, Vojtech - PETRUŠ, Ladislav. Selective transformation of 3-deoxy-D-arabinohexose and 3-deoxy-D-ribo-hexose to 3-deoxy-D-erythro-hexulose. In *Collection of Czechoslovak Chemical Communications*, 1978, vol. 43, p. 1159-1162. ISSN 0010-0765.

Ohlasy:

1. [1.1] CHETHANA, B. K. - LEE, Dongheon - MUSHIRIF, Samir H. First principles investigation into the metal catalysed 1,2 carbon shift reaction for the epimerization of sugars. In *JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL*. ISSN 1381-1169, 2015, vol. 410, no., pp. 66-73., Registrované v: WOS

2. [1.1] MUSHRIF, Samir H. - VASUDEVAN, Vallabh - KRISHNAMURTHY, Chethana B. - VENKATESH, Boddu. Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In *CHEMICAL ENGINEERING SCIENCE*. ISSN 0009-2509, 2015, vol. 121, no., pp. 217-235., Registrované v: WOS

ADDA25 BÍLIKOVÁ, Katarína - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Characterization of the basic major royal jelly protein MRJP2 of honeybee (*Apis mellifera*) and its preparation by heterologous expression in E-coli. In *Biologia : journal of the Slovak Academy of Science*, 1999, vol. 54, p. 733-739. (1998: 0.194 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU, Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from Fresh Royal Jelly in Mice. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v: SCOPUS

ADDA26 BLAGODATSKAJA, V. - KOCKOVÁ-KRATOCHVÍLOVÁ, A.. The heterogeneity in the species *Candida lipolytica*, *Candida pseudolipolytica* n. sp. and *Candida lipolytica* var. *thermonotolerans* n. var. In *Biologia*, 1973, vol. 28, p. 709-716. ISSN 0006-3088.

Ohlasy:

1. [1.1] LE, Rosemary K. - MAHAN, Kristina M. - RAGAUSKAS, Arthur J. *Rhodococcus* and *Yarrowia*-Based Lipid Production Using Lignin-Containing Industrial Residues. In *MICROBIAL LIPID PRODUCTION: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2019, vol. 1995, no., pp. 103-120., Registrované v: WOS

ADDA27 ŠEFČOVIČOVÁ, Jana - TKÁČ, Ján. Application of nanomaterials in microbial-cell biosensor constructions. In *Chemical Papers*, 2015, vol. 69, p. 42-53. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-014-0602-2>

Ohlasy:

1. [1.1] AKBARI, Alireza - DERAKHSHESH, Minoo - ABRISHAMI, Majid Ebrahimizadeh. Nitrate ion effect on gold nanorods plasmon resonance behavior: A potential chemical sensor. In *INORGANIC CHEMISTRY COMMUNICATIONS*. ISSN 1387-7003, 2018, vol. 98, no., pp. 159-164., Registrované v: WOS

2. [1.1] AZAR, Sepideh Alizad Derakhshi - ALEMZADEH, Iran. L-Sorbose Production by *Gluconobacter oxydans* using Submerged Fermentation in a Bench Scale Fermenter. In *APPLIED FOOD BIOTECHNOLOGY*. ISSN 2345-5357, 2020, vol. 7, no. 1, pp. 41-48., Registrované v: WOS

3. [1.1] BROSEL-OLIU, Sergi - ABRAMOVA, Natalia - URIA, Naroa - BRATOV, Andrey. Impedimetric transducers based on interdigitated electrode arrays for bacterial detection A review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1088, no., pp. 1-19., Registrované v: WOS

4. [1.1] BUCKOVA, Martina - LICBINSKY, Roman - JANDOVA,

- Vilma - KREJCI, Jan - POSPICHALOVA, Jana - HUZLIK, Jiri. Fast Ecotoxicity Detection Using Biosensors. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2017, vol. 228, no. 4, pp., Registrované v: WOS
5. [1.1] DENMARK, Daniel J. - BUSTOS-PEREZ, Xiomar - SWAIN, Anand - MANH-HUONG PHAN - MOHAPATRA, Subhra - MOHAPATRA, Shyam S. Readiness of Magnetic Nanobiosensors for Point-of-Care Commercialization. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, 2019, vol. 48, no. 8, pp. 4749-4761., Registrované v: WOS
6. [1.1] DENMARK, Daniel J. - MOHAPATRA, Subhra - MOHAPATRA, Shyam S. Point-of-Care Diagnostics: Molecularly Imprinted Polymers and Nanomaterials for Enhanced Biosensor Selectivity and Transduction. In EUROBIOTECH JOURNAL, 2020, vol. 4, no. 4, pp. 184-206. Dostupné na: <https://doi.org/10.2478/ebtj-2020-0023>., Registrované v: WOS
7. [1.1] ERGON-CAN, Tulay - ERHAN, Elif - ALGUR, Omer Faruk. Poly(glycidyl methacrylate-co-3-thienylmethylmethacrylate) as an immobilization matrix for microbial glycerol biosensing based on Gluconobacter oxydans. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2015, vol. 56, no., pp. 432-437., Registrované v: WOS
8. [1.1] JATOI, Abdul Sattar - BALOCH, A. G. - JADHAV, Ankit - NIZAMUDDIN, Sabzoi - AZIZ, Shaheen - SOOMRO, Suhail Ahmed - NAZIR, Imran - ABRO, Masroor - BALOCH, Humair Ahmed - AHMED, Jawad - MUBARAK, N. M. Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s42452-019-1826-0>., Registrované v: WOS
9. [1.1] LAI, Huasheng - XU, Fugang - WANG, Li. A review of the preparation and application of magnetic nanoparticles for surface-enhanced Raman scattering. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2018, vol. 53, no. 12, pp. 8677-8698., Registrované v: WOS
10. [1.1] OZDOKUR, K. Volkan - DEMIR, Bilal - ATMAN, Ece - TATLI, Alper Yalin - YILMAZ, Buket - DEMIRKOL, Dilek Odaci - KOCAK, Suleyman - TIMUR, Suna - ERTAS, F. Nil. A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2016, vol. 237, no., pp. 291-297., Registrované v: WOS
11. [1.1] PANKRATOVA, Galina - GORTON, Lo. Electrochemical communication between living cells and conductive surfaces. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2017, vol. 5, no. 1, pp. 193-202., Registrované v: WOS
12. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - PRISYAZHNAYA, Natalia - KOLESOV, Vladimir - SIGAEV, Vladimir - SIGNORE, Maria Assunta - RESHETILOV, Anatoly. Multiwalled Carbon Nanotubes and the Electrocatalytic Activity of Gluconobacter oxydans as the Basis of a Biosensor. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS
13. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV, Aleksandr - RESHETILOV, Anatoly. Electrochemical assessment of the interaction of microbial living cells and carbon nanomaterials. In IET NANOBIOTECHNOLOGY. ISSN 1751-8741, 2019, vol. 13, no. 3, pp.

332-338., Registrované v: WOS

14. [1.1] PLEKHANOVA, Yu. V. - RESHETILOV, A. N. Microbial Biosensors for the Determination of Pesticides. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2019, vol. 74, no. 12, pp. 1159-1173., Registrované v: WOS

15. [1.1] RESHETILOV, Anatoly - PLEKHANOVA, Yulia - TARASOV, Sergei - TIKHONENKO, Sergei - DUBROVSKY, Alexey - KIM, Alexander - KASHIN, Vadim - MACHULIN, Andrey - WANG, Gou-Jen - KOLESOV, Vladimir - KUZNETSOVA, Iren. Bioelectrochemical Properties of Enzyme-Containing Multilayer Polyelectrolyte Microcapsules Modified with Multiwalled Carbon Nanotubes. In MEMBRANES, 2019, vol. 9, no. 4, pp., Registrované v: WOS

16. [1.1] SAYLAN, Yeseren - YAVUZ, Handan - ULGER, Celal - DENIZLI, Adil - SAGLAM, Necdet. Introduction to Nanoscience, Nanomaterials, Nanocomposite, Nanopolymer, and Engineering Smart Materials. In MICROBIAL NANOBIONICS: VOL 2, BASIC RESEARCH AND APPLICATIONS. ISSN 2523-8027, 2019, vol., no., pp. 1-12., Registrované v: WOS

17. [1.1] SELIM, Hend M. M. - KAMAL, Ahmed M. - ALI, Dina M. M. - HASSAN, Rabeay Y. A. Bioelectrochemical Systems for Measuring Microbial Cellular Functions. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1498-1505., Registrované v: WOS

18. [1.1] SHOAIE, Nahid - DANESHPOUR, Maryam - AZIMZADEH, Mostafa - MAHSHID, Sara - KHOSHFETRAT, Seyyed Mehdi - JAHANPEYMA, Fatemeh - GHOLAMINEJAD, Alieh - OMIDFAR, Kobra - FORUZANDEH, Mehdi. Electrochemical sensors and biosensors based on the use of polyaniline and its nanocomposites: a review on recent advances. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 7, pp., Registrované v: WOS

ADDA28 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - TKÁČ, Ján. Interfacing of microbial cells with nanoparticles: Simple and cost-effective preparation of a highly sensitive microbial ethanol biosensor. In *Chemical Papers*, 2015, vol. 69, p. 176-182. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0012>

Ohlasy:

1. [1.1] JATOI, Abdul Sattar - BALOCH, A. G. - JADHAV, Ankit - NIZAMUDDIN, Sabzoi - AZIZ, Shaheen - SOOMRO, Suhail Ahmed - NAZIR, Imran - ABRO, Masroor - BALOCH, Humair Ahmed - AHMED, Jawad - MUBARAK, N. M. Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s42452-019-1826-0>., Registrované v: WOS

2. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989., Registrované v: WOS

3. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. -

MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS

4. [1.1] YE, Yongli - GUO, Hongyan - SUN, Xiulan. Recent progress on cell-based biosensors for analysis of food safety and quality control. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 389-404., Registrované v: WOS

5. [1.2] SUSPARINI, Ninik Triayu - ABIDIN, Zaenal - ISWANTINI, Dyah - NURHIDAYAT, Novik. Sensitive and stable ethanol biosensor development based on acetobacter aceti biofilm for halal detection of food and beverages. In Journal of Applied Biology and Biotechnology, 2019-11-01, 7, 6, pp. 40-47., Registrované v: SCOPUS

ADDA29 BLANÁRIKOVÁ, Vít'azoslava - KARÁCSONYI, Š.. The isolation of tissue culture of Populus alba L. "Pyramidalis". In *Biologia Plantarum*, 1978, vol. 20, p. 14-18. ISSN 0006-3134.

Ohlasy:

1. [1.2] RASHID, A. Cell physiology and genetics of higher plants: Volume II. In Cell Physiology and Genetics of Higher Plants: Volume I, 2018-01-01, pp. 1-189., Registrované v: SCOPUS

ADDA30 BREŽNÝ, Robert - ALFOLDI, Juraj. Prins reaction in the synthesis of lignin model compounds. III. Alternative synthesis of pinoresinol, coniferyl aldehyde and guaiacyl vinyl ketone. In *Chemické zvesti*, 1982, vol. 36, p. 267-276. ISSN 0366-6352.

Ohlasy:

1. [1.1] ALBERTSON, Anna K. F. - LUMB, Jean-Philip. The Lignans A Family of Biologically Active Polyphenolic Secondary Metabolites. In RECENT ADVANCES IN POLYPHENOL RESEARCH, VOL 6, 2019, vol. 6, no., pp. 1-70., Registrované v: WOS

2. [1.1] TRAN, F. - LANCEFIELD, C. S. - KAMER, P. C. J. - LEBL, T. - WESTWOOD, N. J. Selective modification of the beta-beta linkage in DDQ-treated Kraft lignin analysed by 2D NMR spectroscopy. In GREEN CHEMISTRY. ISSN 1463-9262, 2015, vol. 17, no. 1, pp. 244-249., Registrované v: WOS

ADDA31 BRIESTENSKÁ, Katarína - ŠAMŠULOVÁ, Veronika - POLÁKOVÁ, Monika - MISTRÍKOVÁ, Jela**. Recombinant luciferase-expressing murine gammaherpesvirus 68 as a tool for rapid antiviral screening. In *Acta Virologica*, 2019, vol. 63, no. 4, p. 439-449. (2018: 0.554 - IF, Q4 - JCR, 0.283 - SJR, Q3 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0001-723X. Dostupné na: https://doi.org/10.4149/av_2019_411

Ohlasy:

1. [1.1] TROMPET, Erika - TOPALIS, Dimitrios - GILLEMOT, Sarah - SNOECK, Robert - ANDREI, Graciela. Viral fitness of MHV-68 viruses harboring drug resistance mutations in the protein kinase or thymidine kinase. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.antiviral.2020.104901>., Registrované v: WOS

ADDA32 BUČKO, Marek - MISLOVIČOVÁ, Danica - NAHÁLKA, Jozef -
VIKARTOVSKÁ, Alica - ŠEFCOVIČOVÁ, Jana - KATRLÍK, Jaroslav - TKÁČ,
Ján - GEMEINER, Peter - LACÍK, Igor - ŠTEFUCA, Vladimír - POLAKOVIČ,
Milan - ROSENBERG, Michal - REBROŠ, Martin - ŠMOGROVIČOVÁ, Daniela -
ŠVITEL, Juraj. Immobilization in biotechnology and biorecognition: from macro- to
nanoscale systems. In *Chemical papers*, 2012, vol. 66, no. 11, p. 983 - 998. (2011:
1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, Current Contents - CCC). (2012 -
Current Contents). ISSN 0366-6352. Dostupné na:
<https://doi.org/10.2478/s11696-012-0226-3>

Ohlasy:

1. [1.1] AXELROD, T. - ELTZOV, E. - MARKS, R.S. Bioluminescent bioreporter pad biosensor for monitoring water toxicity. In *TALANTA*. ISSN 0039-9140, MAR 1 2016, vol. 149, p. 290-297., Registrované v: WOS
2. [1.1] CARVALHO, F. - PARADISO, P. - SARAMAGO, B. - FERRARIA, A.M. - BOTELHO DO REGO, A.M. - FERNANDES, P. An integrated approach for the detailed characterization of an immobilized enzyme. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, MAR 2016, vol. 125, p. 64-74., Registrované v: WOS
3. [1.1] ELTZOV, E. - YEHUDA, A. - MARKS, R.S. Creation of a new portable biosensor for water toxicity determination. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, DEC 31 2015, vol. 221, p. 1044-1054., Registrované v: WOS
4. [1.1] EVTUGYN, Gennady - HIANIK, Tibor. Electrochemical Immuno- and Aptasensors for Mycotoxin Determination. In *CHEMOSENSORS*, 2019, vol. 7, no. 1, pp., Registrované v: WOS
5. [1.1] FREIRE, D.M.G. - DA SILVA, A.A.T. - MANOEL, E.D. - ALMEIDA, R.V. - SIMAS, A.B.C. Lipases in Enantioselective Syntheses: Evolution of Technology and Recent Applications. In *WHITE BIOTECHNOLOGY FOR SUSTAINABLE CHEMISTRY*. ISSN 1757-7039, 2016, no. 45, p. 207-244., Registrované v: WOS
6. [1.1] HOMBURG, Sarah Vanessa - VENKANNA, Deepak - KRAUSHAAR, Konstantin - KRUSE, Olaf - KROKE, Edwin - PATEL, Anant V. Entrapment and growth of *Chlamydomonas reinhardtii* in biocompatible silica hydrogels. In *COLLOIDS AND SURFACES B-BIOINTERFACES*. ISSN 0927-7765, 2019, vol. 173, no., pp. 233-241., Registrované v: WOS
7. [1.1] KAMINIARIS, M.D. - MAVRIKOU, S. - GEORGIADOU, M. - PAIVANA, G. - TSITSIGIANNIS, D.I. - KINTZIOS, S. An Impedance Based Electrochemical Immunosensor for Aflatoxin B-1 Monitoring in Pistachio Matrices. In *CHEMOSENSORS*. DEC 2020, vol. 8, no. 4., Registrované v: WOS
8. [1.1] KHAN, M. - HUSAIN, Q. Multiwalled carbon nanotubes bound beta-galactosidase: It's activity, stability and reusability. In *METHODS IN ENZYMOLOGY: NANOARMORING OF ENZYMES WITH CARBON NANOTUBES AND MAGNETIC NANOPARTICLES*. ISSN 0076-6879, 2020, vol. 630, p. 365-405., Registrované v: WOS
9. [1.1] LABUS, K. - DROZD, A. - TRUSEK-HOLOWNIA, A. Preparation and characterisation of gelatine hydrogels predisposed to use as matrices for effective immobilisation of biocatalysts. In *CHEMICAL PAPERS*. ISSN 0366-6352, MAY 2016, vol. 70, no. 5, p. 523-530., Registrované v: WOS
10. [1.1] SHARMA, S.K. - LEBLANC, R.M. Biosensors based on beta-galactosidase enzyme: Recent advances and perspectives. In

ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, OCT 15 2017, vol. 535, p. 1-11., Registrované v: WOS

11. [1.1] TAIPA, M.A. - AZEVEDO, A.M. - GRILO, A.L. - COUTO, P.T. - FERREIRA, F.A.G. - FORTUNA, A.R.M. - PINTO, I.F. - SANTOS, R.M. - SANTOS, S.B. Student Collaboration in a Series of Integrated Experiments To Study Enzyme Reactor Modeling with Immobilized Cell-Based Invertase. In JOURNAL OF CHEMICAL EDUCATION. ISSN 0021-9584, JUL 2015, vol. 92, no. 7, p. 1238-1243., Registrované v: WOS

12. [1.1] TAVARES, T.D. - ANTUNES, J.C. - FERREIRA, F. - FELGUEIRAS, H.P. Biofunctionalization of Natural Fiber-Reinforced Biocomposites for Biomedical Applications. In BIOMOLECULES. JAN 2020, vol. 10, no. 1., Registrované v: WOS

13. [1.1] ZHUANG, W. - LIU, X.J. - YANG, J. - WU, J.L. - ZHOU, J.W. - CHEN, Y. - LIU, D. - YING, H.J. Immobilization of Clostridium acetobutylicum onto natural textiles and its fermentation properties. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, MAR 2017, vol. 10, no. 2, SI, p. 502-512., Registrované v: WOS

14. [1.2] EVTUGYN, Gennady - SUBJAKOVA, Veronika - MELIKISHVILI, Sopio - HIANIK, Tibor. Affinity Biosensors for Detection of Mycotoxins in Food. In Advances in Food and Nutrition Research. ISSN 10434526, 2018-01-01, 85, pp. 263-310., Registrované v: SCOPUS

ADDA33 BURISOVÁ, A. - TOMÁŠKOVÁ, B. - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna. Isolation and characterization of the non-starch polysaccharides of Amaranth seeds. In *Chemical Papers*, 2001, vol. 55, p. 254-260. ISSN 0366-6352.

Ohlasy:

1. [1.1] CLARA SABBIONE, Ana - SUAREZ, Santiago - CRISTINA ANON, Maria - SCILINGO, Adriana. Amaranth functional cookies exert potential antithrombotic and antihypertensive activities. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2019, vol. 54, no. 5, pp. 1506-1513., Registrované v: WOS

2. [1.1] TANG, Yujia - XIAO, Yirong - TANG, Zizhong - JIN, Weiqiong - WANG, Yinsheng - CHEN, Hui - YAO, Huipeng - SHAN, Zhi - BU, Tongliang - WANG, Xiaoli. Extraction of polysaccharides from Amaranthus hybridus L. by hot water and analysis of their antioxidant activity. In PEERJ. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS

3. [1.1] WOLOSİK, Katarzyna - MARKOWSKA, Agnieszka. Amaranthus Cruentus Taxonomy, Botanical Description, and Review of its Seed Chemical Composition. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2019, vol. 14, no. 5, pp., Registrované v: WOS

4. [1.1] ZHU, Fan. Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116819>., Registrované v: WOS

ADDA34 BYSTRICKÝ, Peter - DOBROTA, Dušan - RAČAY, Peter - BYSTRICKÝ, Slavomír. NMR characteristics of alpha-D-Man-(1→2)-D-Man and alpha-D-Man-(1→3)-D-Man mannobioses related to Candida albicans yeast mannan

structures. In *Chemical Papers*, 2017, vol. 71, no. 12, p. 2485-2493. (2016: 1.258 - IF, Q3 - JCR, 0.347 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-017-0242-4>

Ohlasy:

1. [1.1] LI, Jin - KARBOUNE, Salwa - SEDMAN, Jacqueline - ISMAIL, Ashraf. Characterization of the structural properties of mannoproteins isolated from selected yeast-based products upon the enzymatic treatment. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109596>, Registrované v: WOS
2. [1.1] SAMUELSEN, Anne Berit C. - RISE, Frode - WILKINS, Alistair L. - TEVELEVA, Liubov - NYMAN, Anna Armika Tussilago - AACHMANN, Finn L. The edible mushroom *Albatrellus ovinus* contains a alpha-L-fuco-alpha-D-galactan, alpha-D-glucan, a branched (1> 6)-beta-D-glucan and a branched (1> 3)-beta-glucan. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2019, vol. 471, no., pp. 28-38., Registrované v: WOS
3. [1.1] SIVASANKAR, Palaniappan - POONGODI, Subramaniam - LOBO, Anderson O. - PUGAZHENDHI, Arivalagan. Characterization of a novel polymeric bioflocculant from marine actinobacterium *Streptomyces* sp. and its application in recovery of microalgae. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2020, vol. 148, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibiod.2020.104883>, Registrované v: WOS

ADDA35 BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - KOGAN, Grigorij. Preparation and characterisation of a biological carrier based on carboxymethyl cellulose. In *Chemical Papers - Chemické zvesti*, 1998, vol. 52, p. 374. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] ANTOSIK, Adrian K. - WILPISZEWSKA, Katarzyna. Natural composites based on polysaccharide derivatives: preparation and physicochemical properties. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 3215-3218., Registrované v: WOS

ADDA36 CAPEK, Ignác - JANÍČKOVÁ, Silvia - CAPEK, Peter - KOVÁČIK, J. - KOŠTIAL, P. Interaction studies of nonionic emulsifiers and carboxymethylstarch and polymerization of vinyl acetate. In *Chemical Papers*, 2005, vol. 59, no. 1, p. 48-54. ISSN 0366-6352.

Ohlasy:

1. [1.2] KUNDU, Kaushik - DAS, Arindam - BARDHAN, Soumik - CHAKRABORTY, Gulmi - GHOSH, Dibendu - KAR, Barnali - SAHA, Swapan K. - SENAPATI, Sanjib - MITRA, Rajib Kumar - PAUL, Bidyut K. The mixing behaviour of anionic and nonionic surfactant blends in aqueous environment correlates in fatty acid ester medium. In *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. ISSN 09277757, 2016-01-01, 504, pp. 331-342., Registrované v: SCOPUS

ADDA37 CAPEK, Peter - KARDOŠOVÁ, Alžbeta - LATH, Dieter. A neutral heteropoly-saccharide from the flowers of *Malva mauritiana* L. In *Chemical Papers*

- *Chemické zvesti*, 1999, vol. 53, p. 131-136. (1998: 0.160 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] BERA, Kaushik - RAY, Sayani - RAJA, Washim - RAY, Bimalendu. Structural insight of an antioxidative arabinogalactan protein of Aegle marmelos fruit gum and its interaction with beta-lactoglobulin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 300-307., Registrované v: WOS
2. [1.1] MASSEY, Shazma - MACNAUGHTAN, William - WILLIAMS, Huw E. L. - WOLF, Bettina - IQBAL, Mohammad S. A structural study of Acacia nilotica and Acacia modesta gums. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 207-215., Registrované v: WOS
3. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy? In FRONTIERS IN PHARMACOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS
4. [1.2] BEIGOMI, Maryam - MOHSENZADEH, Mohammad - SALARI, Amir. Characterization of a novel biodegradable edible film obtained from Dracocephalum moldavica seed mucilage. In International Journal of Biological Macromolecules. ISSN 01418130, 2018-03-01, 108, pp. 874-883., Registrované v: SCOPUS

ADDA38 CAPEK, Peter - KARDOŠOVÁ, Alžbeta. Structural characterization of an acidic heteropolysaccharide from Rudbeckia fulgida, var. sullivantii (Boynton et Beadle). In *Chemical Papers - Chemické zvesti*, 2001, vol. 35, p. 311-318. ISSN 0366-6352.

Ohlasy:

1. [1.1] MOLDOVAN, Zenovia - BULEANDRA, Mihaela - OPREA, Eliza - MINEA, Zamfirica. Studies on Chemical Composition and Antioxidant Activity of Rudbeckia triloba. In JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY. ISSN 2090-8865, 2017, vol., no., pp., Registrované v: WOS

ADDA39 DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In *Chemical Papers*, 2015, vol. 69, p. 143-149. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0053>

Ohlasy:

1. [1.1] BUENO, L. - DE ARAUJO, W. R. - PAIXAO, T. R. L. C. Point of care (POC) medical biosensors for cancer detection. In MEDICAL BIOSENSORS FOR POINT OF CARE (POC) APPLICATIONS. ISSN 2049-9485, 2017, vol. 118, no., pp. 183-201., Registrované v: WOS
2. [1.1] BUENO, L. - DE ARAUJO, W. R. - PAIXAO, T. R. L. C. Point of care (POC) medical biosensors for cancer detection. In MEDICAL BIOSENSORS FOR POINT OF CARE (POC) APPLICATIONS. ISSN

- 2049-9485, 2017, vol. 118, no., pp. 183-201., Registrované v: WOS
3. [1.1] DAMBORSKA, Dominika - BERTOK, Tomas - DOSEKOVA, Erika - HOLAZOVA, Alena - LORENCOVA, Lenka - KASAK, Peter - TKAC, Jan. Nanomaterial-based biosensors for detection of prostate specific antigen. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 9, pp. 3049-3067., Registrované v: WOS
4. [1.1] CHUAH, Kyloon - WU, Yanfang - VIVEKCHAND, S. R. C. - GAUS, Katharina - REECE, Peter J. - MICOLICH, Adam P. - GOODING, J. Justin. Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2019, vol. 10, no., pp., Registrované v: WOS
5. [1.1] KOKTYSH, I.V. - MELNIKOVA, Y.I. - KULAKOVICH, O.S. - RAMANENKA, A.A. - VASCHENKO, S.V. - MURAVITSKAYA, A.O. - GAPONENKO, S.V. - MASKEVICH, S.A. Highly Sensitive Immunofluorescence Assay of Prostate-Specific Antigen Using Silver Nanoparticles. In JOURNAL OF APPLIED SPECTROSCOPY. ISSN 0021-9037, NOV 2020, vol. 87, no. 5, p. 870-876., Registrované v: WOS
6. [1.1] LAMBERT, Alexander - YANG, Zhanjun - CHENG, Wei - LU, Zhenda - LIU, Ying - CHENG, Quan. Ultrasensitive Detection of Bacterial Protein Toxins on Patterned Microarray via Surface Plasmon Resonance Imaging with Signal Amplification by Conjugate Nanoparticle Clusters. In ACS SENSORS. ISSN 2379-3694, 2018, vol. 3, no. 9, pp. 1639-1646., Registrované v: WOS
7. [1.1] PAIVA, Telmo O. - ALMEIDA, Ines - MARQUES, Joaquim T. - LIU, Wei - NIU, Yu - JIN, Gang - VIANA, Ana S. Nanostructured interfaces with site-specific bioreceptors for immunosensing. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2017, vol. 412, no., pp. 455-463., Registrované v: WOS
8. [1.1] TOPCU, Aykut Arif - OZGUR, Erdogan - YILMAZ, Fatma - BERELI, Nilay - DENIZLI, Adil. Real time monitoring and label free creatinine detection with artificial receptors. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, 2019, vol. 244, no., pp. 6-11., Registrované v: WOS

ADDA40 DOČOLOMANSKÝ, Peter - FIALOVÁ, Ivana - BARANČÍK, Miroslav - RYBAR, Alfonz - BREIER, Albert. Prolongation of pentoxifylline aliphatic side chain positively affects the reversal of p-glycoprotein-mediated multidrug resistance in L1210/VCR line cells. In *General physiology and biophysics*, 2005, vol. 24, issue 4, p. 461-466. (2004: 0.694 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0231-5882.

Ohlasy:

1. [1.1] WANG, Ying - ZHAO, Yating - CUI, Yu - ZHAO, Qinfu - ZHANG, Qiang - MUSETTI, Sara - KINGHORN, Karina A. - WANG, Siling. Overcoming multiple gastrointestinal barriers by bilayer modified hollow mesoporous silica nanocarriers. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2018, vol. 65, no., pp. 405-416., Registrované v: WOS

ADDA41 DOLEJŠ, L. - HANUŠ, V. - VOTICKÝ, Zdeno - TOMKO, J. Alkaloids from *Buxus sempervirens* L. III. Mass spectral fragmentation. In *Collection of*

Czechoslovak Chemical Communications, 1965, vol. 30, p. 2869-2874. ISSN 0010-0765.

Ohlasy:

1. [1.1] YAN, Yun-yi - AO, Lu-yao - ZHOU, Lin - LI, Cheng-yuan - FANG, Wei-rong - SHEN, Wei-yang - LIANG, Bing-wen - ZHU, Xiong - LI, Yun-man. Therapeutic effects of JLX001 on cerebral ischemia through inhibiting platelet activation and thrombus formation in rats. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 106, no., pp. 805-812., Registrované v: WOS
2. [1.1] ZHANG, Li - LU, Yang - GUO, Yonghui - XU, Wei - JIN, Guimin - DU, Guanhua. Value Assignment Study on a New Certified Reference Material of Cyclovirobuxine D by Differential Scanning Calorimetry Method. In *CURRENT ANALYTICAL CHEMISTRY*. ISSN 1573-4110, 2016, vol. 12, no. 6, pp. 568-572., Registrované v: WOS

ADDA42 DŘÍMAL, Ján - KNEZL, Vladimír - PAULOVICHOVÁ, Ema - DŘÍMAL, Daniel. Enhanced early after-myocardial infarction concentration of TNF- α subsequently increased circulating and myocardial adrenomedullin in spontaneously hypertensive rats. In *General physiology and biophysics : international journal*, 2008, vol. 27, no.1, p.12-18. (2007: 1.286 - IF, Q3 - JCR, 0.391 - SJR, Q2 - SJR, Current Contents - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0231-5882.

Ohlasy:

1. [1.1] HAQUE, N. - ABU KASIM, N.H. - RAHMAN, M.T. Optimization of Pre-transplantation Conditions to Enhance the Efficacy of Mesenchymal Stem Cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2015, vol. 11, no. 3, p. 324-334., Registrované v: WOS
2. [1.1] SIMPSON, Nick J. - FERGUSON, Alastair V. The proinflammatory cytokine tumor necrosis factor- α excites subfornical organ neurons. In *JOURNAL OF NEUROPHYSIOLOGY*. ISSN 0022-3077, 2017, vol. 118, no. 3, p. 1532-1541., Registrované v: WOS

ADDA43 DUDÍKOVÁ, Jana - KOLAROVA, Nadežda. Extracellular polysaccharides produced by acapsular mutant of *Cryptococcus laurentii*. In *Chemical Papers - Chemické zvesti*, 2006, vol. 60, p. 69-70. (2005: 0.409 - IF, Q4 - JCR, 0.216 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain α -galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS

ADDA44 ĐURIŠ, M. - KOŠÍKOVÁ, Božena - DEMIANOVÁ, V. Preparation of the surface active lignin derivatives. In *Drevársky výskum*, 1997, vol. 42, p. 25-31.

Ohlasy:

1. [1.1] LI, Shuai - XIANG, Wenchao - JARVINEN, Marjo - LAPPALAINEN, Timo - SALMINEN, Kristian - ROJAS, Orlando J. Interfacial Stabilization of Fiber-Laden Foams with Carboxymethylated Lignin toward Strong Nonwoven Networks. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 30, pp. 19827-19835., Registrované v: WOS

ADDA45 EBRINGEROVÁ, Anna - PASTÝR, Ján. Sulfoethylierung von D-Xylanen in heterogener Phase. In *Chemical Papers - Chemické zvesti*, 1988, vol. 42, p. 407-414. ISSN 0366-6352.

Ohlasy:

1. [1.1] GABRIEL, Lars - GERICKE, Martin - HEINZE, Thomas. Modular synthesis of non-charged and ionic xylan carbamate derivatives from xylan carbonates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 207, no., pp. 782-790., Registrované v: WOS
2. [1.1] GABRIEL, Lars - HEINZE, Thomas. Diversity of polysaccharide structures designed by aqueous Ugi-multi-compound reaction. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 5, pp. 2849-2859., Registrované v: WOS
3. [1.1] GABRIEL, Lars - KOSCHELLA, Andreas - TIED, Antje - PFEIFER, Annett - HEINZE, Thomas. Sulfoethylation of polysaccharides-A comparative study. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116533>., Registrované v: WOS

ADDA46 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Chemical conjugation of biomacromolecules: A mini-review. In *Chemical papers*, 2010, vol. 64, p. 683-695. (2009: 0.791 - IF, Q3 - JCR, 0.245 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-010-0057-z>

Ohlasy:

1. [1.1] BASTARRACHEA, Luis J. - WONG, Dana E. - ROMAN, Maxine J. - LIN, Zhuangsheng - GODDARD, Julie M. Active Packaging Coatings. In COATINGS. ISSN 2079-6412, 2015, vol. 5, no. 4, pp. 771-791., Registrované v: WOS
2. [1.1] BEDNAREK, Christin - WEHL, Ilona - JUNG, Nicole - SCHEPERS, Ute - BRAESE, Stefan. The Staudinger Ligation. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 10, pp. 4301-4354. Dostupné na: <https://doi.org/10.1021/acs.chemrev.9b00665>., Registrované v: WOS
3. [1.1] GOROKHOV, V. Yu. - GOROKHOVA, S. M. - LYSTSOVA, E. A. Synthesis of 4-Methyl-2,6-di(9H-thioxanthen-9-yl)aniline. In RUSSIAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1070-4280, 2018, vol. 54, no. 8, pp. 1260-1261., Registrované v: WOS
4. [1.1] CHEN, Qi - WANG, Yuanyuan - MAO, Fujing - SU, Benchao - BAO, Kunlu - ZHANG, Zeling - XIE, Guifang - LIU, Xing. Development of a horseradish peroxidase-nanobody fusion protein for visual detection of ochratoxin A by dot immunoassay. In RSC ADVANCES, 2020, vol. 10, no. 56, pp. 33700-33705. Dostupné na: <https://doi.org/10.1039/d0ra06576e>., Registrované v: WOS

5. [1.1] INOKUMA, Tsubasa - FULLER, Roberta P. - BARBAS, Carlos F. N-Sulfonyl-beta-lactam hapten as an effective labeling reagent for aldolase mAb. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2015, vol. 25, no. 8, pp. 1684-1687., Registrované v: WOS
6. [1.1] LAUKO, Jan - KOUWER, Paul H. J. - ROWAN, Alan E. 1H-1,2,3-Triazole: From Structure to Function and Catalysis. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2017, vol. 54, no. 3, pp. 1677-1699., Registrované v: WOS
7. [1.1] LEE, SeonHyung - HAN, Beom-Ku - KIM, Yang-Hoon - AHN, Ji-Young. SpyCatcher-SpyTagged ApxIA Toxoid and the Immune-Modulating Yeast Ghost Shells. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2020, vol. 16, no. 11, pp. 1644-1657. Dostupné na: <https://doi.org/10.1166/jbn.2020.2992>., Registrované v: WOS
8. [1.1] MAULIDIYAH - TRIBAWONO, Diono Saputro - WIBOWO, Dwiprayogo - NURDIN, Muhammad. Electrochemical Profile Degradation of Amino Acid by Flow System using TiO₂/Ti Nanotubes Electrode. In ANALYTICAL & BIOANALYTICAL ELECTROCHEMISTRY. ISSN 2008-4226, 2016, vol. 8, no. 6, pp. 761-776., Registrované v: WOS
9. [1.1] ORENHA, Renato P. - VESSECCHI, Ricardo - GALEMBECK, Sergio E. The influence of the negative hyperconjugation is relevant for the analysis of the pi-pi* conjugation with the mono-substitution and di-substitution of H₂C= by O= and/or HN= in trans-but-1,3-diene? In STRUCTURAL CHEMISTRY. ISSN 1040-0400, 2018, vol. 29, no. 3, pp. 847-857., Registrované v: WOS
10. [1.1] PATRICIA JARAMILLO-QUINTERO, Lidia - CONTIS MONTES DE OCA, Arturo - ROMERO ROJAS, Andres - ROJAS-HERNANDEZ, Saul - CAMPOS-RODRIGUEZ, Rafael - LETICIA MARTINEZ-AYALA, Alma. Cytotoxic effect of the immunotoxin constructed of the ribosome-inactivating protein curcin and the monoclonal antibody against Her2 receptor on tumor cells. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2015, vol. 79, no. 6, pp. 896-906., Registrované v: WOS
11. [1.1] RAMOS-TOMILLERO, Ivan - PEREZ-CHACON, Gema - SOMOVILLA-CRESPO, Beatriz - SANCHEZ-MADRID, Francisco - MANUEL DOMINGUEZ, Juan - CUEVAS, Carmen - ZAPATA, Juan Manuel - RODRIGUEZ, Hortensia - ALBERICIO, Fernando. Bioconjugation through Mesitylene Thiol Alkylation. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2018, vol. 29, no. 4, pp. 1199-1208., Registrované v: WOS
12. [1.1] YANG, Jinsong - QIU, Yongchang - PAN, Luying. Generation of assay positive controls for detection of isotype anti-drug antibodies for immunogenicity monitoring. In BIOANALYSIS. ISSN 1757-6180, 2017, vol. 9, no. 20, pp. 1603-1615., Registrované v: WOS
13. [1.2] PFISTER, David - ULMER, Nicole - KLAUE, Antoine - INGOLD, Oliver - MORBIDELLI, Massimo. Modeling the Kinetics of Protein Conjugation Reactions. In CHEMIE INGENIEUR TECHNIK. ISSN 0009-286X, 2016, vol. 88, no. 11, pp. 1598-1608., Registrované v: WOS

ADDA47 FARKAŠ, Vladimír - KOVAŘÍK, J. - KOŠINOVÁ, A. - BAUER, Štefan. An autoradiographic study of mannan incorporation into the growing cells of

Saccharomyces cerevisiae. In *Journal of Bacteriology*, 1974, vol. 117, p. 265-269. ISSN 0021-9193.

Ohlasy:

1. [1.1] GIHANA, Gabriel M. - MUSSER, Tiffany R. - THOMPSON, Oscar - LACEFIELD, Soni. Prolonged cyclin-dependent kinase inhibition results in septin perturbations during return to growth and mitosis. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2018, vol. 217, no. 7, pp. 2429-2443., Registrované v: WOS
2. [1.1] PUXBAUM, Verena - GASSER, Brigitte - MATTANOVICH, Diethard. The bud tip is the cellular hot spot of protein secretion in yeasts. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2016, vol. 100, no. 18, pp. 8159-8168., Registrované v: WOS
3. [1.1] SUGIYAMA, Shinju - TANAKA, Motomasa. Distinct segregation patterns of yeast cell-peripheral proteins uncovered by a method for protein segregatome analysis. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2019, vol. 116, no. 18, pp. 8909-8918., Registrované v: WOS
4. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADDA48 FEDORONKO, Michal - PETRUŠOVÁ, Mária - ALFOLDI, Juraj.

Electroreduction of triose oximes. In *Chemical Papers*, 1989, vol.43, p. 335-341. ISSN 0366-6352.

Ohlasy:

1. [1.1] BARBERA, Vincenzina - LEONARDI, Gabriella - VALERIO, Antonio Marco - RUBINO, Lucia - SUN, Shuquan - FAMULARI, Antonino - GALIMBERTI, Maurizio - CITTERIO, Attilio - SEBASTIANO, Roberto. Environmentally Friendly and Regioselective One-Pot Synthesis of Imines and Oxazolidines Serinol Derivatives and Their Use for Rubber Cross-Linking. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 25, pp. 9356-9366. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01603>., Registrované v: WOS

ADDA49 FEDORONKO, Michal. Electroreduction of DL-glyceraldehyde and D-forms of its 2,3-di-O-methyl- and 2,3-O-isopropylidene derivatives. In *Chemical Papers - Chemické zvesti*, 1987, vol. 41, p. 767-776. ISSN 0366-6352.

Ohlasy:

1. [1.1] JAMES, Olusola O. - SAUTER, Waldemer - SCHROEDER, Uwe. Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to Valerolactone. In *CHEMSUSCHEM*. ISSN 1864-5631, 2017, vol. 10, no. 9, pp. 2015-2022., Registrované v: WOS
2. [1.1] JAMES, Olusola O. - SAUTER, Waldemar - SCHROEDER, Uwe. Towards selective electrochemical conversion of glycerol to 1,3-propanediol. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 20, pp. 10818-10827., Registrované v: WOS
3. [1.1] LIANG, Zhiqin - VILLALBA, Matias A. - MARCANDALLI, Giulia - OJHA, Kasinath - SHIH, Arthur J. - KOPER, Marc T. M. Electrochemical Reduction of the Simplest Monosaccharides: Dihydroxyacetone

and Glyceraldehyde. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 23, pp. 13895-13903. Dostupné na: <https://doi.org/10.1021/acscatal.0c04131>., Registrované v: WOS

ADDA50 FILIP, Jaroslav - KASÁK, Peter - TKÁČ, Ján. Graphene as signal amplifier for preparation of ultrasensitive electrochemical biosensors. In *Chemical Papers*, 2015, vol. 69, p. 112-133. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0051>

Ohlasy:

1. [1.1] AL-ANI, Lina A. - ALSAADI, Mohammed A. - KADIR, Farkaad A. - HASHIM, Najihah M. - JULKAPLI, Nurhidayatullaili M. - YEHYE, Wageeh A. Graphene- gold based nanocomposites applications in cancer diseases; Efficient detection and therapeutic tools. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 139, no., pp. 349-366., Registrované v: WOS
2. [1.1] ARYA, Sunil K. - ZHURAUSKI, Pavel - JOLLY, Pawan - BATISTUTI, Marina R. - MULATO, Marcelo - ESTRELA, Pedro. Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 102, no., pp. 106-112., Registrované v: WOS
3. [1.1] BEYRANVAND, Siamak - GHOLAMI, Mohammad F. - TEHRANI, Abbas D. - RABE, Juergen P. - ADELI, Mohsen. Construction and Evaluation of a Self-Calibrating Multiresponse and Multifunctional Graphene Biosensor. In LANGMUIR. ISSN 0743-7463, 2019, vol. 35, no. 32, pp. 10461-10474., Registrované v: WOS
4. [1.1] DA SILVA, Jussara Vieira - BRITO MADURRO, Ana Graci - MADURRO, Joao Marcos. Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2017, vol. 21, no. 7, pp. 2129-2139., Registrované v: WOS
5. [1.1] DARABDHARA, Gitashree - DAS, Manash R. - SINGH, Surya P. - RENGAN, Aravind K. - SZUNERITS, Sabine - BOUKHERROUB, Rabah. Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. In ADVANCES IN COLLOID AND INTERFACE SCIENCE. ISSN 0001-8686, 2019, vol. 271, no., pp., Registrované v: WOS
6. [1.1] FILIPPIDOU, M. K. - LOUKAS, C. Moritz - KAPROU, G. - TEGOU, E. - PETROU, P. - KAKABAKOS, S. - TSEREPI, A. - CHATZANDROULIS, S. Detection of BRCA1 gene on partially reduced graphene oxide biosensors. In MICROELECTRONIC ENGINEERING. ISSN 0167-9317, 2019, vol. 216, no., pp., Registrované v: WOS
7. [1.1] GULABOSKI, Rubin - MIRCESKI, Valentin - KAPPL, Reinhard - HOTH, Markus - BOZEM, Monika. Review-Quantification of Hydrogen Peroxide by Electrochemical Methods and Electron Spin Resonance Spectroscopy. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 166, no. 8, pp. G82-G101., Registrované v: WOS
8. [1.1] HAN, Xiaobing - GAO, Jie - CHEN, Tao - ZHAO, Yuan. Interfacial interaction and steric repulsion in polymer-assisted liquid exfoliation to produce high-quality graphene. In CHEMICAL PAPERS. ISSN 0366-6352,

2020, vol. 74, no. 3, pp. 757-765. Dostupné na:

<https://doi.org/10.1007/s11696-019-00928-1>, Registrované v: WOS

9. [1.1] TEGOU, Evangelia - MAGANA, Maria - KATSOGRIDAKI, Alexandra Eleni - IOANNIDIS, Anastasios - RAPTIS, Vasilios - JORDAN, Sheldon - CHATZIPANAGIOTOU, Stylianos - CHATZANDROULIS, Stavros - ORNELAS, Catia - TEGOS, George P. Terms of endearment: Bacteria meet graphene nanosurfaces. In BIOMATERIALS. ISSN 0142-9612, 2016, vol. 89, no., pp. 38-55., Registrované v: WOS

10. [1.2] DAVIS, Frank - SHIMIZU, Flavio M. - ALTINTAS, Zeynep. Smart nanomaterials: Applications in biosensors and diagnostics. In Biosensors and Nanotechnology: Applications in Health Care Diagnostics, 2018-03-29, pp. 219-276., Registrované v: SCOPUS

11. [1.2] Zuber, A. A., Klantsataya, E., & Bachhuka, A. (2019). Biosensing. In Comprehensive Nanoscience and Nanotechnology (pp. 105-126), Registrované v: SCOPUS

12. [2.1] KORDI, F. - ZAK, Ali Khorsand - DARROUDI, Majid - SAEDABADI, M. Hazrati. Synthesis and characterizations of Ag-decorated graphene oxide nanosheets and their cytotoxicity studies. In CHEMICAL PAPERS. ISSN 2585-7290, 2019, vol. 73, no. 8, pp. 1945-1952., Registrované v: WOS

13. [2.1] MANDAL, Peetam - SAHA, Mitali. Low-temperature synthesis of graphene derivatives: mechanism and characterization. In CHEMICAL PAPERS. ISSN 2585-7290, 2019, vol. 73, no. 8, pp. 1997-2006., Registrované v: WOS

14. [2.1] MA, Yu - ZHAO, Dongyu - CHEN, Yongheng - HUANG, Jing - ZHANG, Zhixin - ZHANG, Xiwen - ZHANG, Bin. A novel core-shell polyaniline/graphene oxide/copper nanocomposite for high performance and low-cost supercapacitors. In CHEMICAL PAPERS. ISSN 2585-7290, 2019, vol. 73, no. 1, pp. 119-129., Registrované v: WOS

ADDA51 FILIPPOV, M.P. - KOHN, Rudolf. Determination of the esterification degree of carboxyl groups of pectin with methanol by means of infrared spectroscopy. In *Chemické zvesti*, 1975, vol. 29, p. 88-91. ISSN 0366-6352.

Ohlasy:

1. [1.1] CANTERI, Maria H. G. - RENARD, Catherine M. G. C. - LE BOURVELLEC, Carine - BUREAU, Sylvie. ATR-FTIR spectroscopy to determine cell wall composition: Application on a large diversity of fruits and vegetables. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 212, no., pp. 186-196., Registrované v: WOS

2. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS

3. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS

4. [1.1] GAWKOWSKA, Diana - CIESLA, Jolanta - ZDUNEK, Artur - CYBULSKA, Justyna. Cross-linking of diluted alkali-soluble pectin from apple (*Malus domestica* fruit) in different acid-base conditions. In FOOD

HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 92, no., pp. 285-292.,
Registrované v: WOS

5. [1.1] GAWKOWSKA, Diana - CIESLA, Jolanta - ZDUNEK, Artur - CYBULSKA, Justyna. The Effect of Concentration on the Cross-Linking and Gelling of Sodium Carbonate-Soluble Apple Pectins. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 8, pp., Registrované v: WOS

6. [1.1] LYU, Jian - BI, Jinfeng - LIU, Xuan - ZHOU, Mo - CHEN, Qinqin. Characterization of water status and water soluble pectin from peaches under the combined drying processing. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 123, no., pp. 1172-1179., Registrované v: WOS

7. [1.1] PODGORSKA, Anna - BURIAN, Maria - GIECZEWSKA, Katarzyna - OSTASZEWSKA-BUGAJSKA, Monika - ZEBROWSKI, Jacek - SOLECKA, Danuta - SZAL, Bozena. Altered Cell Wall Plasticity Can Restrict Plant Growth under Ammonium Nutrition. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

8. [1.1] QUADRELLI, Paolo. Cycloaddition reactions for anticancer compounds. In Modern Applications of Cycloaddition Chemistry, 2019-01-01, pp. 85-152., Registrované v: SCOPUS

ADDA52 FILIPPOV, M.P. - KOHN, Rudolf. Determination of composition of alginates by infrared spectroscopic method. In *Chemické zvesti*, 1974, vol. 28, p. 817-819. ISSN 0366-6352.

Ohlasy:

1. [1.1] AYARZA, Jorge - COELLO, Yves - NAKAMATSU, Javier. SEM-EDS study of ionically cross-linked alginate and alginic acid bead formation. In INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION. ISSN 1023-666X, 2017, vol. 22, no. 1, pp. 1-10., Registrované v: WOS

2. [1.1] FERNANDES, Renan da Silva - TANAKA, Fabricio Nunes - DE MOURA, Marcia Regina - AOUADA, Fauze Ahmad. Development of alginate/starch-based hydrogels crosslinked with different ions: Hydrophilic, kinetic and spectroscopic properties. In MATERIALS TODAY COMMUNICATIONS. ISSN 2352-4928, 2019, vol. 21, no., pp., Registrované v: WOS

3. [1.1] GRETHE, Thomas - HAASE, Hajo - NATARAJAN, Hariharasudan - LIMANDOKO, Nadia - MAHLTIG, Boris. Coating process for antimicrobial textile surfaces derived from a polyester dyeing process. In JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH. ISSN 1945-9645, 2015, vol. 12, no. 6, pp. 1133-1141., Registrované v: WOS

4. [1.1] LANDA-CANSIGNO, Cristina - HERNANDEZ-CARMONA, Gustavo - LUZ ARVIZU-HIGUERA, Dora - MUNOZ-OCHOA, Mauricio - JUDITH HERNANDEZ-GUERRERO, Claudia. Bimonthly variation in the chemical composition and biological activity of the brown seaweed *Eisenia arborea* (Laminariales: Ochrophyta) from Bahia Magdalena, Baja California Sur, Mexico. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2017, vol. 29, no. 5, pp. 2605-2615., Registrované v: WOS

5. [1.1] PATEL, Mitulkumar A. - ABOUGHALY, Mohamed H. H. - SCHRYER-PRAGA, Jacqueline V. - CHADWICK, Keith. The effect of ionotropic gelation residence time on alginate cross-linking and properties. In

CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 362-371., Registrované v: WOS

6. [1.1] PEREIRA, Leonel - RIBEIRO-CLARO, Paulo J. A. Analysis by Vibrational Spectroscopy of Seaweed with Potential Use in Food, Pharmaceutical and Cosmetic Industries. In MARINE ALGAE: BIODIVERSITY, TAXONOMY, ENVIRONMENTAL ASSESSMENT, AND

BIOTECHNOLOGY, 2015, vol., no., pp. 228-250., Registrované v: WOS

7. [1.1] WANG, Minqi - DOI, Takahiko - HU, Xiaoyan - MCCLEMENTS, David Julian. Influence of ionic strength on the thermostability and flavor (allyl methyl disulfide) release profiles of calcium alginate microgels. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 93, no., pp. 24-33., Registrované v: WOS

8. [1.1] XUE, Chen - WILSON, Lee D. A structural study of self-assembled chitosan-based sponge materials. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 206, no., pp. 685-693., Registrované v: WOS

9. [1.1] YOUSSEF, Latufa - LALLEMAND, Laura - GIRAUD, Pierre - SOULE, Faiza - BHAW-LUXIMON, Archana - MEILHAC, Olivier - D'HELLEN COURT, Christian Lefebvre - JHURRY, Dhanjay - COUPRIE, Joel. Ultrasound-assisted extraction and structural characterization by NMR of alginates and carrageenans from seaweeds. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 166, no., pp. 55-63., Registrované v: WOS

ADDA53 FILIPPOV, M.P. - LUKNÁR, O. - KOHN, Rudolf. Infrared spectra of the acetyl derivatives of pectin. I. Potassium salts of the citrus pectic acid with different degrees of acetylation. In *Chemické zvesti*, 1978, vol. 32, p. 211-217. ISSN 0366-6352.

Ohlasy:

1. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin - BATSALOVA, Tsvetelina G. - DZHAMBASOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS

ADDA54 FIRÁKOVÁ, Zuzana, Zemková - GARAJOVÁ, Soňa - FLODROVÁ, Dana - ŘEHULKA, Pavel - ZELKO, Ivan - VADKERTIOVÁ, Renáta - FARKAŠ, Vladimír - STRATILOVÁ, Eva. Incorporation of beta-(1,6)-linked glucooligosaccharides (pustulooligosaccharides) into plant cell wall structures. In *Chemical papers*, 2012, vol. 66, p. 814-820. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0167-x>

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017,

vol. 36, no. 3, pp. 255-422., Registrované v: WOS

2. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS

ADDA55 GÉCIOVÁ, Renáta - BABOR, K.. Characterization of starch from marsh mallow (*Althaea officinalis* L.). In *Chemical Papers*, 1992, vol. 46, p. 199-202. ISSN 0366-6352.

Ohlasy:

1. [1.1] HUSAIN, Mazhar - WADUD, Abdul - HAMIDUDDIN - SOFI, Gulamuddin - PERVEEN, Shaista - HAFEEZ, Khadeeja Abdul. Physicochemical standardization of mucilage obtained from *Althaea officinalis* Linn u Root. In PHARMACOGNOSY MAGAZINE. ISSN 0973-1296, 2019, vol. 15, no. 62, pp. 155-161., Registrované v: WOS

ADDA56 GEMEINER, Peter - BENEŠ, M.J. - ŠTAMBERG, J. Bead cellulose and its use in biochemistry and biotechnology. In *Chemical Papers - Chemické zvesti*, 1989, vol. 43, p. 805-848. ISSN 0366-6352.

Ohlasy:

1. [1.1] ISLAM, Ehteshamul - KAUR, Gurkiran - BHATTACHARJEE, Debarati - SINGH, Suman - BISWAS, Ipsita - VERMA, Sanjeev K. Effect of cellulose beads on shear-thickening behavior in concentrated polymer dispersions. In COLLOID AND POLYMER SCIENCE. ISSN 0303-402X, 2018, vol. 296, no. 5, pp. 883-893., Registrované v: WOS

2. [1.1] LINDH, Jonas - RUAN, Changqing - STROMME, Maria - MIHRANYAN, Albert. Preparation of Porous Cellulose Beads via Introduction of Diamine Spacers. In LANGMUIR. ISSN 0743-7463, 2016, vol. 32, no. 22, pp. 5600-5607., Registrované v: WOS

ADDA57 GOMORY, A. - JEŽO, Ivan. A contribution to the synthesis of 2,4-diamino-2-methylbutane. In *Chemické zvesti*, 1953, vol. 7, p. 41-43. ISSN 0366-6352.

Ohlasy:

1. [1.1] PASQUIER, Benoit - EL-AHMAD, Youssef - FILOCHE-ROMME, Bruno - DUREUIL, Christine - FASSY, Florence - ABECASSIS, Pierre-Yves - MATHIEU, Magali - BERTRAND, Thomas - BENARD, Tsiala - BARRIERE, Cedric - EL BATTI, Samira - LETALLEC, Jean-Philippe - SONNEFRAUD, Veronique - BROLLO, Maurice - DELBARRE, Laurence - LOYAU, Veronique - PILORGE, Fabienne - BERTIN, Luc - RICHEPIN, Patrick - ARIGON, Jerome - LABROSSE, Jean-Robert - CLEMENT, Jacques - DURAND, Florence - COMBET, Romain - PERRAUT, Pierre - LEROY, Vincent - GAY, Frederic - LEFRANCOIS, Dominique - BRETIN, Francois - MARQUETTE, Jean-Pierre - MICHOT, Nadine - CARON, Anne - CASTELL, Christelle - SCHIO, Laurent - MCCORT, Gary - GOULAOUIC, Helene - GARCIA-ECHEVERRIA, Carlos - RONAN, Baptiste. Discovery of (2S)-8[(3R)-3-Methylmorpholin-4-yl]-1-(3-methyl-2-oxobutyl)-2-(trifluoromethyl)-3,4-dihydro-2H-pyrimido[1,2-a]pyrimidin-6-one: A Novel Potent and Selective

Inhibitor of Vps34 for the Treatment of Solid Tumors. In JOURNAL OF MEDICINAL CHEMISTRY, 2015, vol. 58, iss. 1, p. 376-400., Registrované v: WOS

ADDA58 HALAJ, Michal - CHVÁLOVÁ, Beáta - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Searching for microalgal species producing extracellular biopolymers. In *Chemical Papers*, 2018, vol. 72, p. 2673-2678. (2017: 0.963 - IF, Q4 - JCR, 0.306 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-018-0517-4>

Ohlasy:

1. [1.1] BERNARTS, Tom M. M. - GHEYSEN, Lore - FOUBERT, Imogen - HENDRICKX, Marc E. - VAN LOEY, Ann M. The potential of microalgae and their biopolymers as structuring ingredients in food: A review. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2019, vol. 37, no. 8, pp., Registrované v: WOS
2. [1.1] BHATNAGAR, Monica - BHATNAGAR, Ashish. Diversity of Polysaccharides in Cyanobacteria. In MICROBIAL DIVERSITY IN ECOSYSTEM SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS: VOL 1. MICROBIAL DIVERSITY IN NORMAL & EXTREME ENVIRONMENTS, 2019, vol., no., pp. 447-496., Registrované v: WOS
3. [1.1] NAVEED, Sadiq - LI, Chonghua - LU, Xinda - CHEN, Shuangshuang - YIN, Bin - ZHANG, Chunhua - GE, Ying. Microalgal extracellular polymeric substances and their interactions with metal(loid)s: A review. In CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1064-3389, 2019, vol. 49, no. 19, pp. 1769-1802., Registrované v: WOS
4. [1.1] ZHANG, Jianzhi - LIU, Lu - CHEN, Feng. Production and characterization of exopolysaccharides from *Chlorella zofingiensis* and *Chlorella vulgaris* with anti-colorectal cancer activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 134, no., pp. 976-983., Registrované v: WOS

ADDA59 HIRSCH, Ján - KOŮŠ, Miroslav. Simple synthesis of methyl 2-O- β -D-xylopyranosyl- α -L-arabinofuranoside, a fragment of natural arabinoglucuronoxylans. In *Chemical Papers - Chemické zvesti*, 2005, vol. 59, p. 21-24. ISSN 0366-6352.

Ohlasy:

1. [1.1] IGA, Dumitru Petru - POPESCU, Dumitru - DUICA, Florentina. The Use of Exoglycosidases for the Assay of Two New Enzymatic Substrates, beta-D-xylopyranosyl-4-nitrocatechol-1-yl and alpha-lactosyl-4-nitrocatechol-1-yl. In REVISTA DE CHIMIE. ISSN 0034-7752, 2017, vol. 68, no. 8, pp. 1771-1775., Registrované v: WOS
2. [1.1] IGA, Dumitru Petru - POPESCU, Dumitru - GITMAN, Silvia. Alternate Modulation of Biological Activity of Stress Molecule, beta-D-glucopyranosyl-cholesterol, by Chemical Modification of Sugar Moiety Hypotheses concerning biochemical meaning of the new glycosides. In REVISTA DE CHIMIE. ISSN 0034-7752, 2019, vol. 70, no. 11, pp. 3987-3990., Registrované v: WOS

ADDA60 HIRSCH, Ján - KOÓŠ, Miroslav - TVAROŠKA, Igor. Synthesis of saccharide precursors for preparation of potential inhibitors of glycosyltransferases. Igor Tvaroška. In *Chemical papers*, 2009, vol. 63, no. 3, p.329-335. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO, Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming. Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>., Registrované v: WOS

ADDA61 HLAVATÝ, Jaroslav - KARÁCSONYI, Štefan - ALFOLDI, Juraj. Preparation of methyl 6-O- β -D-galactopyranosyl- α - and β -D-galactopyranosides. In *Chemical Papers - Chemické zvesti*, 1988, vol. 42, p. 519-525. ISSN 0366-6352.

Ohlasy:

1. [1.1] PATEL, Krishnakant - SONG, Fengling - ANDREANA, Peter R. Synthesis of substrate analogues as potential inhibitors for Mycobacterium tuberculosis enzyme MshC. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 453-454, no., pp. 10-18., Registrované v: WOS

ADDA62 HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Pro-oxidative effect of peroxynitrite regarding biological systems: a special focus on high-molar-mass hyaluronan degradation. In *General Physiology and Biophysics*, 2011, vol. 30, p. 223-238. (2010: 1.146 - IF, Q4 - JCR, 0.400 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0231-5882. ITMS-26220120054. Dostupné na: https://doi.org/10.4149/gpb_2011_03_223

Ohlasy:

1. [1.1] BOGDANOV, A.V. - KOSTENKO, V.A. Effects of peroxynitrite scavengers on oxidative metabolism in periodontal tissues of rats under excessive combined sodium nitrate and fluoride intake. In *WORLD OF MEDICINE AND BIOLOGY*. ISSN 2079-8334, 2016, no. 3, p. 95-98., Registrované v: WOS

2. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY*, VOL 74. ISSN 0065-2318, 2017, vol. 74, pp. 1-59., Registrované v: WOS

3. [1.1] ISLAM, M.A. - AL MAMUN, M.A. - FARUK, M. - UL ISLAM, M.T. - RAHMAN, M.M. - ALAM, M.N. - RAHMAN, A.F.M.T. - REZA, H.M. - ALAM, M.A. Astaxanthin Ameliorates Hepatic Damage and Oxidative Stress in Carbon Tetrachloride-administered Rats. In *PHARMACOGNOSY RESEARCH*. ISSN 0974-8490, 2017, vol. 9, p. S84-S91., Registrované v: WOS

4. [1.1] KOŁODZIEJCZYK-CZEPAS, J. - KRZYŻANOWSKA-KOWALCZYK, J. - SIERADZKA, M. - NOWAK, P. - STOCHMAL, A. Clovamide and clovamide-rich extracts of three Trifolium species as antioxidants and moderate antiplatelet agents in vitro. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2017, vol. 143, p. 54-63., Registrované

v: WOS

5. [1.1] KONG, X.Q. - CHENA, L. - YEA, P. - WANG, Z.M. - ZHANG, J.J. - YE, F. - CHEN, S.L. The role of HYAL2 in LSS-induced glycocalyx impairment and the PKA-mediated decrease in eNOS-Ser-633 phosphorylation and nitric oxide production. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, 2016, vol. 27, no. 25, p. 3972-3979., Registrované v: WOS
6. [1.1] LALL, R.K. - SYED, D.N. - KHAN, M.I. - ADHAMI, V.M. - GONG, Y.S. - LUCEY, J.A. - MUKHTAR, H. Dietary flavonoid fisetin increases abundance of high-molecular-mass hyaluronan conferring resistance to prostate oncogenesis. In CARCINOGENESIS. ISSN 0143-3334, 2016, vol. 37, no. 9, p. 918-928, Registrované v: WOS
7. [1.1] LI, Y.Y. - WU, Y.Q. - CHEN, L.Y. - ZENG, H. - CHEN, X.Y. - LUN, W.C. - FAN, X.L. - WONG, W.Y. A time-resolved near-infrared phosphorescent iridium(iii) complex for fast and highly specific peroxynitrite detection and bioimaging applications. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2019, vol. 7, no. 47, p. 7612-7618., Registrované v: WOS
8. [1.1] MAJERCZAK, J. - DUDA, K. - CHLOPICKI, S. - BARTOSZ, G. - ZAKRZEWSKA, A. - BALCERCZYK, A. - SMOLEŃSKI, R. T. - ZOLADZ, J. A. Endothelial glycocalyx integrity is preserved in young, healthy men during a single bout of strenuous physical exercise. In PHYSIOLOGICAL RESEARCH. ISSN 0862-8408, 2016, vol. 65, no. 2, p. 281-291., Registrované v: WOS
9. [1.1] MENDE, M. - BEDNAREK, C. - WAWRYSZYN, M. - SAUTER, P. - BISKUP, M.B. - SCHEPERS, U. - BRASE, S. Chemical Synthesis of Glycosaminoglycans. In CHEMICAL REVIEWS. ISSN 0009-2665, JUL 27 2016, vol. 116, no. 14, p. 8193-8255., Registrované v: WOS
10. [1.1] MISRA, S. - HASCALL, V.C. - MARKWALD, R.R. - GHATAK, S. Interactions between hyaluronan and its receptors (CD44, RHAMM) regulate the activities of inflammation and cancer. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2015, vol. 6, article number 201., Registrované v: WOS
11. [1.1] NIKITOVIC, D. - TZARDI, M. - BERDIAKI, A. - TSATSAKIS, A. - TZANAKAKIS, G.N. Cancer microenvironment and inflammation: Role of hyaluronan. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2015, vol. 6, article number UNSP 169., Registrované v: WOS
12. [1.1] PIRES, A.S. - MARQUES, C.R. - ENCARNACAO, J.C. - ABRANTES, A.M. - MAMEDE, A.C. - LARANJO, M. - GONCALVES, A.C. - SARMENTO-RIBEIRO, A.B. - BOTELHO, M.F. Ascorbic acid and colon cancer: an oxidative stimulus to cell death depending on cell profile. In EUROPEAN JOURNAL OF CELL BIOLOGY. ISSN 0171-9335, 2016, vol. 95, no. 6-7, p. 208-218., Registrované v: WOS
13. [1.1] SAVANI, R.C. Modulators of inflammation in Bronchopulmonary Dysplasia. In SEMINARS IN PERINATOLOGY. ISSN 0146-0005, 2018, vol. 42, no. 7, pp. 459-470., Registrované v: WOS
14. [1.1] SINGH, R. - DEVI, S. - GOLLEN, R. Role of free radical in atherosclerosis, diabetes and dyslipidaemia: larger-than-life. In DIABETES-METABOLISM RESEARCH AND REVIEWS. ISSN 1520-7560, 2015, vol. 31, no. 2, p. 113-126., Registrované v: WOS

15. [1.1] TUNC-ATA, M. - MERGEN-DALYANOGLU, M. - TURGUT, S. - TURGUT, G. Effect of acute and chronic exercise on plasma matrix metalloproteinase and total antioxidant levels. In JOURNAL OF EXERCISE REHABILITATION. ISSN 2288-176X, 2017, vol. 13, no. 5, p. 508-513., Registrované v: WOS
16. [1.1] VALLS, N. - GORMAZ, J.G. - AGUAYO, R. - GONZALEZ, J. - BRITO, R. - HASSON, D. - LIBUY, M. - RAMOS, C. - CARRASCO, R. - PRIETO, J.C. - DUSSAILLANT, G. - PUENTES, A. - NORIEGA, V. - RODRIGO, R. Amelioration of persistent left ventricular function impairment through increased plasma ascorbate levels following myocardial infarction. In REDOX REPORT. ISSN 1351-0002, 2016, vol. 21, no. 2, p. 75-83., Registrované v: WOS
17. [1.2] SAVANI, Rashmin C. The Biochemistry of Endothelial Cells. (Book Chapter). In COMPARATIVE BIOLOGY OF THE NORMAL LUNG: Second Edition. Elsevier, 2015, p. 375-386, ISBN: 978-012404577-4;978-012404726-6, Registrované v: SCOPUS
18. [3.1] GILFILLANA MARGARET - BHANDARI VINEET. Immune modulators for the therapy of BPD.(Book Chapter). In TANTALIZING THERAPEUTICS IN BRONCHOPULMONARY DYSPLASIA. ISBN 978-0-12-818987-0, 2020, Academic Press, p. 207-231. doi: 10.1016/B978-0-12-818987-0.00011-4
19. [3.1] JOHN IBRAHIM J. - GARANTZIOTIS S. - SAVANI R.C. Chapter 9 - The Inflammation Superhighway: Tolls, Signals, and Pathways to Bronchopulmonary Dysplasia. (Book Chapter). In UPDATES ON NEONATAL CHRONIC LUNG DISEASE. ISBN 978-0-323-68353-1, 2020, P. 131-150. <https://doi.org/10.1016/B978-0-323-68353-1.00009-9>

ADDA63 HRICOVÍNIOVÁ, Zuzana** - HRICOVÍNÍ, Michal - KOZICS, Katarína. New series of quinazolinone derived Schiff's bases: synthesis, spectroscopic properties and evaluation of their antioxidant and cytotoxic activity. In *Chemical Papers*, 2018, vol. 72, no. 4, p. 1041-1053. (2017: 0.963 - IF, Q4 - JCR, 0.306 - SJR, Q2 - SJR, Current Contents - CCC). (2018 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-017-0345-y>

Ohlasy:

1. [1.1] BULDURUN, Kenan - TURAN, Nevin - ARAS, Abdulmelik - MANTARCI, Asim - TURKAN, Fikret - BURSAL, Ercan. Spectroscopic and Structural Characterization, Enzyme Inhibitions, and Antioxidant Effects of New Ru(II) and Ni(II) Complexes of Schiff Base. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2019, vol. 16, no. 8, pp., Registrované v: WOS
2. [1.1] BULDURUN, Kenan - TURAN, Nevin - BURSAL, Ercan - MANTARCI, Asim - TURKAN, Fikret - TASLIMI, Parham - GULCIN, İlhami. Synthesis, spectroscopic properties, crystal structures, antioxidant activities and enzyme inhibition determination of Co(II) and Fe(II) complexes of Schiff base. In RESEARCH ON CHEMICAL INTERMEDIATES. ISSN 0922-6168, 2020, vol. 46, no. 1, pp. 283-297. Dostupné na: <https://doi.org/10.1007/s11164-019-03949-3>, Registrované v: WOS
3. [1.1] SALEM, Marwa Sayed - AL-MABROOK, Selima Ali Mohamed - EL-HASHASH, Maher Abd El-Aziz Mahmoud. Synthesis and antiproliferative evaluation of some novel quinazolin-4(3H)-one derivatives. In

JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2020, vol. 57, no. 11, pp. 3898-3906. Dostupné na: <https://doi.org/10.1002/jhet.4096>, Registrované v: WOS

4. [1.1] SUN, Ya-Quan - ZONG, Chao-Yang - JI, Jin-Yu - HAN, Qing. Efficient and library-friendly synthesis of 4-N-substituted 6-bromopyrido[2,3-d]pyrimidines under microwave irradiation. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 2965-2972., Registrované v: WOS

5. [3.1] VINUSHA H. M.; SHIVA PRASAD Kollur; REVANASIDDAPPA H. D.; RAMITH Ramu, PRITHVI S. Shirahatti, NAGENDRA Prasad M. N., CHANDRASHEKAR S, MUNEEERA Begum. Preparation, spectral characterization and biological applications of Schiff base ligand and its transition metal complexes. In Results in Chemistry, 2019, 1, art. no. 100012.

ADDA64 HRICOVÍNIOVÁ, Zuzana - BABOR, K.. Saccharide constituents of horse chestnut (*Aesculus hippocastanum*) seeds I. Monocaccharides and their isolation. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1991, vol. 45, p. 553-558. ISSN 0366-6352.

Ohlasy:

1. [1.1] THOMAS, Peter A. - ALHAMD, Omar - ISZKULO, Grzegorz - DERING, Monika - MUKASSABI, Tarek A. Biological Flora of the British Isles: *Aesculus hippocastanum*. In JOURNAL OF ECOLOGY. ISSN 0022-0477, 2019, vol. 107, no. 2, pp. 992-1030., Registrované v: WOS

ADDA65 HROMÁDKOVÁ, Zdenka - HIRSCH, Ján - EBRINGEROVÁ, Anna.

Chemical evaluation of Fallopia species leaves and antioxidant properties of their non-cellulosic polysaccharides. In *Chemical papers*, 2010, vol. 64, p. 663-672. (2009: 0.791 - IF, Q3 - JCR, 0.245 - SJR, Q2 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-010-0054-2>

Ohlasy:

1. [1.1] ARTURI, Katarzyna R. - KUCHERYAVSKIY, Sergey - NIELSEN, Rudi P. - MASCHIETTI, Marco - VOGEL, Frederic - BJELIC, Sasa - SOGAARD, Erik G. Molecular footprint of co-solvents in hydrothermal liquefaction (HTL) of Fallopia Japonica. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2019, vol. 143, no., pp. 211-222., Registrované v: WOS

2. [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS

3. [1.1] BEKESI-KALLENBERGER, Helena - HORVATH, Gyorgyi - BENCSIK, Timea - BALAZS, Viktoria Lilla - FILEP, Rita - PAPP, Nora. Comparative Histological and Phytochemical Study of Fallopia species. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2016, vol. 11, no. 2, pp. 251-254., Registrované v: WOS

4. [1.1] GOWDHAMAN, D. - PONNUSAMI, V. Production and optimization of xylooligosaccharides from corncob by *Bacillus aerophilus* KGJ2

xylanase and its antioxidant potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2015, vol. 79, no., pp. 595-600., Registrované v: WOS

5. [1.1] KOCE, Jasna Dolenc - SOLN, Katarina. Phytotoxic effects of Fallopia japonica and F.xbohemica leaves. In PHYTON-ANNALES REI BOTANICAE. ISSN 0079-2047, 2017, vol. 57, no. 1-2, pp. 47-58., Registrované v: WOS

6. [1.1] MISHRA, Abhay Prakash - SHARIFI-RAD, Mehdi - SHARIATI, Mohammad Ali - MABKHOT, Yahia N. - AL-SHOWIMAN, Salim S. - RAUF, Abdur - SALEHI, Bahare - ZUPUNSKI, Milan - SHARIFI-RAD, Majid - GUSAIN, Poonam - SHARIFI-RAD, Javad - SULERIA, Hafiz Ansar Rasul - IRITI, Marcello. Bioactive compounds and health benefits of edible Rumex species-A review. In CELLULAR AND MOLECULAR BIOLOGY. ISSN 0145-5680, 2018, vol. 64, no. 8, pp. 27-34., Registrované v: WOS

7. [1.1] OLESZEK, Marta - KOWALSKA, Iwona - OLESZEK, Wieslaw. Phytochemicals in bioenergy crops. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2019, vol. 18, no. 3, pp. 893-927., Registrované v: WOS

8. [1.1] ORBAN-GYAPAI, Orsolya - LAJTER, Ildiko - HOHMANN, Judit - JAKAB, Gusztav - VASAS, Andrea. Xanthine Oxidase Inhibitory Activity of Extracts Prepared from Polygonaceae Species. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2015, vol. 29, no. 3, pp. 459-465., Registrované v: WOS

9. [1.2] KALLENBERGER, H. Békésiné - HORVÁTH, Gy - BALOGH, L. - BALÁZS, V. L. - PAPP, N. Botanical, phytochemical and pharmaceutical characters of Fallopia species adventive in Hungary. In Botanikai Közlemények. ISSN 00068144, 2016-01-01, 103, 1, pp. 119-134., Registrované v: SCOPUS

ADDA66 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Isolation and characterization of hemicelluloses of corn hulls. In *Chemical Papers - Chemické zvesti*, 1995, vol. 49, p. 97-101. ISSN 0366-6352.

Ohlasy:

1. [1.1] ALI, Amjad - YU, Long - LIU, Hongsheng - KHALID, Saud - MENG, Linghan - CHEN, Ling. Preparation and characterization of starch-based composite films reinforced by corn and wheat hulls. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 32, pp., Registrované v: WOS

2. [1.1] HAMAKER, Bruce R. - TUNCIL, Yunus E. - SHEN, Xinyu. Carbohydrates of the Kernel. In CORN: CHEMISTRY AND TECHNOLOGY, 3RD EDITION, 2019, vol., no., pp. 305-318., Registrované v: WOS

3. [1.1] KANG, Ji - GUO, Qingbin - SHI, Yong-Cheng. NMR and methylation analysis of hemicellulose purified from corn bran. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 94, no., pp. 613-621., Registrované v: WOS

4. [1.1] SPASOJEVIC, Dragica - PROKOPIJEVIC, Milos - PRODANOVIC, Olivera - ZELENOVIC, Nevena - POLOVIC, Natalija - RADOTIC, Ksenija - PRODANOVIC, Radivoje. Peroxidase-Sensitive Tyramine Carboxymethyl Xylan Hydrogels for Enzyme Encapsulation. In

- ADDA67 HÚSKA, J. - ZÁVADSKÁ, I. - TÓTH, D. - DOBROTOVÁ, M. - GEMEINER, Peter. Immobilization of surfactant degrading bacteria in alginate gel. In *Biologia*, 1996, vol. 51, p. 279-283. (1995: 0.079 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0006-3088.
Ohlasy:
1. [1.1] SIMO, Guillermo - FERNANDEZ-FERNANDEZ, Encarnacion - VILA-CRESPO, Josefina - RUIPEREZ, Violeta - MANUEL RODRIGUEZ-NOGALES, Jose. Research progress in coating techniques of alginate gel polymer for cell encapsulation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 170, no., pp. 1-14., Registrované v: WOS
- ADDA68 ILLKOVÁ, Kateřina - FIRÁKOVÁ, Zuzana, Zemková - FLODROVÁ, Dana - JÄGER, Jakub - BENKOVSKÁ, Dagmar - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - BOBÁLOVÁ, Janette - STRATILOVÁ, Eva. Production of *Geotrichum candidum* polygalacturonases via solid state fermentation on grape pomace. In *Chemical Papers*, 2012, vol. 66, p. 852-860. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0189-4>
Ohlasy:
1. [1.1] AHMED, Asia - KHAN, Muhammad Naseem - AHMAD, Aqeel - KHAN, Shakeel Ahmed - SOHAIL, Muhammad. OPTIMIZATION OF PECTINASE PRODUCTION FROM *GEOTRICHUM CANDIDUM* AA15 USING RESPONSE SURFACE METHODOLOGY. In *PAKISTAN JOURNAL OF BOTANY*. ISSN 0556-3321, 2019, vol. 51, no. 2, pp. 743-750., Registrované v: WOS
2. [1.1] EJAZ, Uroosa - AHMED, Asia - SOHAIL, Muhammad. Statistical optimization of immobilization of yeast cells on corncob for pectinase production. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 14, no., pp. 450-456., Registrované v: WOS
3. [1.1] ZHU, Mingming - HE, Hongju - FAN, Mingtao - MA, Hanjun - REN, Haiwei - ZENG, Jie - GAO, Haiyan. Application and optimization of solid-state fermentation process for enhancing polygalacturonase production by *Penicillium expansum*. In *INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING*. ISSN 1934-6344, 2018, vol. 11, no. 6, pp. 187-194., Registrované v: WOS
- ADDA69 JANDA, L. - VOTICKÝ, Zdeno. Semisynthetic cephalosporins. I. An improved synthesis of 5-aryl-2-furancarboxylic acids. In *Chemické zvesti*, 1984, vol. 38, p. 507-513. ISSN 0366-6352.
Ohlasy:
1. [1.1] HASSAN, A. S. - OSMAN, Souad A. - HAFEZ, Taghrid S. 5-Phenyl-2-furaldehyde: Synthesis, Reactions and Biological Activities. In *EGYPTIAN JOURNAL OF CHEMISTRY*. ISSN 0449-2285, 2015, vol. 58, no. 2, pp. 113-139., Registrované v: WOS
2. [1.1] LEE, Hee Ju - LEE, Jae In. An Efficient Synthesis of N,N-Dialkyl-5-(chlorophenyl)-2-furancarbothioamides from 2-Furoic Acid. In

- ADDA70 JEŽO, Ivan - LUŽÁK, I. Aminolysis of sucrose. IV. Reaction of sucrose with aqueous solution of ethylenediamine. In *Chemické zvesti*, 1964, vol. 18, p. 186-198. ISSN 0366-6352.

Ohlasy:

1. [1.1] EFTEN'EVA, Renata I. - KUSHNIR, Oleg V. - LYAVINETS, Oleksandr S. - MANGALAGIU, Ionel I. - VOVK, Myhailo V. Synthesis of polyfunctionalized pyrido[1,2-a]pyrazines and pyrazino[1,2-a]quinolines via one-pot multicomponent reactions. In *MONATSHFTE FÜR CHEMIE*. ISSN 0026-9247, 2016, vol. 147, no. 12, pp. 2127-2133., Registrované v: WOS

- ADDA71 JEŽO, Ivan - ZEMEK, Juraj. Enzymatische Reduktion einiger aromatischer Carboxysäuren. In *Chemical Papers - Chemické zvesti*, 1986, vol. 40, p. 279-281. ISSN 0366-6352.

Ohlasy:

1. [1.1] AMARAL, Luciana da Silva - RODRIGUES-FILHO, Edson. Aryl carboxylic acid reduction and further reactions with GABA and glucose promoted by whole cells of *Xylaria arbuscula*. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2015, vol. 113, no., pp. 90-94., Registrované v: WOS
2. [1.1] KUNJAPUR, Aditya M. - PRATHER, Kristala L. J. Microbial Engineering for Aldehyde Synthesis. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2015, vol. 81, no. 6, pp. 1892-1901., Registrované v: WOS

- ADDA72 JÚDOVÁ, Jana - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Preparation of recombinant most abundant protein MRJP1 of royal jelly. In *Biologia*, 1998, vol. 53, p. 777-784. (1997: 0.283 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] BILIKOVA, Katarina - KRAKOVA, Tatiana Kristof - YAMAGUCHI, Kikuji - YAMAGUCHI, Yoshihisa. Major royal jelly proteins as markers of authenticity and quality of honey. In *ARHIV ZA Higijenu Rada I Toksikologiju-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY*. ISSN 0004-1254, 2015, vol. 66, no. 4, pp. 259-267., Registrované v: WOS
2. [1.1] MORIYAMA, Takanori - ITO, Aimi - OMOTE, Sumire - MIURA, Yuri - TSUMOTO, Hiroki. Heat Resistant Characteristics of Major Royal Jelly Protein 1 (MRJP1) Oligomer. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 5, pp., Registrované v: WOS
3. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
4. [1.1] TORRES-ACOSTA, Mario A. - AGUILAR-YANEZ, Jose M. - RITO-PALOMARES, Marco - TITCHENER-HOOKER, Nigel J. Economic Analysis of Royalactin Production Under Uncertainty: Evaluating the Effect of

Parameter Optimization. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2015, vol. 31, no. 3, pp. 744-749., Registrované v: WOS

5. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS

ADDA73 KAČÍKOVÁ, Danica - KAČÍK, František - BUBENÍKOVÁ, Tatiana - KOŠÍKOVÁ, Božena. Influence of fire on spruce wood lignin changes. In *Wood Research : Vol. 53, no. 4 (2009), pp. 95-104.* ISSN 1336-4561.

Ohlasy:

1. [1.1] OKON, Kufre Edet - LIN, Fengcai - CHEN, Yandan - HUANG, Biao. Effect of silicone oil heat treatment on the chemical composition, cellulose crystalline structure and contact angle of Chinese parasol wood. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 164, no., pp. 179-185., Registrované v: WOS

2. [1.1] RONNOLS, Jerk - SCHWEINEBARTH, Hannah - JACOBS, Anna - STEVANIC, Jasna S. - OLSSON, Anne-Mari - REIMANN, Anders - ALDAEUS, Fredrik. Structural changes in softwood kraft lignin during non-oxidative thermal treatment. In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2015, vol. 30, no. 4, pp. 550-561., Registrované v: WOS

3. [1.1] VYBOHOVA, Eva - KUCEROVA, Viera - ANDOR, Tomas - BALAZOVA, Zanita - VELKOVA, Veronika. The Effect of Heat Treatment on the Chemical Composition of Ash Wood. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8394-8408., Registrované v: WOS

4. [1.1] ZACHAR, Martin - MAJLINGOVA, Andrea - MITTEROVA, Iveta - CABALOVA, Iveta. INFLUENCE OF AN AGE AND DAMAGE OF THE OAK WOOD ON ITS FIRE RISK. In WOOD RESEARCH. ISSN 1336-4561, 2017, vol. 62, no. 3, pp. 495-504., Registrované v: WOS

ADDA74 Kardošová, Alžbeta - Rošík, Jozef. ¹³C NMR spectra of 2-O-β-D-glucopyranosylurono-D-mannopyranose and 6-O-β-D-glucopyranosylurono-D-galactopyranose. In *Chemical Papers - Chemické zvesti*, 1986, vol. 40, p. 89-94. ISSN 0366-6352.

Ohlasy:

1. [1.1] DE SOUSA, Marcelo - TEODORO MARTINEZ, Diego Stefani - ALVES, Oswaldo Luiz. Alternative mannosylation method for nanomaterials: application to oxidized debris-free multiwalled carbon nanotubes. In JOURNAL OF NANOPARTICLE RESEARCH. ISSN 1388-0764, 2016, vol. 18, no. 6, pp., Registrované v: WOS

ADDA75 KLAUDINY, Jaroslav - BACHANOVA, K. - KOHÚTOVÁ, Lenka - DZÚROVÁ, Mária - KOPERNICKY, J. - MAJTÁN, Juraj. Expression of larval jelly antimicrobial peptide defensin1 in *Apis mellifera* colonies. In *Biologia : journal of the Slovak Academy of Science*, 2012, vol. 67, no. 1, p. 200-211. (2011: 0.557 - IF, Q4 - JCR, 0.256 - SJR, Q3 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-011-0153-8>

Ohlasy:

1. [1.1] HARWOOD, Gyan - AMDAM, Gro - FREITAK, Dalial. The role of Vitellogenin in the transfer of immune elicitors from gut to hypopharyngeal glands in honey bees (*Apis mellifera*). In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2019, vol. 112, no., pp. 90-100., Registrované v: WOS
2. [1.1] LOPEZ-URIBE, Margarita M. - FITZGERALD, Andrea - SIMONE-FINSTROM, Michael. Inducible versus constitutive social immunity: examining effects of colony infection on glucose oxidase and defensin-1 production in honeybees. In ROYAL SOCIETY OPEN SCIENCE. ISSN 2054-5703, 2017, vol. 4, no. 5, pp., Registrované v: WOS
3. [1.1] SEDIVA, Maria - KLAUDINY, Jaroslav. The Antimicrobial Substances of Royal Jelly. In CHEMICKE LISTY. ISSN 0009-2770, 2015, vol. 109, no. 10, pp. 755-761., Registrované v: WOS
4. [1.1] STASTNY, Matus - GASPER, Jaroslav - BAUER, Miroslav. Genetic structure of *Apis mellifera carnica* in Slovakia based on microsatellite DNA polymorphism. In BIOLOGIA. ISSN 0006-3088, 2017, vol. 72, no. 11, pp. 1341-1346., Registrované v: WOS
5. [1.1] VANNETTE, Rachel L. - MOHAMED, Abbas - JOHNSON, Brian R. Forager bees (*Apis mellifera*) highly express immune and detoxification genes in tissues associated with nectar processing. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2015, vol. 5, no., pp., Registrované v: WOS
6. [1.2] FUSELLI, Sandra Rosa - CUGNATA, Noelia Melina - MARÍNEZ, Pablo Giménez - ALONSO-SALCES, Rosa María. Control and prevention of American foulbrood in honey bees. In Control and Prevention of American Foulbrood in Honey Bees, 2017-01-01, pp. 1-128., Registrované v: SCOPUS

ADDA76 KLUNDA, Tomáš - MACHOVÁ, Eva - ČÍŽOVÁ, Alžbeta - HORÁK, Radim - POLÁKOVÁ, Monika - BYSTRICKÝ, Slavomír. Alkyl glycosides are potential anti-*Candida albicans* growth agents. In *Chemical Papers*, 2016, vol. 70, no. 9, p. 1166-1170. (2015: 1.326 - IF, Q3 - JCR, 0.369 - SJR, Q2 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2016-0051>

Ohlasy:

1. [1.1] KUMAR, Ajay - KHAN, Feroz - SAIKIA, Dharmendra. Exploration of Medicinal Plants as Sources of Novel Anticandidal Drugs. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2019, vol. 19, no. 28, pp. 2579-2592., Registrované v: WOS

ADDA77 KOHN, Rudolf - FURDA, I. Binding of calcium ions to acetyl derivatives of pectin. In *Collection of Czechoslovak Chemical Communications*, 1968, vol. 33, p. 2217-2225. ISSN 0010-0765.

Ohlasy:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS

2. [1.1] GUO, Xiaoming - MENG, Hecheng - TANG, Qiang - PAN, Runquan - ZHU, Siming - YU, Shujuan. Effects of the precipitation pH on the ethanolic precipitation of sugar beet pectins. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 52, no., pp. 431-437., Registrované v: WOS

ADDA78 KOHN, Rudolf - MARKOVIČ, Oskar - MACHOVÁ, Eva. Deesterification mode of pectin by pectiesterases of *Aspergillus foetidus*, tomatoes, and alfalfa. In *Collection of Czechoslovak Chemical Communications*, 1983, vol. 48, p. 790-792. ISSN 0010-0765.

Ohlasy:

1. [1.1] LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. A Pectin Methylesterase Inhibitor Enhances Resistance to *Verticillium Wilt*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS
2. [1.1] VOLPE, M. G. - SANTAGATA, G. - COCCIA, E. - DI STASIO, M. - MALINCONICO, M. - PAOLUCCI, M. Pectin-based pellets for crayfish aquaculture: structural and functional characteristics and effects on redclaw *Cherax quadricarinatus* performances. In *AQUACULTURE NUTRITION*. ISSN 1353-5773, 2015, vol. 21, no. 6, pp. 814-823., Registrované v: WOS

ADDA79 KOHN, Rudolf - MALOVÍKOVÁ, Anna. Dissociation of acetyl derivatives of pectic acid and intramolecular binding of calcium ions to those substances. In *Collection of Czechoslovak Chemical Communications*, 1978, vol. 43, p. 1709-1719. ISSN 0010-0765.

Ohlasy:

1. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS

ADDA80 KOHN, Rudolf - KOVÁČ, Pavol. Dissociation constants of D-galacturonic and D-glucuronic acids and their O-methyl derivatives. In *Chemické zvesti*, 1978, vol. 32, p. 478-485. ISSN 0366-6352.

Ohlasy:

1. [1.1] ALLAN, Matthew C. - RAJWA, Bartek - MAUER, Lisa J. Effects of sugars and sugar alcohols on the gelatinization temperature of wheat starch. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 84, no., pp. 593-607., Registrované v: WOS
2. [1.1] ASMADI, Mohd - KAWAMOTO, Haruo - SAKA, Shiro. Characteristics of softwood and hardwood pyrolysis in an ampoule reactor. In *JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS*. ISSN 0165-2370, 2017, vol. 124, no., pp. 523-535., Registrované v: WOS
3. [1.1] BERTSCH, Pascal - THOMA, Alexandra - BERGFREUND, Jotam - GEUE, Thomas - FISCHER, Peter. Transient measurement and structure analysis of protein-polysaccharide multilayers at fluid interfaces. In *SOFT MATTER*. ISSN 1744-683X, 2019, vol. 15, no. 31, pp. 6362-6368., Registrované v: WOS
4. [1.1] BRANNVALL, Elisabet. The Limits of Delignification in Kraft

- Cooking. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 2081-2107., Registrované v: WOS
5. [1.1] DE LA GREE, G. C. H. Doudart - CAPRAI, V. - VAN DAM, J. E. G. - VAN AS, H. - BROUWERS, H. J. H. - YU, Q. L. Ionic interaction and liquid absorption by wood in lignocellulose inorganic mineral binder composites. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2019, vol. 206, no., pp. 808-818., Registrované v: WOS
6. [1.1] DE LEON-RODRIGUEZ, Carlos M. - FU, Man Shun - OSMAN CORBALI, M. - CORDERO, Radames J. B. - CASADEVALL, Arturo. The Capsule of *Cryptococcus neoformans* Modulates Phagosomal pH through Its Acid-Base Properties. In MSPHERE. ISSN 2379-5042, 2018, vol. 3, no. 5, pp., Registrované v: WOS
7. [1.1] FAHAMI, Arezoo - FATHI, Milad. Development of cress seed mucilage/PVA nanofibers as a novel carrier for vitamin A delivery. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 81, no., pp. 31-38., Registrované v: WOS
8. [1.1] FERNANDES, Pedro A. R. - SILVA, Artur M. S. - EVTUGUIN, Dmitry V. - NUNES, Fernando M. - WESSEL, Dulcineia F. - CARDOSO, Susana M. - COIMBRA, Manuel A. The hydrophobic polysaccharides of apple pomace. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2019, vol. 223, no., pp., Registrované v: WOS
9. [1.1] GAWKOWSKA, Diana - CIESLA, Jolanta - ZDUNEK, Artur - CYBULSKA, Justyna. Cross-linking of diluted alkali-soluble pectin from apple (*Malus domestica* fruit) in different acid-base conditions. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2019, vol. 92, no., pp. 285-292., Registrované v: WOS
10. [1.1] GAWKOWSKA, Diana - CIESLA, Jolanta - ZDUNEK, Artur - CYBULSKA, Justyna. The Effect of Concentration on the Cross-Linking and Gelling of Sodium Carbonate-Soluble Apple Pectins. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 8, pp., Registrované v: WOS
11. [1.1] GHANTA, Mohankrishna - PANCHANATHAN, Elango - LAKKAKULA, Bhaskar Venkata Kameswara Subrahmanya - NARAYANASWAMY, Anbumani - ABHINAND, P. A. - ANTONY, Stalin. Molecular docking analysis of phytoconstituent from *Momordica charantia* with Guanylate Cyclase catalytic domain. In BIOINFORMATION. ISSN 0973-8894, 2018, vol. 14, no. 7, pp. 378-383., Registrované v: WOS
12. [1.1] GLASSON, Christopher R. K. - SIMS, Ian M. - CARNACHAN, Susan M. - DE NYS, Rocky - MAGNUSSON, Marie. A cascading biorefinery process targeting sulfated polysaccharides (ulvan) from *Ulva ohnoi*. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, 2017, vol. 27, no., pp. 383-391., Registrované v: WOS
13. [1.1] GREIN-IANKOVSKI, Aline - FERREIRA, Jose G. L. - ORTH, Elisa S. - SIERAKOWSKI, Maria-Rita - CARDOSO, Mateus Borba - SIMAS, Fernanda F. - RIEGEL-VIDOTTI, Izabel C. A comprehensive study of the relation between structural and physical chemical properties of acacia gums. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 85, no., pp. 167-175., Registrované v: WOS
14. [1.1] HUNG, Po-Yuan - LAI, Lih-Shiuh. Structural characterization and rheological properties of the water extracted mucilage of *Basella alba* and the starch/aqueous mucilage blends. In FOOD HYDROCOLLOIDS. ISSN

- 0268-005X, 2019, vol. 93, no., pp. 413-421., Registrované v: WOS
15. [1.1] JAMIL, Tariq - GISSINGER, Jacob R. - GARLEY, Amanda - SAIKIA, Nabanita - UPADHYAY, Arun K. - HEINZ, Hendrik. Dynamics of carbohydrate strands in water and interactions with clay minerals: influence of pH, surface chemistry, and electrolytes. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 23, pp. 11183-11194., Registrované v: WOS
 16. [1.1] JANNASARI, Nafiseh - FATHI, Milad - MOSHTAGHIAN, Seyed Jamal - ABBASPOURRAD, Alireza. Microencapsulation of vitamin D using gelatin and cress seed mucilage: Production, characterization and in vivo study. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2019, vol. 129, no., pp. 972-979., Registrované v: WOS
 17. [1.1] KAVOUSHI, Hamid R. - FATHI, Milad - GOLI, Seyed A. H. Novel cress seed mucilage and sodium caseinate microparticles for encapsulation of curcumin: An approach for controlled release. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2018, vol. 110, no., pp. 126-135., Registrované v: WOS
 18. [1.1] MANAWI, Yehia - MCKAY, Gordon - ISMAIL, Norafiqah - FARD, Ahmad Kayvani - KOCHKODAN, Viktor - ATIEH, Muataz Ali. Enhancing lead removal from water by complex-assisted filtration with acacia gum. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 352, no., pp. 828-836., Registrované v: WOS
 19. [1.1] MARTIN, Kerli - NOGES, Juuli - HAAV, Kristjan - KADAM, Sandip A. - PUNG, Astrid - LEITO, Ivo. Exploring Selectivity of 22 Acyclic Urea-, Carbazole- and Indolocarbazole-Based Receptors towards 11 Monocarboxylates. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2017, vol., no. 35, pp. 5231-5237., Registrované v: WOS
 20. [1.1] MAUTNER, Andreas - MAPLES, Henry A. - SEHAQUI, Houssine - ZIMMERMANN, Tanja - PEREZ DE LARRAYA, Uxua - MATHEW, Aji P. - LAI, Chi Yan - LI, Kang - BISMARCK, Alexander. Nitrate removal from water using a nanopaper ion-exchanger. In ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY. ISSN 2053-1400, 2016, vol. 2, no. 1, pp. 117-124., Registrované v: WOS
 21. [1.1] MRIDULA - NATH, Mala. Equilibrium and Multinuclear NMR Spectroscopic Studies of Di- and Trimethyltin(IV) Moieties with Hydroxycarboxylic Acids in Aqueous Medium. In JOURNAL OF SOLUTION CHEMISTRY. ISSN 0095-9782, 2016, vol. 45, no. 3, pp. 445-462., Registrované v: WOS
 22. [1.1] PASSOS, Claudia P. - FERREIRA, Sonia S. - SERODIO, Antonio - BASIL, Eva - MARKOVA, Lucie - KUKUROVA, Kristina - CIESAROVA, Zuzana - COIMBRA, Manuel A. Pectic polysaccharides as an acrylamide mitigation strategy Competition between reducing sugars and sugar acids. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 81, no., pp. 113-119., Registrované v: WOS
 23. [1.1] PHYO, Pyae - GU, Ying - HONG, Mei. Impact of acidic pH on plant cell wall polysaccharide structure and dynamics: insights into the mechanism of acid growth in plants from solid-state NMR. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 1, pp. 291-304., Registrované v: WOS
 24. [1.1] PURUSHOTHAMAN, Rajeesh Kumar Pazhavelikkakath - VAN DER KLIS, F. - FRISSEN, A. E. - VAN HAVEREN, J. - MAYORAL, A. -

- VAN DER BENT, A. - VAN ES, D. S. Base-free selective oxidation of pectin derived galacturonic acid to galactaric acid using supported gold catalysts. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 12, pp. 2763-2774., Registrované v: WOS
25. [1.1] RAJ, Akanksha - WANG, Min - ZANDER, Thomas - WIELAND, D. C. Florian - LIU, Xiaoyan - AN, Junxue - GARAMUS, Vasil M. - WILLUMEIT-ROEMER, Regine - FIELDEN, Matthew - CLAEISSON, Per M. - DEDINAITE, Andra. Lubrication synergy: Mixture of hyaluronan and dipalmitoylphosphatidylcholine (DPPC) vesicles. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797, 2017, vol. 488, no., pp. 225-233., Registrované v: WOS
26. [1.1] SAMPERIO-RAMOS, Guillermo - MAGDALENA SANTANA-CASIANO, J. - GONZALEZ-DAVILA, Melchor. Effect of Organic Fe-Ligands, Released by *Emiliana huxleyi*, on Fe(II) Oxidation Rate in Seawater Under Simulated Ocean Acidification Conditions: A Modeling Approach. In FRONTIERS IN MARINE SCIENCE, 2018, vol. 5, no., pp., Registrované v: WOS
27. [1.1] SILVESTER, Ewen - KLEIN, Annaleise R. - WHITWORTH, Kerry L. - PUSKAR, Ljiljana - TOBIN, Mark J. Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell wall material to its aqueous chemical environment. In ENVIRONMENTAL CHEMISTRY. ISSN 1448-2517, 2018, vol. 15, no. 8, pp. 513-521., Registrované v: WOS
28. [1.1] STRAND, Elsi - KALLIOINEN, Mari - KLEEN, Marjatta - MANTTARI, Mika. Activated carbon treatment to improve ultrafiltration performance in recovery of hemicelluloses from wood extracts. In NORDIC PULP & PAPER RESEARCH JOURNAL. ISSN 0283-2631, 2015, vol. 30, no. 2, pp. 207-214., Registrované v: WOS
29. [1.1] TEULING, Emma - WIERENGA, Peter A. - SCHRAMA, Johan W. - GRUPPEN, Harry. Comparison of Protein Extracts from Various Unicellular Green Sources. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 36, pp. 7989-8002., Registrované v: WOS
30. [1.1] TUOMIVAARA, Sami T. - YAOI, Katsuro - O'NEILL, Malcolm A. - YORK, William S. Generation and structural validation of a library of diverse xyloglucan-derived oligosaccharides, including an update on xyloglucan nomenclature. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 402, no., pp. 56-66., Registrované v: WOS
31. [1.1] WAGSCHAL, Kurt - STOLLER, J. Rose - CHAN, Victor J. - LEE, Charles C. - GRIGORESCU, Arabela A. - JORDAN, Douglas B. Expression and Characterization of Hyperthermostable Exo-polygalacturonase TtGH28 from *Thermotoga thermophilus*. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, 2016, vol. 58, no. 7, pp. 509-519., Registrované v: WOS
32. [1.1] WEE, May S. M. - MATIA-MERINO, Lara - GOH, Kelvin K. T. The cation-controlled and hydrogen bond-mediated shear-thickening behaviour of a tree-fern isolated polysaccharide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2015, vol. 130, no., pp. 57-68., Registrované v: WOS
33. [1.1] YAKUBOGULLARI, Nilgun - GENC, Rukan - COVEN, Fethiye - NALBANTSOY, Ayse - BEDIR, Erdal. Development of adjuvant

nanocarrier systems for seasonal influenza A (H3N2) vaccine based on Astragaloside VII and gum tragacanth (APS). In *VACCINE*. ISSN 0264-410X, 2019, vol. 37, no. 28, pp. 3638-3645., Registrované v: WOS

ADDA81 KOHN, Rudolf - LUKNÁR, O.. Intermolecular calcium binding on polyuronates-polygalacturonate. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 731-744. ISSN 0010-0765.

Ohlasy:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS
2. [1.1] CHEN, Jun - LIU, Wei - LIU, Cheng-Mei - LI, Ti - LIANG, Rui-Hong - LUO, Shun-Jing. Pectin Modifications: A Review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2015, vol. 55, no. 12, pp. 1684-1698., Registrované v: WOS
3. [1.1] LAKSHTANOV, L. Z. - BELOVA, D. A. - OKHRIMENKO, D. V. - STIPP, S. L. S. Role of Alginate in Calcite Recrystallization. In *CRYSTAL GROWTH & DESIGN*. ISSN 1528-7483, 2015, vol. 15, no. 1, pp. 419-427., Registrované v: WOS

ADDA82 KOHN, Rudolf - TIBENSKÝ, Vladimír. On determination of carboxyl groups of pectin by the method of precipitation of insoluble copper pectates and pectinates. In *Chemické zvesti*, 1965, vol. 19, p. 98-106. ISSN 0366-6352.

Ohlasy:

1. [1.1] GUO, Xiaoming - MENG, Hecheng - ZHU, Siming - ZHANG, Tao - YU, Shujuan. Purifying sugar beet pectins from non-pectic components by means of metal precipitation. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2015, vol. 51, no., pp. 69-75., Registrované v: WOS

ADDA83 KOHN, Rudolf. Potentiometric titration of polyuronic acids. In *Chemické zvesti*, 1973, vol. 27, p. 218-226. ISSN 0366-6352.

Ohlasy:

1. [1.1] KIM, Sanghoon - BISWAS, Atanu - BODDU, Veera - HWANG, Hong-Sik - ADKINS, Jason. Solubilization of cashew gum from *Anacardium occidentale* in aqueous medium. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 205-209., Registrované v: WOS
2. [1.1] PIVOKONSKY, M. - NACERADSKA, J. - KOPECKA, I. - BARESOVA, M. - JEFFERSON, B. - LI, X. - HENDERSON, R. K. The impact of algogenic organic matter on water treatment plant operation and water quality: A review. In *CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. ISSN 1064-3389, 2016, vol. 46, no. 4, pp. 291-335., Registrované v: WOS

ADDA84 KOHN, Rudolf. Spectrophotometric determination of magnesium, calcium, strontium and barium present in pairs by use of tetramethylmurexide. In *Chemické zvesti*, 1969, vol. 23, p. 721-735. ISSN 0366-6352.

Ohlasy:

1. [1.1] LEE, Boon-Beng - BHANDARI, Bhesh R. - HOWES, Tony. Quantification of calcium alginate gel formation during ionic cross-linking by a novel colourimetric technique. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2017, vol. 533, no., pp. 116-124., Registrované v: WOS

ADDA85 KOHÚTOVÁ, Lenka - KLAUDINY, Jaroslav - NÁDAŠDY, Róbert - ŠEDIVÁ, Mária - KOPERNICKY, J. - MAJTÁN, Juraj. Identification and validation of reference genes for real time PCR expression studies in heads of nurse honeybees. In *Biologia : Journal of the Slovak Academy of Sciences*, 2013, vol. 68, no. 6, p. 1211-1220. (2012: 0.506 - IF, Q4 - JCR, 0.256 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-013-0267-2>

Ohlasy:

1. [1.1] STASTNY, Matus - GASPER, Jaroslav - BAUER, Miroslav. Genetic structure of *Apis mellifera carnica* in Slovakia based on microsatellite DNA polymorphism. In BIOLOGIA. ISSN 0006-3088, 2017, vol. 72, no. 11, pp. 1341-1346., Registrované v: WOS

ADDA86 KOLAROVA, Nadežda - CAPEK, Peter. A neutral extracellular polysaccharide of *Cryptococcus laurenti*. In *Chemical Papers - Chemické zvesti*, 1998, vol. 52, p. 368-368. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] MACHOVA, Eva - KORCOVA, Jana - CIZOVA, Alzbeta - BYSTRICKY, Slavomir. Inhibition of Yeast Growth by Broadly Cross-Reactive Antisera Elicited by Heterologous Mannan-Protein Conjugate. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2015, vol. 25, no. 7, pp. 1177-1179., Registrované v: WOS

ADDA87 KOLAROVA, Nadežda - FARKAŠ, Vladimír. Xylanases, laminarinases and glucoamylases in the cellulolytic enzyme system from *Trichoderma reesei*. In *Biologia*, 1983, vol. 38, p. 721-725. ISSN 0006-3088.

Ohlasy:

1. [1.1] MARTIN, Carlos - WEI, Maogui - XIONG, Shaojun - JONSSON, Leif J. Enhancing saccharification of cassava stems by starch hydrolysis prior to pretreatment. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 21-31., Registrované v: WOS

ADDA88 KÓŇA, Juraj - TVAROŠKA, Igor. Comparative DFT study on the alfa-glycosidic bond in reactive species of galactosyl diphosphates. In *Chemical papers*, 2009, vol. 63, no. 5, p.598-607. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-009-0060-4>

Ohlasy:

1. [1.1] BHATTACHARYA, Debojit - SHIL, Suranjan - MISRA, Anirban - BYTAUTAS, Laimutis - KLEIN, Douglas J. Photomagnetic and Nonlinear Optical Properties in cis-trans Green Fluoroprotein Chromophore Coupled Bis-Imino Nitroxide Diradicals. In INTERNATIONAL JOURNAL OF

QUANTUM CHEMISTRY. ISSN 0020-7608, 2015, vol. 115, no. 21, pp. 1561-1572., Registrované v: WOS

2. [1.1] GOMEZ, Hansel - MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. QM/MM Studies Reveal How Substrate-Substrate and Enzyme-Substrate Interactions Modulate Retaining Glycosyltransferases Catalysis and Mechanism. In COMBINED QUANTUM MECHANICAL AND MOLECULAR MECHANICAL MODELLING OF BIOMOLECULAR INTERACTIONS. ISSN 1876-1623, 2015, vol. 100, no., pp. 225-254., Registrované v: WOS

3. [1.1] MENDOZA, Fernanda - GOMEZ, Hansel - LLUCH, Jose M. - MASGRAU, Laura. alpha 1,4-N-Acetylhexosaminyltransferase EXTL2: The Missing Link for Understanding Glycosidic Bond Biosynthesis with Retention of Configuration. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 4, pp. 2577-2589., Registrované v: WOS

4. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS

5. [1.1] TIAN, Ge - LIU, Yongjun. Mechanistic insights into the catalytic reaction of ferulic acid decarboxylase from *Aspergillus niger*: a QM/MM study. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 11, pp. 7733-7742., Registrované v: WOS

6. [1.1] YAN, Lijuan - LIU, Yongjun. The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYL1): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na:

<https://doi.org/10.1021/acs.jcim.9b00976>., Registrované v: WOS

7. [1.2] JAÑA, Gonzalo A. - MENDOZA, Fernanda - OSORIO, Manuel I. - ALDERETE, Joel B. - FERNANDES, Pedro A. - RAMOS, Maria J. - JIMÉNEZ, Verónica A. A QM/MM approach on the structural and stereoelectronic factors governing glycosylation by GTF-SI from: *Streptococcus mutans*. In Organic and Biomolecular Chemistry. ISSN 14770520, 2018-01-01, 16, 14, pp. 2438-2447., Registrované v: SCOPUS

ADDA89 KOŮŠ, Miroslav - STEINER, Bohumil - REPÁŠ, Milan. Influence of structure on antimicrobial activity of some heterocycles. I. Alkylpyrazoles and alkylsoxazoles. In *Chemical Papers - Chemické zvesti*, 1991, vol. 45, p. 279-286. ISSN 0366-6352. Ohlasy:

1. [1.1] CORED, Jorge - CRESPO, Olga - LUIS SERRANO, Jose - ELDUQUE, Anabel - GIMENEZ, Raquel. Decisive Influence of the Metal in Multifunctional Gold, Silver, and Copper Metallacycles: High Quantum Yield Phosphorescence, Color Switching, and Liquid Crystalline Behavior. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2018, vol. 57, no. 20, pp. 12632-12640., Registrované v: WOS

ADDA90 KOŮŠ, Miroslav - STEINER, Bohumil - REPÁŠ, Milan - SASINKOVÁ, Vlasta. Preparation and characteristics of some 2,5- and 2,3,5-substituted

oxazolidines. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1984, vol. 38, p. 699. ISSN 0366-6352.

Ohlasy:

1. [1.1] SINGH, Nasseb - DAR, Alamgir A. - KUMAR, Anil. A Simple and Efficient Approach for the Synthesis of 1,3-Oxazolidines from beta-Amino Alcohols Using Grinding Technique. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2018, vol. 3, no. 48, pp. 13675-13681., Registrované v: WOS

ADDA91 KORCOVÁ, Jana, Vráblová - MACHOVÁ, Eva - FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Immunomodulative properties of conjugates composed of detoxified lipopolysaccharide of *Vibrio cholerae* O 135 bound to BSA-protein carrier. In *Biologia*, 2010, vol. 65, p. 768-775. (2009: 0.617 - IF, Q4 - JCR, 0.289 - SJR, Q3 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] KRONEK, Juraj - PETRENCIKOVA, Nadezda - MIKULEC, Marcel - BORSKA, Katarina - CHRISTOVA, Darinka. Structure analysis and thermosensitive properties of copolymers prepared from 2-ethyl-2-oxazoline and 2-(4-aminophenyl)-2-oxazoline. In *POLYMER BULLETIN*. ISSN 0170-0839, 2015, vol. 72, no. 5, pp. 1081-1094., Registrované v: WOS

ADDA92 KOŠÍKOVÁ, Božena - ALEX, P. - GREGOROVÁ, Adriana. Use of lignin products derived from wood pulping as environmentally desirable component of composite rubber materials. In *Wood Research*, 2003, vol. 48, p. 62-67. ISSN 1336-4561.

Ohlasy:

1. [1.1] ALES, Haz - MICHAL, Jablonsky - LENKA, Dubinyova - ALEXANDRA, Sladkova - IGOR, Surina. THERMAL PROPERTIES AND SIZE DISTRIBUTION OF LIGNINS PRECIPITATED WITH SULPHURIC ACID. In *WOOD RESEARCH*. ISSN 1336-4561, 2015, vol. 60, no. 3, pp. 375-383., Registrované v: WOS
2. [1.2] MOKHOTHU, Thabang H. - JOHN, Maya J. Bio-based fillers for environmentally friendly composites. In *Handbook of Composites from Renewable Materials*, 2017-01-01, 1-8, pp. 243-270., Registrované v: SCOPUS

ADDA93 KOŠTÁLOVÁ, D. - HROCHOVÁ, V. - UHRÍN, Dušan - TOMKO, J. Isoquinoline alkaloids of *Isophyrum thalictroides* L. In *Chemical Papers - Chemické zvesti*, 1988, vol. 42, p. 841-843. ISSN 0366-6352.

Ohlasy:

1. [1.1] LI, Pei - LIU, Shuang-shuang - LIU, Qing - SHEN, Jie - HE, Chun-nian - XIAO, Pei-gen. A phytochemical study on *Dichocarpum auriculatum*, an endangered medicinal plant peculiar to China. In *CHINESE HERBAL MEDICINES*. ISSN 1674-6384, 2019, vol. 11, no. 4, pp. 364-368., Registrované v: WOS

ADDA94 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Chemical evaluation of seeded fruit biomass of oil pumpkin (*Curcubita pepo* L. var. *Styriaca*). Anna Ebringerová. In *Chemical papers*, 2009, vol. 63, no. 4, pp.406-413. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, Current Contents -

CCC). (2009 - Current Contents). ISSN 0366-6352. Dostupné na:
<https://doi.org/10.2478/s11696-009-0035-5>

Ohlasy:

1. [1.1] JIWANI, Shahwar Imran - GILLIS, Richard B. - BESONG, David - ALMUTAIRI, Fahad - ERTEN, Tayyibe - KOK, M. Samil - HARDING, Stephen E. - PAULSEN, Berit S. - ADAMS, Gary G. Isolation and Biophysical Characterisation of Bioactive Polysaccharides from Cucurbita Moschata (Butternut Squash). In POLYMERS, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081650>., Registrované v: WOS
2. [1.1] NADERI, M. R. - BANNAYAN, M. - GOLDANI, M. - ALIZADEH, A. Effect of nitrogen application on growth and yield of pumpkin. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2017, vol. 40, no. 6, pp. 890-907., Registrované v: WOS
3. [1.1] RATZ-LYKO, Anna - ARCT, Jacek. Evaluation of antioxidant and antimicrobial properties of enzymatically hydrolysed Cucurbita pepo and Linum usitatissimum seedcakes. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, 2015, vol. 24, no. 5, pp. 1789-1796., Registrované v: WOS
4. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
5. [1.2] BHADDOO, Amit - RAJ-KUMAR - JANEJA, Harmeet Singh - LINGDOH, Banjurip. Evaluation of effect of conventional and neem coated urea on summer squash (Cucurbita pepo L.). In Plant Cell Biotechnology and Molecular Biology. ISSN 09722025, 2019-10-18, 20, 17-18, pp. 746-751., Registrované v: SCOPUS
6. [1.2] OBEMBE, Olawole O. - AWORUNSE, Oluwadurotimi S. - BELLO, Oluwakemi A. - ANI, Abosede O. Multiple shoots induction from indigenous nigerian pumpkin (Cucurbita pepo L.). In Annual Research and Review in Biology, 2017-01-01, 17, 5, pp., Registrované v: SCOPUS
7. [1.2] SHAFEEK, M. R. - HELMY, Y. I. - AHMED, A. A. Productivity of squash plant to mineral and bio-nitrogen fertilizers on plant growth, total fruit yield and leaves mineral content on a sandy soil. In International Journal of ChemTech Research. ISSN 09744290, 2016-01-01, 9, 3, pp. 66-75., Registrované v: SCOPUS
8. [3.1] Likaa Hamied Mahdi Al Mossawi; Nada Zaki Mahdi; Luma Abdal Hady Zwain. (2016). Higher production of lipase enzyme from different microorganisms grown in local natural culture media. International Journal of Advanced Research in Biological Sciences, 3(5), 232-239
9. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcayota Gum Films: Experimental Reviews. In JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. 2018, vol. 6, p. 11-58. ISSN 2327-6045.
10. [3.2] Rodríguez R, Robert Augusto; Valdés R, Magda Piedad; Ortiz G, Sanin. Agronomics characteristics and nutritional quality of fruits and seeds of pumpkin Cucurbita sp. IN Revista colombiana de ciencia animal recia, 2018, vol. 10, iss. 1, p. 86-97., Registrované v: SciELO Citation Index

ADDA95 KOVÁČ, Pavol - ALFOLDI, Juraj. Alternative syntheses of methylated sugars. XVIII. Synthesis of methyl 2,4-di-O-acetyl- β -D-xylopyranoside. In *Chemické zvesti*, 1979, vol. 33, p. 785-791. ISSN 0366-6352.

Ohlasy:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. The Application of Aryl Substituted Derivatives of Xylose as Environmentally Friendly Multipurpose Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2016, vol. 86, no. 13, pp. 3002-3007.,

Registrované v: WOS

2. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

3. [1.1] GITMAN, Silvia Stefania - DUICA, Florentina - NICOLESCU, Alina - IGA, Dumitru Petru. Partial Methylation of Monosaccharides for the Elaboration of a Chromatographic Model Used in the Systematic Plant and Microorganisms as well as for Glycosylation. In REVISTA DE CHIMIE. ISSN 0034-7752, 2015, vol. 66, no. 10, pp. 1632-1635., Registrované v: WOS

ADDA96 KOVÁČ, Pavol - ALFOLDI, Juraj. Alternative synthesis of methylated sugars. XVI. Synthesis of methyl 2,3-di-O-acetyl- β -D-xylopyranoside. In *Chemické zvesti*, 1978, vol. 32, p. 519-523. ISSN 0366-6352.

Ohlasy:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. The Application of Aryl Substituted Derivatives of Xylose as Environmentally Friendly Multipurpose Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2016, vol. 86, no. 13, pp. 3002-3007.,

Registrované v: WOS

2. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

ADDA97 KOVÁČ, Pavol - PALOVČÍK, R.. Alternative synthesis of methylated sugars. XIV. Synthesis of methyl 3,4-di-O-acetyl- β -D-xylopyranoside. In *Chemické zvesti*, 1977, vol. 31, p. 98-105. ISSN 0366-6352.

Ohlasy:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

2. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. The Application of Aryl Substituted Derivatives of Xylose as Environmentally Friendly Multipurpose Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2016, vol. 86, no. 13, pp. 3002-3007.,

Registrované v: WOS

3. [1.1] SOMMER, Roman - HAUCK, Dirk - VARROT, Annabelle - IMBERTY, Anne - KUNZLER, Markus - TITZ, Alexander. O-Alkylated heavy atom carbohydrate probes for protein X-ray crystallography: Studies towards the synthesis of methyl 2-O-methyl-L-selenofucopyranoside. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2016, vol. 12, no., pp. 2828-2833., Registrované v: WOS

ADDA98 KOVÁČ, Pavol - PALOVČÍK, R.. Synthesis and reactions of uronic acid derivatives. XVII. Synthesis of methyl 2-O-(methyl 4-O-methyl- α - and - β -D-glucopyranosyluronate)- β -D-xylopyranoside. In *Chemické zvesti*, 1978, vol. 32, p. 501-513. ISSN 0366-6352.

Ohlasy:

1. [1.1] MONRAD, Rune Nygaard - EKLOF, Jens - KROGH, Kristian B. R. M. - BIELY, Peter. Glucuronoyl esterases: diversity, properties and biotechnological potential. A review. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 7, pp. 1121-1136., Registrované v: WOS

ADDA99 KOZMON, Stanislav - TVAROŠKA, Igor. Molecular dynamic studies of amyloid-beta interactions with curcumin and Cu²⁺ ions. In *Chemical Papers*, 2015, vol. 69, p. 1262-1276. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0134>

Ohlasy:

1. [1.1] AHMED, Aya - GHALLAB, Enas H. - SHEHATA, Magdi - ZEKRI, Abdel-Rahman N. - AHMED, Ola S. Impact of nano-conjugate on Drosophila for early diagnosis of Alzheimer's disease. In NANOTECHNOLOGY. ISSN 0957-4484, 2020, vol. 31, no. 36, pp. Dostupné na: <https://doi.org/10.1088/1361-6528/ab7535>., Registrované v: WOS

2. [1.1] COSKUNER, Orkid - UVERSKY, Vladimir N. Intrinsically disordered proteins in various hypotheses on the pathogenesis of Alzheimer's and Parkinson's diseases. In DANCING PROTEIN CLOUDS: INTRINSICALLY DISORDERED PROTEINS IN HEALTH AND DISEASE, PT A. ISSN 1877-1173, 2019, vol. 166, no., pp. 145-223., Registrované v: WOS

3. [1.1] CHEN, Min - DU, Zhi-Yun - ZHENG, Xi - LI, Dong-Li - ZHOU, Ren-Ping - ZHANG, Kun. Use of curcumin in diagnosis, prevention, and treatment of Alzheimer's disease. In NEURAL REGENERATION RESEARCH. ISSN 1673-5374, 2018, vol. 13, no. 4, pp. 742-752., Registrované v: WOS

4. [1.1] JAKUBOWSKI, Joseph M. - ORR, Asuka A. - LE, Doan A. - TAMAMIS, Phanourios. Interactions between Curcumin Derivatives and Amyloid-beta Fibrils: Insights from Molecular Dynamics Simulations. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 1, pp. 289-305. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00561>., Registrované v: WOS

5. [1.1] MUTTER, Shaun T. - DEETH, Robert J. - TURNER, Matthew - PLATTS, James A. Benchmarking of copper(II) LFMM parameters for studying amyloid- peptides. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2018, vol. 36, no. 5, pp. 1145-1153., Registrované v: WOS

6. [1.1] PHAM DINH QUOC HUY - QUAN VAN VUONG - LA

PENNA, Giovanni - FALLER, Peter - LI, Mai Suan. Impact of Cu(II) Binding on Structures and Dynamics of A beta(42) Monomer and Dimer: Molecular Dynamics Study. In ACS CHEMICAL NEUROSCIENCE. ISSN 1948-7193, 2016, vol. 7, no. 10, pp. 1348-1363., Registrované v: WOS

7. [1.1] STRODEL, Birgit - COSKUNER-WEBER, Orkid. Transition Metal Ion Interactions with Disordered Amyloid-beta Peptides in the Pathogenesis of Alzheimer's Disease: Insights from Computational Chemistry Studies. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2019, vol. 59, no. 5, pp. 1782-1805., Registrované v: WOS

8. [1.1] SUN, Miao-Kun - ALKON, Daniel L. Neuro-regeneration Therapeutic for Alzheimer's Dementia: Perspectives on Neurotrophic Activity. In TRENDS IN PHARMACOLOGICAL SCIENCES. ISSN 0165-6147, 2019, vol. 40, no. 9, pp. 655-668., Registrované v: WOS

9. [1.2] FERRARI, Erika. Curcumin derivatives as metal-chelating agents: Implications for potential therapeutic agents for neurological disorders. In Curcumin for Neurological and Psychiatric Disorders: Neurochemical and Pharmacological Properties, 2019-01-01, pp. 275-299., Registrované v: SCOPUS

ADDA100 KREMnickÝ, Lubomir - SLÁVIKOVÁ, Elena - MISLOVIČOVÁ, Danica - BIELY, Peter. Production of extracellular beta - mannanases by yeasts and yeast-like microorganisms. In *Folia microbiologica*, 1996, vol. 41, p. 43-47. (1995: 0.147 - IF, Current Contents - CCC). (1996 - Current Contents). ISSN 0015-5632.

Ohlasy:

1. [1.1] BOZOUDI, Despina - TSALTAS, Dimitrios. The Multiple and Versatile Roles of *Aureobasidium pullulans* in the Vitivinicultural Sector. In FERMENTATION-BASEL, 2018, vol. 4, no. 4, pp., Registrované v: WOS

2. [1.1] YOU, Jia - LIU, Jin-Feng - YANG, Shi-Zhong - MU, Bo-Zhong. Low-temperature-active and salt-tolerant beta-mannanase from a newly isolated *Enterobacter* sp strain N18. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2016, vol. 121, no. 2, pp. 140-146., Registrované v: WOS

3. [1.1] ZHANG, Hui - SANG, Qing. Production and extraction optimization of xylanase and beta-mannanase by *Penicillium chrysogenum* QML-2 and primary application in saccharification of corn cob. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2015, vol. 97, no., pp. 101-110., Registrované v: WOS

ADDA101 KRUTOŠÍKOVÁ, A. - KOVÁČ, J. - FRIMM, R. - STICZAY, T. Furan derivatives. XXVII. Synthesis and absorption spectra of methyl-2-cyano-3-[5-(X-phenyl)-2-furyl]acrylates. In *Chemické zvesti*, 1971, vol. 25, p. 142-146. ISSN 0366-6352.

Ohlasy:

1. [1.1] HASSAN, A. S. - OSMAN, Souad A. - HAFEZ, Taghrid S. 5-Phenyl-2-furaldehyde: Synthesis, Reactions and Biological Activities. In EGYPTIAN JOURNAL OF CHEMISTRY. ISSN 0449-2285, 2015, vol. 58, no. 2, pp. 113-139., Registrované v: WOS

ADDA102 KRUTOŠÍKOVÁ, A. - DANDÁROVÁ, M. - ALFOLDI, Juraj. Substituted vinyl azides in the synthesis of condensed nitrogen heterocycles. In *Chemical Papers - Chemické zvesti*, 1994, vol. 48, p. 268-273. ISSN 0366-6352.

Ohlasy:

1. [1.1] HASSAN, A. S. - OSMAN, Souad A. - HAFEZ, Taghrid S. 5-Phenyl-2-furaldehyde: Synthesis, Reactions and Biological Activities. In EGYPTIAN JOURNAL OF CHEMISTRY. ISSN 0449-2285, 2015, vol. 58, no. 2, pp. 113-139., Registrované v: WOS

ADDA103 KUDYSHKIN, V.O. - BOZOROV, N.I. - SIDORENKO, O.E. - VOROPAEVA, N.I. - RUBAN, I.N. - KOGAN, Grigorij - RASHIDOVA, S.S. Radical polymerization of N-vinylcaprolactam in the presence of chain-transfer agents. In *Chemical papers*, 20, vol., no., p. ISSN 0366-6352. *Chemical Papers - Chemické zvesti*, 2004, vol. 58, p. 286-291. ISSN 0366-6352.

Ohlasy:

1. [1.1] CERNOCH, Peter - CERNOCHOVA, Zulfiya - KUCKA, Jan - HRUBY, Martin - PETROVA, Svetlana - STEPANEK, Petr. Thermoresponsive polymer system based on poly(N-vinylcaprolactam) intended for local radiotherapy applications. In APPLIED RADIATION AND ISOTOPES. ISSN 0969-8043, 2015, vol. 98, no., pp. 7-12., Registrované v: WOS

ADDA104 KUKA, P. - BUCOVÁ, M. - PENZ, P. - PAULOVÍČOVÁ, Ema - BLAŽÍČEK, P. - ATALAY, M. - LIETAVA, J. HSP60, oxidative stress parameters and cardiometabolic risk markers in hypertensive and normotensive Slovak females. In *Bratislava Medical Papers : international journal for biomedical sciences and clinical medicine*, 2010, roč.111, s. 527-534. (2009: 0.317 - IF, Q4 - JCR, 0.179 - SJR, Q3 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0006-9248.

Ohlasy:

1. [1.1] KARMAKAR, Shilpita - BANERJEE, Debasis - CHAKRABARTI, Abhijit. Platelet proteomics in thalassemia: Factors responsible for hypercoagulation. In PROTEOMICS CLINICAL APPLICATIONS. ISSN 1862-8346, 2016, vol. 10, no. 3, pp. 239-247., Registrované v: WOS

ADDA105 LATTOVÁ, Erika - PETRUŠOVÁ, Mária - PETRUŠ, Ladislav. Preparation of aldoses by ozonolysis of sodium salts of 1-deoxy-1-nitroalditols. In *Chemical Papers - Chemické zvesti*, 1991, vol. 45, p. 823-827. ISSN 0366-6352.

Ohlasy:

1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In ARKIVOC. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS

ADDA106 LAZAROVÁ, Monika - LÁBAJ, Juraj - KOGAN, Grigorij - SLAMENŇOVÁ, Darina. Carboxymethyl chitin-glucan enriched diet exhibits protective effects against oxidative DNA damage induced in freshly isolated rat cells. In *Neoplasma*. - Bratislava : Ústav experimentálnej onkológie, Biomedicínske centrum SAV, 1954-, 2006, vol. 53, no. 5, p. 434-439. (2005: 0.731 - IF, Q4 - JCR, 0.325 - SJR, Q4 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] BAUMGARTNER, Adolf - ALI, Aftab - NORMINGTON,

Charmaine - ANDERSON, Diana. The Comet Assay in Sperm-Assessing Genotoxins in Male Germ Cells. In COMET ASSAY IN TOXICOLOGY, 2ND EDITION. ISSN 1757-7179, 2017, vol. 30, no., pp. 390-456., Registrované v: WOS

2. [1.1] URT-FILHO, Antonio - OLIVEIRA, Rodrigo Juliano - HERMETO, Larissa Correa - PESARINI, Joao Renato - DE DAVID, Natan - CANTERO, Wilson de Barros - FALCAO, Gustavo - MARKS, Guido - MILAN BROCHADO ANTONIOLLI-SILVA, Andrcia Conceicao. Mesenchymal stem cell therapy promotes the improvement and recovery of renal function in a preclinical model. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2016, vol. 39, no. 2, pp. 290-299., Registrované v: WOS

3. [1.2] NIE, Shaoping - CUI, Steve W. - XIE, Mingyong. Bioactive Polysaccharides. In Bioactive Polysaccharides, 2017-10-19, pp. 1-554., Registrované v: SCOPUS

ADDA107 LICHNEROVÁ, A. - HEINRICH, J. - EBRINGEROVÁ, Anna. Xylans: Perspective pharmaceutical auxiliary materials. In *Acta Facultatis Pharmaceuticae Universitatis Comenianae*, 1991, vol. 5, p. 5-9. ISSN 0301-2298.

Ohlasy:

1. [1.1] CAI, Weirong - CHEN, Qiao - XIE, Liangliang - YANG, Lei - ZHANG, Rufei. Extraction, sulfonation and anticoagulant activity of xylan from corncob. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2015, vol. 240, no. 5, pp. 969-975., Registrované v: WOS

ADDA108 LINEK, K. - ALFOLDI, Juraj - STACH, Tibor - PÄTOPRSTÝ, Vladimír. Glycosylamines. V. Preparation, structure, anomeric configuration and conformation of some N-acetylglycosylamines and N-acetyldiglycosylamines. In *Chemical Papers - Chemické zvesti*, 1996, vol. 50, p. 359-364. ISSN 0366-6352.

Ohlasy:

1. [1.1] MADDULURI, Vimal Kumar - SAH, Ajay K. Metal complexes of 4,6-O-ethylidene-beta-D-glucopyranosylamine derivatives and their application in organic synthesis. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 485, no., pp., Registrované v: WOS

ADDA109 MARKOVIČ, Oskar - REXOVÁ, Ľubomíra. Investigation of components in various kinds of bee venom. In *Chemické zvesti*, 1963, vol. 17, p. 676-684. ISSN 0366-6352.

Ohlasy:

1. [1.1] MOHANTY, I. - ARUNVIKRAM, K. - BEHERA, D. - MILTON, A. Arun Prince - ELAIYARAJA, G. - RAJESH, G. - DHAMA, K. Immunomodulatory and Therapeutic Potential of Zootoxins (Venom and Toxins) on the Way Towards Designing and Developing Novel Drugs/Medicines: An Overview. In INTERNATIONAL JOURNAL OF PHARMACOLOGY. ISSN 1811-7775, 2016, vol. 12, no. 2, pp. 126-135., Registrované v: WOS

ADDA110 MARKOVIČ, Oskar - MOLNÁR, L. Isolation and determination of honeybee poison. In *Chemické zvesti*, 1954, vol. 8, p. 88-90. ISSN 0366-6352.

Ohlasy:

1. [1.1] ABD EL-WAHED, Aida A. - KHALIFA, Shaden A. M. - SHEIKH, Bassem Y. - FARAG, Mohamed A. - SAEED, Aamer - LARIK, Fayaz

A. - KOCA-CALISKAN, Ufuk - ALAJMI, Mohamed F. - HASSAN, Moustapha - WAHABI, Habibah A. - HEGAZY, Mohamed-Elamir F. - ALGETHAMI, Ahmed F. - BUTTNER, Sabrina - EL-SEEDI, Hesham R. Bee Venom Composition: From Chemistry to Biological Activity. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 459-484., Registrované v: WOS

ADDA111 MARKOVIČ, Oskar - HEINRICHOVÁ, Kvetoslava - LENKEY, B. Pectolytic enzymes from banana. In *Collection of Czechoslovak Chemical Communications*, 1975, vol. 40, p. 769-774. ISSN 0010-0765.

Ohlasy:

1. [1.1] DAZIO DE SOUZA, Kamila Rezende - SANTOS, Meline de Oliveira - ANDRADE, Cinthia Aparecida - DA SILVA, Dayane Meireles - CAMPOS, Nadia Alves - ALVES, Jose Donizeti. Aerenchyma formation in the initial development of maize roots under waterlogging. In *THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY*. ISSN 2197-0025, 2017, vol. 29, no. 4, pp. 165-175., Registrované v: WOS

2. [1.1] RESENDE, N. S. - GONCALVES, G. A. S. - REIS, K. C. - TONOLI, G. H. D. - BOAS, E. V. B. V. Chitosan/Cellulose Nanofibril Nanocomposite and Its Effect on Quality of Coated Strawberries. In *JOURNAL OF FOOD QUALITY*. ISSN 0146-9428, 2018, vol., no., pp., Registrované v: WOS

3. [1.1] VILELA, Hemina Carla - PEREIRA GOULART, Patricia de Fatima - DAZIO DE SOUZA, Kamila Rezende - VILAS BOAS, Ana Carolina - RODA, Jane Silva - EVANGELISTA DE OLIVEIRA, Roseane Maria. ANTIOXIDANT ENZYME ACTIVITY AND FRESH-CUT ARRACACHA QUALITY. In *CIENCIA E AGROTECNOLOGIA*. ISSN 1413-7054, 2015, vol. 39, no. 3, pp. 276-282., Registrované v: WOS

ADDA112 MASÁROVÁ, Jana - MISLOVIČOVÁ, Danica - GEMEINER, Peter.

Optimization of dextran and mannan dialdehydes preparation and examination of their biospecific interaction with Concanavalin A. In *Chemical Papers - Chemické zvesti*, 2001, vol. 55, p. 130-135. ISSN 0366-6352.

Ohlasy:

1. [1.1] BENITO-VILLALVILLA, Cristina - SORIA, Irene - LUIS SUBIZA, Jose - PALOMARES, Oscar. Novel vaccines targeting dendritic cells by coupling allergoids to mannan. In *ALLERGO JOURNAL*. ISSN 0941-8849, 2018, vol. 27, no. 8, pp. 34-40., Registrované v: WOS

2. [1.1] KHOLIYA, Faisal - CHAUDHARY, Jai Prakash - VADODARIYA, Nilesh - MEENA, Ramavatar. Synthesis of bio-based aldehyde from seaweed polysaccharide and its interaction with bovine serum albumin. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 150, no., pp. 278-285., Registrované v: WOS

ADDA113 MASTIHUBA, Vladimír - ČEPEC, Pavel - VLČKOVÁ, Silvia - FARKAŠOVÁ, Erika - MASTIHUBOVÁ, Mária - BOBAL, Pavel. Enzymatic synthesis of a chiral chalcogran intermediate. In *Chemical Papers*, 2014, vol. 68, p. 745-750. (2013: 1.193 - IF, Q3 - JCR, 0.308 - SJR, Q2 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-013-0523-5>

Ohlasy:

1. [1.1] TUPEC, Michal - BUCEK, Ales - VALTEROVA, Irena - PICHVOVA, Iva. Biotechnological potential of insect fatty acid-modifying enzymes. In ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES. ISSN 0939-5075, 2017, vol. 72, no. 9-10, pp. 387-403., Registrované v: WOS
2. [1.1] YAN, Hong De - LI, Qin - WANG, Zhao. Efficient kinetic resolution of (+/-)-menthol by a lipase from *Thermomyces lanuginosus*. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2017, vol. 64, no. 1, pp. 87-91., Registrované v: WOS

ADDA114 MATULOVÁ, Mária - BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. XLI. NMR spectra of 2-ketoses in molybdate complexes. In *Chemical Papers - Chemické zvesti*, 1990, vol. 44, p. 97-103. ISSN 0366-6352.

Ohlasy:

1. [1.1] CHETHANA, B. K. - LEE, Dongheon - MUSHRIF, Samir H. First principles investigation into the metal catalysed 1,2 carbon shift reaction for the epimerization of sugars. In JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL. ISSN 1381-1169, 2015, vol. 410, no., pp. 66-73., Registrované v: WOS
2. [1.1] ORAZOV, Marat - DAVIS, Mark E. Tandem catalysis for the production of alkyl lactates from ketohexoses at moderate temperatures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 38, pp. 11777-11782., Registrované v: WOS

ADDA115 MAZÍKOVÁ, Viera - SROKOVA, I. - EBRINGEROVÁ, Anna. Solvent-free synthesis and properties of carboxymethyl starch fatty acid ester derivatives. Anna Ebringerová. In *Chemical papers*, 2009, vol. 63, no. 1, p.71-76. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, Current Contents - CCC). (2009 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-008-0088-x>

Ohlasy:

1. [1.1] ANTOSIK, Adrian K. - WILPISZEWSKA, Katarzyna. Natural composites based on polysaccharide derivatives: preparation and physicochemical properties. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 3215-3218., Registrované v: WOS
2. [1.1] NAZ, Muhammad Yasin - SULAIMAN, Shaharin Anwar. Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. In REVIEWS IN CHEMICAL ENGINEERING. ISSN 0167-8299, 2017, vol. 33, no. 3, pp. 293-308., Registrované v: WOS
3. [1.1] WEN, Na - GAO, Chunmei - LU, Shaoyu - XU, Xiubin - BAI, Xiao - WU, Can - NING, Piao - ZHANG, Shaofei - LIU, Mingzhu. Novel amphiphilic glucose-responsive modified starch micelles for insulin delivery. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 73, pp. 45978-45986., Registrované v: WOS
4. [1.1] YE, Lei - ZHAN, Yabin - YANG, Boguang - ZHOU, Xin - LI, Junjie - QIN, Zhihui - DONG, Dianyu - CUI, Yuanlu - YAO, Fanglian. Zwitterionic-Modified Starch-Based Stealth Micelles for Prolonging Circulation Time and Reducing Macrophage Response. In ACS APPLIED MATERIALS &

INTERFACES. ISSN 1944-8244, 2016, vol. 8, no. 7, pp. 4385-4398.,
Registrované v: WOS

5. [1.2] KITTIPONGPATANA, Ornanong S. - KITTIPONGPATANA, Nisit. Physico-mechanical and film-forming properties of carboxymethyl corn starch butyrate. In International Journal of Pharmacy and Pharmaceutical Sciences, 2016-01-01, 8, 1, pp. 302-306., Registrované v: SCOPUS

ADDA116 MÉSZÁROSOVÁ, Csilla - KOLÁROVA, Nadežda - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Induction of *Cryptococcus laurentii* α -galactosidase. In *Chemical papers*, 2012, vol. 66., p. 806-813. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0170-2>

Ohlasy:

1. [1.1] MASTIHUBA, Vladimír - MASTIHUBOVÁ, Maria - BELAK, Miroslav - DUDIKOVÁ, Jana - POTOČKA, Elena Karnisová - PETRUS, Ladislav. Preparation of alpha-galactooligosaccharides by cell walls from *Cryptococcus laurentii* using a novel alpha-galactosyl donor. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS

ADDA117 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena. Mutagenic/antimutagenic effects of different lignin preparations on bacterial cells. In *Drevársky výskum*, 2002, vol. 47, p. 25-31.

Ohlasy:

1. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In BIORESOURCES. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS

ADDA118 MISLOVIČOVÁ, Danica - GEMEINER, Peter - KOZÁROVA, Anna - KOŽÁR, Tibor. Lectinomics I. Relevance of exogenous plant lectins in Biomedical diagnostics. In *Biologia : journal of the Slovak Academy of Science*, 2009, vol. 64, no. 1, p. 1-19. (2008: 0.406 - IF, Q4 - JCR, 0.138 - SJR, Q3 - SJR, Current Contents - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-009-0029-3>

Ohlasy:

1. [1.1] BELICKY, Stefan - TKAC, Jan. Glycoprofiling: a key to early prostate cancer diagnostics. In 2015 9TH INTERNATIONAL CONFERENCE ON SENSING TECHNOLOGY (ICST). ISSN 2156-8065, 2015, vol., no., pp. 520-524., Registrované v: WOS

2. [1.1] BELICKY, Stefan - TKAC, Jan. Can glycoprofiling be helpful in detecting prostate cancer? In CHEMICAL PAPERS. ISSN 0366-6352, 2015, vol. 69, no. 1, pp. 90-111., Registrované v: WOS

3. [1.1] BUCKLE, Tessa - VAN DER WAL, Steffen - VAN WILLIGEN, Danny M. - AALDERINK, Germaine - KLEINJAN, Gijss H. - VAN LEEUWEN, Fijss W. B. Fluorescence background quenching as a means to increase Signal to Background ratio a proof of concept during Nerve Imaging. In THERANOSTICS. ISSN 1838-7640, 2020, vol. 10, no. 21, pp. 9890-9898.

- Dostupné na: <https://doi.org/10.7150/thno.46806>., Registrované v: WOS
4. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
5. [1.1] LALLI, Rakhee Chhetra - KAUR, Kiranjeet - DADSENA, Shashank - CHAKRABORTI, Anuradha - SRINIVASAN, Radhika - GHOSH, Sujata. Maackia amurensis agglutinin enhances paclitaxel induced cytotoxicity in cultured non-small cell lung cancer cells. In BIOCHIMIE. ISSN 0300-9084, 2015, vol. 115, no., pp. 93-107., Registrované v: WOS
6. [1.1] LASTOVICKOVA, Marketa - STROUHALOVA, Dana - BOBALOVA, Janette. Use of Lectin-based Affinity Techniques in Breast Cancer Glycoproteomics: A Review. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2020, vol. 19, no. 5, pp. 1885-1899. Dostupné na: <https://doi.org/10.1021/acs.jproteome.9b00818>., Registrované v: WOS
7. [1.1] LEYVA, Eduardo - MEDRANO-CERANO, Jorge L. - CANO-SANCHEZ, Patricia - LOPEZ-GONZALEZ, Itzel - GOMEZ-VELASCO, Homero - DEL RIO-PORTILLA, Federico - GARCIA-HERNANDEZ, Enrique. Bacterial expression, purification and biophysical characterization of wheat germ agglutinin and its four hevein-like domains. In BIOPOLYMERS. ISSN 0006-3525, 2019, vol. 110, no. 1, pp., Registrované v: WOS
8. [1.1] MARTINS, Maria de Fatima - MARTINS, Paula - GONCALVES, Carlos Alberto. Presence of N-acetylgalactosamine/galactose residues on bronchioloalveolar cells during rat postnatal development. In EUROPEAN JOURNAL OF HISTOCHEMISTRY. ISSN 1121-760X, 2019, vol. 63, no. 3, pp. 144-149., Registrované v: WOS
9. [1.1] NASCIMENTO, Kyria Santiago - FAUSTINO DO NASCIMENTO, Francisco Lucas - LIMA SILVA, Mayara Torquato - NOBRE, Camila Bezerra - MOREIRA, Cleane Gomes - CAVALCANTE BRIZENO, Luiz Andre - DA PONTE, Edson Lopes - SAMPAIO ASSREUY, Ana Maria - CAVADA, Benildo Sousa. Purification of a thermostable antinociceptive lectin isolated from Andira anthelmia. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2016, vol. 29, no. 6, pp. 248-252., Registrované v: WOS
10. [1.1] PALECEK, Emil - TKAC, Jan - BARTOSIK, Martin - BERTOK, Tomas - OSTATNA, Veronika - PALECEK, Jan. Electrochemistry of Nonconjugated Proteins and Glycoproteins. Toward Sensors for Biomedicine and Glycomics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 5, pp. 2045-2108., Registrované v: WOS
11. [1.1] PARK, H. - WALTA, S. - ROSENCRAITZ, R. R. - KOERNER, A. - SCHULTE, C. - ELLING, L. - RICHTERING, W. - BOEKER, A. Micelles from self-assembled double-hydrophilic PHEMA-glycopolymer-diblock copolymers as multivalent scaffolds for lectin binding. In POLYMER CHEMISTRY. ISSN 1759-9954, 2016, vol. 7, no. 4, pp. 878-886., Registrované v: WOS
12. [1.1] PIHIKOVA, Dominika - KASAK, Peter - TKAC, Jan. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In OPEN CHEMISTRY. ISSN 2391-5420, 2015, vol. 13, no. 1, pp.

636-655., Registrované v: WOS

13. [1.1] PRASCH, Herwig - HOJNIK, Cornelia - LINDHORST, Thisbe K. - DIDAK, Blanka - LANDEMARRE, Ludovic - WRODNIGG, Tanja M. New lectin ligands: Testing of Amadori rearrangement products with a series of mannoside-specific lectins. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2019, vol. 475, no., pp. 65-68., Registrované v: WOS

14. [1.2] BELICKY, Stefan - TKAC, Jan. Glycoprofiling: A key to early prostate cancer diagnostics. In Proceedings of the International Conference on Sensing Technology, ICST. ISSN 21568065, 2016-03-21, 2016-March, pp. 520-524., Registrované v: SCOPUS

ADDA119 NEMČOVIČ, Marek - FARKAŠ, Vladimír. Stimulation of conidiation by derivatives of cAMP in *Trichoderma viride*. In *Folia microbiologica*, 1998, vol. 43, p. 399-402. (1997: 0.312 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02818580>

Ohlasy:

1. [1.1] CETZ-CHEL, Jose E. - BALCAZAR-LOPEZ, Edgar - ESQUIVEL-NARANJO, Edgardo U. - HERRERA-ESTRELLA, Alfredo. The *Trichoderma atroviride* putative transcription factor Blu7 controls light responsiveness and tolerance. In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS

2. [1.1] MAT'AT'A, Matej - GALADOVA, Helena - VARECKA, L'udovit - SIMKOVIC, Martin. The study of intracellular and secreted high-molecular-mass protease(s) of *Trichoderma* spp., and their responses to conidiation stimuli. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2019, vol. 65, no. 9, pp. 653-667., Registrované v: WOS

3. [1.1] PATEL, Jaisingh - TELI, Basavaraj - BAJPAI, Raina - MEHER, Jhumishree - RASHID, Md. Mahtab - MUKHERJEE, Arpan - YADAV, Sudheer Kumar. *Trichoderma*-mediated biocontrol and growth promotion in plants: an endophytic approach. In ROLE OF PLANT GROWTH PROMOTING MICROORGANISMS IN SUSTAINABLE AGRICULTURE AND NANOTECHNOLOGY, 2019, vol., no., pp. 219-239., Registrované v: WOS

4. [1.1] YANG, Hua - WANG, Xufeng - LI, Zhenjing - GUO, Qingbin - YANG, Mingguan - CHEN, Di - WANG, Changlu. The Effect of Blue Light on the Production of Citrinin in *Monascus purpureus* M9 by Regulating the *mraox* Gene through lncRNA AOANCR. In TOXINS, 2019, vol. 11, no. 9, pp., Registrované v: WOS

5. [1.2] HINTERDOBLER, Wolfgang - SCHUSTER, André - TISCH, Doris - ÖZKAN, Ezgi - BAZAFKAN, Hoda - SCHINNERL, Johann - BRECKER, Lothar - BÖHMDORFER, Stefan - SCHMOLL, Monika. The role of PKAc1 in gene regulation and trichodimerol production in *Trichoderma reesei*. In Fungal Biology and Biotechnology, 2019-09-10, 6, 1, pp., Registrované v: SCOPUS

6. [1.2] NAKKEERAN, Sevugapperumal - RENUKADEVI, Perumal - AIYANATHAN, K. E.A. Exploring the potential of *Trichoderma* for the management of seed and soil-borne diseases of crops. In Integrated Pest Management of Tropical Vegetable Crops, 2016-01-01, pp. 77-130., Registrované v: SCOPUS

- ADDA120 NEŠČÁKOVÁ, Zuzana - BYSTRICKÝ, Slavomír. B cells - ontogenesis and immune memory development. In *General Physiology and Biophysics*, 2011, vol. 30, p. 1-10. (2010: 1.146 - IF, Q4 - JCR, 0.400 - SJR, Q2 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2011_01_1
Ohlasy:
1. [1.1] MALPELI, Giorgio - BARBI, Stefano - ZUPO, Simonetta - TOSADORI, Gabriele - SCARDONI, Giovanni - BERTOLASO, Anna - SARTORIS, Silvia - UGEL, Stefano - VICENTINI, Caterina - FASSAN, Matteo - ADAMO, Annalisa - KRAMPERA, Mauro - SCUPOLI, Maria Teresa - CROCE, Carlo Maria - SCARPA, Aldo. Identification of microRNAs implicated in the late differentiation stages of normal B cells suggests a central role for miRNA targets ZEB1 and TP53. In *ONCOTARGET*. ISSN 1949-2553, 2017, vol. 8, no. 7, pp. 11809-11826., Registrované v: WOS
- ADDA121 NOVOTNÁ, Z. - KOÓŠ, Miroslav** - MATULOVÁ, Mária. Preparation and characterization of 2-alkylthio-4-(4-bromomethylbenzoyloxy)-6-methylpyrimidines. In *Chemical Papers*, 1991, vol. 45, p. 651-656. ISSN 0366-6352.
Ohlasy:
1. [1.1] KOESE, Meryem - PILLAIYAR, Thanigaimalai - NAMASIVAYAM, Vigneshwaran - DE FILIPPO, Elisabetta - SYLVESTER, Katharina - ULVEN, Trond - VON KUEGELGEN, Ivar - MUELLER, Christa E. An Agonist Radioligand for the Proinflammatory Lipid-Activated G Protein-Coupled Receptor GPR84 Providing Structural Insights. In *JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0022-2623, 2020, vol. 63, no. 5, pp. 2391-2410. Dostupné na: <https://doi.org/10.1021/acs.jmedchem.9b01339>., Registrované v: WOS
- ADDA122 PAKANOVÁ, Zuzana** - MATULOVÁ, Mária - UHĽIARIKOVÁ, Iveta - BEHŮLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - JURÍČKOVÁ, Katarína - NEMČOVIČ, Marek - PÄTOPRSTÝ, Vladimír - MUCHA, Ján. Case study: monitoring of Glc4 tetrasaccharide in the urine of Pompe patients, use of MALDI-TOF MS, and 1H NMR. In *Chemical Papers*, 2019, vol. 73, no. 3, p. 701-711. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-018-0623-3>
Ohlasy:
1. [1.1] ELMONEM, Mohamed A. - ABDELAZIM, Aya M. Novel biomarkers for lysosomal storage disorders: Metabolomic and proteomic approaches. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 509, no., pp. 195-209. Dostupné na: <https://doi.org/10.1016/j.cca.2020.06.028>., Registrované v: WOS
- ADDA123 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BYSTRICKÝ, Peter - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - WILSON, I.B.H. - MUCHA, Ján. Comparative ESI FT-MS and MALDI-TOF structural analyses of representative human N-linked glycans. In *Chemical Papers*, 2015, vol. 69, p. 1633-1638. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0182>

Ohlasy:

1. [1.1] DAMBORSKY, Pavel - DAMBORSKA, Dominika - BELICKY, Stefan - TKAC, Jan - KATRLIK, Jaroslav. Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. In BIONANOSCIENCE. ISSN 2191-1630, 2018, vol. 8, no. 2, pp. 690-700., Registrované v: WOS
2. [1.1] HARVEY, David J. Negative ion mass spectrometry for the analysis of N-linked glycans. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2020, vol. 39, no. 5-6, pp. 586-679. Dostupné na: <https://doi.org/10.1002/mas.21622>., Registrované v: WOS

ADDA124 PAVLÍKOVÁ, Lucia - ŠEREŠ, Mário - IMRICHOVÁ, Denisa - HANO, Milan - RUSNÁK, Andrej - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav - BREIER, Albert - SULOVÁ, Zdena. The expression of P-gp in leukemia cells is associated with cross-resistance to protein N-glycosylation inhibitor tunicamycin. In *General Physiology and Biophysics*, 2016, vol. 35, p. 497-510. (2015: 0.892 - IF, Q4 - JCR, 0.387 - SJR, Q3 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2016039

Ohlasy:

1. [1.1] ZHANG, Jing - GU, Yan - CHEN, Baoan. Mechanisms of drug resistance in acute myeloid leukemia. In ONCOTARGETS AND THERAPY. ISSN 1178-6930, 2019, vol. 12, no., pp. 1937-1945., Registrované v: WOS

ADDA125 PENZ, P. - BUCOVÁ, M. - LIETAVA, J. - BLAŽÍČEK, P. - PAULOVÍČOVÁ, Ema - MRÁZEK, F. - BERNADIČ, M. - BUCKINGHAM, T.A. - PETREK, M. MCP-1 - 2518 A/G gene polymorphism is associated with blood pressure in ischemic heart disease asymptomatic subjects. In *Bratislava Medical Papers : international journal for biomedical sciences and clinical medicine*, 2010, roč.111, s. 420-425. (2009: 0.317 - IF, Q4 - JCR, 0.179 - SJR, Q3 - SJR, Current Contents - CCC). (2010 - Current Contents). ISSN 0006-9248.

Ohlasy:

1. [1.1] QIDWAI, Tabish. Chemokine genetic polymorphism in human health and disease. In IMMUNOLOGY LETTERS. ISSN 0165-2478, 2016, vol. 176, no., pp. 128-138., Registrované v: WOS

ADDA126 PETRUŠ, Ladislav - BÍLIK, Vojtech - KUNIAK, Ľudovít - STANKOVIČ, Ľudovít. Chromatographic separation of alditols on a cation-exchange resin in the lanthanum form. In *Chemické zvesti*, 1980, vol. 34, p. 530-536. ISSN 0366-6352.

Ohlasy:

1. [1.1] KITAMURA, Yusuke - SHOBU, Rika - MATSUURA, Hirotaka - JYO, Akinori - IHARA, Toshihiro. Xylitol Separation from a Polyol Mixture Using Lanthanide Ion-loaded Resins. In ANALYTICAL SCIENCES. ISSN 0910-6340, 2020, vol. 36, no. 6, pp. 769-773. Dostupné na: <https://doi.org/10.2116/analsci.19N032>., Registrované v: WOS
2. [1.1] SCHALLER-DUKE, Ranelle M. - BOGALA, Mallikharjuna R. - CASSADY, Carolyn J. Electron Transfer Dissociation and Collision-Induced Dissociation of Underivatized Metallated Oligosaccharides. In JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2018, vol. 29, no. 5, pp. 1021-1035., Registrované v: WOS

- ADDA127 PETRUŠ, Ladislav - GEMEINER, Peter. Preparation of O-(3-chloro-2-hydroxypropyl)cellulose and its conversion to O-(3-iodo-2-hydroxypropyl)derivative. In *Chemické zvesti*, 1984, vol. 38, p. 133-138. ISSN 0366-6352.
Ohlasy:
1. [3.1] Faria-Tischer, PCS (Faria-Tischer, Paula C.S); Ribeiro-Viana, RM (Ribeiro-Viana, Renato M); Tischer, CA (Tischer, Cesar Augusto). Bio-based nanocomposites: strategies for cellulose functionalization and tissue affinity studies. In: MATERIALS FOR BIOMEDICAL ENGINEERING: Biopolymer Fibers Chapter 7 Pages: 205-244
- ADDA128 PHAM-HUU, D.P. - PETRUŠOVÁ, Mária - PETRUŠ, Ladislav. Comparison of three methods of the conversion of 1-deoxy-1-nitroalditols to the corresponding aldoses. In *Chemical Papers*, 1998, vol. 52, p. 235-237. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.
Ohlasy:
1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In ARKIVOC. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS
- ADDA129 PRISENŽŇÁKOVÁ, Ľubica - ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - FRAŇOVÁ, Soňa - JOŠKOVÁ, Marta - CAPEK, Peter. Antitussive active herbal polysaccharides isolated from Malian medicinal plants *Trichilia emetica* Vahl. (Meliaceae), and *Opilia celtidifolia* Guill. & Perr. Endl. ex Walp. (Opiliaceae). In *Acta Medica Martiniana*, 2009, vol. 9, p. 18-24.
Ohlasy:
1. [1.1] MAGID, Abdulmagid Alabdul - ABDELLAH, Anaëlle - PECHER, Virginie - PASQUIER, Laure - HAKAKAT, Dominique - VOUTQUENNE-NAZABADIOKO, Laurence. Flavonol glycosides and lignans from the leaves of *Opilia amentacea*. In PHYTOCHEMISTRY LETTERS. ISSN 1874-3900, 2017, vol. 21, no., pp. 84-89., Registrované v: WOS
- ADDA130 PROKSA, Bohumil - VADKERTI, Andrej - UHRÍN, Dušan. 5H-Isoindolo[1,2-b][3]benzazepines. VII. Cyclization of N-substituted derivatives of narceone imide. In *Chemical Papers - Chemické zvesti*, 1991, vol. 45, p. 95-104. ISSN 0366-6352.
Ohlasy:
1. [1.1] YUAN, Tingting - PI, Chao - YOU, Chang - CUI, Xiuling - DU, Sidong - WAN, Ting - WU, Yangjie. Rapid assembly of cyclopentene spiroisindolinones via a rhodium-catalysed redox-neutral cascade reaction. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2019, vol. 55, no. 2, pp. 163-166., Registrované v: WOS
- ADDA131 PROKSA, Bohumil - UHRÍN, Dušan - FUSKA, J. - MICHÁLKOVÁ, E. (-)-Mitorubrinol and phthaldehydic acids, new metabolites of *Penicillium vermiculatum* DANG. In *Collection of Czechoslovak Chemical Communications*, 1992, vol. 57, p. 408-414. (1992 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] HUANG, Jingxia - SHE, Jianglian - YANG, Xiliang - LIU, Juan - ZHOU, Xuefeng - YANG, Bin. A New Macrodiolide and Two New Polycyclic Chromones from the Fungus *Penicillium* sp. SCSIO041218. In *MOLECULES*, 2019, vol. 24, no. 9, pp., Registrované v: WOS

ADDA132 REXOVA-BENKOVA, L. Separation of oligogalacturonic acids by dextran gel chromatography. In *Chemické zvesti*, 1970, vol. 24, p. 59-62. ISSN 0366-6352.

Ohlasy:

1. [1.1] RAFIQUE, Nagina - TABASSUM, Romana - AWAN, Muhammad Siddique - ORTS, William - WONG, Dominic W. S. Cloning and Expression of *Pectobacterium carotovorum* Endo-polygalacturonase Gene in *Pichia pastoris* for Production of Oligogalacturonates. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5204-5214., Registrované v: WOS

ADDA133 ROSÍK, Jozef - KUBALA, Jozef - KARDOŠOVÁ, Alžbeta - LAČOK, Pavel. Amino acids and inorganic compounds in apricot-tree gum (*Prunus armeniaca* L.) and in the polysaccharides prepared from this gum. In *Biológia*, 1975, vol. 30, no. 4, p. 255-263.

Ohlasy:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS

ADDA134 ROSÍK, Jozef - KUBALA, Jozef - STANOVÁ, M. - LAČOK, P. Structural properties of apricot gum polysaccharide. IV. Observation on their changes during vegetational cycle after evoked gummosis by pathogens. In *Biológia*, 1971, vol. 26, p. 13-18.

Ohlasy:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS

ADDA135 ROSÍK, Jozef - KARDOŠOVÁ, Alžbeta - ZITKO, V. - KUBALA, Jozef. Structural features of the polysaccharide from the plum-tree gum (*Prunus domestica* L. subsp. *domestica*). In *Chemické zvesti*, 1967, vol. 21, p. 13-22. ISSN 0366-6352.

Ohlasy:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2016, vol. 86, no., pp. 535-545., Registrované v: WOS

ADDA136 ROSIK, J. - KUBALA, J. - STANOVÁ, Mária - LAČOK, Pavel. Structural properties of apricot gum polysaccharides. IV. Observation on their changes during

vegetative cycle after evoked gummosis by pathogens. In *Biológia*. - Cham : Springer International Publishing, 2018-, 1971, roč. 26, č. 1, s. 13-18.

Ohlasy:

1. [1.1] BOUAZIZ, F. - KOUBAA, M. - GHORBEL, R.E. - CHAABOUNI, S.E. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. 2016, vol. 86, p. 535-545. ISSN 0141-8130., Registrované v: WOS

ADDA137 RUŽINSKÝ, Martin - DZURILLA, Milan - KUTSCHY, Peter - KOVÁČIK, Vladimír. Addition-cyclization reactions of hexa-2,4-dienoyl isothiocyanate with amines and sodium hydrogen sulfide. In *Chemical Papers - Chemické zvesti*, 1999, vol. 53, p. 260-264. (1998: 0.160 - IF, Current Contents - CCC). (1999 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] BEDANE, Kibrom G. - SINGH, Girija S. Reactivity and diverse synthetic applications of acyl isothiocyanates. In *ARKIVOC*. ISSN 1551-7004, 2015, vol., no., pp. 206-245., Registrované v: WOS
2. [1.1] SILVERBERG, Lee J. - MOYER, Quentin J. Chemistry of 1,3-thiazin-4-ones and their derivatives, 1995-mid-2018. In *ARKIVOC*. ISSN 1551-7004, 2019, vol., no., pp. 139-227., Registrované v: WOS

ADDA138 SLAMEŇOVÁ, Darina - ŠRAMKOVÁ, Monika - CHALUPA, Ivan - ŠMIGOVÁ, J. - KOGAN, Grigorij. Reduction of genotoxic effects of N-nitrosomorpholine in human hepatoma cells and hamster lung cells by carboxymethyl chitin-glucan. In *Neoplasma*, 2008, vol. 55, no. 4, s. 280-285. (2007: 1.208 - IF, Q4 - JCR, 0.527 - SJR, Q3 - SJR, Current Contents - CCC). (2008 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS

ADDA139 SLAMEŇOVÁ, Darina - HORVÁTHOVÁ, Eva - LÁBAJ, Juraj - KOŠÍKOVÁ, Božena - MAŠTEROVÁ, Irena - BARTKOVÁ, Miriam - KRAJČOVIČOVÁ, Zdenka. Reduction of DNA-damaging effects of anti-HIV drug 3'-azido-3'-dideoxythymidine on human cells by ursolic acid and lignin biopolymer. In *Neoplasma*, 2006, vol. 53, no. 6, p. 485-491. (2005: 0.731 - IF, Q4 - JCR, 0.325 - SJR, Q4 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60*. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] BANKOGLU, Ezgi Eyluel - KODANDARAMAN, Geema - STOPPER, Helga. A systematic review of the use of the alkaline comet assay for genotoxicity studies in human colon-derived cells. In *MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS*. ISSN 1383-5718, 2019, vol. 845, no., pp., Registrované v: WOS
3. [1.1] HUANG, Qiuxia - CHEN, Hongfei - REN, Yuyan - WANG, Zhe - ZENG, Peiyu - LI, Xuan - WANG, Juan - ZHENG, Xing. Anti-hepatocellular carcinoma activity and mechanism of chemopreventive compounds: ursolic acid derivatives. In *PHARMACEUTICAL BIOLOGY*. ISSN 1388-0209, 2016, vol. 54, no. 12, pp. 3189-3196., Registrované v: WOS
4. [1.1] CHINGWARU, Walter - VIDMAR, Jerneja - KAPEWANGOLO, Petrina T. The Potential of Sub-Saharan African Plants in the Management of Human Immunodeficiency Virus Infections: A Review. In *PHYTOTHERAPY RESEARCH*. ISSN 0951-418X, 2015, vol. 29, no. 10, pp. 1452., Registrované v: WOS
5. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452., Registrované v: WOS
6. [1.1] YARLA, Nagendra Sastry - BISHAYEE, Anupam - SETHI, Gautam - REDDANNA, Pallu - KALLE, Arunasree M. - DHANANJAYA, Bhadrappura Lakkappa - DOWLURU, Kaladhar S. V. G. K. - CHINTALA, Ramakrishna - DUDDUKURI, Govinda Rao. Targeting arachidonic acid pathway by natural products for cancer prevention and therapy. In *SEMINARS IN CANCER BIOLOGY*. ISSN 1044-579X, 2016, vol. 40-41, no., pp. 48-81., Registrované v: WOS
7. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADDA140 STANKOVIČ, Ľudovít - KÖNIGSTEIN, J. Isomerization of pentoses and 2-pentuloses by inorganic phosphates. In *Chemické zvesti*, 1979, vol. 33, p. 397-403. ISSN 0366-6352.

Ohlasy:

1. [1.1] FIALHO, David M. - CLARKE, Kimberly C. - MOORE, Megan K. - SCHUSTER, Gary B. - KRISHNAMURTHY, Ramanarayanan - HUD, Nicholas V. Glycosylation of a model proto-RNA nucleobase with non-ribose sugars: implications for the prebiotic synthesis of nucleosides. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 8, pp. 1263-1271., Registrované v: WOS

ADDA141 STANKOVSKÁ, Monika - ŠOLTĚS, Ladislav - VIKARTOVSKÁ, Alica - GEMEINER, Peter - KOGAN, Grigorij - BAKOŠ, Dušan. Degradation of high-molecular-weight hyaluronan: a rotational viscometry study. In *Biologia*, 2005, vol. 60, suppl. 17, p. 149-152. (2004: 0.207 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS
2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADDA142 SUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - JOSKOVA, Marta - SUTOVSKY, Juraj - MARCINEK, J. - KALMAN, Michal. Antitussive activity of *Althaea officinalis* L. polysaccharide rhamnogalacturonan and its changes in guinea pigs with ovalbumin-induced airways inflammation. In *Bratislava Medical Journal*, 2011, vol. 112, p. 670-675. (2010: 0.345 - IF, Q4 - JCR, 0.158 - SJR, Q3 - SJR, Current Contents - CCC). (2011 - Current Contents). ISSN 0006-9248.

Ohlasy:

1. [1.1] AMERI, Ahmad - HEYDARIRAD, Ghazaleh - JAFARI, Jamileh Mahdavi - GHOBADI, Ali - REZAEIZADEH, Hossein - CHOOPANI, Rasool. Medicinal plants contain mucilage used in traditional Persian medicine (TPM). In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2015, vol. 53, no. 4, pp. 615-623., Registrované v: WOS
2. [1.1] AYRLE, Hannah - MEVISSSEN, Meike - KASKE, Martin - NATHUES, Heiko - GRUETZNER, Niels - MELZIG, Matthias - WALKENHORST, Michael. Medicinal plants prophylactic and therapeutic options for gastrointestinal and respiratory diseases in calves and piglets? A systematic review. In BMC VETERINARY RESEARCH. ISSN 1746-6148, 2016, vol. 12, no., pp., Registrované v: WOS
3. [1.1] JALADAT, Amir Mohammad - ATARZADEH, Fatemeh - REZAEIZADEH, Hossein - MOFID, Bahram - MOSALAIE, Ahmad - FARHAN, Farshid - AMIN, Gholamreza. Botanicals: An alternative remedy to radiotherapy-induced dysuria. In COMPLEMENTARY THERAPIES IN MEDICINE. ISSN 0965-2299, 2015, vol. 23, no. 1, pp. 90-99., Registrované v: WOS
4. [1.1] MOMBEINI, Tajmah - BEHZADI, Babak Asadpour - EDJTEMAEE, Ramtin - TAHMASBI, Freidoun - KAMALINEJAD, Mohammad - DEHPOUR, Ahmad Reza. Anticonvulsant Effect of *Alcea aucheri* on Pentylenetetrazole and Maximal Electroshock Seizures in Mice. In BASIC AND CLINICAL NEUROSCIENCE. ISSN 2008-126X, 2020, vol. 11, no. 3, pp. 369-377. Dostupné na: <https://doi.org/10.32598/bcn.11.2.?2064.1>, Registrované v: WOS
5. [1.1] MOMBEINI, Tajmah - POURBADIE, Hamid Gholami -

- KAMALINEJAD, Mohammad - MAZLOUMI, Soroush - DEHPOUR, Ahmad Reza. Anxiolytic-Like and Sedative Effects of *Alcea Aucheri* (Boiss.) Alef. Flower Extract in the Laboratory Rat. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2017, vol. 16, no. 4, pp. 1495-1508., Registrované v: WOS
6. [1.1] PIETRUSZEWSKA, Wioletta - BARANSKA, Magda - WIELGAT, Jakub. Place of phytotherapy in the treatment of acute infections of upper respiratory tract and upper gastrointestinal tract. In POLISH JOURNAL OF OTOLARYNGOLOGY. ISSN 0030-6657, 2018, vol. 72, no. 4, pp. 42-50. Dostupné na: <https://doi.org/10.5604/01.3001.0012.2833>., Registrované v: WOS
7. [1.1] RAPIEJKO, Piotr - JURKIEWICZ, Dariusz - PIETRUSZEWSKA, Wioletta - ZIELNIK-JURKIEWICZ, Beata - WORON, Jaroslaw - LIPIEC, Agnieszka. Treatment strategy of allergic rhinitis in the face of modern world threats. In POLISH JOURNAL OF OTOLARYNGOLOGY. ISSN 0030-6657, 2018, vol. 72, no. 2, pp. 1-11., Registrované v: WOS
8. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. Polysaccharides in Human Health Care. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS
9. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In Zeitschrift fur Phytotherapie. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209., Registrované v: SCOPUS
10. [1.2] HEYDARIRAD, Ghazaleh - CHOOPANI, Rasool. "Dry Mouth" From the Perspective of Traditional Persian Medicine and Comparison with Current Management. In Journal of Evidence-Based Complementary and Alternative Medicine. ISSN 21565872, 2015-01-01, 20, 2, pp. 137-142., Registrované v: SCOPUS
11. [1.2] KAREGAR-BORZI, Hossein - SALEHI, Mehdi - RAHIMI, Roja. Laūq: A Sustained-Release Dosage Form for Respiratory Disorders in Traditional Persian Medicine. In Journal of Evidence-Based Complementary and Alternative Medicine. ISSN 21565872, 2016-01-01, 21, 1, pp. 63-70., Registrované v: SCOPUS
12. [3.2] VALIZADEH, R.; HEMMATI, A. A.; HOUSHMAND, G.; BAYAT, S.; BAHADORAM, M. Wound healing potential of *Althaea officinalis* flower mucilage in rabbit full thickness wounds. IN Asian Pacific Journal of Tropical Biomedicine, 2015, vol. 5, iss. 11, p. 937-943., Registrované v: BIOSIS Citation Index

ADDA143 ŠANDULA, Jozef - VOJTKOVÁ-LEPŠÍKOVÁ, A.. Immunochemical studies on mannans of the genus *Saccharomyces*: Group of *Saccharomyces sensu stricto* species. In *Folia microbiologica*, 1974, vol. 19, p. 94-101. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02872841>

Ohlasy:

1. [1.1] GRIZEL, Anastasia V. - RUBEL, Aleksandr A. - CHERNOFF, Yury O. Strain conformation controls the specificity of cross-species prion transmission in the yeast model. In PRION. ISSN 1933-6896, 2016, vol. 10, no. 4, pp. 269-282., Registrované v: WOS
2. [1.1] SHARMA, Aditi - BRUCE, Kathryn L. - CHEN, Buxin - GYONEVA, Stefka - BEHRENS, Sven H. - BOMMARIUS, Andreas S. -

CHERNOFF, Yury O. Contributions of the Prion Protein Sequence, Strain, and Environment to the Species Barrier. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 3, pp. 1277-1288., Registrované v: WOS

ADDA144 ŠČERBUCHIN, V.D. - ROSÍK, Jozef - KUBALA, Jozef. Polysaccharide from the cherry-tree gum (*Prunus avium* L. var. *duracina* L.). In *Chemické zvesti*, 1968, vol. 22?, p. 248-256. ISSN 0366-6352.

Ohlasy:

1. [1.1] SHABANI, Hossein - ASKARI, Gholamreza - JAHANBIN, Kambiz - KHODAEIAN, Faramarz. Evaluation of physicochemical characteristics and antioxidant property of *Prunus avium* gum exudates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2016, vol. 93, no., pp. 436-441., Registrované v: WOS

ADDA145 ŠIMÚTH, Jozef. Molecular and functional properties of royal jelly proteins. In *Chemical Papers - Chemické zvesti*, 1998, vol. 52, special Issue: SI, p. 311-311. (1997: 0.150 - IF, Current Contents - CCC). (1998 - Current Contents). ISSN 0366-6352.

Ohlasy:

1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

ADDA146 ŠURANSKÁ, Hana - VRÁNOVÁ, Dana - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta. Monitoring of yeast population isolated during spontaneous fermentation of Moravian wine. In *Chemical papers*, 2012, vol. 66, p. 861-868. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0198-3>

Ohlasy:

1. [1.1] CELIK, Zeynep Dilan - ERTEN, Huseyin - DARICI, Merve - CABAROGLU, Turgut. Molecular characterization and technological properties of wine yeasts isolated during spontaneous fermentation of *Vitis vinifera* L.cv. Narince grape must grown in ancient wine making area Tokat, Anatolia. In 40TH WORLD CONGRESS OF VINE AND WINE. ISSN 2117-4458, 2017, vol. 9, no., pp., Registrované v: WOS

2. [1.1] CORBU, Viorica - PECETE, Ionut - VASSU, Tatiana - CSUTAK, Ortansa. New yeast strains from Black Sea and oil polluted soil with lipolytic potential. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2020, vol. 25, no. 5, pp. 1998-2007. Dostupné na: <https://doi.org/10.25083/rbl/25.5/1998.2007.>, Registrované v: WOS

3. [1.1] JANKURA, Ervin - PIKNOVA, Lubica - LOPASOVSKA, Janka. Identification and technological characteristics of yeast strains from vineyards in Slovakia. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020, vol. 59, no. 3, pp. 241-249., Registrované v: WOS

4. [1.1] RIBEIRO, Natalia N. - FREITA, Lidyane A. - TRALLI, Leticia F. - SILVA, Aline F. - FREITA, Cristhyane M. - MENDES, Franciele Q. -

TEIXEIRA, Vitor - JUNIOR, Calisto N. S. - MUTTON, Marcia J. R. OPTIMIZATION OF FERMENTATIVE CONDITIONS OF *Pichia membranifaciens* FOR SECOND GENERATION ETANOL PRODUCTION. In QUIMICA NOVA. ISSN 0100-4042, 2019, vol. 42, no. 7, pp. 720-728., Registrované v: WOS

5. [3.2] Vásquez C, Jorge Alberto; Ramírez Castrillón, Mauricio; Monsalve F, Zulma Isabel. Update on molecular characterization for yeast of industrial interest. In Revista Colombiana de Biotecnología, 2016, vol. 18, iss. 2, p. 129-139., Registrované v: SciELO Citation Index

ADDA147 ŠUTOVSKÁ, Martina - NOSÁĽOVÁ, Gabriela - FRAŇOVÁ, Soňa - Kardošová, Alžbeta. The antitussive activity of polysaccharides from *Althaea officinalis* L., var. *Robusta*, *Arctium lappa* L., var. *Herkules*, and *Prunus persica* L., Batsch. In *Bratislava Medical Journal*, 2007, vol. 108, p. 93-99. (2006: 0.133 - SJR, Q3 - SJR). ISSN 0006-9248.

Ohlasy:

1. [1.1] CIOBANU, Madalina - PIRVU, Lucia - PAUN, Gabriela - SAVIN, Simona - ALBU, Bujor-Gabriel - MUNTEANU, Comel - CUSU, Jeanina Pandeale - ATKINSON, IrMa - CULITA, Daniela C. - PETCU, Gabriela - PARVULESCU, Viorica. Development of a new (bio)hybrid matrix based on *Althaea officinalis* and *Betonica officinalis* extracts loaded into mesoporous silica nanoparticles for bioactive compounds with therapeutic applications. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2019, vol. 51, no., pp. 605-613., Registrované v: WOS

2. [1.1] DEHDARI, Sahar - HAJIMEHDIPOOR, Homa. Medicinal Properties of *Adiantum capillus-veneris* Linn. in Traditional Medicine and Modern Phytotherapy: A Review Article. In IRANIAN JOURNAL OF PUBLIC HEALTH. ISSN 2251-6085, 2018, vol. 47, no. 2, pp. 188-197., Registrované v: WOS

3. [1.1] KUMAR, Pradeep - KUMAR, Vineet. Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from *Vitex negundo* Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS

4. [1.1] KUMAR, Saneesh - BOUIC, Patrick J. - ROSENKRANZ, Bernd. A Validated Stable HPLC Method for the Simultaneous Determination of Rifampicin and 25-O-Desacetyl Rifampicin Evaluation of in vitro Metabolism. In ACTA CHROMATOGRAPHICA. ISSN 1233-2356, 2019, vol. 31, no. 2, pp. 92-98., Registrované v: WOS

5. [1.1] MAHBOUBI, Mohaddese. Management of acute cough by *Zataria multiflora* Boiss as an alternative treatment. In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, 2018, vol. 16, no. 1, pp. 20-25., Registrované v: WOS

6. [1.2] ALEEBRAHIM-DEHKORDY, Elahe - ANSARIPOUR, Sadra - RAFIEIAN-KOPAEI, Mahmoud - SABERIANPOUR, Shirin. Effects of substances on plants' active compounds on changes in the hormone levels of the pituitary-thyroid axis in hyperthyroidism and hypothyroidism. In Pharmacognosy Reviews. ISSN 09737847, 2018-01-01, 12, 23, pp. 1-6., Registrované v: SCOPUS

ADDA148 TALÁBA, P. - SROKOVÁ, Iva - HODÚL, P. - EBRINGEROVÁ, Anna. New procedure for the preparation of cellulose esters with aromatic carboxylic acids. In *Chemical Papers - Chemické zvesti*, 1996, vol. 50, p. 365-368. ISSN 0366-6352.

Ohlasy:

1. [1.1] TEACA, Carmen-Alice - TANASA, Fulga. Wood Surface Modification-Classic and Modern Approaches in Wood Chemical Treatment by Esterification Reactions. In *COATINGS*, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/coatings10070629>., Registrované v: WOS
2. [1.2] NALINBENJAPUN, Sirinporn - OVATLARNPORN, Chitchamai. p-aminobenzoic acid-chitosan conjugates for paba delivery to the large intestine. In *Pakistan Journal of Nutrition*. ISSN 16805194, 2016-09-15, 15, 10, pp. 921-928., Registrované v: SCOPUS

ADDA149 TAMÁS, Ladislav - HUTTOVÁ, Jana - MISTRÍK, Igor - KOGAN, Grigorij. Effect of carboxymethyl chitin-glucan on the Activity of some hydrolytic enzymes in maize plants. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 2002, vol. 56, no. 5, p. 326-329. ISSN 0366-6352.

Ohlasy:

1. [1.1] HUANG, Hui - WANG, Bingdi - CHEN, Meng - LIU, Mengxian - LENG, Yue - LIU, Xinyang - LI, Yongxin - LIU, Zhenning. Fluorescence turn-on sensing of ascorbic acid and alkaline phosphatase activity based on graphene quantum dots. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2016, vol. 235, no., pp. 356-361., Registrované v: WOS
2. [1.1] CHEN, Hongyu - ZHOU, Zile - LU, QiuJun - WU, Cuiyan - LIU, Meiling - ZHANG, Youyu - YAO, Shouzhao. Molecular structure regulation and enzyme cascade signal amplification strategy for upconversion ratiometric luminescent and colorimetric alkaline phosphatase detection. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1051, no., pp. 160-168., Registrované v: WOS
3. [1.1] KUMAR, M. Rajesh - MANIKANDAN, A. - SIVAKUMAR, A. - DHAYABARAN, V. Violet. An eco-friendly catalytic system for multicomponent, one-pot synthesis of novel spiro-chromeno indoline-triones and their anti-prostate cancer potentials evaluated via alkaline phosphatase inhibition mechanism. In *BIOORGANIC CHEMISTRY*. ISSN 0045-2068, DEC 2018, vol. 81, p. 44-54., Registrované v: WOS
4. [1.1] LOTFALIKHANI, A. - KHOSRAVI, Y. - SABET, N. S. - NA, S. L. - NG, K. P. - TAY, S. T. Genetic diversity, antifungal susceptibility and enzymatic characterisation of Malaysian clinical isolates of *Candida glabrata*. In *TROPICAL BIOMEDICINE*. ISSN 0127-5720, DEC 2018, vol. 35, no. 4, p. 1123-1130., Registrované v: WOS
5. [1.1] RAUF, A. - SHAH, A. - ABBAS, S. - RANA, U.A. - KHAN, S.U.D. - ALI, S. - ZIA-UR-REHMAN - QURESHI, R. - KRAATZ, H.B. - BELANGER-GARIEPY, F. Synthesis, spectroscopic characterization and pH dependent photometric and electrochemical fate of Schiff bases. In *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, 2015, vol. 138, A, p. 58-66. ISSN 1386-1425., Registrované v: WOS
6. [1.1] SAFWAT, Engie - HASSAN, Mohammad L. - SANIOUR, Sayed - ZAKI, Dalia Yehia - ELDEFTAR, Mervat - SABA, Dalia - ZAZOU, Mohamed. Injectable TEMPO-oxidized nanofibrillated cellulose/biphasic

calcium phosphate hydrogel for bone regeneration. In JOURNAL OF BIOMATERIALS APPLICATIONS. ISSN 0885-3282, 2018, vol. 32, no. 10, pp. 1371-1381., Registrované v: WOS

7. [1.1] SALIMI, A. - AHMADI, R. - KHEZERLOO, J.K. Assessment of biochemical parameters after exposure to ultrasound waves; an in vivo study. In BIOMEDICAL RESEARCH-INDIA. ISSN 0970-938X, 2017, vol. 28, no. 13, p. 6054-6058., Registrované v: WOS

8. [1.1] SALMAN, Zainab Ali - AZEEZ, Rasha Abbas - YASEEN, Abeer Khalid - AL-RUBAEE, Eaman A. EFFECT OF ZINC OXIDE NANOPARTICLES ON SERUM ALKALINE PHOSPHATASE ACTIVITY IN MALE MICE. In Biochemical and Cellular Archives. ISSN 0972-5075, OCT 2018, vol. 18, no. 2, p. 1715-1719., Registrované v: WOS

9. [1.1] TEWARI, Lakshmi - PANDEY, Raj Kumar - SHARMA, Raj Shekher - KUMAR, Naveen - TEWARI, Salil K. Phytostimulating Mechanisms and Bioactive Molecules of Trichoderma Species: Current Status and Future Prospects. In MICROORGANISMS FOR GREEN REVOLUTION, VOL 1: MICROBES FOR SUSTAINABLE CROP PRODUCTION. ISSN 2512-1901, 2017, vol. 6, no., pp. 189-214., Registrované v: WOS

10. [1.1] WANG, C. - DENG, Z.L. - XIE, Z.M. - CHU, X.Y. - CHANG, J.W. - KONG, D.X. - LI, B.J. - ZHANG, H.Y. - CHEN, L.L. Construction of a genome-scale metabolic network of the plant pathogen Pectobacterium carotovorum provides new strategies for bactericide discovery. In Febs Letters, 2015, vol. 589, no. 3, p. 285-294. ISSN 0014-5793., Registrované v: WOS

11. [1.1] ZHOU, Zhou - WANG, Hongmei - ZHENG, Binghui - HAN, Zhang - CHEN, Yanqing - MA, Yan. A Rat Experimental Study of the Relationship Between Fluoride Exposure and Sensitive Biomarkers. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2017, vol. 180, no. 1, pp. 100-109., Registrované v: WOS

12. [1.2] CAO, Rong - MENG, Huihui - LIU, Qi - WEI, Yuxi. Effect of Ultra-high Pressure Processing on Spoilage Microbial Flora of Oysters during Ice Storage and Lethal Function on Typical Strain Shewanella putrefaciens. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2019-02-28, 19, 2, pp. 192-198., Registrované v: SCOPUS

13. [1.2] HOMAEL, Ahmad. Purification and biochemical properties of highly efficient alkaline phosphatase from Fenneropenaeus merguensis brain. In Journal of Molecular Catalysis B: Enzymatic, 2015, vol. 118, p. 16-22., Registrované v: SCOPUS

ADDA150 TIBENSKÝ, Vladimír. Selective cation exchange on the cross-linked pectin. In *Chemické zvesti*, 1968, vol. 22, p. 401-406. ISSN 0366-6352.

Ohlasy:

1. [1.1] FARHANA, Nur A. R. - AMIN, I. - HASSAN, Sadeq A. S. - SHUHAIMI, M. Gel formation of pectin from okra (*Abelmoschus esculentus* L. Moench) leaves, pulp and seeds. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2017, vol. 24, no. 5, pp. 2161-2169., Registrované v: WOS

ADDA151 TREBATICÁ, Mária - SVIDOVÁ, Soňa - GROLMUS, Ján - RAUKO, Peter - KOGAN, Grigorij - MIADOKOVÁ, Eva. Sulphoethyl glucan - a biological active

polysaccharide. In *Biologia*, 2005, vol. 60, suppl. 17, p. 121-123. (2004: 0.207 - IF, Current Contents - CCC). (2005 - Current Contents). ISSN 0006-3088.

Ohlasy:

1. [1.1] MO, Li - CHEN, Yafei - LI, Wenjian - GUO, Shuai - WANG, Xuzhao - AN, Hailong - ZHAN, Yong. Anti-tumor effects of (1 \rightarrow 3)-beta-D-glucan from *Saccharomyces cerevisiae* in S180 tumor-bearing mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 95, no., pp. 385-392., Registrované v: WOS
2. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS

ADDA152 UHLIARIKOVÁ, Iveta - CHVÁLOVÁ, Beáta - MATULOVÁ, Mária - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Extracellular biopolymers produced by freshwater cyanobacteria: a screening study. In *Chemical Papers*, 2019, vol. 73, p. 771-776. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-018-0625-1>

Ohlasy:

1. [1.1] BERBEE, Mary L. - STRULLU-DERRIEN, Christine - DELAUX, Pierre-Marc - STROTHER, Paul K. - KENRICK, Paul - SELOSSE, Marc-Andre - TAYLOR, John W. Genomic and fossil windows into the secret lives of the most ancient fungi. In *NATURE REVIEWS MICROBIOLOGY*. ISSN 1740-1526, 2020, vol. 18, no. 12, pp. 717-730. Dostupné na: <https://doi.org/10.1038/s41579-020-0426-8>., Registrované v: WOS
2. [1.1] CRUZ, Diogo - VASCONCELOS, Vitor - PIERRE, Guillaume - MICHAUD, Philippe - DELATTRE, Cedric. Exopolysaccharides from Cyanobacteria: Strategies for Bioprocess Development. In *APPLIED SCIENCES-BASEL*, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/app10113763>., Registrované v: WOS

ADDA153 UHRÍN, Dušan - BUČKOVÁ, A. - EISENREICHOVÁ, E. - HALADOVÁ, M. - TOMKO, J. Constituents of *Lilium candidum* L. In *Chemical Papers - Chemické zvesti*, 1989, vol.43, p. 793-796. ISSN 0366-6352.

Ohlasy:

1. [1.1] OZEN, Fazil - AKA, Gulsah E. - AKSOY, Ozlem. GENETIC DIVERSITY AND CONSERVATION STRATEGIES OF SOME LILIUM CANDIDUM L. POPULATION IN TURKEY. In *BANGLADESH JOURNAL OF BOTANY*. ISSN 0253-5416, 2016, vol. 45, no. 1, pp. 133-141., Registrované v: WOS

ADDA154 VALKO, L. - TVAROŠKA, Igor - KELLO, Vojtech. Irregular structures in poly(vinyl chloride). In *Chemické zvesti*, 1972, vol. 26, p. 3-17. ISSN 0366-6352.

Ohlasy:

1. [1.1] KRUEGER, Martin C. - HARMS, Hauke - SCHLOSSER, Dietmar. Prospects for microbiological solutions to environmental pollution with plastics. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2015, vol. 99, no. 21, pp. 8857-8874., Registrované v: WOS

ADDA155 VATEHOVÁ, Zuzana - KOLLÁROVÁ, Karin - ZELKO, Ivan - RICHTEROVÁ, Danica, Richterová - BUJDOŠ, Marek - LIŠKOVÁ, Desana. Interaction of silicon and cadmium in *Brassica juncea* and *Brassica napus*. In *Biologia : journal of the Slovak Academy of Sciences*, 2012, vol. 67, no. 3, p. 498-504. (2011: 0.557 - IF, Q4 - JCR, 0.256 - SJR, Q3 - SJR, Current Contents - CCC). (2012 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-012-0034-9>

Ohlasy:

1. [1.1] ADREES, Muhammad - ALI, Shafaqat - RIZWAN, Muhammad - ZIA-UR-REHMAN, Muhammad - IBRAHIM, Muhammad - ABBAS, Farhat - FARID, Mujahid - QAYYUM, Muhammad Farooq - IRSHAD, Muhammad Kashif. Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2015, vol. 119, no., pp. 186-197., Registrované v: WOS
2. [1.1] BARRETO, Rafael Ferreira - SCHIAVON JUNIOR, Aparecido Alecio - MAGGIO, Marcos Aurelio - PRADO, Renato de Mello. Silicon alleviates ammonium toxicity in cauliflower and in broccoli. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2017, vol. 225, no., pp. 743-750., Registrované v: WOS
3. [1.1] BENAKOVA, Martina - AHMADI, Hassan - DUCAIOVA, Zuzana - TYLOVA, Edita - CLEMENS, Stephan - TUMA, Jiri. Effects of Cd and Zn on physiological and anatomical properties of hydroponically grown *Brassica napus* plants. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 25, pp. 20705-20716., Registrované v: WOS
4. [1.1] BHAT, Javaid Akhter - SHIVARAJ, S. M. - SINGH, Pritam - NAVADAGI, Devanna B. - TRIPATHI, Durgesh Kumar - DASH, Prasanta K. - SOLANKE, Amolkumar U. - SONAH, Humira - DESHMUKH, Rupesh. Role of Silicon in Mitigation of Heavy Metal Stresses in Crop Plants. In *PLANTS-BASEL*, 2019, vol. 8, no. 3, pp., Registrované v: WOS
5. [1.1] DA SILVA, Airon Jose - NASCIMENTO, Clistenes Williams - GOUVEIA-NETO, Artur da Silva - SILVA JUNIOR, Elias Arcanjo. EFFECTS OF SILICON ON ALLEVIATING ARSENIC TOXICITY IN MAIZE PLANTS. In *REVISTA BRASILEIRA DE CIENCIA DO SOLO*. ISSN 0100-0683, 2015, vol. 39, no. 1, pp. 289-296., Registrované v: WOS
6. [1.1] ELLOUMI, Nada - BELHAJ, Dalel - MSEDDEI, Salma - ZOUARI, Mohamed - BEN ABDALLAH, Ferjani - WOODWARD, Steve - KALLEL, Monem. Response of *Nerium oleander* to phosphogypsum amendment and its potential use for phytoremediation. In *ECOLOGICAL ENGINEERING*. ISSN 0925-8574, 2017, vol. 99, no., pp. 164-171., Registrované v: WOS
7. [1.1] HUANG, Meiyu - ZHU, Huihui - ZHANG, Jing - TANG, Diyong - HAN, Xiaole - CHEN, Liang - DU, Dongyun - YAO, Jun - CHEN, Ke - SUN, Jie. Toxic effects of cadmium on tall fescue and different responses of the photosynthetic activities in the photosystem electron donor and acceptor sides. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
8. [1.1] KRESZIES, T. - KRESZIES, V. - LY, F. - THANGAMANI, P.D. - SHELLAKKUTTI, N. - SCHREIBER, L. Suberized transport barriers in plant roots: the effect of silicon. In *JOURNAL OF EXPERIMENTAL BOTANY*.

ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6799-6806., Registrované v: WOS

9. [1.1] LUKACOVA, Zuzana - SVUBOVA, Renata - JANIKOVICOVA, Simona - VOLAJOVA, Zuzana - LUX, Alexander. Tobacco plants (*Nicotiana benthamiana*) were influenced by silicon and were not infected by dodder (*Cuscuta europaea*). In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2019, vol. 139, no., pp. 179-190., Registrované v: WOS

10. [1.1] MOAMERI, Mehdi - KHALAKI, Masoomeh Abbasi. Capability of *Secale montanum* trusted for phytoremediation of lead and cadmium in soils amended with nano-silica and municipal solid waste compost. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2019, vol. 26, no. 24, pp. 24315-24322., Registrované v: WOS

11. [1.1] MOKARRAM-KASHTIBAN, Sahar - HOSSEIN, Seyed Mohsen - KOUCHAKSARAEI, Masoud Tabari - YOUNESI, Habibollah. The impact of nanoparticles zero-valent iron (nZVI) and rhizosphere microorganisms on the phytoremediation ability of white willow and its response. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2019, vol. 26, no. 11, pp. 10776-10789., Registrované v: WOS

12. [1.1] PANDEY, Chandana - KHAN, Ehasanullah - PANTHRI, Medha - TRIPATHI, Rudra Deo - GUPTA, Meetu. Impact of silicon on Indian mustard (*Brassica juncea* L.) root traits by regulating growth parameters, cellular antioxidants and stress modulators under arsenic stress. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2016, vol. 104, no., pp. 216-225., Registrované v: WOS

13. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - REHMAN, Muhammad Zia ur - RINKLEBE, Joerg - TSANG, Daniel C. W. - BASHIR, Arooj - MAQBOOL, Arosha - TACK, F. M. G. - OK, Yong Sik. Cadmium phytoremediation potential of *Brassica* crop species: A review. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 631-632, no., pp. 1175-1191., Registrované v: WOS

14. [1.1] STOLARIKOVA-VACULIKOVA, Miroslava - ROMEO, Stefania - MINNOCCI, Antonio - LUXOVA, Miroslava - VACULIK, Marek - LUX, Alexander - SEBASTIANI, Luca. Anatomical, biochemical and morphological responses of poplar *Populus deltoides* clone Lux to Zn excess. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2015, vol. 109, no., pp. 235-243., Registrované v: WOS

15. [1.1] VACULIKOVA, Miroslava - VACULIK, Marek - TANDY, Susan - LUXOVA, Miroslava - SCHULIN, Rainer. Alleviation of antimonate (SbV) toxicity in maize by silicon (Si). In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2016, vol. 128, no., pp. 11-17., Registrované v: WOS

16. [1.1] VACULIK, Marek - PAVLOVIC, Andrej - LUX, Alexander. Silicon alleviates cadmium toxicity by enhanced photosynthetic rate and modified bundle sheath's cell chloroplasts ultrastructure in maize. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2015, vol. 120, no., pp. 66-73., Registrované v: WOS

17. [1.1] VACULIK, M. - LUKACOVA, Z. - BOKOR, B. - MARTINKA, M. - TRIPATHI, D.K. - LUX, A. Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In *JOURNAL OF*

EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6744-6757., Registrované v: WOS

18. [1.1] WANG, Yichao - HU, Yanhong - DUAN, Yaoke - FENG, Ru - GONG, Haijun. Silicon reduces long-term cadmium toxicities in potted garlic plants. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2016, vol. 38, no. 8, pp., Registrované v: WOS

19. [1.1] WU, Jiawen - GUO, Jia - HU, Yanhong - GONG, Haijun. Distinct physiological responses of tomato and cucumber plants in silicon-mediated alleviation of cadmium stress. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS

20. [1.1] ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Incorporation of biochar and nanomaterials to assist remediation of heavy metals in soil using plant species. In ENVIRONMENTAL TECHNOLOGY & INNOVATION. ISSN 2352-1864, NOV 2020, vol. 20., Registrované v: WOS

21. [1.1] ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Application of titanium dioxide nanoparticles to promote phytoremediation of Cd-polluted soil: contribution of PGPR inoculation. In BIOREMEDIATION JOURNAL. ISSN 1088-9868, JUL 2 2020, vol. 24, no. 2-3, p. 171-189., Registrované v: WOS

22. [1.1] ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Co-application of biochar and titanium dioxide nanoparticles to promote remediation of antimony from soil by Sorghum bicolor: metal uptake and plant response. In HELIYON. AUG 2020, vol. 6, no. 8., Registrované v: WOS

23. [1.1] ZARGAR, Sajad Majeed - MAHAJAN, Reetika - BHAT, Javid A. - NAZIR, Muslima - DESHMUKH, Rupesh. Role of silicon in plant stress tolerance: opportunities to achieve a sustainable cropping system. In 3 BIOTECH. ISSN 2190-572X, 2019, vol. 9, no. 3, pp., Registrované v: WOS

24. [1.1] ZHANG, Liping - YANG, Qianqian - WANG, Shiliang - LI, Wanting - JIANG, Shaoqing - LIU, Yan. Influence of silicon treatment on antimony uptake and translocation in rice genotypes with different radial oxygen loss. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2017, vol. 144, no., pp. 572-577., Registrované v: WOS

25. [1.2] HORIBE, Takanori - SUMI, Hirotaka - IMAI, Shousei - MATSUOKA, Takuya. Effects of heavy metals on the growth of the edible cactus Nopalea cochenillifera grown under hydroponic conditions. In Environmental Control in Biology. ISSN 1880554X, 2019-01-01, 57, 1, pp. 9-13., Registrované v: SCOPUS

26. [1.2] LIANG, Yongchao - NIKOLIC, Miroslav - BÉLANGER, Richard - GONG, Haijun - SONG, Alin. Silicon in agriculture: From theory to practice. In Silicon in Agriculture: From Theory to Practice, 2015-01-01, pp. 1-235., Registrované v: SCOPUS

27. [1.2] LIU, Cai Feng - SHI, Gang Rong - YU, Ru Gang - ZHANG, Zheng. Eco-physiological mechanisms of silicon-induced alleviation of cadmium toxicity in plants: A review. In Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2017-01-01, 37, 23, pp. 7799-7810., Registrované v: SCOPUS

28. [1.2] MOAMERI, Mehdi - DADJOO, Farid. Assessing capability of Artemisia aucheri Boiss for phytoremediation of soils contaminated with heavy metals. In Journal of Rangeland Science. ISSN 20089996, 2019-09-01, 9, 4, pp. 414-425., Registrované v: SCOPUS

29. [1.2] ZAND, Ali Daryabeigi. Toxicity of zero-valent iron nanoparticles and its fate in zea mays. In Advances in Environmental

Technology. ISSN 24766674, 2019-06-01, 5, 3, pp. 149-156. Dostupné na: <https://doi.org/10.22104/AET.2020.4181.1208>., Registrované v: SCOPUS

30. [3.1] LÍŠKA, D. (Denis Líška); SOUKUP, M. (Milan Soukup); LUKÁČOVÁ, Z. (Zuzana Lukáčová); BOKOR, B. (Boris Bokor); VACULÍK, M. (Marek Vaculík). Mechanisms of silicon-mediated alleviation of abiotic stress in plants. Recent advances and future perspective: Silicon in Plants: Advances and Future Prospects (CRC Press Book Series), 2016, p. 1-28.

31. [3.1] RARHMAN, M (Moupia Rahman); HAQ, N (Nazmul Haq); WILLIAMS, ID (Ian D. Williams). Phytoaccumulation of arsenic, cadmium and lead by Brassica juncea parents and their F1 hybrids. In JOURNAL OF ENVIRONMENTAL PROTECTION, 2016, vol. 7, p. 613-622.

32. [3.1] VACULÍK, M. (Marek Vaculík); VACULÍKOVÁ, M. (Miroslava Vaculíková). Role of silicon under heavy metal and toxic element stress. An emphasis on root biology. IN Silicon in Plants: Advances and Future Prospects (CRC Press Book Series), 2016, p. 175-194.

33. [3.2] Grasic, Mateja. Multiple roles of silicon benefit plants. In: Acta Biologica Slovenica, 2019, vol. 62, no. 1, p. 3-56. ISSN 1854-3073., Registrované v: BIOSIS Citation Index

ADDA156 VLČKOVÁ, Viera - NAĐOVÁ, S. - DÚHOVÁ, V. - ZÁVODNÁ, K. - MORÁŇOVÁ, Z. - RAUKO, Peter - KOGAN, Grigorij - MIADOKOVÁ, Eva. Natural microbial polysaccharide sulphoethyl glucan as antigenotoxic and cancer preventing agent. In *Neoplasma*. - Bratislava : Ústav experimentálnej onkológie, Biomedicínske centrum SAV, 1954-, 2006, vol. 53, no. 6, p. 524-529. (2005: 0.731 - IF, Q4 - JCR, 0.325 - SJR, Q4 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0028-2685.

Ohlasy:

1. [1.1] APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
2. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive carbohydrates. In Secondary Metabolite and Functional Food Components: Role in Health and Disease, 2018-01-01, pp. 197-222., Registrované v: SCOPUS
3. [1.2] QIANG, Zheng Ze - WANG, Yan - LI, Shuo - WANG, Ming Wei - LI, Cheng Yi. Structure and activity of Hedysari Radix polysaccharides and its derivatives. In Chinese Journal of New Drugs. ISSN 10033734, 2018-10-15, 27, 19, pp. 2271-2280., Registrované v: SCOPUS

ADDA157 ZEKOVIČ, D. - RADULOVICH, M. - NASTASIVIČ, A. - VRVIČ, M.M. - JAKOVLJEVIČ, D. - KOGAN, Grigorij. Mild Pfitzner–Moffat oxidation of the (1→3)-β-D-glucan from *Saccharomyces cerevisiae*. In *Chemical Papers*, 2006, vol. 60, p. 243-248. (2005: 0.409 - IF, Q4 - JCR, 0.216 - SJR, Q2 - SJR, Current Contents - CCC). (2006 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-006-0043-7>

Ohlasy:

1. [1.1] CHERNO, N. K. - BURDO, O. G. - NAYMENKO, K. I. USING SHF TREATMENT MICROWAVE TO OBTAIN YEAST CELL WALL POLYSACCHARIDES. In JOURNAL OF FOOD SCIENCE AND

- ADDA158 ZICHOVÁ, Miroslava - STRATILOVÁ, Eva - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - BABÁK, Libor - ROSENBERG, Michal. Production of ethanol from waste paper using immobilized yeasts. In *Chemical Papers*, 2017, vol. 71, p. 553-561. (2016: 1.258 - IF, Q3 - JCR, 0.347 - SJR, Q2 - SJR, Current Contents - CCC). (2017 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-016-0036-0>

Ohlasy:

1. [1.1] ABDULKAREEM, Rafid A. - MUALLAH, Shatha K. - GHASEM, Najafpour D. - MOSTAFA, Rahimnejad - SAEED, Osama F. Optimization of enzymatic conversion of waste office paper using response surface methodology for bioethanol production. In *Biochemical and Cellular Archives*. ISSN 09725075, 2018-01-01, 18, pp. 1389-1395., Registrované v: WOS
2. [1.1] KYRIAKOU, Maria - CHATZIIONA, Vasiliki K. - COSTA, Costas N. - KALLIS, Michalis - KOUTSOKERAS, Loukas - CONSTANTINIDES, Georgios - KOUTINAS, Michalis. Biowaste-based biochar: A new strategy for fermentative bioethanol overproduction via whole-cell immobilization. In *APPLIED ENERGY*. ISSN 0306-2619, 2019, vol. 242, no., pp. 480-491., Registrované v: WOS
3. [1.1] NDUBUISI, Ifeanyi A. - QIN, Qijian - LIAO, Guiyan - WANG, Bin - MONEKE, Anene N. - OGBONNA, James C. - JIN, Cheng - FANG, Wenxia. Effects of various inhibitory substances and immobilization on ethanol production efficiency of a thermotolerant *Pichia kudriavzevii*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01729-5>., Registrované v: WOS
4. [1.1] NOBILE, Matias L. - IRIBARREN, Adolfo M. - LEWKOWICZ, Elizabeth S. *Citrobacter koseri* immobilized on agarose beads for nucleoside synthesis: a potential biocatalyst for preparative applications. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2020, vol. 43, no. 4, pp. 637-644. Dostupné na: <https://doi.org/10.1007/s00449-019-02261-z>., Registrované v: WOS

- ADDA159 ZURABYAN, S.E. - BÍLIK, Vojtech - BAUER, Štefan. Synthesis of methyl α -maltoside. In *Chemické zvesti*, 1969, vol. 23, p. 923-927. ISSN 0366-6352.

Ohlasy:

1. [1.1] REINA, Jose J. - RIOBOO, Alicia - MONTENEGRO, Javier. Glycosyl Aldehydes: New Scaffolds for the Synthesis of Neoglycoconjugates via Bioorthogonal Oxime Bond Formation. In *SYNTHESIS-STUTTGART*. ISSN 0039-7881, 2018, vol. 50, no. 4, pp. 831-845., Registrované v: WOS

- ADDA160 ŽOLDÁKOVÁ, A. - SROKOVA, I. - SASINKOVÁ, Vlasta - HIRSCH, Ján - EBRINGEROVÁ, Anna. Biosurfactants based on partially esterified O-(carboxymethyl)starch. In *Chemical papers*, 2005, vol. 59, p. 62-367. ISSN 0366-6352.

Ohlasy:

1. [1.1] LV, Xia - YE, Fayin - LI, Jinfeng - MING, Jian - ZHAO, Guohua. Synthesis and characterization of a novel antioxidant RS4 by esterifying

carboxymethyl sweetpotato starch with quercetin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2016, vol. 152, no., pp. 317-326., Registrované v: WOS

2. [1.1] ZHANG, Hongkui - XU, Cheng - LU, Yuting - WANG, Yuanhao - TAN, Fengzhi - LI, Yuan. The Thermal Stability and Rheological Properties of Alkylated Carboxymethyl Starch. In JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS. ISSN 0022-2348, 2017, vol. 56, no. 8, pp. 595-607., Registrované v: WOS

ADDB Scientific papers in domestic journals registered in Current Contents Connect without IF (non-impacted)

ADDB01 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. III. Preparation of L-glucose by epimerization of L-mannose or L-mannose phenylhydrazone. In *Chemické zvesti*, 1972, vol.26, s. 187-189.

Ohlasy:

1. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS

2. [1.1] SPASOVA, Berta - KUESTERS, Christof - STENGEL, Bruno - BRANDNER, Juergen J. Investigation of process conditions for catalytic conversion of carbohydrates by epimerization using a microstructured reactor. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2016, vol. 105, no., pp. 103-109., Registrované v: WOS

ADDB02 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. IV. Epimerization of aldopentoses. In *Chemické zvesti*, 1972, vol. 26, p. 372-375. ISSN 0366-6352.

Ohlasy:

1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS

ADDB03 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II. Epimerization of D-glucose and D-mannose. In *Chemické zvesti*, 1972, vol.26, s. 183-186.

Ohlasy:

1. [1.1] BAYU, Asep - ABUDULA, Abuliti - GUAN, Guoqing. Reaction pathways and selectivity in chemo-catalytic conversion of biomass-derived carbohydrates to high-value chemicals: A review. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2019, vol. 196, no., pp., Registrované v: WOS

2. [1.1] BAYU, Asep - KARNJANAKOM, Surachai - YOSHIDA, Akihiro - KUSAKABE, Katsuki - ABUDULA, Abuliti - GUAN, Guoqing. Polyoxomolybdates catalysed cascade conversions of cellulose to glycolic acid with molecular oxygen via selective aldohexoses pathways (an epimerization and a [2+4] Retro-aldol reaction). In CATALYSIS TODAY. ISSN 0920-5861, 2019, vol. 332, no., pp. 28-34., Registrované v: WOS

3. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM,

- Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In CHEMPLUSCHEM. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS
4. [1.1] BRAND, Stephen K. - LABINGER, Jay A. - DAVIS, Mark E. Tin Silsesquioxanes as Models for the "Open" Site in Tin-Containing Zeolite Beta. In CHEMCATCHEM. ISSN 1867-3880, 2016, vol. 8, no. 1, pp. 121-124., Registrované v: WOS
5. [1.1] BUENDIA-KANDIA, Felipe - MAUVIEL, Guillain - GUEDON, Emmanuel - RONDAGS, Emmanuel - PETITJEAN, Dominique - DUFOUR, Anthony. Decomposition of Cellulose in Hot-Compressed Water: Detailed Analysis of the Products and Effect of Operating Conditions. In ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 4, pp. 4127-4138., Registrované v: WOS
6. [1.1] DELIDOVICH, Irina - PALKOVITS, Regina. Catalytic Isomerization of Biomass-Derived Aldoses: A Review. In CHEMSUSCHEM. ISSN 1864-5631, 2016, vol. 9, no. 6, pp. 547-561., Registrované v: WOS
7. [1.1] DELIDOVICH, Irina - HOFFMANN, Andreas - WILLMS, Andrea - ROSE, Marcus. Porous Tin-Organic Frameworks as Selective Epimerization Catalysts in Aqueous Solutions. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 6, pp. 3792-3798., Registrované v: WOS
8. [1.1] FRIHED, Tobias Gylling - BOLS, Mikael - PEDERSEN, Christian Marcus. Synthesis of L-Hexoses. In CHEMICAL REVIEWS. ISSN 0009-2665, 2015, vol. 115, no. 9, pp. 3615-3676., Registrované v: WOS
9. [1.1] GIRARD, E. - DELCROIX, D. - CABIAC, A. Catalytic conversion of cellulose to C-2-C-3 glycols by dual association of a homogeneous metallic salt and a perovskite-supported platinum catalyst. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2016, vol. 6, no. 14, pp. 5534-5542., Registrované v: WOS
10. [1.1] HANNAH NGUYEN - NIKOLAKIS, Vladimiro - VLACHOS, Dionisios G. Mechanistic Insights into Lewis Acid Metal Salt-Catalyzed Glucose Chemistry in Aqueous Solution. In ACS CATALYSIS. ISSN 2155-5435, 2016, vol. 6, no. 3, pp. 1497-1504., Registrované v: WOS
11. [1.1] CHETHANA, B. K. - LEE, Dongheon - MUSHIRIF, Samir H. First principles investigation into the metal catalysed 1,2 carbon shift reaction for the epimerization of sugars. In JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL. ISSN 1381-1169, 2015, vol. 410, no., pp. 66-73., Registrované v: WOS
12. [1.1] CHETHANA, B. K. - MUSHIRIF, Samir H. Bronsted and Lewis acid sites of Sn-beta zeolite, in combination with the borate salt, catalyze the epimerization of glucose: A density functional theory study. In JOURNAL OF CATALYSIS. ISSN 0021-9517, 2015, vol. 323, no., pp. 158-164., Registrované v: WOS
13. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
14. [1.1] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic

Ensemble of Acyclic Glucose-Catalyst Complexes. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS

15. [1.1] MUSHRIF, Samir H. - VASUDEVAN, Vallabh - KRISHNAMURTHY, Chethana B. - VENKATESH, Boddu. Multiscale molecular modeling can be an effective tool to aid the development of biomass conversion technology: A perspective. In CHEMICAL ENGINEERING SCIENCE. ISSN 0009-2509, 2015, vol. 121, no., pp. 217-235., Registrované v: WOS

16. [1.1] ORAZOV, Marat - DAVIS, Mark E. Tandem catalysis for the production of alkyl lactates from ketohexoses at moderate temperatures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2015, vol. 112, no. 38, pp. 11777-11782., Registrované v: WOS

17. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS

18. [1.1] SPASOVA, Berta - KUESTERS, Christof - STENGEL, Bruno - BRANDNER, Juergen J. Investigation of process conditions for catalytic conversion of carbohydrates by epimerization using a microstructured reactor. In CHEMICAL ENGINEERING AND PROCESSING. ISSN 0255-2701, 2016, vol. 105, no., pp. 103-109., Registrované v: WOS

19. [1.1] YANG, Xiaomei - ZHANG, Yali - ZHOU, Lipeng - GAO, Beibei - LU, Tianliang - SU, Yunlai - XU, Jie. Production of lactic acid derivatives from sugars over post-synthesized Sn-Beta zeolite promoted by WO₃. In FOOD CHEMISTRY. ISSN 0308-8146, 2019, vol. 289, no., pp. 285-291., Registrované v: WOS

20. [1.1] ZHENG, Mingyuan - PANG, Jifeng - SUN, Ruiyan - WANG, Aiqin - ZHANG, Tao. Selectivity Control for Cellulose to Diols: Dancing on Eggs. In ACS CATALYSIS. ISSN 2155-5435, 2017, vol. 7, no. 3, pp. 1939-1954., Registrované v: WOS

ADEA Scientific papers in other foreign journals not registered in Current Contents Connect with IF (impacted)

ADEA01 BIELY, Peter - KLUEPFEL, D. - MOROSOLI, R. - SHARECK, F. Mode of action of three endo- β -1,4-xylanases of *Streptomyces lividans*. In *Biochimica et Biophysica Acta : protein structure and molecular enzymology*, 1993, vol. 1162, p. 246-254. ISSN 0167-4838. Dostupné na: [https://doi.org/10.1016/0167-4838\(93\)90288-3](https://doi.org/10.1016/0167-4838(93)90288-3)

Ohlasy:

1. [1.1] ALVAREZ-CERVANTES, J. - DOMINGUEZ-HERNANDEZ, E. M. - MERCADO-FLORES, Y. - O'DONOVAN, A. - DIAZ-GODINEZ, G. Mycosphere Essay 10: Properties and characteristics of microbial xylanases. In MYCOSPHERE. ISSN 2077-7000, 2016, vol. 7, no. 10, pp. 1600-1619., Registrované v: WOS

2. [1.1] ALYILEILI, Salem R. - EL-TARABILY, Khaled A. - BELAL, Ibrahim E. H. - IBRAHIM, Wissam H. - SULAIMAN, Mohsin - HUSSEIN, Ahmed S. Intestinal Development and Histomorphometry of Broiler Chickens Fed *Trichoderma reesei* Degraded Date Seed Diets. In FRONTIERS IN

VETERINARY SCIENCE, 2020, vol. 7, no., pp. Dostupné na:

<https://doi.org/10.3389/fvets.2020.00349>., Registrované v: WOS

3. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105639>., Registrované v: WOS

4. [1.1] ENEYSKAYA, Elena V. - BOBROV, Kirill S. - KASHINA, Maria V. - BORISOVA, Anna S. - KULMINSKAYA, Anna A. A novel acid-tolerant beta-xylanase from *Scytalidium candidum* 3C for the synthesis of o-nitrophenyl xylooligosaccharides. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2020, vol. 60, no. 11-12, pp. 971-982. Dostupné na: <https://doi.org/10.1002/jobm.202000303>., Registrované v: WOS

5. [1.1] HASSAN, Ali Saleh - HOUSTON, Kelly - LAHNSTEIN, Jelle - SHIRLEY, Neil - SCHWERDT, Julian G. - GIDLEY, Michael J. - WAUGH, Robbie - LITTLE, Alan - BURTON, Rachel A. A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS

6. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Migan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS

7. [1.1] YAGI, Haruka - TAKEHARA, Ryo - TAMAKI, Aika - TERAMOTO, Koji - TSUTSUI, Sosyu - KANEKO, Satoshi. Functional Characterization of the GH10 and GH11 Xylanases from *Streptomyces olivaceoviridis* E-86 Provide Insights into the Advantage of GH11 Xylanase in Catalyzing Biomass Degradation. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2019, vol. 66, no. 1, pp. 29-35., Registrované v: WOS

ADEA02 BUČKO, Marek - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MISLOVIČOVÁ, Danica - LACÍK, Igor - TKÁČ, Ján. Coencapsulation of oxygen carriers and glucose oxidase in polyelectrolyte complex capsules for the enhancement of D-gluconic acid and beta-gluconolactone production. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2010, vol. 38, p. 90 - 98. (2009: 0.939 - IF, Q4 - JCR). ISSN 1073-1199. Dostupné na: <https://doi.org/10.3109/10731191003634745>

Ohlasy:

1. [1.1] HAMZAH, H.H. - KAMAL, N.N.A. - MENEGHELLO, M. - SHAFIEE, S.A. - SONMEZ, T. - TAIB, M.N.A.M. - SAMSURI, S.H.M. - ZULKIFII, M.F.M. Hexanediamine Monolayer Electrografted at Glassy Carbon Electrodes Enhances Oxygen Reduction Reaction in Aqueous Neutral Media. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, DEC 1 2020, vol. 167, no. 16., Registrované v: WOS

ADEA03 FORANO, E. - DELORT, A.-M. - MATULOVÁ, Mária. Carbohydrate metabolism in *Fibrobacter succinogenes*: What NMR tell us. In *Microbial Ecology*

in Health and Disease : Official Journal of the Society of Microbial Ecology in Health and Disease, 2008, vol.20, p. 94-102. (2007: 0.265 - SJR, Q3 - SJR). ISSN 0891-060X. Dostupné na: <https://doi.org/10.1080/08910600802106517>

Ohlasy:

1. [1.1] BERGMANN, Gaddy T. Microbial community composition along the digestive tract in forage- and grain-fed bison. In *BMC VETERINARY RESEARCH*. ISSN 1746-6148, 2017, vol. 13, no., pp., Registrované v: WOS
2. [1.1] KIKUCHI, Jun - ITO, Kengo - DATE, Yasuhiro. Environmental metabolomics with data science for investigating ecosystem homeostasis. In *PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY*. ISSN 0079-6565, 2018, vol. 104, no., pp. 56-88., Registrované v: WOS
3. [1.1] KRISTOFFERSEN, Camilla - JENSEN, Rasmus B. - AVERSHINA, Ekaterina - AUSTBO, Dag - TAUSON, Anne-Helene - RUDI, Knut. Diet-Dependent Modular Dynamic Interactions of the Equine Cecal Microbiota. In *MICROBES AND ENVIRONMENTS*. ISSN 1342-6311, 2016, vol. 31, no. 4, pp. 378-386., Registrované v: WOS
4. [1.1] RAUT, Mahendra P. - COUTO, Narciso - KARUNAKARAN, Esther - BIGGS, Catherine A. - WRIGHT, Phillip C. Deciphering the unique cellulose degradation mechanism of the ruminal bacterium *Fibrobacter succinogenes* S85. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
5. [1.1] VETHARANIAM, Indrakumar - UPSDELL, Martin - KELLY, William J. - ATTWOOD, Graeme T. - MOON, Christina D. - HARRIS, Philip J. In Silico Comparison of the Hemicelluloses Xyloglucan and Glucuronoarabinoxylan in Protecting Cellulose from Degradation. In *COMPUTATION*. ISSN 2079-3197, 2015, vol. 3, no. 3, pp. 336-353., Registrované v: WOS
6. [1.1] XIE, Xiao - YANG, Chunlei - GUAN, Le L. - WANG, Jiakun - XUE, Mingyuan - LIU, Jian X. Persistence of Cellulolytic Bacteria *Fibrobacter* and *Treponema* After Short-Term Corn Stover-Based Dietary Intervention Reveals the Potential to Improve Rumen Fibrolytic Function. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
7. [1.1] ZHANG, Jun - SHI, Haitao - WANG, Yajing - LI, Shengli - CAO, Zhijun - JI, Shoukun - HE, Yuan - ZHANG, Hongtao. Effect of Dietary Forage to Concentrate Ratios on Dynamic Profile Changes and Interactions of Ruminal Microbiota and Metabolites in Holstein Heifers. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

ADEA04 HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - MOZEŠ, Štefan - SROKOVÁ, I. - EBRINGEROVÁ, Anna. Hydrophobically modified pectates as novel functional polymers in food and non-food applications. In *BioResources*, 2008, vol. 3, p. 71-78. ISSN 1930-2126.

Ohlasy:

1. [1.1] JAFAR MAZUMDER, Mohammad A. A Review of Green Scale Inhibitors: Process, Types, Mechanism and Properties. In *COATINGS*, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/coatings10100928>., Registrované v: WOS
2. [1.1] UMOREN, Saviour A. - EDUOK, Ubong M. Application of

carbohydrate polymers as corrosion inhibitors for metal substrates in different media: A review. In CARBOHYDRATE POLYMERS, 2016, vol. 140, no., pp. 314-341. ISSN 0144-8617., Registrované v: WOS

ADEB Scientific papers in other foreign journals not registered in Current Contents Connect without IF (non-impacted)

ADEB01 BIELY, Peter. Changes in the rate of synthesis of wall polysaccharides during the cell cycle of yeast. In *Archives of Microbiology*, 1978, vol. 119, p. 213-214. ISSN 0302-8933.

Ohlasy:

1. [1.1] AON, Juan C. - TECSON, Ricardo C. - LOLADZE, Vakhtang. *Saccharomyces cerevisiae* morphological changes and cytokinesis arrest elicited by hypoxia during scale-up for production of therapeutic recombinant proteins. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS

ADEB02 BIELY, Peter - WESTERENG, Bjorge - PUCHART, Vladimír - DE MAAYER, Pieter - COWAN, Don A. Recent progress in understanding the mode of action of acetylxy lan esterases. In *Journal of Applied Glycoscience*, 2014, vol. 61, p. 35-44. ISSN 1880-7291.

Ohlasy:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS

2. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS

3. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

4. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GOMEZ, Leonardo D. - MIEDES, Eva - BANASIAK, Alicja - RATKE, Christine - GAERTNER, Cyril - MOUILLE, Gregory - MCQUEEN-MASON, Simon J. - MOLINA, Antonio - SELLSTEDT, Anita - TENKANEN, Maija - MELLEROWICZ, Ewa J. Expression of fungal acetyl xylan esterase in *Arabidopsis thaliana* improves saccharification of stem lignocellulose. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2016, vol. 14, no. 1, pp. 387-397., Registrované v: WOS

5. [1.1] RAJENDRAN, Subin R. C. K. - OKOLIE, Chigozie Louis - UDENIGWE, Chibuike C. - MASON, Beth. Structural features underlying prebiotic activity of conventional and potential prebiotic oligosaccharides in food and health. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2017,

vol. 41, no. 5, pp., Registrované v: WOS

6. [1.1] SCHENDEL, Rachel R. - PUCHBAUER, Ann-Katrin - BUNZEL, Mirko. Glycoside Hydrolase Family 51 alpha-L-Arabinofuranosidases from *Clostridium thermocellum* and *Cellvibrio japonicus* Release O-5-Feruloylated Arabinose. In CEREAL CHEMISTRY. ISSN 0009-0352, 2016, vol. 93, no. 6, pp. 650-653., Registrované v: WOS
7. [1.1] ZWECKMAIR, Thomas - HETTEGGER, Hubert - ABUSHAMMALA, Hatem - BACHER, Markus - POTTHAST, Antje - LABORIE, Marie-Pierre - ROSENAU, Thomas. On the mechanism of the unwanted acetylation of polysaccharides by 1,3-dialkylimidazolium acetate ionic liquids: part 1-analysis, acetylating agent, influence of water, and mechanistic considerations. In CELLULOSE. ISSN 0969-0239, 2015, vol. 22, no. 6, pp. 3583-3596., Registrované v: WOS

ADEB03 BOZOOVÁ, A. - RYBÁR, Alfonz - ALFÖLDY, Juraj - BAŠNÁKOVÁ, G. 3-Alkyl-6,5-methyl-5,7-dioxo-4,5,6,7-tetrahydro-1,2,3-triazolo(4,5-d)pyrimidines and alkylations. In *Collection of Czechoslovak Chemical Communications*, 1992, vol. 57, p. 1314-1325. (1992 - Current Contents). ISSN 0010-0765.

Ohlasy:

1. [1.1] BABKOV, D. A. - GEISMAN, A. N. - KHANDAZHINSKAYA, A. L. - NOVIKOV, M. S. Methods for the synthesis of aza(deaza)xanthines as a basis of biologically active compounds. In RUSSIAN CHEMICAL REVIEWS. ISSN 0036-021X, 2016, vol. 85, no. 3, pp. 308-334., Registrované v: WOS

ADEB04 HROMÁDKOVÁ, Zdenka - STAVOVÁ, A. - EBRINGEROVÁ, Anna - HIRSCH, Ján. Effect of buckwheat hull hemicelluloses addition on the bread-making quality of wheat flour. In *Journal of Food and Nutrition Research*, 2007, vol. 46, p. 158-166. ISSN 1336-8672.

Ohlasy:

1. [1.1] GIMENEZ-BASTIDA, Juan Antonio - PISKULA, Mariusz K. - ZIELINSKI, Henryk. Recent Advances in Processing and Development of Buckwheat Derived Bakery and Non-Bakery Products a Review. In POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES. ISSN 1230-0322, 2015, vol. 65, no. 1, pp. 9-20., Registrované v: WOS
2. [1.1] LAUKOVA, Michaela - KAROVICOVA, Jolana - KOHAJDOVA, Zlatica - BABULICOVA, Maria - RUCKSCHLOSS, Lubomir - LOPATKOVA, Veronika. Potential of bran from various wheat variety for cookies production. In ACTA CHIMICA SLOVACA. ISSN 1337-978X, 2016, vol. 9, no. 2, pp. 95-99., Registrované v: WOS
3. [1.1] MACKELA, Ignas - ANDRIEKUS, Tomas - VENS Kutonis, Petras Rimantas. Biorefining of buckwheat (*Fagopyrum esculentum*) hulls by using supercritical fluid, Soxhlet, pressurized liquid and enzyme-assisted extraction methods. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2017, vol. 213, no., pp. 38-46., Registrované v: WOS
4. [1.1] STAROWICZ, Malgorzata - KOUTSIDIS, Georgios - ZIELINSKI, Henryk. Sensory analysis and aroma compounds of buckwheat containing products-a review. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2018, vol. 58, no. 11, pp. 1767-1779., Registrované v: WOS

5. [1.1] ZHU, Fan. Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116819>., Registrované v: WOS
6. [1.2] SAKAČ, Marijana - JOVANOVIĆ, Pavle - PESTORIĆ, Mladenka - SEDEJ, Ivana. Buckwheat flour as an ingredient for value-added bread, pasta and confectionery products. In Buckwheat: Composition, Production and Uses, 2018-08-17, pp. 99-178., Registrované v: SCOPUS

ADEB05 ROSIK, J. - KARDOŠOVÁ, Alžbeta - TOMAN, Rudolf - CAPEK, Peter. Isolation and characterization of mucilages from *Althaea officinalis* L. and *Malva silvestris* L. In *Československá farmacie : časopis Farmaceutické společnosti*, 1984, vol. 33, p. 68. ISSN 0009-05330.

Ohlasy:

1. [1.1] YOUNESIKELAKI, Fatemeh S. - EBRAHIMZADEH, Mohammad H. - YOUSEFI JAVAN, Iman - RAHBARIAN, Raheleh - NANNA, Rama S. Enhancement of Production of Pharmaceutical Compounds; Scopoletin and coumaric acid Via Yeast Extract Elicitation of Cell Culture of *Althaea officinalis*. In LATIN AMERICAN JOURNAL OF PHARMACY. ISSN 0326-2383, 2018, vol. 37, no. 7, pp. 1304-1307., Registrované v: WOS

ADEB06 SOLÁR, R. - KURJATKO, S. - MAMOŇ, M. - KOŠÍKOVÁ, Božena - NEUSCHLOVÁ, E. - VÝBOHOVÁ, E. - HUDEC, J. Selected properties of beech wood degraded by brown-rot fungus *Coniophora puteana*. In *Drvna industrija*, 2007, vol. 58, p. 3-11.

Ohlasy:

1. [1.1] JAMAL, Parveen - SAHEED, Olorunnisola Kola - KARIM, Mohammed Ismail Abdul - ALAM, Md Zahangir - MUYIBI, Suleyman Aremu. A fermentative approach to ameliorating solid waste challenges within food and hospitality industry. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2015, vol. 102, no., pp. 182-190., Registrované v: WOS
2. [1.2] HONG, Jin Young - LEE, Jeung Min - KIM, Young Hee - KIM, Soo Ji - JO, Chang Wook - PARK, Ji Hee. Distribution and diversity of airborne fungi in wooden cultural heritages located at different geographical condition: Cases studies on Seonamsa temple, Suncheon and Bupjusa temple, Boeun. In Korean Journal of Mycology. ISSN 0253651X, 2019-01-01, 47, 2, pp. 131-142., Registrované v: SCOPUS

ADEB07 STANKOVIČ, Ľudovít - LINEK, K. - FEDOROŇKO, M. Ketoses and their derivatives. Part III. The synthesis of methylglycosides of 2-pentuloses by the Fischer method, but with catalysis by acetic acid. In *Carbohydrate Research*, 1974, vol. 35, p. 242-246. ISSN 0008-6215.

Ohlasy:

1. [1.2] PEREPELOV, A. V. - SENCHENKOVA, S. N. - KALINCHUK, N. A. - SHASHKOV, A. S. - KNIREL, Yu A. Structure of O-polysaccharide of *Escherichia coli* O95: a disaccharide repeating unit containing d-fucose and d-threo-pent-2-ulose (xylulose). In Russian Chemical

- ADEB08 TOPOĽSKÁ, Dominika - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - RAPTA, Peter - BAŇASOVÁ, Mária - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Determination of protective properties of Bardejovské Kupele spa curative waters by rotational viscometry and ABTS assay. In *Balneo Research Journal*, 2014, vol. 5, no. 1, p. 3-15. ISSN 2069-7597.

Ohlasy:

1. [1.1] MUNTEANU, C. - MUNTEANU, D. - HOTETEU, M. - DOGARU, G. Balneotherapy - medical, scientific, educational and economic relevance reflected by more than 250 articles published in *Balneo Research Journal*. In *BALNEO RESEARCH JOURNAL*. ISSN 2069-7597, 2019, vol. 10, no. 3, p. 174-203., Registrované v: WOS
2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *Analysis and Performance of Engineering Materials: Key Research and Development*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING*. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

- ADEB09 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from natural environments against some medically important *Candida* species. In *Polish Journal of Microbiology*, 2007, vol. 56, p. 39-43. (2006: 0.243 - SJR, Q2 - SJR). ISSN 1733-1331.

Ohlasy:

1. [1.1] BOCCAZZI, Ilaria Varotto - OTTOBONI, Matteo - MARTIN, Elena - COMANDATORE, Francesco - VALLONE, Lisa - SPRANGHERS, Thomas - EECKHOUT, Mia - MEREGHETTI, Valeria - PINOTTI, Luciano - EPIS, Sara. A survey of the mycobiota associated with larvae of the black soldier fly (*Hermetia illucens*) reared for feed production. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS
2. [1.1] LISANTI, Maria Tiziana - BLAIOTTA, Giuseppe - NIOI, Claudia - MOIO, Luigi. Alternative Methods to SO₂ for Microbiological Stabilization of Wine. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2019, vol. 18, no. 2, pp. 455-479., Registrované v: WOS
3. [1.1] LUKSA, Juliana - RAVOITYTE, Bazile - KONOVALOVAS, Aleksandras - AITMANAITE, Lina - BUTENKO, Anzhelika - YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. Different Metabolic Pathways Are Involved in Response of *Saccharomyces cerevisiae* to L-A and M Viruses. In *TOXINS*. ISSN 2072-6651, 2017, vol. 9, no. 8, pp., Registrované v: WOS
4. [1.1] WOJCIK, Monika - KORDOWSKA-WIATER, Monika. The occurrence of killer activity in yeasts isolated from natural habitats. In *ACTA*

BIOCHIMICA POLONICA. ISSN 0001-527X, 2015, vol. 62, no. 4, pp. 821-824., Registrované v: WOS

5. [1.2] KLASSEN, Roland - SCHAFFRATH, Raffael - BUZZINI, Pietro - GANTER, Philip F. Antagonistic interactions and killer yeasts. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 229-275., Registrované v: SCOPUS

6. [1.2] NATH, A. K. - GUPTA, Anupama - NEOPANY, Bhanu - VYAS, Gitanjali - MANEESRI, Jaruwan - THAKUR, Nisha - SHARMA, Nivedita - ACHI, Ome Kalu - LAKHANPAL, Pooja - SCHILLINGER, Ulrich. Biotechnology and traditional fermented foods. In *Indigenous Fermented Foods of South Asia*, 2016-01-05, pp. 773-823., Registrované v: SCOPUS

ADFA Scientific papers in other domestic journals not registered in Current Contents Connect with IF (impacted)

ADFA01 KOŠŤALOVÁ, D. - BUKOVSKÝ, M. - KOŠČOVÁ, H. - KARDOŠOVÁ, Alžbeta. Štúdium antikomplementovej aktivity extraktu Mahonia aquifolium bisbenzylizochinolínových alkaloidov a berberínu (A study of the anticomplementary activity of Mahonia aquifolium crude extract, bisbenzylisoquinoline, alkaloids, and berberine). In *Česká a Slovenská farmacie : časopis České farmaceutické společnosti a Slovenské farmaceutické společnosti*, 2001, roč. 50 č., s. 286-289. ISSN 1210-7816.

Ohlasy:

1. [1.1] LIU, Huaide - WANG, Jing - ZHANG, Quanbin - ZHANG, Hong. The effect of different substitute groups and molecular weights of fucoidan on neuroprotective and anticomplement activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 82-89., Registrované v: WOS

ADFB Scientific papers in other domestic journals not registered in Current Contents Connect without IF (non-impacted)

ADFB01 DŘÍMAL, Ján - KNEZL, Vladimír - NAVAROVÁ, Jana - NEDELČEVOVÁ, Jana - PAULOVICHOVÁ, Ema - SOTNÍKOVÁ, Ružena - ŠNIRC, Vladimír - DŘÍMAL, Daniel. Role of inflammatory cytokines and chemoattractants in the rat model of streptozotocin-induced diabetic heart failure. In *Endocrine Regulations*, 2008, vol. 42, p. 129-135. (2007: 0.499 - SJR, Q2 - SJR). ISSN 1210-0668.

Ohlasy:

1. [1.1] ATTIA, H. - AL-RASHEED, N. - AL-RASHEED, N. - FADDAH, L. The combination of zinc and glibenclamide limits cardiovascular complications in diabetic rats via multiple mechanisms. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2015, vol. 28, no. 2, p. 499-508, Registrované v: WOS

2. [1.1] HSU, Y.M. - HUNG, Y.C. - HU, L.H. - LEE, Y.J. - YIN, M.C. Anti-diabetic effects of madecassic acid and rotundic acid. In *NUTRIENTS*. ISSN 2072-6643, 2015, vol. 7, no. 12, p. 10065-10075., Registrované v: WOS

3. [1.1] HUNG, Y.C. - YANG, H.T. - YIN, M.C. Asiatic acid and maslinic acid protected heart via anti-glycative and anti-coagulatory activities in diabetic mice. In *FOOD & FUNCTION*. ISSN 2042-6496, 2015, vol. 6, no. 9, p. 2967-2974, Registrované v: WOS

4. [1.1] CHAN, K.C. - CHEN, S.C. - CHEN, P.C. Astaxanthin attenuated thrombotic risk factors in type 2 diabetic patients. In *JOURNAL OF*

FUNCTIONAL FOODS. ISSN 1756-4646, 2019, vol. 53, p. 22-27.,

Registrované v: WOS

5. [1.1] CHAN, K.C. - KOK, K.E. - HUANG, K.F. - WENG, Y.L. -

CHUNG, Y.C. Effects of fermented red bean extract on nephropathy in streptozotocin-induced diabetic rats. In FOOD & NUTRITION RESEARCH. ISSN 1654-6628, 2020, vol. 64, art. no. 4272., Registrované v: WOS

6. [1.1] KAMALI, K. - SALMANI KORJAN, E. - EFTEKHAR, E. -

MALEKZADEH, K. - GHADIRI SOUFI, F. The role of miR-146a on NF- κ B expression level in human umbilical vein endothelial cells under hyperglycemic condition. In Bratislava MEDICAL JOURNAL. ISSN 0006-9248, 2016, vol. 117, no. 7, p. 376-380., Registrované v: WOS

7. [1.1] PARIKH, M.C. - PATEL, S.N. - SHEN, Y. - LAU-CAM, C.A.

Role of taurine on the actions of alcohol against systemic and cardiac biochemical changes in the diabetic rat. In TAURINE 9. Book Series: ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY. ISSN 0065-2598, ISBN 978-3-319-15125-0, 2015, vol. 803, p. 313-338., Registrované v: WOS

8. [1.1] PU, J.J. - ZHU, S. - ZHOU, D.D. - ZHAO, L.D. - YIN, M. -

WANG, Z.J. - HONG, J. Propofol Alleviates Apoptosis Induced by Chronic High Glucose Exposure via Regulation of HIF-1 α in H9c2 Cells. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2019, vol. 2019, art. no. 4824035., Registrované v: WOS

9. [1.1] SADDI, A.A. - MOHAMED, A.M. - SHAIKH, A.M.

Prophylactic mechanisms of Cucumis melo var. flexuosus and Phoenix dactylifera fruit extracts against diabetic cardiomyopathy in streptozotocin induced diabetic rats. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2018, vol. 31, no. 2, p. 699-707., Registrované v: WOS

10. [1.1] SHATHILI, A.M. - BROWN, H.M. - EVEREST-DASS, A.V. -

TAN, T.C.Y. - PARKER, L.M. - THOMPSON, J.G. - PACKER, N.H. The effect of streptozotocin-induced hyperglycemia on N- and O-linked protein glycosylation in mouse ovary. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 11, p. 832-840., Registrované v: WOS

11. [1.1] SUN, B. - LI, C. - ZUO, L. - LIU, P. Protection of SAL B with

H9C2 cells. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2016, vol. 54, no. 5, p. 889-895., Registrované v: WOS

12. [1.1] WU, F. - QIU, Y.H. - YE, G.M. - LUO, H.D. - JIANG, J.S. -

YU, F. - ZHOU, W. - ZHANG, S. - FENG, J.Z. Treatment with hydrogen molecule attenuates cardiac dysfunction in streptozotocin-induced diabetic mice. In CARDIOVASCULAR PATHOLOGY. ISSN 1054-8807, 2015, vol. 24, no. 5, p. 294-303, Registrované v: WOS

13. [2.2] ULUSU, N.N. - GÖK, M. - ŞAKUL, A.A.S. - ARI, N. -

STEFEEK, M. - KARASU, Ç. Antioxidant SMe1EC2 modulates pentose phosphate pathway and glutathione-dependent enzyme activities in tissues of aged diabetic rats. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2017, vol. 10, no. 4, p. 148-154., Registrované v: SCOPUS

ADFB02 KÁKONIOVÁ, Daniela - VAVERKOVÁ, Štefánia - LIŠKOVÁ, Desana - URGEOVÁ, E. - JURÁKOVÁ, Z.. The possibility to enhance flavonoids production

in *Rubia tinctorum* L. callus cultures. In *Nova biotechnologica*, 2009, vol. 9, p. 191-197. ISSN 1337-8783.

Ohlasy:

1. [1.1] ESSAIDI, Ismahen - SNOUSSI, Ahmed - KOUBAIER, Hayet Ben Haj - CASABIANCA, Herve - BOUZOUTA, Nabiha. Effect of acid hydrolysis on alizarin content, antioxidant and antimicrobial activities of *Rubia tinctorum* extracts. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 5, pp. 379-384., Registrované v: WOS
2. [1.1] TALUKDER, Pratik - TALAPATRA, Shonima - GHOSHAL, Nirmalya - SEN RAYCHAUDHURI, Sarmistha. Antioxidant activity and high-performance liquid chromatographic analysis of phenolic compounds during in vitro callus culture of *Plantago ovata* Forsk. and effect of exogenous additives on accumulation of phenolic compounds. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2016, vol. 96, no. 1, pp. 232-244., Registrované v: WOS

ADFB03 KOŠÍKOVÁ, Božena - LÁBAJ, Juraj. Antigenotoxic effect of lignin preparations from wastes of pulp and paper industry - in vitro and ex vivo activity. In *Acta Facultatis Xylologiae*, 2011, roč. 53, s. 69-76. (2010: 0.160 - SJR, Q3 - SJR). (2011 - SCOPUS). ISSN 1336-3824.

Ohlasy:

1. [1.1] LUIS ESPINOZA-ACOSTA, Jose - ISABEL TORRES-CHAVEZ, Patricia - RAMIREZ-WONG, Benjamin - MARIA LOPEZ-SAIZ, Carmen - MONTANO-LEYVA, Beatriz. Antioxidant, Antimicrobial, and Antimutagenic Properties of Technical Lignins and Their Applications. In *BIORESOURCES*. ISSN 1930-2126, 2016, vol. 11, no. 2, pp. 5452-5481., Registrované v: WOS
2. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADFB04 LUKÁŠOVÁ, E. - VOJTÍŠKOVÁ, M. - JELEN, F. - STICZAY, T. - PALEČEK, E. Osmium-induced alteration in DNA structure. In *General Physiology and Biophysics*, 1984, vol. 3, p. 175-191. ISSN 0231-5882.

Ohlasy:

1. [1.1] DE FREITAS OLIVEIRA, Johny Wyllas - OLIVEIRA ROCHA, Hugo Alexandre - TOSCANO QUEIROZ DE MEDEIROS, Wendy Marina - SILVA, Marcelo Sousa. Application of Dithiocarbamates as Potential New Antitrypanosomatids-Drugs: Approach Chemistry, Functional and Biological. In *MOLECULES*, 2019, vol. 24, no. 15, pp., Registrované v: WOS

ADMA Scientific papers in foreign impacted journals registered in Web of Sciences or Scopus

ADMA01 ARIANI, Andrea - DI BACCIO, Daniela - ROMEO, Stefania - LOMBARDI, Lara - ANDREUCCI, Andrea - LUX, Alexander - HORNER, David Stephen - SEBASTIANI, Luca. RNA sequencing of *Populus x canadensis* roots identifies key molecular mechanisms underlying physiological adaption to excess zinc. In *PLoS ONE*, 2015, vol. 10, p. e0117571. (2014: 3.234 - IF, Q1 - JCR, 1.559 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: <https://doi.org/10.1371/journal.pone.0117571>

Ohlasy:

1. [1.1] BENYO, Daniel - HORVATH, Edit - NEMETH, Edit - LEVICZKY, Tuende - TAKACS, Kinga - LEHOTAI, Nora - FEIGL, Gabor - KOLBERT, Zsuzsanna - OERDOEG, Attila - GALLE, Robert - CSISZAR, Jolan - SZABADOS, Laszlo - ERDEI, Laszlo - GALLE, Agnes. Physiological and molecular responses to heavy metal stresses suggest different detoxification mechanism of *Populus deltoides* and *P. x canadensis*. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2016, vol. 201, no., pp. 62-70., Registrované v: WOS
2. [1.1] DAS, Zeycan Akcan - DIMLIOGLU, Gizem - BOR, Melike - OZDEMIR, Filiz. Zinc induced activation of GABA-shunt in tobacco (*Nicotiana tabaccum* L.). In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2016, vol. 122, no., pp. 78-84., Registrované v: WOS
3. [1.1] ERIK CRUZ-VALDERRAMA, Jose - GOMEZ-MAQUEO, Ximena - SALAZAR-IRIBE, Alexis - ZUNIGA-SANCHEZ, Esther - HERNANDEZ-BARRERA, Alejandra - QUEZADA-RODRIGUEZ, Elsa - GAMBOA-DEBUEN, Alicia. Overview of the Role of Cell Wall DUF642 Proteins in Plant Development. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 13, pp., Registrované v: WOS
4. [1.1] GOMEZ, Eva M. - BUTI, Matteo - SARGENT, Daniel J. - DICENTA, Federico - ORTEGA, Encarnacion. Transcriptomic analysis of pollen-pistil interactions in almond (*Prunus dulcis*) identifies candidate genes for components of gametophytic self-incompatibility. In TREE GENETICS & GENOMES. ISSN 1614-2942, 2019, vol. 15, no. 4, pp., Registrované v: WOS
5. [1.1] GOMEZ, Luis - CONTRERAS, Angela - BOLONIO, David - QUINTANA, Julia - ONATE-SANCHEZ, Luis - MERINO, Irene. Phytoremediation with trees. In MOLECULAR PHYSIOLOGY AND BIOTECHNOLOGY OF TREES. ISSN 0065-2296, 2019, vol. 89, no., pp. 281-321., Registrované v: WOS
6. [1.1] HO, Chai-Ling - TAN, Yung-Chie - YEOH, Keat-Ai - GHAZALI, Ahmad-Kamal - YEE, Wai-Yan - HOH, Chee-Choong. De novo transcriptome analyses of host-fungal interactions in oil palm (*Elaeis guineensis* Jacq.). In BMC GENOMICS. ISSN 1471-2164, 2016, vol. 17, no., pp., Registrované v: WOS
7. [1.1] PARK, Seong-Bum - KIM, Jong Youn - HAN, Jung Yeon - AHN, Chang-Ho - PARK, Eung-Jun - CHOI, Yong Eui. Exploring genes involved in benzoic acid biosynthesis in the *Populus davidiana* transcriptome and their transcriptional activity upon methyl jasmonate treatment. In JOURNAL OF CHEMICAL ECOLOGY. ISSN 0098-0331, 2017, vol. 43, no. 11-12, pp. 1097-1108., Registrované v: WOS

ADMA02 BAÑASOVÁ, Mária - SASINKOVÁ, Vlasta - MENDICHI, Raniero - PEREČKO, Tomáš - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by Weissberger's oxidative system: potential antioxidative effect of bucillamine. In *Neuroendocrinology Letters*, 2012, vol. 33, suppl. 3, p. 151-154. (2011: 1.296 - IF, Q4 - JCR, 0.436 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] DONG, X.D. - PAN, R.J. - ZOU, S.M. - HE, M.L. - WANG, C.H. Oxidative degradation of the sulfated polysaccharide isolated from sea

cucumber *Holothuria nobilis*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2015, vol. 50, no. 2, p. 294-301., Registrované v: WOS

2. [1.1] MATYASOVSKY, J. - SEDLIACIK, J. - SIMON, P. - NOVAK, I. - KRYSTOFIAK, T. - JURKOVIC, P. - DUCHOVIC, P. - SEDLIACIKOVA, M. - CIBULKOVA, Z. - MICUSIK, M. - KLEINOVA, A. Antioxidant Activity of Keratin Hydrolysates Studied by DSC. In *JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION*. ISSN 0002-9726, 2019, vol. 114, no. 1, p. 20-28., Registrované v: WOS

ADMA03 BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 37-47. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150005>

Ohlasy:

1. [1.1] ALIHEIDARI, Nahal - ALIAHMAD, Nojan - AGARWAL, Mangilal - DALIR, Hamid. Electrospun Nanofibers for Label-Free Sensor Applications. In *SENSORS*, 2019, vol. 19, no. 16, pp., Registrované v: WOS

2. [1.1] ANUSHA, J. R. - KIM, Byung Chul - YU, Kook-Hyun - RAJ, C. Justin. Electrochemical biosensing of mosquito-borne viral disease, dengue: A review. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS

3. [1.1] BELICKA, Ludmila. Introduction to Glycomics and Glycan Analysis. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 33-64., Registrované v: WOS

4. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, Maria. Post-translational modifications in tumor biomarkers: the next challenge for aptamers? In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 8, pp. 2059-2065., Registrované v: WOS

5. [1.1] DORCAK, Vlastimil - TREFULKA, Mojmir - PALECEK, Emil. A Preliminary Study of Os(VI)-Binding Specificity to Glycopeptide and Peptide. In *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXVIII*, 2018, vol., no., pp. 35-38., Registrované v: WOS

6. [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS

7. [1.1] HASSAN, Sammer-ul - DONIA, Ahmed - SIAL, Usman - ZHANG, Xunli - BOKHARI, Habib. Glycoprotein- and Lectin-Based Approaches for Detection of Pathogens. In *PATHOGENS*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pathogens9090694>., Registrované v: WOS

8. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL*

CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS

9. [1.1] HOSODA, Masae - TAKAHASHI, Yushi - SHIOTA, Masaaki - SHINMACHI, Daisuke - INOMOTO, Renji - HIGASHIMOTO, Shinichi - AOKI-KINOSHITA, Kiyoko F. MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 464, no., pp. 44-56., Registrované v: WOS

10. [1.1] MASIGOL, Mohammadali - FATTAHI, Niloufar - BARUA, Niloy - LOKITZ, Bradley S. - RETTERER, Scott T. - PLATT, Thomas G. - HANSEN, Ryan R. Identification of Critical Surface Parameters Driving Lectin-Mediated Capture of Bacteria from Solution. In BIOMACROMOLECULES. ISSN 1525-7797, 2019, vol. 20, no. 7, pp. 2852-2863., Registrované v: WOS

11. [1.1] MENON, Shalini - MATHEW, Manna Rachel - SAM, Sonia - KEERTHI, K. - KUMAR, K. Girish. Recent advances and challenges in electrochemical biosensors for emerging and re-emerging infectious diseases. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 878, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114596>., Registrované v: WOS

12. [1.1] MISE, Koki - IMAMURA, Mariko - YAMAGUCHI, Satoshi - TESHIGAWARA, Sanae - TONE, Atsuhito - UCHIDA, Haruhito A. - EGUCHI, Jun - NAKATSUKA, Atsuko - OGAWA, Daisuke - YOSHIDA, Michihiro - YAMADA, Masao - SHIKATA, Kenichi - WADA, Jun. Identification of Novel Urinary Biomarkers for Predicting Renal Prognosis in Patients With Type 2 Diabetes by Glycan Profiling in a Multicenter Prospective Cohort Study: U-CARE Study 1. In DIABETES CARE. ISSN 0149-5992, 2018, vol. 41, no. 8, pp. 1765-1775., Registrované v: WOS

13. [1.1] MITCHELL, Carter A. - RAMESSAR, Koreen - O'KEEFE, Barry R. Antiviral lectins: Selective inhibitors of viral entry. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2017, vol. 142, no., pp. 37-54., Registrované v: WOS

14. [1.1] MITCHELL, Carter A. - RAMESSAR, Koreen - O'KEEFE, Barry R. Antiviral lectins: Selective inhibitors of viral entry. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2017, vol. 142, no., pp. 37-54., Registrované v: WOS

15. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS

16. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS

17. [1.1] TOBOLA, Felix - SYLVANDER, Elise - GAFKO, Claudia - WILTSCHI, Birgit. 'Clickable lectins': bioorthogonal reactive handles facilitate the directed conjugation of lectins in a modular fashion. In INTERFACE FOCUS. ISSN 2042-8898, 2019, vol. 9, no. 2, pp., Registrované v: WOS

18. [1.1] VACCHINI, Mattia - EDWARDS, Rana - GUIZZARDI, Roberto - PALMIOLI, Alessandro - CIARAMELLI, Carlotta - PAIOTTA, Alice - AIROLDI, Cristina - LA FERLA, Barbara - CIPOLLA, Laura. Glycan Carriers As Glycotools for Medicinal Chemistry Applications. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2019, vol. 26, no. 35, pp. 6349-6398., Registrované v: WOS
19. [1.1] YAZDI, Mohammad Kaji - GHAZIZADEH, E. - NESHASTEHRIZ, Ali. Different liposome patterns to detection of acute leukemia based on electrochemical cell sensor. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1109, no., pp. 122-129. Dostupné na: <https://doi.org/10.1016/j.aca.2020.02.060>., Registrované v: WOS
20. [1.2] CHEPYALA, Ramchander - BADRUDDOZA, Abu Zayed Md - AZAD, Mohammad - MCCARTHY, Jason R. - NURUNNABI, Md. Graphene and its derivatives as biosensing platform for healthcare applications. In Biomedical Applications of Graphene and 2D Nanomaterials, 2019-01-01, pp. 187-215., Registrované v: SCOPUS

ADMA04 BENNATI-GRANIER, Chloe - GARAJOVÁ, Soňa - CHAMPION, Charlotte - GRISEL, Sacha - HAON, Mireille - ZHOU, Simeng - FANUEL, Mathieu - ROPARTZ, David - ROGNIAUX, Héléne - GIMBERT, Isabelle - RECORD, Eric - BERRIN, Jean-Guy. Substrate specificity and regioselectivity of fungal AA9 lytic polysaccharide monooxygenases secreted by *Podospira anserina*. In *Biotechnology for biofuels*, 2015, vol. 8, article no. 90. (2014: 6.044 - IF, Q1 - JCR, 2.490 - SJR, Q1 - SJR). ISSN 1754-6834. Dostupné na: <https://doi.org/10.1186/s13068-015-0274-3>

Ohlasy:

1. [1.1] ADSUL, Mukund - SANDHU, Simranjeet Kaur - SINGHANIA, Reeta Rani - GUPTA, Ravi - PURI, Suresh K. - MATHUR, Anshu. Designing a cellulolytic enzyme cocktail for the efficient and economical conversion of lignocellulosic biomass to biofuels. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109442>., Registrované v: WOS
2. [1.1] AGRAWAL, Dhruv - BASOTRA, Neha - BALAN, Venkatesh - TSANG, Adrian - CHADHA, Bhupinder Singh. Discovery and Expression of Thermostable LPMOs from Thermophilic Fungi for Producing Efficient Lignocellulolytic Enzyme Cocktails. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 191, no. 2, pp. 463-481. Dostupné na: <https://doi.org/10.1007/s12010-019-03198-5>., Registrované v: WOS
3. [1.1] AGRAWAL, Dhruv - KAUR, Baljit - BRAR, Kamalpreet Kaur - CHADHA, Bhupinder Singh. An innovative approach of priming lignocellulosics with lytic polysaccharide mono-oxygenases prior to saccharification with glycosyl hydrolases can economize second generation ethanol process. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 308, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123257>., Registrované v: WOS
4. [1.1] ATTIA, Mohamed A. - BRUMER, Harry. Recent structural insights into the enzymology of the ubiquitous plant cell wall glycan xyloglucan. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2016, vol. 40, no., pp. 43-53., Registrované v: WOS

5. [1.1] BARBOSA, Fernando Cesar - SILVELLO, Maria Augusta - GOLDBECK, Rosana. Cellulase and oxidative enzymes: new approaches, challenges and perspectives on cellulose degradation for bioethanol production. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 6, pp. 875-884. Dostupné na: <https://doi.org/10.1007/s10529-020-02875-4>, Registrované v: WOS
6. [1.1] BISSARO, Bastien - KOMMEDAL, Eirik - ROHR, Asmund K. - EIJSINK, Vincent G. H. Controlled depolymerization of cellulose by light-driven lytic polysaccharide oxygenases. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14744-9>, Registrované v: WOS
7. [1.1] BISSARO, Bastien - VARNAL, Aniko - ROHR, Asmund K. - EIJSINK, Vincent G. H. Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 4, pp., Registrované v: WOS
8. [1.1] BOMBLE, Yannick J. - LIN, Chien-Yuan - AMORE, Antonella - WEI, Hui - HOLWERDA, Evert K. - CIESIELSKI, Peter N. - DONOHOE, Bryon S. - DECKER, Stephen R. - LYND, Lee R. - HIMMEL, Michael E. Lignocellulose deconstruction in the biosphere. In CURRENT OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2017, vol. 41, no., pp. 61-70., Registrované v: WOS
9. [1.1] CALDARARU, Octav - OKSANEN, Esko - RYDE, Ulf - HEDEGARD, Erik D. Mechanism of hydrogen peroxide formation by lytic polysaccharide monooxygenase. In CHEMICAL SCIENCE. ISSN 2041-6520, 2019, vol. 10, no. 2, pp. 576-586., Registrované v: WOS
10. [1.1] CALDERARO, F. - KESER, M. - AKEROYD, M. - BEVERS, L. E. - EIJSINK, V. G. H. - VARNAL, A. - VAN DEN BERG, M. A. Characterization of an AA9 LPMO from Thielavia australiensis, TausLPMO9B, under industrially relevant lignocellulose saccharification conditions. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01836-3>, Registrované v: WOS
11. [1.1] CANNELLA, D. - MOLLERS, K. B. - FRIGAARD, N.U. - JENSEN, P. E. - BJERRUM, M. J. - JOHANSEN, K. S. - FELBY, C. Light-driven oxidation of polysaccharides by photosynthetic pigments and a metalloenzyme. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2016, vol. 7, no., pp., Registrované v: WOS
12. [1.1] CONCIA, Alda Lisa - BECCIA, Maria Rosa - ORIO, Maylis - FERRE, Francine Terra - SCARPELLINI, Marciela - BIASO, Frederic - GUIGLIARELLI, Bruno - REGLIER, Marius - SIMAAN, A. Jalila. Copper Complexes as Bioinspired Models for Lytic Polysaccharide Monooxygenases. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2017, vol. 56, no. 3, pp. 1023-1026., Registrované v: WOS
13. [1.1] COURTADE, Gaston - AACHMANN, Finn L. Chitin-Active Lytic Polysaccharide Monooxygenases. In TARGETING CHITIN-CONTAINING ORGANISMS. ISSN 0065-2598, 2019, vol. 1142, no., pp. 115-129., Registrované v: WOS
14. [1.1] COURTADE, Gaston - WIMMER, Reinhard - ROHR, Asmund K. - PREIMS, Marita - FELICE, Alfons K. G. - DIMAROGONA, Maria - VAAJE-KOLSTAD, Gustav - SORLIE, Morten - SANDGREN, Mats -

- LUDWIG, Roland - EIJSINK, Vincent G. H. - AACHMANN, Finn Lillelund. Interactions of a fungal lytic polysaccharide monooxygenase with beta-glucan substrates and cellobiose dehydrogenase. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2016, vol. 113, no. 21, pp. 5922-5927., Registrované v: WOS
15. [1.1] CROUCH, Lucy I. - LABOUREL, Aurore - WALTON, Paul H. - DAVIES, Gideon J. - GILBERT, Harry J. The Contribution of Non-catalytic Carbohydrate Binding Modules to the Activity of Lytic Polysaccharide Monooxygenases. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 14, pp. 7439-+, Registrované v: WOS
16. [1.1] DANNEELS, Barbara - TANGHE, Magali - JOOSTEN, Henk-Jan - GUNDINGER, Thomas - SPADIUT, Oliver - STALS, Ingeborg - DESMET, Tom. A quantitative indicator diagram for lytic polysaccharide monooxygenases reveals the role of aromatic surface residues in HjLPMO9A regioselectivity. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 5, pp., Registrované v: WOS
17. [1.1] DANNEELS, Barbara - TANGHE, Magali - DESMET, Tom. Structural Features on the Substrate-Binding Surface of Fungal Lytic Polysaccharide Monooxygenases Determine Their Oxidative Regioselectivity. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2019, vol. 14, no. 3, pp., Registrované v: WOS
18. [1.1] DE GOUVEA, Paula Fagundes - GEROLAMO, Luis Eduardo - BERNARDI, Aline Vianna - SOARES PEREIRA, Lucas Matheus - UYEMURA, Sergio Akira - DINAMARCO, Taísa Magnani. Lytic Polysaccharide Monooxygenase from *Aspergillus fumigatus* can Improve Enzymatic Cocktail Activity During Sugarcane Bagasse Hydrolysis. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2019, vol. 26, no. 5, pp. 377-385., Registrované v: WOS
19. [1.1] EIJSINK, Vincent G. H. - PETROVIC, Dejan - FORSBERG, Zarah - MEKASHA, Sophanit - ROHR, Asmund K. - VARNAI, Aniko - BISSARO, Bastien - VAAJE-KOLSTAD, Gustav. On the functional characterization of lytic polysaccharide monooxygenases (LPMOs). In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
20. [1.1] FILANDR, Frantisek - KAVAN, Daniel - KRACHER, Daniel - LAURENT, Christophe V. F. P. - LUDWIG, Roland - MAN, Petr - HALADA, Petr. Structural Dynamics of Lytic Polysaccharide Monooxygenase during Catalysis. In BIOMOLECULES, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/biom10020242>., Registrované v: WOS
21. [1.1] FLINT, Patricia - DOLLAR, Tamra - STEWART, Mary Amanda. Hurdling Over Language Barriers: Building Relationships With Adolescent Newcomers Through Literacy Advancement. In JOURNAL OF ADOLESCENT & ADULT LITERACY. ISSN 1081-3004, 2019, vol. 62, no. 5, pp. 509-519., Registrované v: WOS
22. [1.1] FORSBERG, Zarah - NELSON, Cassandra E. - DALHUS, Bjorn - MEKASHA, Sophanit - LOOSE, Jennifer S. M. - CROUCH, Lucy I. - ROHR, Asmund K. - GARDNER, Jeffrey G. - EIJSINK, Vincent G. H. - VAAJE-KOLSTAD, Gustav. Structural and Functional Analysis of a Lytic Polysaccharide Monooxygenase Important for Efficient Utilization of Chitin in

- Cellvibrio japonicus. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2016, vol. 291, no. 14, pp. 7300-7312., Registrované v: WOS
23. [1.1] FORSYTHE, Adrian - GIGLIO, Victoria - ASA, Jonathan - XU, Jianping. Phenotypic Divergence along Geographic Gradients Reveals Potential for Rapid Adaptation of the White-Nose Syndrome Pathogen, Pseudogymnoascus destructans, in North America. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 16, pp., Registrované v: WOS
24. [1.1] FRANDSEN, Kristian E. H. - LO LEGGIO, Leila. Lytic polysaccharide monooxygenases: a crystallographer's view on a new class of biomass-degrading enzymes. In IUCRJ. ISSN 2052-2525, 2016, vol. 3, no., pp. 448-467., Registrované v: WOS
25. [1.1] FRANDSEN, Kristian E. H. - SIMMONS, Thomas J. - DUPREE, Paul - POULSEN, Jens-Christian N. - HEMSWORTH, Glyn R. - CIANO, Luisa - JOHNSTON, Esther M. - TOVBORG, Morten - JOHANSEN, Katja S. - VON FREIESLEBEN, Pernille - MARMUSE, Laurence - FORT, Sebastien - COTTAZ, Sylvain - DRIGUEZ, Hugues - HENRISSAT, Bernard - LENFANT, Nicolas - TUNA, Floriana - BALDANSUREN, Amgalanbaatar - DAVIES, Gideon J. - LO LEGGIO, Leila - WALTON, Paul H. The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2016, vol. 12, no. 4, pp. 298-+, Registrované v: WOS
26. [1.1] FRANDSEN, Kristian E. H. - POULSEN, Jens-Christian Navarro - TOVBORG, Morten - JOHANSEN, Katja S. - LO LEGGIO, Leila. Learning from oligosaccharide soaks of crystals of an AA13 lytic polysaccharide monooxygenase: crystal packing, ligand binding and active-site disorder. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2017, vol. 73, no., pp. 64-76., Registrované v: WOS
27. [1.1] FROMMHAGEN, Matthias - KOETSIER, Martijn J. - WESTPHAL, Adrie H. - VISSER, Jaap - HINZ, Sandra W. A. - VINCKEN, Jean-Paul - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. - GRUPPEN, Harry. Lytic polysaccharide monooxygenases from Myceliophthora thermophila C1 differ in substrate preference and reducing agent specificity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
28. [1.1] FROMMHAGEN, Matthias - VAN ERVEN, Gijs - SANDERS, Mark - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. - GRUPPEN, Harry. RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 191-199., Registrované v: WOS
29. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
30. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - HILGERS, Roelant - KOETSIER, Martijn J. - HINZ, Sandra W. A. - VISSER, Jaap - GRUPPEN, Harry - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Quantification of the catalytic performance of C1-cellulose-specific lytic

polysaccharide monooxygenases. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 3, pp. 1281-1295., Registrované v: WOS

31. [1.1] GABER, Yasser - RASHAD, Boshra - HUSSEIN, Rasha - ABDELGAWAD, Mai - ALI, Nourhan S. - DISHISHA, Tarek - VARNAL, Aniko. Heterologous expression of lytic polysaccharide monooxygenases (LPMOs). In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107583>., Registrované v: WOS

32. [1.1] GARRIDO, Mercedes Maria - LANDONI, Malena - SABBADIN, Federico - VALACCO, Maria Pia - COUTO, Alicia - BRUCE, Neil Charles - WIRTH, Sonia Alejandra - CAMPOS, Eleonora. PsAA9A, a C1-specific AA9 lytic polysaccharide monooxygenase from the white-rot basidiomycete *Pycnoporus sanguineus*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 22, pp. 9631-9643. Dostupné na: <https://doi.org/10.1007/s00253-020-10911-6>., Registrované v: WOS

33. [1.1] GHOSH, Srayan - KANWAR, Poonam - JHA, Gopaljee. Identification of candidate pathogenicity determinants of *Rhizoctonia solani* AG1-IA, which causes sheath blight disease in rice. In CURRENT GENETICS. ISSN 0172-8083, 2018, vol. 64, no. 3, pp. 729-740., Registrované v: WOS

34. [1.1] GORGULHO SILVA, Caio de Oliveira - TEIXEIRA, Tallyta Santos - RODRIGUES, Kelly Barreto - SOUZA, Amanda Araujo - MONCLARO, Antonielle Vieira - MENDES, Thais Demarchi - RIBEIRO, Jose Antonio de Aquino - GONCALVES DE SIQUEIRA, Felix - FAVARO, Leila Cecilia de Lima - ABDELNUR, Patricia Verardi. Combination of MALDI-TOF MS and UHPLC-ESI-MS for the characterization of lytic polysaccharide monooxygenase activity. In ANALYTICAL METHODS. ISSN 1759-9660, 2020, vol. 12, no. 2, pp. 149-161. Dostupné na: <https://doi.org/10.1039/c9ay01774g>., Registrované v: WOS

35. [1.1] GUO, Xiao - SANG, Jingcheng - CHAI, Chengcheng - AN, Yajing - WEI, Zhifeng - ZHANG, Huitu - MA, Lijuan - DAI, Yujie - LU, Fuping - LIU, Fufeng. A lytic polysaccharide monooxygenase from *Myceliophthora thermophila* C1 and its characterization in cleavage of glycosidic chain of cellulose. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2020, vol. 162, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107712>., Registrované v: WOS

36. [1.1] GUO, Zhong-peng - DUQUESNE, Sophie - BOZONNET, Sophie - NICAUD, Jean-Marc - MARTY, Alain - O'DONOHUE, Michael Joseph. Expressing accessory proteins in cellulolytic *Yarrowia lipolytica* to improve the conversion yield of recalcitrant cellulose. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

37. [1.1] HANGASKY, John A. - IAVARONE, Anthony T. - MARLETTA, Michael A. Reactivity of O₂ versus H₂O₂ with polysaccharide monooxygenases. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 19, pp. 4915-4920., Registrované v: WOS

38. [1.1] HANGASKY, John A. - DETOMASI, Tyler C. - MARLETTA, Michael A. Glycosidic Bond Hydroxylation by Polysaccharide Monooxygenases. In TRENDS IN CHEMISTRY, 2019, vol. 1, no. 2, pp. 198-209., Registrované v:

WOS

39. [1.1] HANSSON, Henrik - KARKEHABADI, Saeid - MIKKELSEN, Nils - DOUGLAS, Nicholai R. - KIM, Steve - LAM, Anna - KAPER, Thijs - KELEMEN, Brad - MEIER, Katlyn K. - JONES, Stephen M. - SOLOMON, Edward I. - SANDGREN, Mats. High-resolution structure of a lytic polysaccharide monooxygenase from *Hypocrea jecorina* reveals a predicted linker as an integral part of the catalytic domain. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2017, vol. 292, no. 46, pp. 19099-19109., Registrované v: WOS
40. [1.1] HEDEGARD, Erik Donovan - RYDE, Ulf. Molecular mechanism of lytic polysaccharide monooxygenases. In CHEMICAL SCIENCE. ISSN 2041-6520, 2018, vol. 9, no. 15, pp. 3866-3880., Registrované v: WOS
41. [1.1] HEMSWORTH, Glyn R. - JOHNSTON, Esther M. - DAVIES, Gideon J. - WALTON, Paul H. Lytic Polysaccharide Monooxygenases in Biomass Conversion. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2015, vol. 33, no. 12, pp. 747-761., Registrované v: WOS
42. [1.1] HEMSWORTH, Glyn R. - DEJEAN, Guillaume - DAVIES, Gideon J. - BRUMER, Harry. Learning from microbial strategies for polysaccharide degradation. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 94-108., Registrované v: WOS
43. [1.1] HEMSWORTH, Glyn R. - CIANO, Luisa - DAVIES, Gideon J. - WALTON, Paul H. Production and spectroscopic characterization of lytic polysaccharide monooxygenases. In ENZYMES OF ENERGY TECHNOLOGY. ISSN 0076-6879, 2018, vol. 613, no., pp. 63-90., Registrované v: WOS
44. [1.1] HESS, Jaqueline - SKREDE, Inger - DE MARES, Maryam Chaib - HAINAUT, Matthieu - HENRISSAT, Bernard - PRINGLE, Anne. Rapid Divergence of Genome Architectures Following the Origin of an Ectomycorrhizal Symbiosis in the Genus *Amanita*. In MOLECULAR BIOLOGY AND EVOLUTION. ISSN 0737-4038, 2018, vol. 35, no. 11, pp. 2786-2804., Registrované v: WOS
45. [1.1] HUANG, Xinqi - ZHAO, Jun - ZHOU, Xing - HAN, Yunsong - ZHANG, Jinbo - CAI, Zucong. How green alternatives to chemical pesticides are environmentally friendly and more efficient. In EUROPEAN JOURNAL OF SOIL SCIENCE. ISSN 1351-0754, 2019, vol. 70, no. 3, pp. 518-529., Registrované v: WOS
46. [1.1] HUTTNER, Silvia - VARNAI, Aniko - PETROVIC, Dejan M. - BACH, Cao Xuan - DANG THI KIM ANH - NGUYEN THANH, Vu - EIJSINK, Vincent G. H. - LARSBRINK, Johan - OLSSON, Lisbeth. Specific Xylan Activity Revealed for AA9 Lytic Polysaccharide Monooxygenases of the Thermophilic Fungus *Malbranchea cinnamomea* by Functional Characterization. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2019, vol. 85, no. 23, pp., Registrované v: WOS
47. [1.1] CHEN, Chen - CHEN, Jinyin - GENG, Zhigang - WANG, Meixia - LIU, Ning - LI, Duochuan. Regioselectivity of oxidation by a polysaccharide monooxygenase from *Chaetomium thermophilum*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
48. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In NATURE REVIEWS CHEMISTRY, 2020, vol. 4, no. 3, pp. 114-126. Dostupné

- na: <https://doi.org/10.1038/s41570-020-0163-6>., Registrované v: WOS
49. [1.1] CHEN, Jinyin - GUO, Xiuna - ZHU, Min - CHEN, Chen - LI, Duochuan. Polysaccharide monooxygenase-catalyzed oxidation of cellulose to glucuronic acid-containing cello-oligosaccharides. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2019, vol. 12, no., pp., Registrované v: WOS
50. [1.1] JAGADEESWARAN, Guru - GAINEY, Lawrie - PRADE, Rolf - MORT, Andrew J. A family of AA9 lytic polysaccharide monooxygenases in *Aspergillus nidulans* is differentially regulated by multiple substrates and at least one is active on cellulose and xyloglucan. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2016, vol. 100, no. 10, pp. 4535-4547., Registrované v: WOS
51. [1.1] JAGADEESWARAN, Guru - GAINEY, Lawrie - MORT, Andrew J. An AA9-LPMO containing a CBM1 domain in *Aspergillus nidulans* is active on cellulose and cleaves cello-oligosaccharides. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
52. [1.1] JOHANSEN, Katja Salomon. Lytic Polysaccharide Monooxygenases: The Microbial Power Tool for Lignocellulose Degradation. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2016, vol. 21, no. 11, pp. 926-936., Registrované v: WOS
53. [1.1] KADOWAKI, Marco A. S. - VARNAI, Aniko - JAMESON, John-Kristian - LEITE, Ana E. T. - COSTA-FILHO, Antonio J. - KUMAGAI, Patricia S. - PRADE, Rolf A. - POLIKARPOV, Igor - EIJSINK, Vincent G. H. Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus *Myceliophthora thermophila*. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
54. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99., Registrované v: WOS
55. [1.1] KARNAOURI, Anthi - JALVO, Blanca - MORITZ, Philipp - MATSAKAS, Leonidas - ROVA, Ulrika - HOEFFT, Oliver - SOURKOUNI, Georgia - MAUS-FRIEDRICHS, Wolfgang - MATHEW, Aji P. - CHRISTAKOPOULOS, Paul. Lytic Polysaccharide Monooxygenase-Assisted Preparation of Oxidized-Cellulose Nanocrystals with a High Carboxyl Content from the Tunic of Marine Invertebrate *Ciona intestinalis*. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18400-18412. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05036>., Registrované v: WOS
56. [1.1] KOJIMA, Yuka - VARNAI, Aniko - ISHIDA, Takuya - SUNAGAWA, Naoki - PETROVIC, Dejan M. - IGARASHI, Kiyohiko - JELLISON, Jody - GOODELL, Barry - ALFREDSEN, Gry - WESTERENG, Bjorge - EIJSINK, Vincent G. H. - YOSHIDA, Makoto. A Lytic Polysaccharide Monooxygenase with Broad Xyloglucan Specificity from the Brown-Rot Fungus *Gloeophyllum trabeum* and Its Action on Cellulose-Xyloglucan Complexes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2016, vol. 82, no. 22, pp. 6557-6572., Registrované v: WOS
57. [1.1] LAURENT, Christophe V. F. P. - SUN, Peicheng - SCHEIBLBRANDNER, Stefan - CSARMAN, Florian - CANNAZZA, Pietro -

- FROMMHAGEN, Matthias - VAN BERKEL, Willem J. H. - OOSTENBRINK, Chris - KABEL, Mirjam A. - LUDWIG, Roland. Influence of Lytic Polysaccharide Monooxygenase Active Site Segments on Activity and Affinity. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 24, pp., Registrované v: WOS
58. [1.1] LENFANT, Nicolas - HAINAUT, Matthieu - TERRAPON, Nicolas - DRULA, Elodie - LOMBARD, Vincent - HENRISSAT, Bernard. A bioinformatics analysis of 3400 lytic polysaccharide oxidases from family AA9. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 448, no., pp. 166-174., Registrované v: WOS
59. [1.1] LI XIN - ZHANG LI-LI - TIAN LI - ZHANG HUAI-QIANG - CHEN GUAN-JUN - WANG LU-SHAN. The Advance of Efficient Catalysis of Lytic Polysaccharide Monooxygenases. In *PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS*. ISSN 1000-3282, 2016, vol. 43, no. 10, pp. 970-979., Registrované v: WOS
60. [1.1] LIMSAKUL, Puangpen - PHITSUWAN, Paripok - WAEONUKUL, Rattiya - PASON, Patthra - TACHAAPAIKON, Chakrit - POOMPUTSA, Kanokwan - KOSUGI, Akihiko - SAKKA, Makiko - SAKKA, Kazuo - RATANAKHANOKCHAI, Khanok. A novel AA10 from *Paenibacillus curdlanolyticus* and its synergistic action on crystalline and complex polysaccharides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7533-7550. Dostupné na: <https://doi.org/10.1007/s00253-020-10758-x>., Registrované v: WOS
61. [1.1] LIU, Bing - KOGNOLE, Abhishek A. - WU, Miao - WESTERENG, Borge - CROWLEY, Michael F. - KIM, Seonah - DIMAROGONA, Maria - PAYNE, Christina M. - SANDGREN, Mats. Structural and molecular dynamics studies of a C1-oxidizing lytic polysaccharide monooxygenase from *Heterobasidion irregulare* reveal amino acids important for substrate recognition. In *FEBS JOURNAL*. ISSN 1742-464X, 2018, vol. 285, no. 12, pp. 2225-2242., Registrované v: WOS
62. [1.1] LIU, Bing - KRISHNASWAMYREDDY, Sumitha - MURALEEDHARAN, Madhu Nair - OLSON, Ake - BROBERG, Anders - STAHLBERG, Jerry - SANDGREN, Mats. Side-by-side biochemical comparison of two lytic polysaccharide monooxygenases from the white-rot fungus *Heterobasidion irregulare* on their activity against crystalline cellulose and glucomannan. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
63. [1.1] LIU, Bing - OLSON, Ake - WU, Miao - BROBERG, Anders - SANDGREN, Mats. Biochemical studies of two lytic polysaccharide monooxygenases from the white-rot fungus *Heterobasidion irregulare* and their roles in lignocellulose degradation. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
64. [1.1] LI, Xin - HAN, Chao - LI, Weiguang - CHEN, GuanJun - WANG, Lushan. Insights into the cellulose degradation mechanism of the thermophilic fungus *Chaetomium thermophilum* based on integrated functional omics. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01783-z>., Registrované v: WOS
65. [1.1] LI, Yun-Jie - LU, Yang-Yang - ZHANG, Zi-Jian - MEI, Sen - TAN, Tian-Wei - FAN, Li-Hai. Co-fermentation of Cellulose and

Sucrose/Xylose by Engineered Yeasts for Bioethanol Production. In ENERGY & FUELS. ISSN 0887-0624, 2017, vol. 31, no. 4, pp. 4061-4067., Registrované v: WOS

66. [1.1] LONG, Lingfeng - YANG, Huimin - REN, Hongyan - LIU, Rukuan - SUN, Fubao Fuelbiol - XIAO, Zhihong - HU, Jinguang - XU, Zhenghong. Synergism of Recombinant *Podospora anserina* PaAA9B with Cellulases Containing AA9s Can Boost the Enzymatic Hydrolysis of Cellulosic Substrates. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 32, pp. 11986-11993. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c02564>., Registrované v: WOS

67. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS

68. [1.1] MATSUZAWA, Tomohiko - KAMEYAMA, Akihiko - NAKAMICHI, Yusuke - YAOI, Katsuro. Identification and characterization of two xyloglucan-specific endo-1,4-glucanases in *Aspergillus oryzae*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8761-8773. Dostupné na: <https://doi.org/10.1007/s00253-020-10883-7>., Registrované v: WOS

69. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS

70. [1.1] MONCLARO, Antonielle Vieira - FERREIRA FILHO, Edivaldo Ximenes. Fungal lytic polysaccharide monooxygenases from family AA9: Recent developments and application in lignocelulose breakdown. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 771-778., Registrované v: WOS

71. [1.1] MONCLARO, Antonielle - PETROVIC, Dejan M. - ALVES, Gabriel S. C. - COSTA, Marcos M. C. - MIDORIKAWA, Glaucia E. O. - MILLER, Robert N. G. - FILHO, Edivaldo X. F. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Characterization of two family AA9 LPMOs from *Aspergillus tamarii* with distinct activities on xyloglucan reveals structural differences linked to cleavage specificity. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 7, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0235642>., Registrované v: WOS

72. [1.1] NEKIUNAITE, Laura - PETROVIC, Dejan M. - WESTERENG, Bjorge - VAAJE-KOLSTAD, Gustav - ABOU HACHEM, Maher - VARNAI, Aniko - EIJSINK, Vincent G. H. FgLPMO9A from *Fusarium graminearum* cleaves xyloglucan independently of the backbone substitution pattern. In FEBS LETTERS. ISSN 0014-5793, 2016, vol. 590, no. 19, pp. 3346-3356., Registrované v: WOS

73. [1.1] NEKIUNAITE, Laura - ARNTZEN, Magnus O. - SVENSSON, Birte - VAAJE-KOLSTAD, Gustav - ABOU HACHEM, Maher. Lytic polysaccharide monooxygenases and other oxidative enzymes are abundantly

- secreted by *Aspergillus nidulans* grown on different starches. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
74. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAL, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS
75. [1.1] PETROVIC, Dejan M. - BISSARO, Bastien - CHYLENSKI, Piotr - SKAUGEN, Morten - SORLIE, Morten - JENSEN, Marianne S. - AACHMANN, Finn L. - COURTADE, Gaston - VARNAL, Aniko - EIJSINK, Vincent G. H. Methylation of the N-terminal histidine protects a lytic polysaccharide monooxygenase from auto-oxidative inactivation. In PROTEIN SCIENCE. ISSN 0961-8368, 2018, vol. 27, no. 9, pp. 1636-1650., Registrované v: WOS
76. [1.1] PETROVIC, Dejan - VARNAL, Aniko - DIMAROGONA, Maria - MATHIESEN, Geir - SANDGREN, Mats - WESTERENG, Bjorge - EIJSINK, Vincent G. H. Comparison of three seemingly similar lytic polysaccharide monooxygenases from *Neurospora crassa* suggests different roles in plant biomass degradation. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294, no. 41, pp. 15068-15081., Registrované v: WOS
77. [1.1] PIERCE, Brian C. - AGGER, Jane Wittrup - ZHANG, Zhenghong - WICHMANN, Jesper - MEYER, Anne S. A comparative study on the activity of fungal lytic polysaccharide monooxygenases for the depolymerization of cellulose in soybean spent flakes. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 449, no., pp. 85-94., Registrované v: WOS
78. [1.1] PIERCE, Brian C. - AGGER, Jane Wittrup - WICHMANN, Jesper - MEYER, Anne S. Oxidative cleavage and hydrolytic boosting of cellulose in soybean spent flakes by *Trichoderma reesei* Cel61A lytic polysaccharide monooxygenase. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 98, no., pp. 58-66., Registrované v: WOS
79. [1.1] QIN, Xing - SU, Xiaoyun - LUO, Huiying - MA, Rui - YAO, Bin - MA, Fuying. Deciphering lignocellulose deconstruction by the white rot fungus *Irpex lacteus* based on genomic and transcriptomic analyses. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
80. [1.1] RIBEIRO CORREA, Thamy Livia - TOMAZINI JUNIOR, Atilio - WOLF, Lucia Daniela - BUCKERIDGE, Marcos Silveira - DOS SANTOS, Leandro Vieira - MURAKAMI, Mario Tyago. An actinobacteria lytic polysaccharide monooxygenase acts on both cellulose and xylan to boost biomass saccharification. In BIOTECHNOLOGY FOR BIOFUELS, 2019, vol. 12, no., pp., Registrované v: WOS
81. [1.1] RODRIGUES, Kelly B. - MACEDO, Jessica K. A. - TEIXEIRA, Tallyta - BARROS, Jessica S. - ARAUJO, Ana C. B. - SANTOS, Fernanda P. - QUIRINO, Betania F. - BRASIL, Bruno S. A. F. - SALUM, Thais F. C. - ABDELNUR, Patricia V. - FAVARO, Leila C. L. Recombinant expression

- of *Thermobifida fusca* E7 LPMO in *Pichia pastoris* and *Escherichia coli* and their functional characterization. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 175-181., Registrované v: WOS
82. [1.1] SIMMONS, T. J. - FRANDSEN, K. E. H. - CIANO, L. - TRYFONA, T. - LENFANT, N. - POULSEN, J. C. - WILSON, L. F. L. - TANDRUP, T. - TOVBORG, M. - SCHNORR, K. - JOHANSEN, K. S. - HENRISSAT, B. - WALTON, P. H. - LO LEGGIO, L. - DUPREE, P. Structural and electronic determinants of lytic polysaccharide monooxygenase reactivity on polysaccharide substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2017, vol. 8, no., pp., Registrované v: WOS
83. [1.1] SKYBA, Oleksandr - CULLEN, Dan - DOUGLAS, Carl J. - MANSFIELD, Shawn D. Gene Expression Patterns of Wood Decay Fungi *Postia placenta* and *Phanerochaete chrysosporium* Are Influenced by Wood Substrate Composition during Degradation. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2016, vol. 82, no. 14, pp. 4387-4400., Registrované v: WOS
84. [1.1] SONG, Bo - LI, Bingyao - WANG, Xiaoyan - SHEN, Wei - PARK, Sungjin - COLLINGS, Cynthia - FENG, Anran - SMITH, Steve J. - WALTON, Jonathan D. - DING, Shi-You. Real-time imaging reveals that lytic polysaccharide monooxygenase promotes cellulase activity by increasing cellulose accessibility. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
85. [1.1] SPAN, Elise A. - MARIETTA, Michael A. The framework of polysaccharide monooxygenase structure and chemistry. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2015, vol. 35, no., pp. 93-99., Registrované v: WOS
86. [1.1] SUN, Peicheng - FROMMHAGEN, Matthias - HAAR, Maloe Kleine - VAN ERVEN, Gijis - BAKX, Edwin J. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Mass spectrometric fragmentation patterns discriminate C1-and C4-oxidised cello-oligosaccharides from their non-oxidised and reduced forms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115917>., Registrované v: WOS
87. [1.1] SUN, Peicheng - LAURENT, Christophe V. F. P. - SCHEIBLBRANDNER, Stefan - FROMMHAGEN, Matthias - KOUZOUNIS, Dimitrios - SANDERS, Mark G. - VAN BERKEL, Willem J. H. - LUDWIG, Roland - KABEL, Mirjam A. Configuration of active site segments in lytic polysaccharide monooxygenases steers oxidative xyloglucan degradation. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01731-x>., Registrované v: WOS
88. [1.1] VAAJE-KOLSTAD, Gustav - FORSBERG, Zarah - LOOSE, Jennifer S. M. - BISSARO, Bastien - EIJSINK, Vincent G. H. Structural diversity of lytic polysaccharide monooxygenases. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2017, vol. 44, no., pp. 67-76., Registrované v: WOS
89. [1.1] VACA-GONZALEZ, Alonso - ALBERTO FLORES-VALDEZ, Mario - DE JESUS ACEVES-SANCHEZ, Michel - AMANDA CAMACHO-VILLEGAS, Tanya - ARELI PEREZ-PADILLA, Nayeli - BURCIAGA-FLORES, Mirna - ANGEL DE LA CRUZ, Miguel - ARES, Miguel A. - MANUEL MORA-MONTES, Hector - BRAVO-MADRIGAL, Jorge -

- GAONA-BERNAL, Jorge - KARINA TAMEZ-CASTRELLON, Alma.
Overexpression of the *celA1* gene in BCG modifies surface pellicle, glucosamine content in biofilms, and affects in vivo replication. In TUBERCULOSIS. ISSN 1472-9792, 2020, vol. 125, no., pp. Dostupné na:
<https://doi.org/10.1016/j.tube.2020.102005>., Registrované v: WOS
90. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. -
PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian -
DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A.
Evidence for ligninolytic activity of the ascomycete fungus *Podospira anserina*.
In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na:
<https://doi.org/10.1186/s13068-020-01713-z>., Registrované v: WOS
91. [1.1] VARNAI, Aniko - UMEZAWA, Kiwamu - YOSHIDA, Makoto
- EIJSINK, Vincent G. H. The Pyrroloquinoline-Quinone-Dependent Pyranose
Dehydrogenase from *Coprinopsis cinerea* Drives Lytic Polysaccharide
Monooxygenase Action. In APPLIED AND ENVIRONMENTAL
MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v:
WOS
92. [1.1] VERMA, Digvijay - KUMAR, Ravi - SATYANARAYANA,
Tulasi. Diversity in Xylan-degrading Prokaryotes and Xylanolytic Enzymes and
Their Bioprospects. In MICROBIAL DIVERSITY IN ECOSYSTEM
SUSTAINABILITY AND BIOTECHNOLOGICAL APPLICATIONS, VOL 2:
SOIL & AGROECOSYSTEMS, 2019, vol., no., pp. 325-373., Registrované v:
WOS
93. [1.1] VU, Van V. - HANGASKY, John A. - DETOMASI, Tyler C. -
HENRY, Skylar J. W. - SON TUNG NGO - SPAN, Elise A. - MARLETTA,
Michael A. Substrate selectivity in starch polysaccharide monooxygenases. In
JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2019, vol. 294,
no. 32, pp. 12157-12166., Registrované v: WOS
94. [1.1] VU, Van V. - MARLETTA, Michael A. Starch-degrading
polysaccharide monooxygenases. In CELLULAR AND MOLECULAR LIFE
SCIENCES. ISSN 1420-682X, 2016, vol. 73, no. 14, pp. 2809-2819.,
Registrované v: WOS
95. [1.1] VU, Van V. - SON TUNG NGO. Copper active site in
polysaccharide monooxygenases. In COORDINATION CHEMISTRY
REVIEWS. ISSN 0010-8545, 2018, vol. 368, no., pp. 134-157., Registrované v:
WOS
96. [1.1] WALTON, Paul H. - DAVIES, Gideon J. On the catalytic
mechanisms of lytic polysaccharide monooxygenases. In CURRENT OPINION
IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2016, vol. 31, no., pp. 195-207.,
Registrované v: WOS
97. [1.1] WESTERENG, Bjorge - ARNTZEN, Magnus O. -
AACHMANN, Finn L. - VARNAI, Aniko - EIJSINK, Vincent G. H. - AGGER,
Jane Wittrup. Simultaneous analysis of C1 and C4 oxidized oligosaccharides, the
products of lytic polysaccharide monooxygenases acting on cellulose. In
JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2016, vol. 1445,
no., pp. 46-54., Registrované v: WOS
98. [1.1] WESTERENG, Bjorge - ARNTZEN, Magnus O. - AGGER,
Jane Wittrup - VAAJE-KOLSTAD, Gustav - EIJSINK, Vincent G. H. Analyzing
Activities of Lytic Polysaccharide Monooxygenases by Liquid Chromatography
and Mass Spectrometry. In PROTEIN-CARBOHYDRATE INTERACTIONS:

- METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 71-92., Registrované v: WOS
99. [1.1] XIA, Wei - XU, Xinxin - QIAN, Lichun - SHI, Pengjun - BAI, Yingguo - LUO, Huiying - MA, Rui - YAO, Bin. Engineering a highly active thermophilic beta-glucosidase to enhance its pH stability and saccharification performance. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2016, vol. 9, no., pp., Registrované v: WOS
100. [1.1] ZHANG, Ruiqin - LIU, Yucui - ZHANG, Yi - FENG, Dan - HOU, Shaoli - GUO, Wei - NIU, Kangle - JIANG, Yi - HAN, Lijuan - SINDHU, Lara - FANG, Xu. Identification of a thermostable fungal lytic polysaccharide monooxygenase and evaluation of its effect on lignocellulosic degradation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 14, pp. 5739-5750., Registrované v: WOS
101. [1.1] ZHOU, Xiaoli - ZHU, Honghui. Current understanding of substrate specificity and regioselectivity of LPMOs. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-0300-6>., Registrované v: WOS
102. [1.2] CANNELLA, David. Light-induced electron transfer protocol for enzymatic oxidation of polysaccharides. In Methods in Molecular Biology. ISSN 10643745, 2018-01-01, 1796, pp. 247-253., Registrované v: SCOPUS
103. [1.2] DE VRIES, Ronald P. - VAN DEN BRINK, Joost - HILDÉN, Kristiina S. - MÄKELÄ, Miia R. - STÅLBRAND, Henrik. Fungal degradation of plant oligo- and polysaccharides. In Handbook of Carbohydrate-Modifying Biocatalysts, 2016-07-11, 2, pp. 809-895., Registrované v: SCOPUS
104. [1.2] KRACHER, Daniel - LUDWIG, Roland. Cellobiose dehydrogenase: An essential enzyme for lignocellulose degradation in nature A review. In Bodenkultur. ISSN 00065471, 2016-09-01, 67, 3, pp. 145-163., Registrované v: SCOPUS

ADMA05 BERTÓKOVÁ, Anikó - VIKARTOVSKÁ, Alica - BUČKO, Marek - GEMEINER, Peter - TKÁČ, Ján - CHORVÁT, Dušan - ŠTEFUCA, Vladimír - NEDĚLA, Vilém. Biooxidation of 2-phenylethanol to phenylacetic acid by whole-cell *Gluconobacter oxydans* biocatalyst immobilized in polyelectrolyte complex capsules. In *Biocatalysis and Biotransformation*, 2015, vol. 33, p. 111-120. (2014: 0.691 - IF, Q4 - JCR, 0.309 - SJR, Q3 - SJR). ISSN 1024-2422. Dostupné na: <https://doi.org/10.3109/10242422.2015.1053470>

Ohlasy:

1. [1.1] FAN, Haiyang - CHEN, Lifeng - SUN, Huihui - WANG, Hualei - LIU, Qinghai - REN, Yuhong - WEI, Dongzhi. Development of nitrilase-mediated process for phenylacetic acid production from phenylacetone nitrile. In CHEMICAL PAPERS. ISSN 0366-6352, 2017, vol. 71, no. 10, pp. 1985-1992., Registrované v: WOS
2. [1.1] FEHER, Jakub - CERVENANSKY, Ivan - VACLAVIK, Lukas - MARKOS, Jozef. Electrodialysis applied for phenylacetic acid separation from organic impurities: Increasing the recovery. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.seppur.2019.116222>., Registrované v: WOS
3. [1.1] MIHAL, Mario - CERVENANSKY, Ivan - MARKOS, Jozef - REBROS, Martin. Bioproduction of phenylacetic acid in airlift reactor by

immobilized *Gluconobacter oxydans*. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 1, pp. 103-118., Registrované v: WOS

ADMA06 DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav**. Optical biosensors. In *Essays in Biochemistry*, 2016, vol. 60, no. 1, p. 91-100. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150010>

Ohlasy:

1. [1.1] ADEEL, Muhammad - RAHMAN, Md Mahbubur - CALIGIURI, Isabella - CANZONIERI, Vincenzo - RIZZOLIO, Flavio - DANIELE, Salvatore. Recent advances of electrochemical and optical enzyme-free glucose sensors operating at physiological conditions. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112331>., Registrované v: WOS
2. [1.1] AGRIOPOULOU, Sofia - STAMATELOPOULOU, Eygenia - VARZAKAS, Theodoros. Advances in Analysis and Detection of Major Mycotoxins in Foods. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040518>., Registrované v: WOS
3. [1.1] AHMADI, Anita - KABIRI, Shima - OMIDFAR, Kobra. Advances in HbA1c Biosensor Development Based on Field Effect Transistors: A Review. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, 2020, vol. 20, no. 16, pp. 8912-8921. Dostupné na: <https://doi.org/10.1109/JSEN.2020.2987836>., Registrované v: WOS
4. [1.1] AHMED, Shehnaz - CHAUHAN, Veeren M. - GHAEMMAGHAMI, Amir M. - AYLOTT, Jonathan W. New generation of bioreactors that advance extracellular matrix modelling and tissue engineering. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2019, vol. 41, no. 1, pp. 1-25., Registrované v: WOS
5. [1.1] ALIHEIDARI, Nahal - ALIAHMAD, Nojan - AGARWAL, Mangilal - DALIR, Hamid. Electrospun Nanofibers for Label-Free Sensor Applications. In *SENSORS*, 2019, vol. 19, no. 16, pp., Registrované v: WOS
6. [1.1] AMERI, Mehrdad - SHABANINEJAD, Zahra - MOVAHEDPOUR, Ahmad - SAHEBKAR, Amirhossein - MOHAMMADI, Soheila - HOSSEINDOOST, Saereh - EBRAHIMI, Mohammad Saeid - SAVARDASHTAKI, Amir - KARIMIPOUR, Mohammad - MIRZAEI, Hamed. Biosensors for detection of Tau protein as an Alzheimer's disease marker. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 1100-1108. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.239>., Registrované v: WOS
7. [1.1] ANDRYUKOV, Boris G. - BESEDNOVA, Natalya N. - ROMASHKO, Roman V. - ZAPOROZHETS, Tatyana S. - EFIMOV, Timofey A. Label-Free Biosensors for Laboratory-Based Diagnostics of Infections: Current Achievements and New Trends. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/bios10020011>., Registrované v: WOS
8. [1.1] ANDRYUKOV, B. G. - LYAPUN, I. N. - MATOSOVA, E. - SOMOVA, L. M. Biosensor Technologies in Medicine: from Detection of Biochemical Markers to Research into Molecular Targets (Review). In *SOVREMENNYE TEHNOLOGII V MEDICINE*. ISSN 2076-4243, 2020, vol.

12, no. 6, pp. 70-85. Dostupné na: <https://doi.org/10.17691/stm2020.12.6.09.>, Registrované v: WOS

9. [1.1] AUGEL, L. - BERKMANN, F. - LATTA, D. - FISCHER, I. A. - BECHLER, S. - ELOGAIL, Y. - KOSTECKI, K. - POTJE-KAMLOTH, K. - SCHULZE, J. Optofluidic sensor system with Ge PIN photodetector for CMOS-compatible sensing. In MICROFLUIDICS AND NANOFUIDICS. ISSN 1613-4982, 2017, vol. 21, no. 11, pp., Registrované v: WOS

10. [1.1] AYDIN, Elif Burcu - AYDIN, Muhammet - SEZGINTURK, Mustafa Kemal. Biosensors in Drug Discovery and Drug Analysis. In CURRENT ANALYTICAL CHEMISTRY. ISSN 1573-4110, 2019, vol. 15, no. 4, pp. 467-484., Registrované v: WOS

11. [1.1] BAL, Youcef. Nanomaterials for Drug Delivery: Recent Developments in Spectroscopic Characterization. In CHARACTERIZATION AND BIOLOGY OF NANOMATERIALS FOR DRUG DELIVERY: NANOSCIENCE AND NANOTECHNOLOGY IN DRUG DELIVERY, 2019, vol., no., pp. 281-336., Registrované v: WOS

12. [1.1] BASSO, Caroline R. - CRUZ, Tais F. - SILVA, Bruna L. - PEDROSA, Valber A. - ARAUJO JUNIOR, Joao P. A Methodology for Porcine Circovirus 2 (PCV-2) Quantification Based on Gold Nanoparticles. In MATERIALS, 2020, vol. 13, no. 5, pp. Dostupné na: <https://doi.org/10.3390/ma13051087.>, Registrované v: WOS

13. [1.1] BASTOS-SOARES, Erika A. - SOUSA, Rosa Maria O. - GOMEZ, Ana Fidelina - ALFONSO, Jorge - KAYANO, Anderson M. - ZANCHI, Fernando B. - FUNES-HUACCA, Maribel E. - STABELI, Rodrigo G. - SOARES, Andreimar M. - PEREIRA, Soraya S. - FERNANDES, Carla Freire C. Single domain antibodies in the development of immunosensors for diagnostics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2244-2252. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.031.>, Registrované v: WOS

14. [1.1] BILKISS, Marzia - SHIDDIKY, Muhammad J. A. - FORD, Rebecca. Advanced Diagnostic Approaches for Necrotrophic Fungal Pathogens of Temperate Legumes With a Focus on Botrytis spp. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS

15. [1.1] BOZAL-PALABIYIK, Burcin - USLU, Bengi - MARRAZZA, Giovanna. Nanosensors in Biomarker Detection. In NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, 2019, vol., no., pp. 327-380., Registrované v: WOS

16. [1.1] BURGESS, Letitia - WILSON, Hannah - JONES, Alex R. - HAY, Sam - NATRAJAN, Louise S. Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. In METHODS AND APPLICATIONS IN FLUORESCENCE. ISSN 2050-6120, 2020, vol. 8, no. 4, pp., Registrované v: WOS

17. [1.1] BURGESS, Letitia - WILSON, Hannah - JONES, Alex R. - HAY, Sam - NATRAJAN, Louise S. Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. In METHODS AND APPLICATIONS IN FLUORESCENCE. ISSN 2050-6120, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.1088/2050-6120/aba87f.>, Registrované v: WOS

18. [1.1] CAI, Xiaoqing - GAO, Zihan - ZHOU, Zhitao - QIN, Nan - TAO, Tiger H. MULTICOLOR DIFFRACTIVE OPTICAL ELEMENTS AS A DESIGNABLE BIOACTIVE PLATFORM. In 2019 IEEE 32ND INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS (MEMS). ISSN 1084-6999, 2019, vol., no., pp. 554-556., Registrované v: WOS
19. [1.1] CONTRERAS-NARANJO, Jesus E. - AGUILAR, Oscar. Suppressing Non-Specific Binding of Proteins onto Electrode Surfaces in the Development of Electrochemical Immunosensors. In BIOSENSORS-BASEL, 2019, vol. 9, no. 1, pp., Registrované v: WOS
20. [1.1] CUNHA, Isabel - BILTES, Rita - SALES, M. G. F. - VASCONCELOS, Vitor. Aptamer-Based Biosensors to Detect Aquatic Phycotoxins and Cyanotoxins. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 7, pp., Registrované v: WOS
21. [1.1] DAMBORSKA, Dominika - BERTOK, Tomas - DOSEKOVA, Erika - HOLAZOVA, Alena - LORENCOVA, Lenka - KASAK, Peter - TKAC, Jan. Nanomaterial-based biosensors for detection of prostate specific antigen. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 9, pp. 3049-3067., Registrované v: WOS
22. [1.1] DEHGHANI, Sadegh - NOSRATI, Rahim - YOUSEFI, Meysam - NEZAMI, Alireza - SOLTANI, Fatemeh - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 110, no., pp. 23-37., Registrované v: WOS
23. [1.1] ELAYAN, Hadeel - ECKFORD, Andrew - ADVE, Raviraj. Regulating Molecular Interactions Using Terahertz Communication. In ICC 2020 2020 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC). ISSN 1550-3607, 2020, vol., no., pp., Registrované v: WOS
24. [1.1] FLYNN, Connor - IGNASZAK, Anna. Lyme Disease Biosensors: A Potential Solution to a Diagnostic Dilemma. In BIOSENSORS-BASEL, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/bios10100137>., Registrované v: WOS
25. [1.1] FOROUHI, Saghi - GHAFAR-ZADEH, Ebrahim. Applications of CMOS Devices for the Diagnosis and Control of Infectious Diseases. In MICROMACHINES, 2020, vol. 11, no. 11, pp. Dostupné na: <https://doi.org/10.3390/mi11111003>., Registrované v: WOS
26. [1.1] GAO, Li - DENG, Zebin - LIN, Yuanwei - SULEMANA, Hussein - SHI, Haixia - YU, Chaosheng - CHEN, Shuaijun. Highly sensitive detection for cocaine using an aptamer-modified molybdenum disulfide/gold nanoparticle microarray. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 31, pp. 13466-13471. Dostupné na: <https://doi.org/10.1039/d0nj02342f>., Registrované v: WOS
27. [1.1] GARZON, Vivian - BUSTOS, Rosa-Helena - G. PINACHO, Daniel. Personalized Medicine for Antibiotics: The Role of Nanobiosensors in Therapeutic Drug Monitoring. In JOURNAL OF PERSONALIZED MEDICINE, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jpm10040147>., Registrované v: WOS
28. [1.1] GARZON, Vivian - PINACHO, Daniel G. - BUSTOS,

- Rosa-Helena - GARZON, Gustavo - BUSTAMANTE, Sandra. Optical Biosensors for Therapeutic Drug Monitoring. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS
29. [1.1] GHASEMI, Raziieh - MIRAHMADI-ZARE, Seyede Zohreh - NASR-ESFAHANI, Mohammad Hossein - ALLAFCHIAN, Alireza - BEHMANESH, Mehrdad. Optical biosensing of Streptococcus agalactiae based on core/shell magnetic nanoparticle-quantum dot. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 25, pp. 6733-6743., Registrované v: WOS
30. [1.1] GHORBANI, Farzaneh - ABBASZADEH, Hossein - MEHDIZADEH, Amir - EBRAHIMI-WARKIANI, Majid - RASHIDI, Mohammad-Reza - YOUSEFI, Mehdi. Biosensors and nanobiosensors for rapid detection of autoimmune diseases: a review. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 12, pp., Registrované v: WOS
31. [1.1] GHORBANI, Farzaneh - ABBASZADEH, Hossein - DOLATABADI, Jafar Ezzati Nazhad - AGHEBATI-MALEKI, Leili - YOUSEFI, Mehdi. Application of various optical and electrochemical aptasensors for detection of human prostate specific antigen: A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS
32. [1.1] GHOSH, Goutam. Application of Functional Metal Nanoparticles for Biomarker Detection. In BIOSENSORS: MATERIALS AND APPLICATIONS. ISSN 2471-8890, 2019, vol. 47, no., pp. 77-130., Registrované v: WOS
33. [1.1] GIRIGOSWAMI, Koyeli - AKHTAR, Najim. Nanobiosensors and fluorescence based biosensors: An overview. In INTERNATIONAL JOURNAL OF NANO DIMENSION. ISSN 2008-8868, 2019, vol. 10, no. 1, pp. 1-17., Registrované v: WOS
34. [1.1] GOTOVTSEV, Pavel. How IoT Can Integrate Biotechnological Approaches for City Applications-Review of Recent Advancements, Issues, and Perspectives. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/app10113990>., Registrované v: WOS
35. [1.1] GOY, Carla B. - CHAILE, Roberto E. - MADRID, Rossana E. Microfluidics and hydrogel: A powerful combination. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2019, vol. 145, no., pp., Registrované v: WOS
36. [1.1] HADJILOUKA, Agni - LOIZOU, Konstantinos - APOSTOLOU, Theofylaktos - DOUGIAKIS, Lazaros - INGLEZAKIS, Antonios - TSALTAS, Dimitrios. Newly Developed System for the Robust Detection of Listeria monocytogenes Based on a Bioelectric Cell Biosensor. In BIOSENSORS-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/bios10110178>., Registrované v: WOS
37. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad - DE LA GUARDIA, Miguel - BAGHBANZADEH, Amir - MOSAFER, Jafar - HEJAZI, Maryam - MOKHTARZADEH, Ahad - HASANZADEH, Mohammad. Diagnosis of hepatitis via nanomaterial-based electrochemical, optical or piezoelectrical biosensors: a review on recent advancements. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 12, pp., Registrované v: WOS
38. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad -

- HEJAZI, Maryam - HASANZADEH, Mohammad - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Recent trends in rapid detection of influenza infections by bio and nanobiosensor. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2018, vol. 98, no., pp. 201-215., Registrované v: WOS
39. [1.1] HELENA BUSTOS, Rosa - ZAPATA, Carlos - ESTEBAN, Efrain - GARCIA, Julio-Cesar - JAUREGUI, Edwin - JAIMES, Diego. Label-Free Quantification of Anti-TNF-alpha in Patients Treated with Adalimumab Using an Optical Biosensor. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 3, pp., Registrované v: WOS
40. [1.1] HOLZINGER, Michael - LE GOFF, Alan - COSNIER, Serge. Synergetic Effects of Combined Nanomaterials for Biosensing Applications. In SENSORS. ISSN 1424-8220, 2017, vol. 17, no. 5, pp., Registrované v: WOS
41. [1.1] HOU, Hsien-San - LEE, Kuang-Li - WANG, Chen-Hung - HSIEH, Tung-Han - SUN, Juan-Jie - WEI, Pei-Kuen - CHENG, Ji-Yen. Simultaneous assessment of cell morphology and adhesion using aluminum nanoslit-based plasmonic biosensing chips. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
42. [1.1] HUSSAIN, Khalil K. - MALAVIA, Dhara - JOHNSON, Elizabeth M. - LITTLECHILD, Jennifer - WINLOVE, C. Peter - VOLLMER, Frank - GOW, Neil A. R. Biosensors and Diagnostics for Fungal Detection. In JOURNAL OF FUNGI, 2020, vol. 6, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jof6040349>., Registrované v: WOS
43. [1.1] HU, Bin - BOAKYE-YIADOM, Kofi Oti - YU, Wei - YUAN, Zi-Wei - HO, William - XU, Xiaoyang - ZHANG, Xue-Qing. Nanomedicine Approaches for Advanced Diagnosis and Treatment of Atherosclerosis and Related Ischemic Diseases. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 16, pp. Dostupné na: <https://doi.org/10.1002/adhm.202000336>., Registrované v: WOS
44. [1.1] CHEN, Chen - WANG, Junsheng. Optical biosensors: an exhaustive and comprehensive review. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 5, pp. 1605-1628. Dostupné na: <https://doi.org/10.1039/c9an01998g>., Registrované v: WOS
45. [1.1] CHEN, Yangyang - LIU, Jinchuan - YANG, Zhenchuan - WILKINSON, James S. - ZHOU, Xiaohong. Optical biosensors based on refractometric sensing schemes: A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 144, no., pp., Registrované v: WOS
46. [1.1] JAHED, Fatemeh Soghra - HAMIDI, Samin. Applications of surface plasmon resonance in human health care. In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 19, pp. 1823-1827. Dostupné na: <https://doi.org/10.2217/nnm-2020-0170>., Registrované v: WOS
47. [1.1] JAIN, Surbhi - PALIWAL, Ayushi - GUPTA, Vinay - TOMAR, Monika. Refractive index tuning of SiO2 for Long Range Surface Plasmon Resonance based biosensor. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 168, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112508>., Registrované v: WOS
48. [1.1] JAVIER IMAS, Jose - RUIZ ZAMARRENO, Carlos - ZUBIATE, Pablo - SANCHEZ-MARTIN, Lorena - CAMPION, Javier - RAUL MATIAS, Ignacio. Optical Biosensors for the Detection of Rheumatoid Arthritis

- (RA) Biomarkers: A Comprehensive Review. In SENSORS, 2020, vol. 20, no. 21, pp. Dostupné na: <https://doi.org/10.3390/s20216289>., Registrované v: WOS
49. [1.1] KAL-KOSHVANDI, Afsaneh Taheri. Recent advances in optical biosensors for the detection of cancer biomarker alpha-fetoprotein (AFP). In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 128, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115920>., Registrované v: WOS
50. [1.1] KHANSILI, Nishtha - RATTU, Gurdeep - KRISHNA, Prayaga M. Label-free optical biosensors for food and biological sensor applications. In SENSORS AND ACTUATORS B-CHEMICAL, 2018, vol. 265, no., pp. 35-49., Registrované v: WOS
51. [1.1] KHAN, Atif - RAO, T. Subba. Nanobiosensors for virus detection in the environment. In NANOMATERIALS FOR AIR REMEDIATION, 2020, vol., no., pp. 61-87. Dostupné na: <https://doi.org/10.1016/B978-0-12-818821-7.00004-X>., Registrované v: WOS
52. [1.1] KHAREWAL, Tannu - VERMA, Neelam - GAHLAUT, Anjum - HOODA, Vikas. Biosensors for penicillin quantification: a comprehensive review. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 10, pp. 1829-1846. Dostupné na: <https://doi.org/10.1007/s10529-020-02970-6>., Registrované v: WOS
53. [1.1] KHOSHBIN, Zahra - HOUSAINDOKHT, Mohammad Reza - VERDIAN, Asma - BOZORGMEHR, Mohammad Reza. Simultaneous detection and determination of mercury (II) and lead (II) ions through the achievement of novel functional nucleic acid-based biosensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 116, no., pp. 130-147., Registrované v: WOS
54. [1.1] KLIMOV, V. V. - SHARONOV, G. V. Optical properties of Platonic clusters of plasmonic nanoparticles. In QUANTUM ELECTRONICS. ISSN 1063-7818, 2020, vol. 50, no. 3, pp. 237-241. Dostupné na: <https://doi.org/10.1070/QEL17252>., Registrované v: WOS
55. [1.1] KORDASHT, Houman Kholafazad - HASANZADEH, Mohammad. Biomedical analysis of exosomes using biosensing methods: recent progress. In ANALYTICAL METHODS. ISSN 1759-9660, 2020, vol. 12, no. 22, pp. 2795-2811. Dostupné na: <https://doi.org/10.1039/d0ay00722f>., Registrované v: WOS
56. [1.1] LIU, Juanjuan - JALALI, Mahsa - MAHSHID, Sara - WACHSMANN-HOGIU, Sebastian. Are plasmonic optical biosensors ready for use in point-of-need applications? In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 2, pp. 364-384. Dostupné na: <https://doi.org/10.1039/c9an02149c>., Registrované v: WOS
57. [1.1] LI, Jingchao - WANG, Xiaoying - SHEN, Mingwu - SHI, Xiangyang. Polyethylenimine-Assisted Generation of Optical Nanoprobes for Biosensing Applications. In ACS APPLIED BIO MATERIALS. ISSN 2576-6422, 2020, vol. 3, no. 7, pp. 3935-3955. Dostupné na: <https://doi.org/10.1021/acsabm.0c00536>., Registrované v: WOS
58. [1.1] MAJDI, Hasan - SALEHI, Roya - POURHASSAN-MOGHADDAM, Mohammad - MAHMOODI, Sahar - POURSALEHI, Zahra - VASILESCU, Steven. Antibody conjugated green synthesized chitosan-gold nanoparticles for optical biosensing. In COLLOID AND INTERFACE SCIENCE COMMUNICATIONS. ISSN 2215-0382, 2019,

vol. 33, no., pp., Registrované v: WOS

59. [1.1] MANSURIYA, Bhargav D. - ALTINTAS, Zeynep. Applications of Graphene Quantum Dots in Biomedical Sensors. In SENSORS, 2020, vol. 20, no. 4, pp. Dostupné na: <https://doi.org/10.3390/s20041072>., Registrované v: WOS

60. [1.1] MARTINEZ-PEREZ, Paula - GOMEZ-GOMEZ, Maribel - ANGELOVA, Todora - GRIOL, Amadeu - HURTADO, Juan - BELLIERES, Laurent - GARCIA-RUPEREZ, Jaime. Continuous Detection of Increasing Concentrations of Thrombin Employing a Label-Free Photonic Crystal Aptasensor. In MICROMACHINES, 2020, vol. 11, no. 5, pp. Dostupné na: <https://doi.org/10.3390/mi11050464>., Registrované v: WOS

61. [1.1] MATHEW, M. - HART, B. L. - HAYATLEH, K. Design of a low-current shunt-feedback transimpedance amplifier with inherent loop-stability. In ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING. ISSN 0925-1030, 2019, vol. 99, no. 3, pp. 539-545., Registrované v: WOS

62. [1.1] MATYS, Joanna - GIEROBA, Barbara - JOZWIAK, Krzysztof. Recent developments of bioanalytical methods in determination of neurotransmitters in vivo. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2020, vol. 180, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2019.113079>., Registrované v: WOS

63. [1.1] MAURYA, Vimal K. - KUMAR, Swatantra - SAXENA, Shailendra K. Novel Approaches for Detecting Water-Associated Pathogens. In WATER-ASSOCIATED INFECTIOUS DISEASES, 2020, vol., no., pp. 73-95. Dostupné na: https://doi.org/10.1007/978-981-13-9197-2_9., Registrované v: WOS

64. [1.1] MOHAMMADINEJAD, Arash - OSKUEE, Reza Kazemi - EIVAZZADEH-KEIHAN, Reza - REZAYI, Majid - BARADARAN, Behzad - MALEKI, Ali - HASHEMZAEI, Mahmoud - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Development of biosensors for detection of alpha-fetoprotein: As a major biomarker for hepatocellular carcinoma. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 130, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115961>., Registrované v: WOS

65. [1.1] MONDAL, Himadri Shekhar - HOSSAIN, Md Mahbub - MAHASIN, Md Mehadi Hasan - MONDAL, Pankoj Kumar - RAHAMAN, Md Ekhlashur. Emerging Applications of Optical Bio-Sensors. In JOURNAL OF BIOMIMETICS BIOMATERIALS AND BIOMEDICAL ENGINEERING. ISSN 2296-9837, 2019, vol. 40, no., pp. 41-55., Registrované v: WOS

66. [1.1] MURAI, Shunsuke - TOKUDOME, Yasuaki - KATSURA, Reo - SAKAMOTO, Hiroyuki - NOGUCHI, Kazuki - TAKAHASHI, Masahide - TANAKA, Katsuhisa. Layered Double Hydroxide Nanosheets on Plasmonic Arrays of Al Nanocylinders for Optical Sensing. In ACS APPLIED NANO MATERIALS. ISSN 2574-0970, 2020, vol. 3, no. 6, pp. 5838-5845. Dostupné na: <https://doi.org/10.1021/acsanm.0c01001>., Registrované v: WOS

67. [1.1] NAZARET GOMEZ-ARRIBAS, Lidia - BENITO-PENA, Elena - HURTADO-SANCHEZ, Maria del Carmen - CRUZ MORENO-BONDI, Maria. Biosensing Based on Nanoparticles for Food Allergens Detection. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 4, pp., Registrované v: WOS

68. [1.1] NOSRATI, Rahim - DEHGHANI, Sadegh - KARIMI, Bahareh -

- YOUSEFI, Meysam - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Siderophore-based biosensors and nanosensors; new approach on the development of diagnostic systems. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 117, no., pp. 1-14., Registrované v: WOS
69. [1.1] NURROHMAN, Devi Taufiq - WANG, Ying-Hao - CHIU, Nan-Fu. Exploring Graphene and MoS(2)Chips Based Surface Plasmon Resonance Biosensors for Diagnostic Applications. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.00728>., Registrované v: WOS
70. [1.1] OLIVEIRA, Idjane Santana - DA SILVA JUNIOR, Alberto Galdino - SOUZA DE ANDRADE, Cesar Augusto - LIMA OLIVEIRA, Maria Danielly. Biosensors for early detection of fungi spoilage and toxigenic and mycotoxins in food. In *CURRENT OPINION IN FOOD SCIENCE*. ISSN 2214-7993, 2019, vol. 29, no., pp. 64-79., Registrované v: WOS
71. [1.1] OLYAEE, Saeed - SEIFOURI, Mahmood - KARAMI, Rahim - MOHEBZADEH-BAHABADY, Ahmad. Designing a high sensitivity hexagonal nano-cavity photonic crystal resonator for the purpose of seawater salinity sensing. In *OPTICAL AND QUANTUM ELECTRONICS*. ISSN 0306-8919, 2019, vol. 51, no. 4, pp., Registrované v: WOS
72. [1.1] OZGUR, Erdogan - TOPCU, Aykut Arif - YILMAZ, Erkut - DENIZLI, Adil. Surface plasmon resonance based biomimetic sensor for urinary tract infections. In *TALANTA*. ISSN 0039-9140, 2020, vol. 212, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120778>., Registrované v: WOS
73. [1.1] PEI, Yi - MOLLEY, Thomas G. - KILIAN, Kristopher A. Enzyme Responsive Inverse Opal Hydrogels. In *MACROMOLECULAR RAPID COMMUNICATIONS*. ISSN 1022-1336, 2020, vol. 41, no. 5, pp. Dostupné na: <https://doi.org/10.1002/marc.201900555>., Registrované v: WOS
74. [1.1] PEREIRA, A. C. - SALES, M. G. F. - RODRIGUES, L. R. Biosensors for Rapid Detection of Breast Cancer Biomarkers. In *ADVANCED BIOSENSORS FOR HEALTH CARE APPLICATIONS*, 2019, vol., no., pp. 71-103., Registrované v: WOS
75. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. In *FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING*. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>., Registrované v: WOS
76. [1.1] PHAN, Le Minh Tu - HOANG, Thi Xoan - VO, Thuy Anh Thu - KIM, Jae Young - LEE, Sang-Myung - CHO, Won Woo - KIM, Young Hyo - CHOI, Seong Hye - CHO, Sungbo. Nanobiosensors for Non-Amyloidbeta-Tau Biomarkers as Advanced Reporters of Alzheimer's Disease. In *DIAGNOSTICS*, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/diagnostics10110913>., Registrované v: WOS
77. [1.1] PIROOZMAND, Firoozeh - MOHAMMADIPANAH, Fatemeh - FARIDBOD, Farnoush. Emerging biosensors in detection of natural products. In *SYNTHETIC AND SYSTEMS BIOTECHNOLOGY*. ISSN 2405-805X, 2020, vol. 5, no. 4, pp. 293-303. Dostupné na: <https://doi.org/10.1016/j.synbio.2020.08.002>., Registrované v: WOS
78. [1.1] PIRZADA, Muqsit - ALTINTAS, Zeynep. Recent Progress in

Optical Sensors for Biomedical Diagnostics. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040356>., Registrované v: WOS

79. [1.1] POLYAK, Steven W. - MOWLA, Rumana - VENTER, Henrietta. Measuring Small Molecule Binding to Escherichia coli AcrB by Surface Plasmon Resonance. In TARGETING ENZYMES FOR PHARMACEUTICAL DEVELOPMENT: METHODS AND PROTOCOLS. ISSN 1064-3745, 2020, vol. 2089, no., pp. 119-130. Dostupné na: https://doi.org/10.1007/978-1-0716-0163-1_7., Registrované v: WOS

80. [1.1] POSCHENRIEDER, Andreas - THALER, Markus - JUNKER, Ralf - LUPPA, Peter B. Recent advances in immunodiagnosics based on biosensor technologies-from central laboratory to the point of care. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2019, vol. 411, no. 29, pp. 7607-7621., Registrované v: WOS

81. [1.1] PRAJAPATI, Deepak G. - KANDASUBRAMANIAN, Balasubramanian. Progress in the Development of Intrinsically Conducting Polymer Composites as Biosensors. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2019, vol. 220, no. 10, pp., Registrované v: WOS

82. [1.1] PULIKKATHODI, Anil Kumar - SARANGADHARAN, Indu - HSU, Chen-Pin - CHEN, Yi-Hong - HUNG, Lien-Yu - LEE, Geng-Yen - CHYI, Jen-Inn - LEE, Gwo-Bin - WANG, Yu-Lin. Enumeration of circulating tumor cells and investigation of cellular responses using aptamer-immobilized AlGaIn/GaN high electron mobility transistor sensor array. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 257, no., pp. 96-104., Registrované v: WOS

83. [1.1] QIAN, Lisheng - LI, Qiaobin - BARYEH, Kwaku - QIU, Wanwei - LI, Kun - ZHANG, Jing - YU, Qingcai - XU, Dongqin - LIU, Wenju - BRAND, Randall E. - ZHANG, Xueji - CHEN, Wei - LIU, Guodong. Biosensors for early diagnosis of pancreatic cancer: a review. In TRANSLATIONAL RESEARCH. ISSN 1931-5244, 2019, vol. 213, no., pp. 67-89., Registrované v: WOS

84. [1.1] RAJABNEJAD, Seyed-Hosseini - BADIBOSTAN, Hasan - VERDIAN, Asma - KARIMI, Gholam Reza - FOOLADI, Ebrahim - FEIZY, Javad. Aptasensors as promising new tools in bisphenol A detection An invisible pollution in food and environment. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.104722>., Registrované v: WOS

85. [1.1] REALI, Savannah - NAJIB, Elias Y. - BALAZS, Krisztina E. Treuerne - TAN, Adeline Chern Hui - VARADI, Linda - HIBBS, David E. - GROUNDWATER, Paul W. Novel diagnostics for point-of-care bacterial detection and identification. In RSC ADVANCES. ISSN 2046-2069, 2019, vol. 9, no. 37, pp. 21486-21497., Registrované v: WOS

86. [1.1] REBELO, Rita - BARBOSA, Ana I. - CABALLERO, David - KWON, Il Keun - OLIVEIRA, Joaquim M. - KUNDU, Subhas C. - REIS, Rui L. - CORRELO, Vitor M. 3D biosensors in advanced medical diagnostics of high mortality diseases. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 130, no., pp. 20-39., Registrované v: WOS

87. [1.1] ROOINTAN, Amir - MIR, Tanveer Ahmad - WANI, Shadil Ibrahim - MATI-UR-REHMAN - HUSSAIN, Khalil Khadim - AHMED, Bilal -

ABRAHIM, Shugufta - SAVARDASHTAKI, Amir - GANDOMANI, Ghazaal - GANDOMANI, Molood - CHINNAPPAN, Raja - AKHTAR, Mahmood H. Early detection of lung cancer biomarkers through biosensor technology: A review. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2019, vol. 164, no., pp. 93-103., Registrované v: WOS

88. [1.1] SADROLHOSSEINI, Amir Reza - NIA, Pooria Moozarm - NASERI, Mahmoud - MOHAMMADI, Ahmad - FEN, Yap Wing - SHAFIE, Suhidi - KAMARI, Halimah Mohamed. Surface Plasmon Resonance Sensor Based on Polypyrrole-Chitosan-BaFe₂O₄ Nanocomposite Layer to Detect the Sugar. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 8, pp. Dostupné na: <https://doi.org/10.3390/app10082855>., Registrované v: WOS

89. [1.1] SAFARPOUR, Hossein - DEHGHANI, Sadegh - NOSRATI, Rahim - ZEBARDAST, Nozhat - ALIBOLANDI, Mona - MOKHTARZADEH, Ahad - RAMEZANI, Mohammad. Optical and electrochemical-based nano-aptasensing approaches for the detection of circulating tumor cells (CTCs). In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 148, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2019.111833>., Registrované v: WOS

90. [1.1] SAHIN, Samet - CAGLAYAN, Mustafa Oguzhan - UESTUENDAG, Zafer. Recent advances in aptamer-based sensors for breast cancer diagnosis: special cases for nanomaterial-based VEGF, HER2, and MUC1 aptasensors. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 10, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04526-x>., Registrované v: WOS

91. [1.1] SENA-TORRALBA, Amadeo - PALLAS-TAMARIT, Yeray - MORAIS, Sergi - MAQUIEIRA, Angel. Recent advances and challenges in food-borne allergen detection. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.116050>., Registrované v: WOS

92. [1.1] SEOK, Joo Seon - JU, Heongkyu. Plasmonic Optical Biosensors for Detecting C-Reactive Protein: A Review. In MICROMACHINES, 2020, vol. 11, no. 10, pp. Dostupné na: <https://doi.org/10.3390/mi11100895>., Registrované v: WOS

93. [1.1] SHAFKAT, Araf. Analysis of a gold coated plasmonic sensor based on a duplex core photonic crystal fiber. In SENSING AND BIO-SENSING RESEARCH, 2020, vol. 28, no., pp. Dostupné na: <https://doi.org/10.1016/j.sbsr.2020.100324>., Registrované v: WOS

94. [1.1] SHANDILYA, Ruchita - BHARGAVA, Arpit - BUNKAR, Neha - TIWARI, Rajnarayan - GORYACHEVA, Irina Yu - MISHRA, Pradyumna Kumar. Nanobiosensors: Point-of-care approaches for cancer diagnostics. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 130, no., pp. 147-165., Registrované v: WOS

95. [1.1] SHUKLA, S. K. - KUSHWAHA, Chandra Shekhar - GUNER, Tugrul - DEMIR, Mustafa M. Chemically modified optical fibers in advanced technology: An overview. In OPTICS AND LASER TECHNOLOGY. ISSN 0030-3992, 2019, vol. 115, no., pp. 404-432., Registrované v: WOS

96. [1.1] SCHULZE, Sven - WEHRHOLD, Michel - HILLE, Carsten. Femtosecond-Pulsed Laser Written and Etched Fiber Bragg Gratings for Fiber-Optical Biosensing. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 9,

pp., Registrované v: WOS

97. [1.1] SINAWANG, Prima Dewi - FAJS, Luka - ELOUARZAKI, Kamal - NUGRAHA, Jusak - MARKS, Robert S. TEMPO-based immuno-lateral flow quantitative detection of dengue NS1 protein. In SENSORS AND ACTUATORS B-CHEMICAL, 2018, vol. 259, no., pp. 354-363., Registrované v: WOS

98. [1.1] SINHA, Rupika - DWIVEDI, Shipra - KUMAR, Avishek - SRIVASTAVA, Pradeep. Materials in Bio-Sensing of Water Pollutants. In SENSORS IN WATER POLLUTANTS MONITORING: ROLE OF MATERIAL. ISSN 2662-558X, 2020, vol., no., pp. 187-211. Dostupné na: https://doi.org/10.1007/978-981-15-0671-0_11., Registrované v: WOS

99. [1.1] SOLAIMUTHU, Anbuthiruselvan - VIJAYAN, Ane Nishitha - MURALI, Padmaja - KORRAPATI, Purna Sai. Nano-biosensors and their relevance in tissue engineering. In CURRENT OPINION IN BIOMEDICAL ENGINEERING. ISSN 2468-4511, 2020, vol. 13, no., pp. 84-93. Dostupné na: <https://doi.org/10.1016/j.cobme.2019.12.005>., Registrované v: WOS

100. [1.1] SOLHI, Elham - HASANZADEH, Mohammad. Recent advances on the biosensing and bioimaging based on polymer dots as advanced nanomaterial: Analytical approaches. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2019, vol. 118, no., pp. 840-852., Registrované v: WOS

101. [1.1] SOUKARIE, Diana - ECOCHARD, Vincent - SALOME, Laurence. DNA-based nanobiosensors for monitoring of water quality. In INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH. ISSN 1438-4639, 2020, vol. 226, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijheh.2020.113485>., Registrované v: WOS

102. [1.1] STEINKE, Nadja - RIO, Marisa - WUCHRER, Roland - SCHUSTER, Christiane - LJASENKO, Evgenij - KNOPP, Dietmar - GERLACH, Gerald - HARTLING, Thomas. Detection of diclofenac molecules by planar and nanostructured plasmonic sensor substrates. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 254, no., pp. 749-754., Registrované v: WOS

103. [1.1] STEINWEDEL, Tobias - DAHLMANN, Katharina - SOLLE, Doerte - SCHEPER, Thomas - REARDON, Kenneth F. - LAMMERS, Frank. Sensors for Disposable Bioreactor Systems. In SINGLE-USE TECHNOLOGY IN BIOPHARMACEUTICAL MANUFACTURE, 2ND EDITION, 2019, vol., no., pp. 69-82., Registrované v: WOS

104. [1.1] SUPRAJA, Patta - SUDARSHAN, Vadnala - TRIPATHY, Suryasnata - AGRAWAL, Amit - SINGH, Shiv Govind. Label free electrochemical detection of cardiac biomarker troponin T using ZnSnO₃ perovskite nanomaterials. In ANALYTICAL METHODS. ISSN 1759-9660, 2019, vol. 11, no. 6, pp. 744-751., Registrované v: WOS

105. [1.1] SZYMCZAK, Lindsey C. - KUO, Hsin-Yu - MRKSICH, Milan. Peptide Arrays: Development and Application. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2018, vol. 90, no. 1, pp. 266-282., Registrované v: WOS

106. [1.1] THEINT, H. T. - WALSH, J. E. - WONG, S. T. - VOON, K. - SHITAN, M. Development of an optical biosensor for the detection of Trypanosoma evansi and Plasmodium berghei. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN

- 1386-1425, 2019, vol. 218, no., pp. 348-358., Registrované v: WOS
107. [1.1] THESING, A. - AVILA, L. F. - ARMAS, L. E. G. - VALSECCHI, C. - MENEZES, J. W. Periodic gold nanohole arrays fabricated by interference lithography for optical-diffraction biosensing. In 2018 INTERNATIONAL CONFERENCE ON OPTICAL MEMS AND NANOPHOTONICS (OMN). ISSN 2160-5033, 2018, vol., no., pp. 163-164., Registrované v: WOS
108. [1.1] TOTLAND, Christian - THOMAS, Peter J. - HOIST, Bodil - AKHTAR, Naureen - HOVDENES, Jostein - SKODVIN, Tore. 9-Acridinmethanamine and Acridine-9-Carboxaldehyde as Potential Fluorescence Lifetime pH Indicators. In JOURNAL OF FLUORESCENCE. ISSN 1053-0509, 2020, vol. 30, no. 4, pp. 901-906. Dostupné na: <https://doi.org/10.1007/s10895-020-02564-5>., Registrované v: WOS
109. [1.1] TUKIMIN, Siti Nurainie - KARMAN, Salmah Binti - AHMAD, Mohd Yazed - ZAMAN, Wan Safwani Wan Kamarul. Polarized Light-Based Cancer Cell Detection Techniques: A Review. In IEEE SENSORS JOURNAL. ISSN 1530-437X, 2019, vol. 19, no. 20, pp. 9010-9025., Registrované v: WOS
110. [1.1] VALIUNIENE, Ausra - VIRBICKAS, Povilas - MEDVIKYTE, Giedre - RAMANAVICIUS, Arunas. Urea Biosensor Based on Electrochromic Properties of Prussian Blue. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 3, pp. 503-509. Dostupné na: <https://doi.org/10.1002/elan.201900556>., Registrované v: WOS
111. [1.1] VIRBICKAS, Povilas - VALIUNIENE, Ausra - KAVALIAUSKAITE, Gabija - RAMANAVICIUS, Arunas. Prussian White-Based Optical Glucose Biosensor. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 166, no. 12, pp. B927-B932., Registrované v: WOS
112. [1.1] WADHERA, Tanu - KAKKAR, Deepti - WADHWA, Girish - RAJ, Balwinder. Recent Advances and Progress in Development of the Field Effect Transistor Biosensor: A Review. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, 2019, vol. 48, no. 12, pp. 7635-7646., Registrované v: WOS
113. [1.1] WANG, Shujuan - XU, Dongpo - DING, Chengchao - TIAN, Yachen - GE, Kangjie - GUO, Liang - LI, Jie - DONG, Qingli - HUANG, Yong - LIU, Qing. A colorimetric immunoassay for determination of Escherichia coli O157:H7 based on oxidase-like activity of cobalt-based zeolitic imidazolate framework. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 9, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04407-3>., Registrované v: WOS
114. [1.1] XIANG, Wenwen - LV, Qiuxiang - SHI, Haixia - XIE, Bing - GAO, Li. Aptamer-based biosensor for detecting carcinoembryonic antigen. In TALANTA. ISSN 0039-9140, 2020, vol. 214, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120716>., Registrované v: WOS
115. [1.1] XU, Jian - LEE, Hyowon. Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. In CHEMOSENSORS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>., Registrované v: WOS
116. [1.1] YOUSEFI, Meysam - DEHGHANI, Sadegh - NOSRATI, Rahim - ZARE, Hamed - EVAZALIPOUR, Mehdi - MOSAFER, Jafar - TEHRANI, Bahram Soltani - PASDAR, Alireza - MOKHTARZADEH, Ahad -

- RAMEZANI, Mohammad. Aptasensors as a new sensing technology developed for the detection of MUC1 mucin: A review. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2019, vol. 130, no., pp. 1-19., Registrované v: WOS
117. [1.1] ZHANG, Liyuan - GUO, Wei - LU, Yuan. Advances in Cell-Free Biosensors: Principle, Mechanism, and Applications. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2020, vol. 15, no. 9, pp. Dostupné na: <https://doi.org/10.1002/biot.202000187>., Registrované v: WOS
118. [1.1] ZHOU, Xiahan - HUANG, Chih-Cheng - HALL, Drew A. Magnetoresistive Biosensors for Quantitative Proteomics. In *BIOSENSING AND NANOMEDICINE X*. ISSN 0277-786X, 2017, vol. 10352, no., pp., Registrované v: WOS
119. [1.2] CARDENOSA-RUBIO, Maria C. - ROBISON, Heather M. - BAILEY, Ryan C. Recent advances in environmental and clinical analysis using microring resonator-based sensors. In *Current Opinion in Environmental Science and Health*, 2019-08-01, 10, pp. 38-46., Registrované v: SCOPUS
120. [1.2] DI PIETRANTONIO, Fabio - CANNATÀ, Domenico - BENETTI, Massimiliano. Biosensor technologies based on nanomaterials. In *Functional Nanostructured Interfaces for Environmental and Biomedical Applications*, 2019-05-18, pp. 181-242., Registrované v: SCOPUS
121. [1.2] EVTUGYN, Gennady - SUBJAKOVA, Veronika - MELIKISHVILI, Sopio - HIANIK, Tibor. Affinity Biosensors for Detection of Mycotoxins in Food. In *Advances in Food and Nutrition Research*. ISSN 10434526, 2018-01-01, 85, pp. 263-310., Registrované v: SCOPUS
122. [1.2] GORBENKO, Daria A. - SHKODENKO, Liubov V. - NEDOREZOVA, Daria D. - RUBEL, Maria D. Visual detection of bacterial and viral pathogens with peroxidase-like deoxyribozymes. In *Proceedings of SPIE The International Society for Optical Engineering*. ISSN 0277786X, 2020-01-01, 11477, pp. Dostupné na: <https://doi.org/10.1117/12.2567499>., Registrované v: SCOPUS
123. [1.2] HARUN, Noor Hasmiza - HASHIM, Nur Shafiqah - ABDULLAH, Muhammad Rosli. Development of plasmonic thin film for biosensor. In *AIP Conference Proceedings*. ISSN 0094243X, 2020-11-02, 2291, pp. Dostupné na: <https://doi.org/10.1063/5.0022828>., Registrované v: SCOPUS
124. [1.2] HONIKEL, Mackenzie M. - LIN, Chi En - PROBST, David - LA BELLE, Jeffrey T. Facilitating earlier diagnosis of cardiovascular disease through point-of-care biosensors: A review. In *Critical Reviews in Biomedical Engineering*. ISSN 0278940X, 2018-01-01, 46, 1, pp. 53-82., Registrované v: SCOPUS
125. [1.2] CHENG, Chen - SHI, Nan - JIANG, Xiao Zhen. Review on studies of molecular imprinted optical biosensors. In *Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities*. ISSN 10039015, 2020-06-01, 34, 3, pp. 572-581. Dostupné na: <https://doi.org/10.3969/j.issn.1003-9015.2020.03.002>., Registrované v: SCOPUS
126. [1.2] IBADULLAEVA, S. Zh - APPAZOV, N. O. - TARAHOVSKY, Yu S. - ZAMYATINA, E. A. - FOMKINA, M. G. - KIM, Yu A. Amperometric Multi-Enzyme Biosensors: Development and Application, a Short Review. In *Biophysics (Russian Federation)*. ISSN 00063509, 2019-09-01, 64, 5, pp. 696-707., Registrované v: SCOPUS
127. [1.2] JEFFREE, Amanina Iymia - KARMAN, Salmah - IBRAHIM,

- Suriani - KARIM, Mohd Sayuti Ab - ROZALI, Shaifulazuar. Biosensors Approach for Lung Cancer Diagnosis—A Review. In Lecture Notes in Mechanical Engineering. ISSN 21954356, 2020-01-01, pp. 425-435. Dostupné na: https://doi.org/10.1007/978-981-13-8323-6_36., Registrované v: SCOPUS 128. [1.2]
- LUKA, George - AHMAD, Syed - FALCONE, Natashya - KRAATZ, Heinz Bernhard. Advances in enzyme-based electrochemical sensors: Current trends, benefits, and constraints. In Bioelectronics and Medical Devices: From Materials to Devices Fabrication, Applications and Reliability, 2019-01-01, pp. 555-590., Registrované v: SCOPUS 129. [1.2]
- Polizzi, K. M. (2019). Biosensors. In Comprehensive Biotechnology (pp. 572-584), Registrované v: SCOPUS 130. [1.2]
- PURR, Foelke - BURG, Thomas P. - DIETZEL, Andreas. Optimization of a nanofluidic diffraction grating for the detection of specific biomolecules. In MikroSystemTechnik Kongress 2019 Mikroelektronik MEMS-MOEMS Systemintegration Säulen der Digitalisierung und künstlichen Intelligenz, Proceedings, 2019-01-01, pp. 96-98., Registrované v: SCOPUS 131. [1.2]
- RODIONOV, S. A. - REMNEV, M. A. - KLIMOV, V. V. Refractive index sensor based on all-dielectric gradient metasurface. In Sensing and Bio-Sensing Research, 2019-02-01, 22, pp., Registrované v: SCOPUS 132. [1.2]
- SALOUTI, Mojtaba - DERAKHSHAN, Fateme Khadivi. Biosensors and nanobiosensors in environmental applications. In Biogenic Nano-Particles and their Use in Agro-ecosystems, 2020-01-01, pp. 515-591. Dostupné na: https://doi.org/10.1007/978-981-15-2985-6_26., Registrované v: SCOPUS 133. [1.2]
- SARIHI, Pouria - AZADKHAH SHALMANI, Armin - ARABAN, Vida - RAOUFI, Mohammad. Nanoparticles for biosensing. In Advanced Structured Materials. ISSN 18698433, 2019-01-01, 104, pp. 121-143., Registrované v: SCOPUS 134. [1.2]
- SHAHDEO, Deepshikha - ROBERTS, Akanksha - ABBINENI, Naina - GANDHI, Sonu. Graphene based sensors. In Comprehensive Analytical Chemistry. ISSN 0166526X, 2020-01-01, 91, pp. 175-199. Dostupné na: <https://doi.org/10.1016/bs.coac.2020.08.007>., Registrované v: SCOPUS 135. [1.2]
- SREE SANKER, S. S. - MADHUSOODANAN, K. N. Design of terahertz sensor for glucose monitoring based on 2-D photonic crystal pillar array. In 2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018, 2018-11-08, pp., Registrované v: SCOPUS 136. [1.2]
- TENNANT, Paula - FERMIN, Gustavo. Viruses as Targets for Biotechnology: Diagnosis and Detection, Transgenesis, and RNAi- and CRISPR/Cas-Engineered Resistance. In Viruses: Molecular Biology, Host Interactions, and Applications to Biotechnology, 2018-03-14, pp. 317-338., Registrované v: SCOPUS 137. [1.2]
- ZARIPOVA, Viktoriia - PETROVA, Irina - LEZHNINA, Yuliya. Biosensors application for the life systems quality in a smart city. In E3S Web of Conferences. ISSN 25550403, 2019-12-04, 135, pp., Registrované v: SCOPUS 138. [3.1]
- FERNÁNDEZ-NIÑO, Miguel; ISLAM, Zia-ul. The potential of synthetic biology for improving environmental quality and human health in developing countries. IN Revista de la Universidad Industrial de Santander Salud, 2017, vol. 49, no. 1, p. 93-101

139. [3.1] Fu, Z., Lu, Y. C., & Lai, J. J. (2019). Recent advances in biosensors for nucleic acid and exosome detection. In *Chonnam Medical Journal*, 55(2), 86-98
140. [3.1] Naghib, S. M., & Ghorbanzade, S. (2019). Label-free biosensors based on graphene: State-of-the-art. In Palys, B. (ed.). *Handbook of Graphene: vol. 6: Biosensors and Advanced Sensors*, 397-427

ADMA07 HAMMOND, Jules L. - FORMISANO, Nello - ESTRELA, Pedro - CARRARA, Sandro - TKÁČ, Ján. Electrochemical biosensors and nanobiosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 69-80. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150008>

Ohlasy:

1. [1.1] AGRIOPOULOU, Sofia - STAMATELOPOULOU, Eygenia - VARZAKAS, Theodoros. Advances in Analysis and Detection of Major Mycotoxins in Foods. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040518>., Registrované v: WOS
2. [1.1] AHMED, Shehnaz - CHAUHAN, Veeren M. - GHAEEMAGHAMI, Amir M. - AYLOTT, Jonathan W. New generation of bioreactors that advance extracellular matrix modelling and tissue engineering. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2019, vol. 41, no. 1, pp. 1-25., Registrované v: WOS
3. [1.1] ALHALAILI, Badriyah - POPESCU, Ileana Nicoleta - KAMOUN, Olfa - ALZUBI, Feras - ALAWADHIA, Sami - VIDU, Ruxandra. Nanobiosensors for the Detection of Novel Coronavirus 2019-nCoV and Other Pandemic/Epidemic Respiratory Viruses: A Review. In *SENSORS*, 2020, vol. 20, no. 22, pp. Dostupné na: <https://doi.org/10.3390/s20226591>., Registrované v: WOS
4. [1.1] AMERI, Mehrdad - SHABANINEJAD, Zahra - MOVAHEDPOUR, Ahmad - SAHEBKAR, Amirhossein - MOHAMMADI, Soheila - HOSSEINDOOST, Saereh - EBRAHIMI, Mohammad Saeid - SAVARDASHTAKI, Amir - KARIMIPOUR, Mohammad - MIRZAEI, Hamed. Biosensors for detection of Tau protein as an Alzheimer's disease marker. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 1100-1108. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.239>., Registrované v: WOS
5. [1.1] ASAL, Melis - OZEN, Ozlem - SAHINLER, Mert - POLATOGLU, Ilker. Recent Developments in Enzyme, DNA and Immuno-Based Biosensors. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 6, pp., Registrované v: WOS
6. [1.1] ASSAIFAN, Abdulaziz K. - HABIS, Nuha Al - AHMAD, Iftikhar - ALSHEHRI, Naif Ahmed - ALHARBI, Hamad F. Scaling-up medical technologies using flexographic printing. In *TALANTA*. ISSN 0039-9140, 2020, vol. 219, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121236>., Registrované v: WOS
7. [1.1] AYDIN, Elif Burcu - SEZGINTURK, Mustafa Kemal. A comparison between LP(GMA) and CLP(GMA) polymer composites as an immobilization matrix for biosensing applications: A model immunosensor for IL 1 alpha. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1077, no., pp. 129-139., Registrované v: WOS

8. [1.1] BENEÁ, Licinius - POPESCU, Melania - BAWEDIN, Maryline - SIMION, Monica - IONICA, Irina. Novel DNA Biosensor Based on the Out-of-Equilibrium Body Potential Method in Silicon-on-Insulator. In IEEE SENSORS JOURNAL. ISSN 1530-437X, 2020, vol. 20, no. 23, pp. 14032-14041. Dostupné na: <https://doi.org/10.1109/JSEN.2020.3008133>., Registrované v: WOS
9. [1.1] BOZAL-PALABIYIK, Burcin - USLU, Bengi - MARRAZZA, Giovanna. Nanosensors in Biomarker Detection. In NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, 2019, vol., no., pp. 327-380., Registrované v: WOS
10. [1.1] BURNETT, Marianne E. - BODIFORD, Nelli - GOULET, Meghan E. - COFFER, Jeffery L. - GREEN, Kayla N. Environmental effects of chitosan as an immobilization medium for electrochemically active small molecules. In JOURNAL OF COORDINATION CHEMISTRY. ISSN 0095-8972, 2019, vol. 72, no. 13, pp. 2160-2176., Registrované v: WOS
11. [1.1] CASTILLO-HENRIQUEZ, Luis - BRENES-ACUNA, Mariana - CASTRO-ROJAS, Arianna - CORDERO-SALMERON, Rolando - LOPRETTI-CORREA, Mary - VEGA-BAUDRIT, Jose Roberto. Biosensors for the Detection of Bacterial and Viral Clinical Pathogens. In SENSORS, 2020, vol. 20, no. 23, pp. Dostupné na: <https://doi.org/10.3390/s20236926>., Registrované v: WOS
12. [1.1] CERNOCKA, Hana - FOJT, Lukas - ADAMIK, Matej - BRAZDOVA, Marie - PALECEK, Emil - OSTATNA, Veronika. Interfacial properties of p53-DNA complexes containing various recognition elements. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2019, vol. 848, no., pp., Registrované v: WOS
13. [1.1] CVANCAROVA, Monika - SHAHGALDIAN, Patrick - CORVINI, Philippe F.X. Enzyme-Based Nanomaterials in Bioremediation. In ADVANCED NANO-BIO TECHNOLOGIES FOR WATER AND SOIL TREATMENT, 2020, vol., no., pp. 345-372. Dostupné na: https://doi.org/10.1007/978-3-030-29840-1_16., Registrované v: WOS
14. [1.1] DAMLE, Madhura A. - SHETTY, Varsha G. - JAKHADE, Alok P. - KAUL-GHANEKAR, Ruchika - CHIKATE, Rajeev C. Bi-functional nature of nanoceria: pro-drug and drug-carrier potentiality towards receptor-mediated targeting of doxorubicin. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 39, pp. 17013-17026. Dostupné na: <https://doi.org/10.1039/d0nj02895a>., Registrované v: WOS
15. [1.1] DEHGHANI, Sadegh - NOSRATI, Rahim - YOUSEFI, Meysam - NEZAMI, Alireza - SOLTANI, Fatemeh - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 110, no., pp. 23-37., Registrované v: WOS
16. [1.1] DERVISEVIC, Esmá - TUCK, Kellie L. - VOELCKER, Nicolas H. - CADARSO, Victor J. Recent Progress in Lab-On-a-Chip Systems for the Monitoring of Metabolites for Mammalian and Microbial Cell Research. In SENSORS, 2019, vol. 19, no. 22, pp., Registrované v: WOS
17. [1.1] DIAZ-BALLOTE, L. - MALDONADO, L. - GENESCA, J. - HOIL-CANUL, E. R. - VEGA-LIZAMA, T. Electrochemical impedance: A new

- alternative to assess the soap removal from biodiesel in the washing process. In FUEL. ISSN 0016-2361, 2020, vol. 265, no., pp. Dostupné na: <https://doi.org/10.1016/j.fuel.2019.116880.>, Registrované v: WOS
18. [1.1] DORLEDO DE FARIA, Ricardo Adriano - DOUAUD, Alexandre - SOARES, Renata Braga - DIAS HENEINE, Luiz Guilherme - MATENCIO, Tulio - CUNHA LINS, Vanessa de Freitas - MESSADDEQ, Younes. Electrochemical Behavior of Screen-Printed Carbon Electrodes as Transducers in Biosensors. In CORROSION. ISSN 0010-9312, 2020, vol. 76, no. 6, pp. 553-561. Dostupné na: <https://doi.org/10.5006/3203.>, Registrované v: WOS
19. [1.1] FLYNN, Connor - IGNASZAK, Anna. Lyme Disease Biosensors: A Potential Solution to a Diagnostic Dilemma. In BIOSENSORS-BASEL, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/bios10100137.>, Registrované v: WOS
20. [1.1] FOIS, Marco - ARRIGO, Paola - BACCIU, Andrea - MONTI, Patrizia - MARCEDDU, Salvatore - ROCCHITTA, Gaia - SERRA, Pier Andrea. The Presence of Polysaccharides, Glycerol, and Polyethyleneimine in Hydrogel Enhances the Performance of the Glucose Biosensor. In BIOSENSORS-BASEL, 2019, vol. 9, no. 3, pp., Registrované v: WOS
21. [1.1] FURST, Ariel L. - FRANCIS, Matthew B. Impedance-Based Detection of Bacteria. In CHEMICAL REVIEWS. ISSN 0009-2665, 2019, vol. 119, no. 1, pp. 700-726., Registrované v: WOS
22. [1.1] GARZON, Vivian - PINACHO, Daniel G. - BUSTOS, Rosa-Helena - GARZON, Gustavo - BUSTAMANTE, Sandra. Optical Biosensors for Therapeutic Drug Monitoring. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS
23. [1.1] GIRIGOSWAMI, Koyeli - AKHTAR, Najim. Nanobiosensors and fluorescence based biosensors: An overview. In INTERNATIONAL JOURNAL OF NANO DIMENSION. ISSN 2008-8868, 2019, vol. 10, no. 1, pp. 1-17., Registrované v: WOS
24. [1.1] GOLICHENARI, Behrouz - NOSRATI, Rahim - FAROKHI-FARD, Aref - MALEKI, Mahdi Faal - HAYAT, Seyed Mohammad Gheibi - GHAZVINI, Kiarash - VAZIRI, Farzam - BEHRAVAN, Javad. Electrochemical-based biosensors for detection of Mycobacterium tuberculosis and tuberculosis biomarkers. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2019, vol. 39, no. 8, pp. 1056-1077., Registrované v: WOS
25. [1.1] GOMES, Filipa O. - MAIA, Luisa B. - CORDAS, Cristina - DELERUE-MATOS, Cristina - MOURA, Isabel - MOURA, Jose J. G. - MORAIS, Simone. Nitric Oxide Detection Using Electrochemical Third-generation Biosensors Based on Heme Proteins and Porphyrins. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2485-2503., Registrované v: WOS
26. [1.1] GULABOSKI, Rubin - MIRCESKI, Valentin - KAPPL, Reinhard - HOTH, Markus - BOZEM, Monika. Review-Quantification of Hydrogen Peroxide by Electrochemical Methods and Electron Spin Resonance Spectroscopy. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2019, vol. 166, no. 8, pp. G82-G101., Registrované v: WOS
27. [1.1] GUO, Teng - GAO, Jiefeng - XU, Mengjiao - JU, Yun - LI, Jiye - XUE, Huaiguo. Hierarchically Porous Organic Materials Derived From Copolymers: Preparation and Electrochemical Applications. In POLYMER

REVIEWS. ISSN 1558-3724, 2019, vol. 59, no. 1, pp. 149-186., Registrované v: WOS

28. [1.1] GUPTA, S. - MURTHY, C. N. - PRABHA, C. Ratna. Recent advances in carbon nanotube based electrochemical biosensors. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 687-703., Registrované v: WOS

29. [1.1] HASSANI, Shokoufeh - AKMAL, Milad Rezaei - SALEK-MAGHSOUDI, Armin - RAHMANI, Soheila - GANJALI, Mohammad Reza - NOROUZI, Parviz - ABDOLLAHI, Mohammad. Novel label-free electrochemical aptasensor for determination of Diazinon using gold nanoparticles-modified screen-printed gold electrode. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 120, no., pp. 122-128., Registrované v: WOS

30. [1.1] HASSAN, Eman M. - DEROSA, Maria C. Recent advances in cancer early detection and diagnosis: Role of nucleic acid based aptasensors. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115806>., Registrované v: WOS

31. [1.1] HOYOS-NOGUES, Mireia - GIL, F. J. - MAS-MORUNO, Carlos. Antimicrobial Peptides: Powerful Biorecognition Elements to Detect Bacteria in Biosensing Technologies. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 7, pp., Registrované v: WOS

32. [1.1] CHAROENKITAMORN, Kanokwan - YAKOH, Abdulhadee - JAMPASA, Sakda - CHAIYO, Sudkate - CHAILAPAKUL, Orawon. Electrochemical and optical biosensors for biological sensing applications. In SCIENCEASIA. ISSN 1513-1874, 2020, vol. 46, no. 3, pp. 245-253. Dostupné na: <https://doi.org/10.2306/scienceasia1513-1874.2020.049>., Registrované v: WOS

33. [1.1] CHEEVEEWATTANAGUL, N. - BUPPASIRAKUL, S. - SURAREUNGCHAI, W. Immunosensors Using Screen-printed Electrodes. In IMMUNOSENSORS. ISSN 2052-3068, 2019, vol. 14, no., pp. 267-302., Registrované v: WOS

34. [1.1] CHEN, Yuhan - LI, Youlun - YANG, Yang - WU, Fangni - CAO, Jun - BAI, Lijuan. A polyaniline-reduced graphene oxide nanocomposite as a redox nanoprobe in a voltammetric DNA biosensor for Mycobacterium tuberculosis. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 6, pp. 1801-1808., Registrované v: WOS

35. [1.1] CHO, Il-Hoon - LEE, Jongsung - KIM, Jiyeon - KANG, Min-soo - PAIK, Jean Kyung - KU, Seockmo - CHO, Hyun-Mo - IRUDAYARAJ, Joseph - KIM, Dong-Hyung. Current Technologies of Electrochemical Immunosensors: Perspective on Signal Amplification. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 1, pp., Registrované v: WOS

36. [1.1] JAMPASA, Sakda - LAE-NGEE, Prayoon - PATARAKUL, Kanitha - NGAMROJANAVANICH, Nattaya - CHAILAPAKUL, Orawon - RODTHONGKUM, Nadnudda. Electrochemical immunosensor based on gold-labeled monoclonal anti-LipL32 for leptospirosis diagnosis. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 142, no., pp., Registrované v: WOS

37. [1.1] JIN, Quanchang - CHEN, Hui-Jiuan - LI, Xiangling - HUANG, Xinshuo - WU, Qianni - HE, Gen - HANG, Tian - YANG, Chengduan - JIANG,

- Zhen - LI, Enlai - ZHANG, Aihua - LIN, Zhihong - LIU, Fanmao - XIE, Xi. Reduced Graphene Oxide Nanohybrid-Assembled Microneedles as Mini-Invasive Electrodes for Real-Time Transdermal Biosensing. In *SMALL*. ISSN 1613-6810, 2019, vol. 15, no. 6, pp., Registrované v: WOS
38. [1.1] KAMAC, Melike Bilgi - ONAT, Eda Kiymaz - YILMAZ, Merve. A new disposable amperometric NADH sensor based on screen-printed electrode modified with reduced graphene oxide/polyneutral red/gold nanoparticle. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY*. ISSN 0306-7319, 2020, vol. 100, no. 4, pp. 419-431. Dostupné na: <https://doi.org/10.1080/03067319.2019.1703965>., Registrované v: WOS
39. [1.1] KASSEM, Assaad - AYOUB, George M. - MALAEB, Lilian. Antibacterial activity of chitosan nano-composites and carbon nanotubes: A review. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2019, vol. 668, no., pp. 566-576., Registrované v: WOS
40. [1.1] KAUSHAL, Sandeep - NANDA, Sitansu Sekhar - SAMAL, Shashadhar - YI, Dong Kee. Strategies for the Development of Metallic-Nanoparticle-Based Label-Free Biosensors and Their Biomedical Applications. In *CHEMBIOCHEM*. ISSN 1439-4227, 2020, vol. 21, no. 5, pp. 576-600. Dostupné na: <https://doi.org/10.1002/cbic.201900566>., Registrované v: WOS
41. [1.1] KHANMOHAMMADI, Akbar - AGHAIE, Ali - VAHEDI, Ensieh - QAZVINI, Ali - GHANEI, Mostafa - AFKHAMI, Abbas - HAJIAN, Ali - BAGHERI, Hasan. Electrochemical biosensors for the detection of lung cancer biomarkers: A review. In *TALANTA*. ISSN 0039-9140, 2020, vol. 206, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2019.120251>., Registrované v: WOS
42. [1.1] KHAN, M. Junaid Iqbal - KANWAL, Zarfishan - LIU, Juan - IJAZ, Abera - USMANI, Nauman. Exploring novel biomedical applications of rocksalt CdS system with various Eu concentrations (A theoretical study). In *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*. ISSN 0217-9792, 2019, vol. 33, no. 31, pp., Registrované v: WOS
43. [1.1] KHAN, Niazul - SONG, Edward. Lab-on-a-Chip Systems for Aptamer-Based Biosensing. In *MICROMACHINES*, 2020, vol. 11, no. 2, pp. Dostupné na: <https://doi.org/10.3390/mi11020220>., Registrované v: WOS
44. [1.1] KIZILTAN, Damla - VURAL, Tayfun - BAYRAM, Cem - OZTURK, Serhat - BOZDOGAN, Betul - YAMAN, Yesim Tugce - ABACI, Serdar - DENKBAS, Emir Baki. Development of Titania Nanotube-based Electrochemical Immunosensor and Determination of Prostate Specific Antigen. In *ANALYTICAL SCIENCES*. ISSN 0910-6340, 2018, vol. 34, no. 7, pp. 789-794., Registrované v: WOS
45. [1.1] KUCHERENKO, I. S. - SOLDATKIN, O. O. - DZYADEVYCH, S. V. - SOLDATKIN, A. P. Electrochemical biosensors based on multienzyme systems: Main groups, advantages and limitations A review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1111, no., pp. 114-131. Dostupné na: <https://doi.org/10.1016/j.aca.2020.03.034>., Registrované v: WOS
46. [1.1] KURBANOGLU, Sevinc - UNAL, Mehmet Altay - OZKAN, Sibel A. Recent developments on electrochemical flow injection in pharmaceuticals and biologically important compounds. In *ELECTROCHIMICA*

ACTA. ISSN 0013-4686, 2018, vol. 287, no., pp. 135-148., Registrované v: WOS

47. [1.1] LIU, Pei - LI, Chao - ZHANG, Ruixuan - TANG, Qing - WEI, Jia - LU, Yan - SHEN, Pingping. An ultrasensitive electrochemical immunosensor for procalcitonin detection based on the gold nanoparticles-enhanced tyramide signal amplification strategy. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 543-550., Registrované v: WOS

48. [1.1] LORENZO-GOMEZ, Ramon - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, Maria. Electrochemical aptamer-based assays coupled to isothermal nucleic acid amplification techniques: New tools for cancer diagnosis. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2019, vol. 14, no., pp. 32-43., Registrované v: WOS

49. [1.1] MAKLER, Amy - ASGHAR, Waseem. Exosomal biomarkers for cancer diagnosis and patient monitoring. In EXPERT REVIEW OF MOLECULAR DIAGNOSTICS. ISSN 1473-7159, 2020, vol. 20, no. 4, pp. 387-400. Dostupné na: <https://doi.org/10.1080/14737159.2020.1731308>., Registrované v: WOS

50. [1.1] MARTINEZ-ARIAS, Carlos G. - ESCOBAR, Marco A. - GUZMAN-SEPULVEDA, J. R. - TORRES-CISNEROS, Miguel - GUZMAN-CABRERA, Rafael. Biosensing using long-range surface plasmon structures. In BIOSENSING AND NANOMEDICINE XI. ISSN 0277-786X, 2018, vol. 10728, no., pp., Registrované v: WOS

51. [1.1] MEHMOOD, S. - KHAN, A. Z. - BILAL, M. - SOHAIL, A. - IQBAL, H. M. N. Aptamer-based biosensors: a novel toolkit for early diagnosis of cancer. In MATERIALS TODAY CHEMISTRY. ISSN 2468-5194, 2019, vol. 12, no., pp. 353-360., Registrované v: WOS

52. [1.1] MONDAL, Subrata. Potential of Nanotechnology for Rural Applications. In ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING. ISSN 2193-567X, 2020, vol. 45, no. 7, pp. 5011-5042. Dostupné na: <https://doi.org/10.1007/s13369-019-04332-5>., Registrované v: WOS

53. [1.1] NEZAMI, Alireza - DEHGHANI, Sadegh - NOSRATI, Rahim - ESKANDARI, Negar - TAGHDISI, Seyed Mohammad - KARIMI, Gholamreza. Nanomaterial-based biosensors and immunosensors for quantitative determination of cardiac troponins. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 159, no., pp. 425-436., Registrované v: WOS

54. [1.1] NGOC-VIET NGUYEN - YANG, Chun-Hao - LIU, Chung-Jung - KUO, Chao-Hung - WU, Deng-Chyang - JEN, Chun-Ping. An Aptamer-Based Capacitive Sensing Platform for Specific Detection of Lung Carcinoma Cells in the Microfluidic Chip. In BIOSENSORS-BASEL. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS

55. [1.1] OLIVEIRA, Idjane Santana - DA SILVA JUNIOR, Alberto Galdino - SOUZA DE ANDRADE, Cesar Augusto - LIMA OLIVEIRA, Maria Danielly. Biosensors for early detection of fungi spoilage and toxigenic and mycotoxins in food. In CURRENT OPINION IN FOOD SCIENCE. ISSN 2214-7993, 2019, vol. 29, no., pp. 64-79., Registrované v: WOS

56. [1.1] OSHIN, Oluwadamilola - KIREEV, Dmitry - HLUKHOVA, Hanna - IDACHABA, Francis - AKINWANDE, Deji - ATAYERO, Aderemi.

Graphene-Based Biosensor for Early Detection of Iron Deficiency. In SENSORS, 2020, vol. 20, no. 13, pp. Dostupné na: <https://doi.org/10.3390/s20133688>., Registrované v: WOS

57. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS

58. [1.1] PANHWAR, Sallahuddin - ILHAN, Hasan - HASSAN, Syeda Sara - ZENGİN, Adem - BOYACI, Ismail Hakki - TAMER, Ugur. Dual Responsive Disposable Electrode for the Enumeration of Escherichia coli in Whole Blood. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 10, pp. 2244-2252. Dostupné na: <https://doi.org/10.1002/elan.202060185>., Registrované v: WOS

59. [1.1] PRASAD, Mooni Siva - CHEN, Rongsheng - LI, Yang - REKHA, Dasari - LI, Dan - NI, Hongwei - SREEDHAR, Neelam Yugandhar. Polypyrrole Supported With Copper Nanoparticles Modified Alkali Anodized Steel Electrode for Probing of Glucose in Real Samples. In IEEE SENSORS JOURNAL. ISSN 1530-437X, 2018, vol. 18, no. 13, pp. 5203-5212., Registrované v: WOS

60. [1.1] RAMADOSS, Preethi - RAHMAN, Mohammed Isfahur - PERUMAL, Agilan - NALLAIYAN, Rajendran - BASHA, Sabiha Hayath - DAKSHANAMOORTHY, Arivuoli. Non-Invasive, Non-Enzymatic, Biodegradable and Flexible Sweat Glucose Sensor and Its Electrochemical Studies. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 36, pp. 11305-11321. Dostupné na: <https://doi.org/10.1002/slct.202002622>., Registrované v: WOS

61. [1.1] RANI, Seema - BANDYOPADHYAY-GHOSH, Sanchita - GHOSH, Subrata Bandhu - LIU, Guozhen. Advances in Sensing Technologies for Monitoring of Bone Health. In BIOSENSORS-BASEL, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/bios10040042>., Registrované v: WOS

62. [1.1] RAYMUNDO-PEREIRA, Paulo A. - BACCARIN, Marina - OLIVEIRA, Osvaldo N. - JANEGITZ, Bruno C. Thin Films and Composites Based on Graphene for Electrochemical Detection of Biologically-relevant Molecules. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 9, pp. 1888-1896., Registrované v: WOS

63. [1.1] RAZMI, Nasrin - HASANZADEH, Mohammad - WILLANDER, Magnus - NUR, Omer. Recent Progress on the Electrochemical Biosensing of Escherichia coli O157:H7: Material and Methods Overview. In BIOSENSORS-BASEL, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050054>., Registrované v: WOS

64. [1.1] REBELO, Rita - BARBOSA, Ana I. - CABALLERO, David - KWON, Il Keun - OLIVEIRA, Joaquim M. - KUNDU, Subhas C. - REIS, Rui L. - CORRELO, Vitor M. 3D biosensors in advanced medical diagnostics of high mortality diseases. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 130, no., pp. 20-39., Registrované v: WOS

65. [1.1] SAFARPOUR, Hossein - DEHGHANI, Sadegh - NOSRATI, Rahim - ZEBARDAST, Nozhat - ALIBOLANDI, Mona - MOKHTARZADEH, Ahad - RAMEZANI, Mohammad. Optical and electrochemical-based nano-aptasensing approaches for the detection of circulating tumor cells (CTCs).

In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 148, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2019.111833>., Registrované v: WOS

66. [1.1] SAHIN, Samet - CAGLAYAN, Mustafa Oguzhan - UESTUENDAG, Zafer. Recent advances in aptamer-based sensors for breast cancer diagnosis: special cases for nanomaterial-based VEGF, HER2, and MUC1 aptasensors. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 10, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04526-x>., Registrované v: WOS

67. [1.1] SALVADOR, Maria - MOYANO, Amanda - CARLOS MARTINEZ-GARCIA, Jose - CARMEN BLANCO-LOPEZ, Maria - RIVAS, Montserrat. Synthesis of Superparamagnetic Iron Oxide Nanoparticles: SWOT Analysis Towards Their Conjugation to Biomolecules for Molecular Recognition Applications. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, 2019, vol. 19, no. 8, pp. 4839-4856., Registrované v: WOS

68. [1.1] SANATI, Alireza - JALALI, Mahsa - RAEISSI, Keyvan - KARIMZADEH, Fathallah - KHARAZIHA, Mahshid - MAHSHID, Sahar Sadat - MAHSHID, Sara. A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials. In MICROCHIMICA ACTA. ISSN 0026-3672, 2019, vol. 186, no. 12, pp., Registrované v: WOS

69. [1.1] SANGEETHA, D. N. - POOJA, H. - BHANDARY, Savisha - SHETTY, Yashaswini - SUBASHCHANDRABOSE, Raghu - SELVAKUMAR, M. Flexible modified plastic strips coated polyaniline/graphene composite for electrochemical biosensors. In INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY. ISSN 0376-4710, 2020, vol. 59, no. 5, pp. 616-624., Registrované v: WOS

70. [1.1] SARDINI, Emilio - SERPELLONI, Mauro - TONELLO, Sarah. Printed Electrochemical Biosensors: Opportunities and Metrological Challenges. In BIOSENSORS-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/bios10110166>., Registrované v: WOS

71. [1.1] SHARIFI, Majid - AVADI, Mohammad Reza - ATTAR, Farnoosh - DASHTESTANI, Fariba - GHORCHIAN, Hedayatollah - REZAYAT, Seyed Mahdi - SABOURY, Ali Akbar - FALAHATI, Mojtaba. Cancer diagnosis using nanomaterials based electrochemical nanobiosensors. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 126, no., pp. 773-784., Registrované v: WOS

72. [1.1] SHUNIN, Yuri - BELLUCCI, Stefano - GRUODIS, Alytis - LOBANOVA-SHUNINA, Tamara. Classification and Operating Principles of Nanodevices. In NONREGULAR NANOSYSTEMS: THEORY AND APPLICATIONS, 2018, vol., no., pp. 147-206., Registrované v: WOS

73. [1.1] SILVA, Nadia F. D. - NEVES, Marta M. P. S. - MAGALHAES, Julia M. C. S. - FREIRE, Cristina - DELERUE-MATOS, Cristina. Emerging electrochemical biosensing approaches for detection of *Listeria monocytogenes* in food samples: An overview. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2020, vol. 99, no., pp. 621-633. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.03.031>., Registrované v: WOS

74. [1.1] SOARES, Juliana Coatrini - MELENDEZ, Matias Eliseo - SOARES, Andrey Coatrini - ARANTES, Lidia Maria Rebolho Batista - RODRIGUES, Valquiria da Cruz - CARVALHO, Andre Lopes - REIS, Rui

- Manuel - MATTOSO, Luiz Henrique C. - OLIVEIRA, Osvaldo N. Detection of HPV16 in cell lines deriving from cervical and head and neck cancer using a genosensor made with a DNA probe on a layer-by-layer matrix. In MATERIALS CHEMISTRY FRONTIERS, 2020, vol. 4, no. 11, pp. 3258-3266. Dostupné na: <https://doi.org/10.1039/d0qm00530d>., Registrované v: WOS
75. [1.1] SOARES, Ruben R. G. - RICELLI, Alessandra - FANELLI, Corrado - CAPUTO, Domenico - DE CESARE, Giampiero - CHU, Virginia - AIRES-BARROS, M. Raquel - CONDE, Joao P. Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. In ANALYST. ISSN 0003-2654, 2018, vol. 143, no. 5, pp. 1015-1035., Registrované v: WOS
76. [1.1] SOUKARIE, Diana - ECOCHARD, Vincent - SALOME, Laurence. DNA-based nanobiosensors for monitoring of water quality. In INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH. ISSN 1438-4639, 2020, vol. 226, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijheh.2020.113485>., Registrované v: WOS
77. [1.1] SUNDARARAM, Mohanarangan - JANAKIRAMAN, Kumar - KUMAR, Annamalai Senthil - LAKSHMINARAYANAN, V. - SANKARAN, Krishnan. AC impedance measurement for the enzyme kinetics of urea-urease system: a model for impedimetric biosensor. In BULLETIN OF MATERIALS SCIENCE. ISSN 0250-4707, 2020, vol. 43, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s12034-020-2055-2>., Registrované v: WOS
78. [1.1] TAHA, Mohamed Husien Fahmy - ASHRAF, Hager - CAESARENDRA, Wahyu. A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. In APPLIED SYSTEM INNOVATION, 2020, vol. 3, no. 3, pp. Dostupné na: <https://doi.org/10.3390/asi3030032>., Registrované v: WOS
79. [1.1] TONELLO, Sarah - ABATE, Giulia - BORGHETTI, Michela - MARZIANO, Mariagrazia - SERPELLONI, Mauro - UBERTI, Daniela L. - LOPOMO, Nicola Francesco - MEMO, Maurizio - SARDINI, Emilio. Wireless Point-of-Care Platform With Screen-Printed Sensors for Biomarkers Detection. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. ISSN 0018-9456, 2017, vol. 66, no. 9, pp. 2448-2455., Registrované v: WOS
80. [1.1] VARGIS, Vidhu Sara - VASU, Suneesh Punathil - SREE, R. Jyothi - NAIR, Bipin - GOPALAKRISHNAN, Satheesh Babu Thekkedath. Peroxidase Labeled Antibody Conjugated Gold Nanoparticles for Ultrasensitive Voltammetric Immunosensing. In IEEE SENSORS JOURNAL. ISSN 1530-437X, 2020, vol. 20, no. 3, pp. 1142-1149. Dostupné na: <https://doi.org/10.1109/JSEN.2019.2946311>., Registrované v: WOS
81. [1.1] VIKRANT, Kumar - BHARDWAJ, Neha - BHARDWAJ, Sanjeev K. - KIM, Ki-Hyun - DEEP, Akash. Nanomaterials as efficient platforms for sensing DNA. In BIOMATERIALS. ISSN 0142-9612, 2019, vol. 214, no., pp., Registrované v: WOS
82. [1.1] VIKRANT, Kumar - TSANG, Daniel C. W. - RAZA, Nadeem - GIRI, Balendu Shekher - KUKKAR, Deepak - KIM, Ki-Hyun. Potential Utility of Metal-Organic Framework-Based Platform for Sensing Pesticides. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 10, pp. 8797-8817., Registrované v: WOS
83. [1.1] WANG, Jun-Sheng - SAKTHIVEL, Rajalakshmi -

- ANBAZHAGAN, Rajeshkumar - KRISHNAMOORTHY, Rajakumari - KUBENDHIRAN, Subbiramaniyan - LAI, Juin-Yih - TSAI, Hsieh-Chih - CHEN, Shen-Ming. Electroactive polypyrrole-molybdenum disulfide nanocomposite for ultrasensitive detection of berberine in rat plasma. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1125, no., pp. 210-219. Dostupné na: <https://doi.org/10.1016/j.aca.2020.05.056>., Registrované v: WOS
84. [1.1] WANG, Yu - GUO, Yan - LU, Jianguang - SUN, Yanan - YU, Xiaoguang - GOPINATH, Subash C. B. - LAKSHMIPRIYA, Thangavel - WU, Yuan Seng - WANG, Chao. Nanodetection of Head and Neck Cancer on Titanium Oxide Sensing Surface. In NANOSCALE RESEARCH LETTERS. ISSN 1931-7573, 2020, vol. 15, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s11671-020-3262-x>., Registrované v: WOS
85. [1.1] WIBOWO, Kusnanto Mukti - MUSLIHATI, Atqiya - SAHDAN, Mohd Zainizan - ROSNI, Nurliyana Mad - BASRI, Hatijah - FUDHOLI, Ahmad. A novel, portable Escherichia coli bacteria sensor using graphene as sensing material. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2020, vol. 254, no., pp. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2020.123459>., Registrované v: WOS
86. [1.1] WOOD, Christopher S. - THOMAS, Michael R. - BUDD, Jobie - MASHAMBA-THOMPSON, Tivani P. - HERBST, Kobus - PILLAY, Deenan - PEELING, Rosanna W. - JOHNSON, Anne M. - MCKENDRY, Rachel A. - STEVENS, Molly M. Taking connected mobile-health diagnostics of infectious diseases to the field. In NATURE. ISSN 0028-0836, 2019, vol. 566, no. 7745, pp. 467-474., Registrované v: WOS
87. [1.1] XIANG, Wenwen - LV, Qiuxiang - SHI, Haixia - XIE, Bing - GAO, Li. Aptamer-based biosensor for detecting carcinoembryonic antigen. In TALANTA. ISSN 0039-9140, 2020, vol. 214, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120716>., Registrované v: WOS
88. [1.1] XU, Jian - LEE, Hyowon. Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. In CHEMOSENSORS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>., Registrované v: WOS
89. [1.1] YUAN, Min - QIAN, Shi-Quan - CAO, Hui - XU, Fei - YE, Tai - YU, Jin-Song - GUO, Wen - WU, Jia-Ying - TI-KAN, A. An Ultra-sensitive Electrochemical Aptasensor for Detection of Cd²⁺. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2020, vol. 48, no. 12, pp. 1701-1708. Dostupné na: <https://doi.org/10.19756/j.issn.0253-3820.201072>., Registrované v: WOS
90. [1.1] ZAKARIA, Norazreen - RAMLI, Muhammad Zaki - RAMASAMY, Kalavathy - MENG, Lim Siong - YEAN, Chan Yean - SINGH, Kirnpal Kaur Banga - ZAIN, Zainiharyati Mohd - LOW, Kim-Fatt. An impedimetric micro-immunosensing assay to detect Alzheimer's disease biomarker: A beta 40. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2018, vol. 555, no., pp. 12-21., Registrované v: WOS
91. [1.1] ZHANG, Hanyuan - MILLER, Benjamin L. Immunosensor-based label-free and multiplex detection of influenza viruses: State of the art. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2019, vol. 141, no., pp., Registrované v: WOS
92. [1.2] DA SILVA, Jussara Vieira - MADURRO, Ana Graci Brito -

- MADURRO, João Marcos. Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization. In *Journal of Solid State Electrochemistry*. ISSN 14328488, 2017-07-01, 21, 7, pp. 2129-2139., Registrované v: SCOPUS
93. [1.2] DIAUUDIN, Farah Nabila - RASHID, Jahwarhar Izuan Abdul - KNIGHT, Victor Feizal - WAN YUNUS, Wan Md Zin - ONG, Keat Khim - KASIM, Noor Azilah Mohd - ABDUL HALIM, Norhana - NOOR, Siti Aminah Mohd. A review of current advances in the detection of organophosphorus chemical warfare agents based biosensor approaches. In *Sensing and Bio-Sensing Research*, 2019-11-01, 26, pp., Registrované v: SCOPUS
94. [1.2] CHAMAS, Alexandre - PHAM, Ha Thi Minh - BARONIAN, Kim - KUNZE, Gotthard. Biosensors based on yeast/fungal cells. In *Biotechnology of Yeasts and Filamentous Fungi*, 2017-06-12, pp. 351-371., Registrované v: SCOPUS
95. [1.2] SARIHI, Pouria - AZADKHAH SHALMANI, Armin - ARABAN, Vida - RAOUFI, Mohammad. Nanoparticles for biosensing. In *Advanced Structured Materials*. ISSN 18698433, 2019-01-01, 104, pp. 121-143., Registrované v: SCOPUS
96. [1.2] SINGH, Renu - MOHAN, Chandini C. Nanobiosensing technologies for prostate cancer diagnostics/prognostics: Tiny smart medicine. In *Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis*, 2017-12-30, pp. 233-252., Registrované v: SCOPUS
97. [1.2] SOUTO, Dênio E.P. - DE MORAES, Ana C.M. - BARRAGAN, José T.C. - DA SILVA, Everson T.S.G. - CAROSSO, Lory C. - KUBOTA, Lauro T. Recent materials and recognition elements applied in electrochemical biosensors. In *Advanced Materials and Systems for Electrochemical Technologies*, 2018-01-01, pp. 127-172., Registrované v: SCOPUS
98. [1.2] ZARIPOVA, Viktoriya M. - PETROVA, Irina Yu. System of automated design of biosensors. In *Communications in Computer and Information Science*. ISSN 18650929, 2017-01-01, 754, pp. 479-489., Registrované v: SCOPUS

ADMA08 HOLLÁ, Veronika - ANTOŠOVÁ, Monika - KARKESZOVÁ, Klaudia - MASTIHUBA, Vladimír - POLAKOVIČ, Milan**. Screening of commercial enzymes for transfructosylation of tyrosol: Effect of process conditions and reaction network. In *Biotechnology Journal*, 2019, vol. 14, no. 8, article number 1800871. (2018: 3.543 - IF, Q1 - JCR, 1.170 - SJR, Q1 - SJR). ISSN 1860-6768 (print), 1860-7314 (online). Dostupné na: <https://doi.org/10.1002/biot.201800571>

Ohlasy:

1. [1.1] YOSHIKAWA, Jun - SHIOTA, Kazuma - HORIGUCHI, Hirofumi. One-step Removal of Proteases in a Commercial Lactase Preparation from *Kluyveromyces lactis* Using an Anion-exchange Membrane. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2020, vol. 26, no. 1, pp. 65-68. Dostupné na: <https://doi.org/10.3136/fstr.26.65>., Registrované v: WOS

ADMA09 HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti - MISHRA, Sushil Kumar - ROMANO, Patrick R. - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Influence of Trp flipping on carbohydrate binding in lectins. An example on *Aleuria aurantia* lectin AAL. In *PLoS ONE*, 2017, vol. 12, art. no. e0189375. (2016: 2.806 -

IF, Q1 - JCR, 1.236 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na:
<https://doi.org/10.1371/journal.pone.0189375>

Ohlasy:

1. [1.1] POKORNA, Pavlina - KREPL, Miroslav - BARTOVA, Eva - SPONER, Jiri. Role of Fine Structural Dynamics in Recognition of Histone H3 by HP1 gamma(CSD) Dimer and Ability of Force Fields to Describe Their Interaction Network. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2019, vol. 15, no. 10, pp. 5659-5673., Registrované v: WOS
2. [1.1] WANG, Mengjun - SHEN, Jiabin - HERRERA, Harmin - SINGAL, Amit - SWINDELL, Charles - LU RENQUAN - MEHTA, Anand. Biomarker analysis of fucosylated kininogen through depletion of lectin reactive heterophilic antibodies in hepatocellular carcinoma. In JOURNAL OF IMMUNOLOGICAL METHODS. ISSN 0022-1759, 2018, vol. 462, no., pp. 59-64., Registrované v: WOS
3. [1.1] WEST, Connor A. - WANG, Mengjun - HERRERA, Harmin - LIANG, Hongyan - BLACK, Alyson - ANGEL, Peggi M. - DRAKE, Richard R. - MEHTA, Anand S. N-Linked Glycan Branching and Fucosylation Are Increased Directly in Hcc Tissue As Determined through in Situ Glycan Imaging. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2018, vol. 17, no. 10, pp. 3454-3462., Registrované v: WOS

ADMA10 KARELIN, Alexander A. - TSVETKOV, Yury E. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - NIFANTIEV, Nikolay E. Blockwise synthesis of pentasaccharide structurally related to the mannan fragment from *Candida albicans* cell wall corresponding to the antigenic factor 6. In *Russian Chemical Bulletin*, 2015, vol. 64, p. 2942-2948. (2014: 0.481 - IF, Q4 - JCR, 0.242 - SJR, Q3 - SJR, Current Contents - CCC). (2015 - Current Contents). ISSN 1066-5285. Dostupné na: <https://doi.org/10.1007/s11172-015-1251-5>

Ohlasy:

1. [1.1] ORLOV, N. V. Rational design of complex molecular structures starting from readily available precursors. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2016, vol. 65, no. 6, pp. 1418-1440., Registrované v: WOS
2. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS
3. [1.1] XU, Huanfang - CHEN, Long - ZHANG, Qi - FENG, Yingle - ZU, Yujia - CHAI, Yonghai. Stereoselective Mannosylation with 2,6-Lactone-bridged Thiomannosyl Donor by Remote Acyl Group Participation. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, 2019, vol. 14, no. 9, pp. 1424-1428., Registrované v: WOS

ADMA11 KARNÍŠOVÁ POTOČKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Enzymatic synthesis of tyrosol and hydroxytyrosol β -D-fructofuranosides. In *Biocatalysis and Biotransformation*, 2019, vol. 37, p. 18-24. (2018: 1.627 - IF, Q3 - JCR, 0.299 - SJR, Q3 - SJR). ISSN 1024-2422. Dostupné na: <https://doi.org/10.1080/10242422.2017.1423060>

Ohlasy:

1. [1.1] MIGUEZ, Noa - RAMIREZ-ESCUADERO, Mercedes - GIMENO-PEREZ, Maria - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - FERNANDEZ-LOBATO, Maria - SANZ-APARICIO, Julia - PLOU, Francisco J. Fructosylation of Hydroxytyrosol by the beta-Fructofuranosidase from *Xanthophyllomyces dendrorhous*: Insights into the Molecular Basis of the Enzyme Specificity. In *CHEMCATCHER*. ISSN 1867-3880, 2018, vol. 10, no. 21, pp. 4892-4901., Registrované v: WOS

ADMA12 KONYARIKOVÁ, Zuzana - SAVKOVÁ, Karin - KOZMON, Stanislav - MIKUŠOVÁ, Katarína**. Biosynthesis of galactan in mycobacterium tuberculosis as a viable TB drug target? In *Antibiotics*, 2020, vol. 9, art. no. 20 [25] p. (2019: 3.893 - IF, Q1 - JCR, 1.173 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na: <https://doi.org/10.3390/antibiotics9010020>

Ohlasy:

1. [1.1] MAALIKI, Carine - FU, Jian - VILLAUME, Sydney - VILJOEN, Albertus - RAYNAUD, Clement - HAMMOUD, Sokaina - THIBONNET, Jerome - KREMER, Laurent - VINCENT, Stephane P. - THIERY, Emilie. Synthesis and evaluation of heterocycle structures as potential inhibitors of *Mycobacterium tuberculosis* UGM. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2020, vol. 28, no. 13, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115579>., Registrované v: WOS
2. [1.1] SHAKU, Moagi - EALAND, Christopher - KANA, Bavesh D. Cell Surface Biosynthesis and Remodeling Pathways in *Mycobacteria* Reveal New Drug Targets. In *FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY*. ISSN 2235-2988, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fcimb.2020.603382>., Registrované v: WOS
3. [1.1] VILCHEZE, Catherine. *Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs*. In *APPLIED SCIENCES-BASEL*, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/app10072278>., Registrované v: WOS

ADMA13 KOSZAGOVÁ, Romana, Repiská - KRAJČOVIČ, Tomáš - PALEŇČÁROVÁ, Klaudia - PÄTOPRSTÝ, Vladimír - VIKARTOVSKÁ, Alica - POSPÍŠKOVÁ, Kristyna - ŠAFARÍK, Ivo - NAHÁLKA, Jozef**. Magnetization of active inclusion bodies: comparison with centrifugation in repetitive biotransformations. In *Microbial Cell Factories*, 2018, vol. 17, p. 139-146. (2017: 3.831 - IF, Q1 - JCR, 1.443 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/s12934-018-0987-7>

Ohlasy:

1. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS, Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVERDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In *FEMS MICROBIOLOGY REVIEWS*. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS
2. [1.1] HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in *Escherichia coli*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no.

8, pp. 563-571. Dostupné na: <https://doi.org/10.1007/s10295-020-02294-4>,
Registrované v: WOS

3. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na:

<https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS

4. [1.1] JAEGER, Vera D. - PIQUERAY, Maja - SEIDE, Selina - POHL, Martina - WIECHERT, Wolfgang - JAEGER, Karl-Erich - KRAUSS, Ulrich. An Enzymatic 2-Step Cofactor and Co-Product Recycling Cascade towards a Chiral 1,2-Diol. Part II: Catalytically Active Inclusion Bodies. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2019, vol. 361, no. 11, pp. 2616-2626., Registrované v: WOS

5. [1.1] MESTROM, Luuk - PRZYPIS, Marta - KOWALCZYKIEWICZ, Daria - POLLENDER, Andre - KUMPF, Antje - MARSDEN, Stefan R. - BENTO, Isabel - JARZEBSKI, Andrzej B. - SZYMANSKA, Katarzyna - CHRUSCIEL, Arkadiusz - TISCHLER, Dirk - SCHOEVAART, Rob - HANEFELD, Ulf - HAGEDOORN, Peter-Leon. Leloir Glycosyltransferases in Applied Biocatalysis: A Multidisciplinary Approach. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2019, vol. 20, no. 21, pp., Registrované v: WOS

6. [1.1] MIKL, Markus - DENNIG, Alexander - NIDETZKY, Bernd. Efficient enzyme formulation promotes Leloir glycosyltransferases for glycoside synthesis. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2020, vol. 322, no., pp. 74-78. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.06.023>,
Registrované v: WOS

ADMA14 KOŠŤÁLOVÁ, Zuzana - AGUEDO, Mario - HROMÁDKOVÁ, Zdenka.

Microwave-assisted extraction of pectin from unutilized pumpkin biomass. In *Chemical Engineering and Processing: Process Intensification*, 2016, vol. 102, p. 9-15. (2015: 2.154 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, Current Contents - CCC). (2016 - Current Contents). ISSN 0255-2701. Dostupné na: <https://doi.org/10.1016/j.cep.2015.12.009>

Ohlasy:

1. [1.1] BAI, Yeming - ZHANG, Mengshan - ATLURI, Sharat Chandra - CHEN, Jialin - GILBERT, Robert G. Relations between digestibility and structures of pumpkin starches and pectins. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 106, no., pp. Dostupné na:

<https://doi.org/10.1016/j.foodhyd.2020.105894>, Registrované v: WOS

2. [1.1] BUSS MAREDA, Flavia Roberta - MATTIODA, Fernanda - DEMIATE, Ivo Mottin - DE FRANCISCO, Alicia - DE OLIVEIRA PETKOWICZ, Carmen Lucia - GIOVANETTI CANTERI, Maria Helene - DE MELLO CASTANHO AMBONI, Renata Dias. Advances in Studies Using Vegetable Wastes to Obtain Pectic Substances: A Review. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2019, vol. 27, no. 3, pp. 549-560., Registrované v: WOS

3. [1.1] DRANCA, Florina - OROIAN, Mircea. Extraction, purification and characterization of pectin from alternative sources with potential

- technological applications. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2018, vol. 113, no., pp. 327-350., Registrované v: WOS
4. [1.1] KHODAIYAN, Faramarz - PARASTOUEI, Karim. Co-optimization of pectin and polyphenols extraction from black mulberry pomace using an eco-friendly technique: Simultaneous recovery and characterization of products. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 1025-1036. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.107>., Registrované v: WOS
5. [1.1] LI, Hong - ZHAO, Zhenyu - XIOURAS, Christos - STEFANIDIS, Georgios D. - LI, Xingang - GAO, Xin. Fundamentals and applications of microwave heating to chemicals separation processes. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2019, vol. 114, no., pp., Registrované v: WOS
6. [1.1] MARIC, Mirela - GRASSINO, Antonela Nincevic - ZHU, Zhenzhou - BARBA, Francisco J. - BRNCIC, Mladen - BRNCIC, Suzana Rimac. An overview of the traditional and innovative approaches for pectin extraction from plant food wastes and by-products: Ultrasound-, microwaves-, and enzyme-assisted extraction. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2018, vol. 76, no., pp. 28-37., Registrované v: WOS
7. [1.1] SU, Dong-Lin - LI, Pei-Jun - QUEK, Siew Young - HUANG, Zhi-Qin - YUAN, Yu-Jun - LI, Gao-Yang - SHAN, Yang. Efficient extraction and characterization of pectin from orange peel by a combined surfactant and microwave assisted process. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2019, vol. 286, no., pp. 1-7., Registrované v: WOS
8. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
9. [1.1] TSIKA, Thalia - SINANOGLU, Vassilia J. - ZOUMPOULAKIS, Panagiotis. Extracting Bioactive Compounds From Natural Sources Using Green High-Energy Approaches: Trends and Opportunities in Lab- and Large-Scale Applications. In *INGREDIENTS EXTRACTION BY PHYSICOCHEMICAL METHODS IN FOOD*, 2017, vol. 4, no., pp. 307-365., Registrované v: WOS
10. [1.1] WONGKAEW, Malaiporn - SOMMANO, Sarana Rose - TANGPAO, Tibet - RACHTANAPUN, Pornchai - JANTANASAKULWONG, Kittisak. Mango Peel Pectin by Microwave-Assisted Extraction and Its Use as Fat Replacement in Dried Chinese Sausage. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040450>., Registrované v: WOS
11. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na: <https://doi.org/10.1080/10408398.2019.1672037>., Registrované v: WOS
12. [1.1] YOU, Qinghong - WAN, Miaomiao - FANG, Xiaoxu - YIN,

Xiulian - LUO, Chuping - ZHANG, Xuejuan. Optimization of intermittent microwave extraction method for the determination of pectin from pomelo peels. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2019, vol. 6, no. 6, pp., Registrované v: WOS

13. [1.1] ZAREI, M. - ZENOUEZ, Ahmadi A. - SAARI, N. - GHANBARI, R. - NIKKHAH, M. - VAZIRI, M. Effect of microwave-assisted extraction on the yield and quality of apple pomace and lemon peel pectins. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2017, vol. 24, no. 6, pp. 2402-2407., Registrované v: WOS

14. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

15. [1.2] DE HAAN, André B. - BIRAJDAR, Snehal D. CHAPTER 5: Liquid-Liquid Extraction in Processing of Bioproducts. In RSC Green Chemistry. ISSN 17577039, 2018-01-01, 2018-January, 55, pp. 109-131., Registrované v: SCOPUS

16. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcyon Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58

ADMA15 KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - LORENCOVÁ, Lenka - JERIGOVÁ, Monika - VELIČ, Dušan - BLIXT, Ola - JANSSON, Bo - KASÁK, Peter** - TKÁČ, Ján**. A graphene-based glycan biosensor for electrochemical label-free detection of a tumor-associated antibody. In *Sensors*, 2019, vol. 19, iss. 24, art. no. 5409. (2018: 3.031 - IF, Q1 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1424-8220.
Dostupné na: <https://doi.org/10.3390/s19245409>

Ohlasy:

1. [1.1] HERNAEZ, Miguel. Applications of Graphene-Based Materials in Sensors. In SENSORS, 2020, vol. 20, no. 11, pp. Dostupné na: <https://doi.org/10.3390/s20113196>., Registrované v: WOS

2. [1.1] WANG, Zizheng - LI, Jing - TU, Wenwen - WANG, Huaisheng - WANG, Zhaoyin - DAI, Zhihui. Formation of a Photoelectrochemical Z-Scheme Structure with Inorganic/Organic Hybrid Materials for Evaluation of Receptor Protein Expression on the Membrane of Cancer Cells. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 24, pp. 26905-26913. Dostupné na: <https://doi.org/10.1021/acsami.0c04949>., Registrované v: WOS

ADMA16 LÁSZLOVÁ, Katarína - DERCOVÁ, Katarína - HORVÁTHOVÁ, Helena - MURÍNOVÁ, Slavomíra - ŠKARBA, Juraj - DUDÁŠOVÁ, Hana. Assisted bioremediation approaches - Biostimulation and bioaugmentation - Used in the removal of organochlorinated pollutants from the contaminated bottom sediments. In *International Journal of Environmental Research*, 2016, vol. 10, p. 367-378. (2015: 0.992 - IF, Q4 - JCR, 0.411 - SJR, Q2 - SJR). ISSN 1735-6865.

Ohlasy:

1. [1.1] KRONENBERG, Maria - TRABLY, Eric - BERNET, Nicolas - PATUREAU, Dominique. Biodegradation of polycyclic aromatic hydrocarbons:

Using microbial bioelectrochemical systems to overcome an impasse. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 231, no., pp. 509-523., Registrované v: WOS

2. [1.1] TERZAGHI, Elisa - ZANARDINI, Elisabetta - MOROSINI, Cristiana - RASPA, Giuseppe - BORIN, Sara - MAPELLI, Francesca - VERGANI, Lorenzo - DI GUARDO, Antonio. Rhizoremediation half-lives of PCBs: Role of congener composition, organic carbon forms, bioavailability, microbial activity, plant species and soil conditions, on the prediction of fate and persistence in soil. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 612, no., pp. 544-560., Registrované v: WOS

ADMA17 MAJTÁN, Juraj - KLAUDINY, Jaroslav - BOHOVÁ, Jana - KOHÚTOVÁ, Lenka - DZÚROVÁ, Mária - ŠEDIVÁ, Mária - BARTOŠOVÁ, Mária - MAJTÁN, Viktor. Methylglyoxal-induced modifications of significant honeybee proteinous components in manuka honey: Possible therapeutic implications. In *Fitoterapia*, 2012, vol. 83, p. 671-677. (2011: 1.848 - IF, Q3 - JCR, 0.585 - SJR, Q2 - SJR). ISSN 0367-326X. Dostupné na: <https://doi.org/10.1016/j.fitote.2012.02.002>

Ohlasy:

1. [1.1] CARTER, Dee A. - BLAIR, Shona E. - COKCETIN, Nural N. - BOUZO, Daniel - BROOKS, Peter - SCHOTHAUER, Ralf - HARRY, Elizabeth J. Therapeutic Manuka Honey: No Longer So Alternative. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS

2. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS

3. [1.1] DINI, Valentina - ORANGES, Teresa - ROTELLA, Luca - ROMANELLI, Marco. Hidradenitis Suppurativa and Wound Management. In INTERNATIONAL JOURNAL OF LOWER EXTREMITY WOUNDS. ISSN 1534-7346, 2015, vol. 14, no. 3, pp. 236-244., Registrované v: WOS

4. [1.1] HORVATH, Gyorgyi - FARKAS, Agnes - PAPP, Nora - BENCSIK, Timea - ACS, Kamilla - GYERGYAK, Kinga - KOCSIS, Bela. Natural Substances from Higher Plants as Potential Anti-MRSA Agents. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 47: BIOACTIVE NATURAL PRODUCTS. ISSN 1572-5995, 2016, vol. 47, no., pp. 63-110., Registrované v: WOS

5. [1.1] HUSSAIN, Muhammad Barkaat - KAMEL, Yasser Mahmoud - ULLAH, Zia - JIMAN-FATANI, Asif Ahmad Mohamad - AHMAD, Ansar Shafiq. In vitro evaluation of methicillin-resistant and methicillin-sensitive Staphylococcus aureus susceptibility to Saudi honeys. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2019, vol. 19, no., pp., Registrované v: WOS

6. [1.1] KHAN, Shahid Ullah - ANJUM, Syed Ishtiaq - RAHMAN, Khaista - ANSARI, Mohammad Javed - KHAN, Wasim Ullah - KAMAL, Sajid - KHATTAK, Baharullah - MUHAMMAD, Ali - KHAN, Hikmat Ullah. Honey: Single food stuff comprises many drugs. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, 2018, vol. 25, no. 2, pp. 320-325., Registrované v: WOS

7. [1.1] LI, Dan - WANG, Meng - CHENG, Ni - XUE, Xiaofeng - WU,

- Liming - CAO, Wei. A modified FOX-1 method for Micro-determination of hydrogen peroxide in honey samples. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 237, no., pp. 225-231., Registrované v: WOS
8. [1.1] NERES SANTOS, Antonia Monica - DUARTE MOREIRA, Ana Paula - PILER CARVALHO, Carlos W. - LUCHESE, Rosa - RIBEIRO, Edlene - MCGUINNESS, Garrett B. - MENDES, Marisa Fernandes - OLIVEIRA, Renata Nunes. Physically Cross-Linked Gels of PVA with Natural Polymers as Matrices for Manuka Honey Release in Wound-Care Applications. In *MATERIALS*, 2019, vol. 12, no. 4, pp., Registrované v: WOS
9. [1.1] NOLAN, Victoria C. - HARRISON, James - COX, Jonathan A. G. Dissecting the Antimicrobial Composition of Honey. In *ANTIBIOTICS-BASEL*, 2019, vol. 8, no. 4, pp., Registrované v: WOS
10. [1.1] OLIVEIRA, Ana - RIBEIRO, Henrique G. - SILVA, Ana C. - SILVA, Maria D. - SOUSA, Jessica C. - RODRIGUES, Celia F. - MELO, Luis D. R. - HENRIQUES, Ana F. - SILLANKORVA, Sanna. Synergistic Antimicrobial Interaction between Honey and Phage against *Escherichia coli* Biofilms. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
11. [1.1] ORYAN, Ahmad - ALEMZADEH, Esmat - MOSHIRI, Ali. Biological properties and therapeutic activities of honey in wound healing: A narrative review and meta-analysis. In *JOURNAL OF TISSUE VIABILITY*. ISSN 0965-206X, 2016, vol. 25, no. 2, pp. 98-118., Registrované v: WOS
12. [1.1] PUNJATAEWAKUPT, Apirujee - NAPA VICHAYANUN, Supamas - ARAMWIT, Pornanong. The downside of antimicrobial agents for wound healing. In *EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES*. ISSN 0934-9723, 2019, vol. 38, no. 1, pp. 39-54., Registrované v: WOS
13. [1.1] REIGER, Matthias - LASSAK, Juergen - JUNG, Kirsten. Deciphering the role of the type II glyoxalase isoenzyme YcbL (GlxII-2) in *Escherichia coli*. In *FEMS MICROBIOLOGY LETTERS*. ISSN 0378-1097, 2015, vol. 362, no. 2, pp., Registrované v: WOS
14. [1.1] SAIKALY, Sami K. - KHACHEMOUNE, Amor. Honey and Wound Healing: An Update. In *AMERICAN JOURNAL OF CLINICAL DERMATOLOGY*. ISSN 1175-0561, 2017, vol. 18, no. 2, pp. 237-251., Registrované v: WOS
15. [1.1] SINDI, Azhar - CHAWN, Moses Van Bawi - HERNANDEZ, Magda Escorcía - GREEN, Kathryn - ISLAM, Md Khairul - LOCHER, Cornelia - HAMMER, Katherine. Anti-biofilm effects and characterisation of the hydrogen peroxide activity of a range of Western Australian honeys compared to Manuka and multifloral honeys. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2019, vol. 9, no., pp., Registrované v: WOS
16. [1.1] TAYLOR, Michelle A. - ROBERTSON, Alastair W. - BIGGS, Patrick J. - RICHARDS, Kate K. - JONES, Daniel F. - PARKAR, Shanthi G. The effect of carbohydrate sources: Sucrose, invert sugar and components of manuka honey, on core bacteria in the digestive tract of adult honey bees (*Apis mellifera*). In *PLOS ONE*. ISSN 1932-6203, 2019, vol. 14, no. 12, pp., Registrované v: WOS
17. [1.2] BUNDIT, T. - ANOTHAI, T. - PATTARAMART, P. - ROONGPET, T. - CHULEEPORN, S. Comparison of antioxidant contents of Thai Honeys to Manuka Honey. In *Malaysian Journal of Nutrition*. ISSN

- 1394035X, 2016-01-01, 22, 3, pp. 413-420., Registrované v: SCOPUS
18. [1.2] COOKE, Jonathan - DRYDEN, Matthew - PATTON, Thomas - BRENNAN, James - BARRETT, John. The antimicrobial activity of prototype modified honeys that generate reactive oxygen species (ROS) hydrogen peroxide. In *BMC Research Notes*, 2015-12-14, 8, 1, pp., Registrované v: SCOPUS
19. [1.2] HORVÁTH, Györgyi - FARKAS, Ágnes - PAPP, Nóra - BENCSIK, Tímea - ÁCS, Kamilla - GYERGYÁK, Kinga - KOCSIS, Béla. Natural Substances from Higher Plants as Potential Anti-MRSA Agents. In *Studies in Natural Products Chemistry*. ISSN 15725995, 2016-01-01, 47, pp. 63-110., Registrované v: SCOPUS
20. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In *Bioengineering*, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS
21. [1.2] SASIKALA, L. - RATHINAMOORTHY, R. - DHURAI, Bhaarithi. Optimization of process conditions for chitosan-manuka honey film as wound contact layer for wound dressings. In *Wound Medicine*. ISSN 22139095, 2018-12-01, 23, pp. 11-21., Registrované v: SCOPUS

ADMA18 MOJUMDAR, Subhash Chandra - RAY, A. - DRÁBIK, Milan - CIGÁŇ, Alexander - HANIC, František - CAPEK, Peter. Macro-Defect-Free (MDF) cements with high moisture resistance: Chemical, thermal, SEM and magnetometric study. In *Solid State Phenomena*, 2003, vol. 90-91, p. 365-370. (2003 - Current Contents). ISSN 1012-0394. Dostupné na: <https://doi.org/10.4028/www.scientific.net/ssp.90-91.365>

Ohlasy:

1. [1.1] TOMAR, Priyanka - LAKHANI, Rajni - CHHIBBER, V. K. - KUMAR, Rajesh. Macro-defect free cements: a future oriented polymer composite materials for construction industries. In *COMPOSITE INTERFACES*. ISSN 0927-6440, 2018, vol. 25, no. 5-7, pp. 607-627., Registrované v: WOS

ADMA19 NEMČOVIČOVÁ, Ivana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - PLŠKOVÁ, Mária - WILSON, Ian, B.H. - MUCHA, Ján. Expression, purification and preliminary crystallographic analysis of *Drosophila melanogaster* lysosomal alfa-mannosidase. In *Acta Crystallographica Section F : Structural Biology and Crystallization Communication*, 2012, vol. F68, p. 965-970. (2011: 0.506 - IF, Q4 - JCR). ISSN 1744-3091. Dostupné na: <https://doi.org/10.1107/S1744309112029375>

Ohlasy:

1. [1.1] ESPEJO-MOJICA, Angela J. - ALMECIGA-DIAZ, Carlos J. - RODRIGUEZ, Alexander - MOSQUERA, Angela - DIAZ, Dennis - BELTRAN, Laura - DIAZ, Sergio - PIMENTEL, Natalia - MORENO, Jefferson - SANCHEZ, Jhonnathan - SANCHEZ, Oscar F. - CORDOBA, Henry - POUTOU-PINALES, Raul A. - BARRERA, Luis A. Human recombinant lysosomal enzymes produced in microorganisms. In *MOLECULAR GENETICS AND METABOLISM*. ISSN 1096-7192, 2015, vol. 116, no. 1-2, pp. 13-23., Registrované v: WOS
2. [1.1] MOREIRA, Nathalia R. - CARDOSO, Christiane - RIBEIRO, Alberto F. - FERREIRA, Clelia - TERRA, Walter R. Insect midgut alfa-mannosidases from family 38 and 47 with emphasis on those of *Tenebrio molitor*. In *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0965-1748, 2015, vol. 67, no., pp. 94-104., Registrované v: WOS

ADMA20 NOSÁLOVÁ, Gabriela - JUREČEK, Ľudovít - HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - SADLOŇOVÁ, Vladimíra. Antioxidant activity of herbal polysaccharides and cough reflex. In *Advances in experimental medicine and biology*, 2013, vol. 788, p. 51-57. (2012: 1.825 - IF, Q2 - JCR, 0.792 - SJR, Q2 - SJR). ISSN 0065-2598. Dostupné na: <https://doi.org/10.1007/978-94-007-6627-3-8>

Ohlasy:

1. [1.1] AMERI, Ahmad - HEYDARIRAD, Ghazaleh - JAFARI, Jamileh Mahdavi - GHOBADI, Ali - REZAEIZADEH, Hossein - CHOOPANI, Rasool. Medicinal plants contain mucilage used in traditional Persian medicine (TPM). In *PHARMACEUTICAL BIOLOGY*. ISSN 1388-0209, 2015, vol. 53, no. 4, pp. 615-623., Registrované v: WOS
2. [1.1] KHAN, Mehwish - REHMAN, Hina - NAVEED, Safila - ZAIDI, Syed Faisal - AYAZ, Sultan - OWAIS, Aymen - USMANGHANI, Khan. Chewable cough tablets with improved palatability: A comparative phase II clinical trial. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2019, vol. 32, no. 1, pp. 339-343., Registrované v: WOS
3. [1.1] LACHOWICZ, Sabina - OSZMIANSKI, Jan - WOJDYLO, Aneta - CEBULAK, Tomasz - HIRNLE, Lidia - SIEWINSKI, Maciej. UPLC-PDA-Q/TOF-MS identification of bioactive compounds and on-line UPLC-ABTS assay in *Fallopia japonica* Houtt and *Fallopia sachalinensis* (F.Schmidt) leaves and rhizomes grown in Poland. In *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. ISSN 1438-2377, 2019, vol. 245, no. 3, pp. 691-706., Registrované v: WOS
4. [1.1] ZHANG, Tao - LIU, Hongping - BAI, Xinyu - LIU, Ping - YANG, Yan - HUANG, Jian - ZHOU, Limei - MIN, Xun. Fractionation and antioxidant activities of the water-soluble polysaccharides from *Lonicera japonica* Thunb. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 151, no., pp. 1058-1066. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.147>., Registrované v: WOS

ADMA21 PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - HRUBIŠKO, Martin - KRYLOV, Vadim B. - ARGUNOV, Dmitry A. - NIFANTIEV, Nikolay E. Immunobiological activity of synthetically prepared immunodominant galactomannosides structurally mimicking *Aspergillus galactomannan*. In *Frontiers in Immunology*, 2017, vol. 8, art. no. 1273. (2016: 6.429 - IF, Q1 - JCR, 3.034 - SJR, Q1 - SJR). ISSN 1664-3224. Dostupné na: <https://doi.org/10.3389/fimmu.2017.01273>

Ohlasy:

1. [1.1] BALA, Esha - SINGHA, Siddhartha - PATRA, Sanjukta. Polysaccharides from leafy vegetables: chemical, nutritional and medicinal properties. In *NATURAL POLYSACCHARIDES IN DRUG DELIVERY AND BIOMEDICAL APPLICATIONS*, 2019, vol., no., pp. 567-588., Registrované v: WOS
2. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS

ADMA22 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolaj E. - BYSTRICKÝ, Slavomír.

Immune cell response to Candida cell wall mannan derived branched α -oligomannoside conjugates in mice. In *Journal of Microbiology, Immunology and Infection*, 2015, vol. 48, p. 9-19. (2014: 2.349 - IF, Q3 - JCR, 0.919 - SJR, Q1 - SJR). ISSN 1684-1182. Dostupné na: <https://doi.org/10.1016/j.jmii.2013.08.020>

Ohlasy:

1. [1.1] GARCIA-RUBIO, Rocio - DE OLIVEIRA, Haroldo C. - RIVERA, Johanna - TREVIJANO-CONTADOR, Nuria. The Fungal Cell Wall: Candida, Cryptococcus, and Aspergillus Species. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2019.02993>., Registrované v: WOS
2. [1.1] REEDY, Jennifer L. - NEGORO, Paige E. - FELIU, Marianela - LORD, Allison K. - KHAN, Nida S. - LUKASON, Dan P. - WIEDERHOLD, Nathan P. - TAM, Jenny M. - MANSOUR, Michael K. - PATTERSON, Thomas F. - VYAS, Jatin M. The Carbohydrate Lectin Receptor Dectin-1 Mediates the Immune Response to Exserohilum rostratum. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2017, vol. 85, no. 3, pp., Registrované v: WOS
3. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesa S. Preclinical Assessment of Glycoconjugate Vaccines. In CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS
4. [1.1] STOJANOVIC, Predrag - STOJANOVIC, Nikola - STOJANOVIC-RADIC, Zorica - ARSENIJEVIC, Valentina Arsic - OTASEVIC, Suzana - RANDJELOVIC, Pavle - RADULOVIC, Niko S. Surveillance and characterization of Candida bloodstream infections in a Serbian tertiary care hospital. In JOURNAL OF INFECTION IN DEVELOPING COUNTRIES. ISSN 1972-2680, 2016, vol. 10, no. 6, pp. 643-656., Registrované v: WOS
5. [1.1] TSO, Gloria Hoi Wan - REALES-CALDERON, Jose Antonio - PAVELKA, Norman. The Elusive Anti-Candida Vaccine: Lessons From the Past and Opportunities for the Future. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS

ADMA23 PEREZ, Serge - TVAROŠKA, Igor. Carbohydrate–protein interactions: molecular modeling insights. In *Advances in Carbohydrate Chemistry and Biochemistry*, 2014, vol. 71, p. 9-136. (2013: 3.917 - IF, Q1 - JCR, 1.875 - SJR, Q1 - SJR). ISSN 0065-2318. Dostupné na:

<https://doi.org/10.1016/B978-0-12-800128-8.00001-7>

Ohlasy:

1. [1.1] CALLE, Luis P. - ECHEVERRIA, Begona - FRANCONETTI, Antonio - SERNA, Sonia - FERNANDEZ-ALONSO, M. Carmen - DIERCKS, Tammo - CANADA, F. Javier - ARDA, Ana - REICHARDT, Niels-Christian - JIMENEZ-BARBERO, Jesus. Monitoring Glycan-Protein Interactions by NMR Spectroscopic Analysis: A Simple Chemical Tag That Mimics Natural CH-Interactions. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2015, vol. 21, no. 32, pp. 11408-11416., Registrované v: WOS
2. [1.1] GESTEIRA, Tarsis F. - COULSON-THOMAS, Vivien J. Structural basis of oligosaccharide processing by glycosaminoglycan sulfotransferases. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 11,

pp. 885-897., Registrované v: WOS

3. [1.1] GU, Ruo-Xu - INGOLFSSON, Helgi I. - DE VRIES, Alex H. - MARRINK, Siewert J. - TIELEMAN, D. Peter. Ganglioside-Lipid and Ganglioside-Protein Interactions Revealed by Coarse-Grained and Atomistic Molecular Dynamics Simulations. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 15, pp. 3262-3275., Registrované v: WOS

4. [1.1] HUDSON, Kieran L. Carbohydrate-Based Interactions at the Molecular and the Cellular Level Introduction. In CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL. ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS

5. [1.1] LABONTE, Jason W. - ADOLF-BRYFOGLE, Jared - SCHIEF, William R. - GRAY, Jeffrey J. Residue-Centric Modeling and Design of Saccharide and Glycoconjugate Structures. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 5, pp. 276-287., Registrované v: WOS

6. [1.1] LINDEMANN, Stephen R. A piece of the pie: engineering microbiomes by exploiting division of labor in complex polysaccharide consumption. In CURRENT OPINION IN CHEMICAL ENGINEERING. ISSN 2211-3398, 2020, vol. 30, no., pp. 96-102. Dostupné na: <https://doi.org/10.1016/j.coche.2020.08.004>., Registrované v: WOS

7. [1.1] MISHRA, Sushil K. - KOCA, Jaroslav. Assessing the Performance of MM/PBSA, MM/GBSA, and QM-MM/GBSA Approaches on Protein/Carbohydrate Complexes: Effect of Implicit Solvent Models, QM Methods, and Entropic Contributions. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 34, pp. 8113-8121., Registrované v: WOS

8. [1.1] SHANMUGAM, N. R. Siva - SELVIN, J. Fermin Angelo - VELURAJA, K. - GROMIHA, M. Michael. Identification and Analysis of Key Residues Involved in Folding and Binding of Protein-carbohydrate Complexes. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2018, vol. 25, no. 4, pp. 379-389., Registrované v: WOS

9. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>., Registrované v: WOS

10. [1.1] SPIWOK, Vojtech. CH/pi Interactions in Carbohydrate Recognition. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS

11. [1.1] TRIPATHI, Rama P. - UPADHYAYA, Kapil - SINGH, Kartikey - TIWARI, Vinod K. Recent Developments on Carbohydrate-based Anti-infective Agents. In TRENDS IN CARBOHYDRATE RESEARCH. ISSN 0975-0304, 2015, vol. 7, no. 4, pp. 1-21., Registrované v: WOS

12. [1.1] VILARO, Pilar - SAMPL, Carina - TEICHERT, Gundula - SCHLEMMER, Werner - HOBISCH, Mathias - WEISSEL, Michael - PANIZZOLO, Luis - FERREIRA, Fernando - SPIRK, Stefan. Interactions and Dissociation Constants of Galactomannan Rendered Cellulose Films with Concavalin A by SPR Spectroscopy. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123040>., Registrované v: WOS

13. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS
14. [1.1] YANG, Yian - QIAN, Jiaqiang - MING, Dengming. Docking polysaccharide to proteins that have a Tryptophan box in the binding pocket. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2015, vol. 414, no., pp. 78-84., Registrované v: WOS
15. [1.2] DINGJIAN, Tamir - YURIEV, Elizabeth - RAMSLAND, Paul A. Computational approaches for studying carbohydrate-lectin interactions in infection. In Glycobiology and Human Diseases, 2016-02-22, pp. 129-147., Registrované v: SCOPUS
16. [1.2] MALIK, Adeel - BAIG, Mohammad H. - MANAVALAN, Balachandran. Protein-carbohydrate interactions. In Encyclopedia of Bioinformatics and Computational Biology: ABC of Bioinformatics, 2018-01-01, 1-3, pp. 666-677., Registrované v: SCOPUS

ADMA24 PETRIK, Siniša - MÁROVÁ, Ivana - HARONÍKOVÁ, Andrea - KOSTOVOVÁ, Iveta - BREIEROVÁ, Emília. Production of biomass, carotenoid and other lipid metabolites by several red yeast strains cultivated on waste glycerol from biofuel production - comparative screening study. In *Annals of Microbiology*, 2013, vol. 63, p. 1537-1551. (2012: 1.549 - IF, Q3 - JCR, 0.436 - SJR). ISSN 1590-4261. Dostupné na: <https://doi.org/10.1007/s13213-013-0617-x>

Ohlasy:

1. [1.1] BAO, Ruiqi - GAO, Ning - LV, Jing - JI, Chaofan - LIANG, Huipeng - LI, Shengjie - YU, Chenxu - WANG, Zhenyu - LIN, Xinpeng. Enhancement of Torularhodin Production in Rhodosporidium toruloides by Agrobacterium tumefaciens-Mediated Transformation and Culture Condition Optimization. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2019, vol. 67, no. 4, pp. 1156-1164., Registrované v: WOS
2. [1.1] BOGACZ-RADOMSKA, Ludmila - HARASYM, Joanna. beta-Carotene-properties and production methods. In FOOD QUALITY AND SAFETY. ISSN 2399-1399, 2018, vol. 2, no. 2, pp. 69-74., Registrované v: WOS
3. [1.1] DE SOUSA, Kally Alves - DA FAHEINA JUNIOR, Genilton Silva - SILVA DE AZEVEDO, Diana Cristina - SAAVEDRA PINTO, Gustavo Adolfo. Optimization of Cellulase Production by Trichoderma Strains Using Crude Glycerol as a Primary Carbon Source with a 2(4) Full Factorial Design. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 3, pp. 357-367., Registrované v: WOS
4. [1.1] FERNANDES, Bruna Soares - FERNANDES VIEIRA, Joao Paulo - CONTESINI, Fabiano Jares - MANTELATTO, Paulo Eduardo - ZAIAT, Marcelo - DA CRUZ PRADELLA, Jose Geraldo. High value added lipids produced by microorganisms: a potential use of sugarcane vinasse. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2017, vol. 37, no. 8, pp. 1048-1061., Registrované v: WOS
5. [1.1] GIENKA, Iwona - GADASZEWSKA, Marta - BLAZEJAK, Stanislaw - KIELISZEK, Marek - BZDUCHA-WROBEL, Anna - STASIAK-ROZANSKA, Lidia - KOT, Anna Maria. Evaluation of lipid biosynthesis ability by Rhodotorula and Sporobolomyces strains in medium with glycerol. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2017, vol. 243, no. 2, pp. 275-286., Registrované v: WOS

6. [1.1] KOT, Anna M. - BLAZEJAK, Stanislaw - KURCZ, Agnieszka - BRYŚ, Joanna - GIENKA, Iwona - BZDUCHA-WROBEL, Anna - MALISZEWSKA, Magdalena - RECZEK, Lidia. Effect of initial pH of medium with potato wastewater and glycerol on protein, lipid and carotenoid biosynthesis by *Rhodotorula glutinis*. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2017, vol. 27, no., pp. 25-31., Registrované v: WOS
7. [1.1] KOT, Anna M. - BLAZEJAK, Stanislaw - KIELISZEK, Marek - GIENKA, Iwona - PIWOWAREK, Kamil - BRZEZINSKA, Rita. Production of lipids and carotenoids by *Rhodotorula gracilis* ATCC 10788 yeast in a bioreactor using low-cost wastes. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 26, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101634>., Registrované v: WOS
8. [1.1] MANNAZZU, Ilaria - LANDOLFO, Sara - DA SILVA, Teresa Lopes - BUZZINI, Pietro. Red yeasts and carotenoid production: outlining a future for non-conventional yeasts of biotechnological interest. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2015, vol. 31, no. 11, pp. 1665-1673., Registrované v: WOS
9. [1.1] NEAGU, Simona - COJOC, Roxana - ENACHE, Mirela - MOCIOIU, Oana Catalina - PRECUPAS, Aurica - POPA, Vlad Tudor - GOMOIU, Ioana - ENACHE, Madalin. Biotransformation of Waste Glycerol from Biodiesel Industry in Carotenoids Compounds by Halophilic Microorganisms. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2019, vol. 10, no. 1, pp. 45-52., Registrované v: WOS
10. [1.1] PASSARINHO, Paula C. - OLIVEIRA, Bruno - DIAS, Carla - TELES, Marta - REIS, Alberto - DA SILVA, Teresa Lopes. Sequential Carotenoids Extraction and Biodiesel Production from *Rhodospiridium toruloides* NCYC 921 Biomass. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2075-2086. Dostupné na: <https://doi.org/10.1007/s12649-018-0489-1>., Registrované v: WOS
11. [1.1] RUSINOVA-VIDEVA, Snezhana - KAMBOUROVA, Margarita - ALIPIEVA, Kalina - NACHKOVA, Stefka - SIMOVA, Svetlana. Metabolic profiling of Antarctic yeasts by proton nuclear magnetic resonance-based spectroscopy. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2019, vol. 33, no. 1, pp. 12-19., Registrované v: WOS
12. [1.1] SILVA, Carolina Moroni - DE BORBA, Thais de Matos - KALIL, Susana Juliano - DE MEDEIROS BURKERT, Janaina Fernandes. Raw Glycerol and Parboiled Rice Effluent for Carotenoid Production: Effect of the Composition of Culture Medium and Initial pH. In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2016, vol. 54, no. 4, pp. 489-496., Registrované v: WOS
13. [1.1] SINGH, Gunjan - SINHA, Sweta - BANDYOPADHYAY, K. K. - LAWRENCE, Mark - PAUL, Debarati. Triaxial growth of an oleaginous red yeast *Rhodospiridium toruloides* on waste 'extract' for enhanced and concomitant lipid and carotene production. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
14. [1.1] TANG, Wei - WANG, Yue - ZHANG, Jun - CAI, Yali - HE, Zengguo. Biosynthetic Pathway of Carotenoids in *Rhodotorula* and Strategies for Enhanced Their Production. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2019, vol. 29, no. 4, pp. 507-517.,

Registrované v: WOS

15. [1.1] TCHAKOUTEU, S. S. - KALANTZI, O. - GARDELI, Chr. - KOUTINAS, A. A. - AGGELIS, G. - PAPANIKOLAOU, S. Lipid production by yeasts growing on biodiesel-derived crude glycerol: strain selection and impact of substrate concentration on the fermentation efficiency. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2015, vol. 118, no. 4, pp. 911-927., Registrované v: WOS

ADMA25 ŠUNDERIĆ, Miloš** - KRIŽÁKOVÁ, Martina, Zámorová - MALENKOVIĆ, Vesna - ČUJIĆ, Danica - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes due to ageing in the glycan structure of alpha-2-macroglobulin and its reactivity with ligands. In *Protein Journal*, 2019, vol. 38, p. 23-29. (2018: 1.029 - IF, Q4 - JCR, 0.363 - SJR, Q3 - SJR). ISSN 1572-3887. Dostupné na: <https://doi.org/10.1007/s10930-018-9806-6>

Ohlasy:

1. [1.1] BENEDETTI, Elisa - GERSTNER, Nathalie - PUCIC-BAKOVIC, Maja - KESER, Toma - REIDING, Karli R. - RUHAAK, L. Renee - STAMBUK, Tamara - SELMAN, Maurice H. J. - RUDAN, Igor - POLASEK, Ozren - HAYWARD, Caroline - BEEKMAN, Marian - SLAGBOOM, Eline - WUHRER, Manfred - DUNLOP, Malcolm G. - LAUC, Gordan - KRUMSIEK, Jan. Systematic Evaluation of Normalization Methods for Glycomics Data Based on Performance of Network Inference. In METABOLITES, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/metabo10070271>., Registrované v: WOS

2. [1.1] LIU, Chang - LI, Zhi - XU, Lu - SHI, Yu - ZHANG, Xiaojie - SHI, Sha - HOU, Kezuo - FAN, Yibo - LI, Ce - WANG, Xiaoxun - ZHOU, Lu - LIU, Yunpeng - QU, Xiujuan - CHE, Xiaofang. GALNT6 promotes breast cancer metastasis by increasing mucin-type O-glycosylation of alpha 2M. In AGING-US. ISSN 1945-4589, 2020, vol. 12, no. 12, pp. 11794-11811., Registrované v: WOS

ADMA26 TALAFOVÁ, Klaudia - HRABÁROVÁ, Eva - CHORVÁT, Dušan - NAHÁLKA, Jozef. Bacterial inclusion bodies as potential synthetic devices for pathogen recognition and a therapeutic substance release. In *Microbial Cell Factories*, 2013, vol. 12, article No. 16, 9 pages. (2012: 3.306 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/1475-2859-12-16>

Ohlasy:

1. [1.1] CESPEDES, Maria Virtudes - CANO-GARRIDO, Olivia - ALAMO, Patricia - SALA, Rita - GALLARDO, Alberto - SERNA, Naroa - FALGAS, Aida - VOLTA-DURAN, Eric - CASANOVA, Isolda - SANCHEZ-CHARDI, Alejandro - LOPEZ-LAGUNA, Hector - SANCHEZ-GARCIA, Laura - SANCHEZ, Julieta M. - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Engineering Secretory Amyloids for Remote and Highly Selective Destruction of Metastatic Foci. In ADVANCED MATERIALS. ISSN 0935-9648, 2020, vol. 32, no. 7, pp. Dostupné na: <https://doi.org/10.1002/adma.201907348>., Registrované v: WOS

2. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS,

- Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVERDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In FEMS MICROBIOLOGY REVIEWS. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS
3. [1.1] FARAJI, Habibollah - NEDAEINIA, Reza - NOURMOHAMMADI, Esmaeil - MALAEKEH-NIKOUEI, Bizan - SADEGHNIA, Hamid Reza - ZIAPOUR, Seyyed Payman - SARKARIZI, Hoda Khoshdel - OSKUEE, Reza Kazemi. A Review on Application of Novel Solid Nanostructures in Drug Delivery. In JOURNAL OF NANO RESEARCH. ISSN 1662-5250, 2018, vol. 53, no., pp. 22-36., Registrované v: WOS
4. [1.1] FERRER-MIRALLES, Neus - RODRIGUEZ-CARMONA, Escarlata - LUIS CORCHERO, Jose - GARCIA-FRUITOS, Elena - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering protein self-assembling in protein-based nanomedicines for drug delivery and gene therapy. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2015, vol. 35, no. 2, pp. 209-221., Registrované v: WOS
5. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizes for application in biotechnology and biomedicine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
6. [1.1] PESARRODONA, Mireia - JAUSET, Toni - DIAZ-RIASCOS, Zamira - SANCHEZ-CHARDI, Alejandro - BEAULIEU, Marie-Eve - SERAS-FRANZOSO, Joaquin - SANCHEZ-GARCIA, Laura - BALTA-FOIX, Ricardo - MANCILLA, Sandra - FERNANDEZ, Yolanda - RINAS, Ursula - SCHWARTZ, Simo - SOUCEK, Laura - VILLAVERDE, Antonio - ABASOLO, Ibane - VAZQUEZ, Esther. Targeting Antitumoral Proteins to Breast Cancer by Local Administration of Functional Inclusion Bodies. In ADVANCED SCIENCE, 2019, vol. 6, no. 18, pp., Registrované v: WOS
7. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVERDE, Antonio. Bacterial Inclusion Bodies: Discovering Their Better Half. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS
8. [1.1] SANGAVAI, C. - PRATHIVIRAJ, R. - CHELLAPANDI, P. Functional prediction, characterization, and categorization of operome from *Acetanaerobium sticklandii* DSM 519. In ANAEROBE. ISSN 1075-9964, 2020, vol. 61, no., pp. Dostupné na: <https://doi.org/10.1016/j.anaerobe.2019.102088>., Registrované v: WOS
9. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* BL21(DE3) and characterization by FT-IR Spectroscopy. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>., Registrované v: WOS
10. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio.

Engineering tumor cell targeting in nanoscale amyloid materials. In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS

11. [1.1] VILLAVERDE, Antonio - CORCHERO, Jose Luis - SERAS-FRANZOSO, Joaquin - GARCIA-FRUITOS, Elena. Functional protein aggregates: just the tip of the iceberg. In NANOMEDICINE. ISSN 1743-5889, 2015, vol. 10, no. 18, pp. 2881-2891., Registrované v: WOS

12. [1.2] FERRER-MIRALLES, N. - SACCARDO, P. - GARCIA-FRUITÓS, E. Protein purification from protein aggregates. In Handbook on Protein Purification: Industry Challenges and Technological Developments, 2018-11-15, pp. 79-104., Registrované v: SCOPUS

ADMA27 TKÁČ, Ján** - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Glycomics of prostate cancer: updates. In *Expert Review of Proteomic*, 2019, vol. 16, p. 65-76. (2018: 2.963 - IF, Q2 - JCR, 0.946 - SJR, Q2 - SJR). ISSN 1478-9450. Dostupné na: <https://doi.org/10.1080/14789450.2019.1549993>

Ohlasy:

1. [1.1] NOVOTNY, Jakub - OSTATNA, Veronika - FORET, Frantisek. Electrochemical Analysis of Glycoprotein Samples Prepared on a Pneumatically-controlled Microfluidic Device. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 10, pp. 1994-2000., Registrované v: WOS

2. [1.1] PANG, Bairen - ZHU, Ying - NI, Jie - THOMPSON, James - MALOUF, David - BUCCI, Joseph - GRAHAM, Peter - LI, Yong. Extracellular vesicles: the next generation of biomarkers for liquid biopsy-based prostate cancer diagnosis. In THERANOSTICS. ISSN 1838-7640, 2020, vol. 10, no. 5, pp. 2309-2326. Dostupné na: <https://doi.org/10.7150/thno.39486>., Registrované v: WOS

3. [1.1] SCOTT, Emma - MUNKLEY, Jennifer. Glycans as Biomarkers in Prostate Cancer. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2019, vol. 20, no. 6, pp., Registrované v: WOS

4. [1.1] WANG, Bowen - TAN, Zengqi - GUAN, Feng. Tumor-Derived Exosomes Mediate the Instability of Cadherins and Promote Tumor Progression. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2019, vol. 20, no. 15, pp., Registrované v: WOS

ADMA28 TKÁČ, Ján** - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In *Interface Focus*, 2019, vol. 9, art. no. 20180077. (2018: 3.092 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR). ISSN 2042-8898. Dostupné na: <https://doi.org/10.1098/rsfs.2018.0077>

Ohlasy:

1. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DIAZ, Natalia - SUAREZ, Dimas - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, M. Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 35, pp. 9402-9413. Dostupné na: <https://doi.org/10.1039/d0sc00209g>., Registrované v: WOS

2. [1.1] FERNANDES, Elisabete - SORES, Janine - COTTON, Sofia - PEIXOTO, Andreia - FERREIRA, Dylan - FREITAS, Rui - REIS, Celso A. - SANTOS, Lucio Lara - FERREIRA, Jose Alexandre. Esophageal, gastric and colorectal cancers: Looking beyond classical serological biomarkers towards glycoproteomics-assisted precision oncology. In THERANOSTICS. ISSN 1838-7640, 2020, vol. 10, no. 11, pp. 4903-4928. Dostupné na: <https://doi.org/10.7150/thno.42480>., Registrované v: WOS
3. [1.1] FU, Xiuli - WEN, Jiahui - LI, Jingwen - LIN, Hao - LIU, Yongming - ZHUANG, Xuming - TIAN, Chunyuan - CHEN, Lingxin. Highly sensitive detection of prostate cancer specific PCA3 mimic DNA using SERS-based competitive lateral flow assay. In NANOSCALE. ISSN 2040-3364, 2019, vol. 11, no. 33, pp. 15530-15536., Registrované v: WOS
4. [1.1] GAROUB, Mohannad - HEFNY, A. H. - OMER, W. E. - ELSAADY, Mostafa M. - ABO-ALY, Mohamed M. - SAYQAL, Ali A. - ALHARBI, Ahmed - HAMEED, Ahmed - ALESSA, Hussain - YOUSSEF, A. O. - MOHAMED, Ekram H. - GOUDA, Ayman A. - EL SHEIKH, R. - ABOU-OMAR, M. N. - EL-KEMARY, Maged A. - ATTIA, M. S. Highly Selective Optical Sensor Eu (TTA)(3) Phen Embedded in Poly Methylmethacrylate for Assessment of Total Prostate Specific Antigen Tumor Marker in Male Serum Suffering Prostate Diseases. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.561052>., Registrované v: WOS
5. [1.1] MORADI, Afshin - SRINIVASAN, Srilakshmi - CLEMENTS, Judith - BATRA, Jyotsna. Beyond the biomarker role: prostate-specific antigen (PSA) in the prostate cancer microenvironment. In CANCER AND METASTASIS REVIEWS. ISSN 0167-7659, 2019, vol. 38, no. 3, pp. 333-346., Registrované v: WOS
6. [1.1] NOVOTNY, Jakub - OSTATNA, Veronika - FORET, Frantisek. Electrochemical Analysis of Glycoprotein Samples Prepared on a Pneumatically-controlled Microfluidic Device. In ELECTROANALYSIS. ISSN 1040-0397, 2019, vol. 31, no. 10, pp. 1994-2000., Registrované v: WOS
7. [1.1] ORTIZ-RIANO, Edwin J. - AVILA-HUERTA, Mariana D. - MANCERA-ZAPATA, Diana L. - MORALES-NARVAEZ, Eden. Microwell plates coated with graphene oxide enable advantageous real-time immunosensing platform. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112319>., Registrované v: WOS
8. [1.1] TURNBULL, W. Bruce - IMBERTY, Anne - BLIXT, Ola. Synthetic glycobiology. In INTERFACE FOCUS. ISSN 2042-8898, 2019, vol. 9, no. 2, pp., Registrované v: WOS

ADMA29 TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Stepwise catalytic mechanism via short-lived intermediate inferred from combined QM/MM MERP and PES calculations on retaining glycosyltransferase ppGalNAcT2. In *PLoS computational biology*, 2015, vol. 11, p. e1004061. (2014: 4.620 - IF, Q1 - JCR, 3.412 - SJR, Q1 - SJR). ISSN 1553-734X. Dostupné na: <https://doi.org/10.1371/journal.pcbi.1004061>

Ohlasy:

1. [1.1] ARDEVOL, Albert - IGLESIAS-FERNANDEZ, Javier - ROJAS-CERVELLERA, Victor - ROVIRA, Carme. The reaction mechanism of

retaining glycosyltransferases. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 51-60., Registrované v: WOS

2. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS

3. [1.1] DE LAS RIVAS, Matilde - LIRA-NAVARRETE, Erandi - GERKEN, Thomas A. - HURTADO-GUERRERO, Ramon. Polypeptide GalNAc-Ts: from redundancy to specificity. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, 2019, vol. 56, no., pp. 87-96., Registrované v: WOS

4. [1.1] HURTADO-GUERRERO, Ramon. Recent structural and mechanistic insights into protein O-GalNAc glycosylation. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2016, vol. 44, no., pp. 61-67., Registrované v: WOS

5. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

6. [1.1] YAN, Lijuan - LIU, Yongjun. The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYL1): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>., Registrované v: WOS

7. [1.2] GÓMEZ, Hansel - MENDOZA, Fernanda - LLUCH, José M. - MASGRAU, Laura. QM/MM studies reveal how substrate-substrate and enzyme-substrate interactions modulate retaining glycosyltransferases catalysis and mechanism. In Advances in Protein Chemistry and Structural Biology. ISSN 18761623, 2015-01-01, 100, pp. 225-254., Registrované v: SCOPUS

ADMA30 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTĚS, Ladislav. Study of pro- and anti-oxidative properties of D-penicillamine in a system comprising high-molar-mass hyaluronan, ascorbate, and cupric ions. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 697-701. (2007: 1.443 - IF, Q3 - JCR, 0.442 - SJR, Q2 - SJR). ISSN 0172-780X.

Ohlasy:

1. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS

2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and

Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

3. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.

4. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

5. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADMA31 VAN GOOL, Alain - CORRALES, Fernado - ČOLOVIĆ, Mirjana - KRISTIĆ, Danijela - OLIVER-MARTOS, Begona - MARTÍNEZ-CÁCERES, Eva - JAKASA, Ivone - GAJSKI, Goran - BRUN, Virginie - KYRIACOU, Kyriacos - BURZYNSKA-PEDZIWIATR, Izabela - WOZNIAK, Lucyna Alicja - NIERKENS, Stephan - GARCÍA, César Pascual - KATRLÍK, Jaroslav - BOJIC-TRBOJEVIC, Zanka - VACEK, Jan - LLORENTE, Alicia - ANTHONE, Felicia - SUICA, Viorel - SUAREZ, Guillaume - T'KINDT, Ruben - MARTIN, Petra - PENQUE, Deborah - MARTINS, Ines Lanca - BODOKI, Ede - JACOB, Bogdan-Cezar - AYDINDOGAN, Eda - TIMUR, Suna - ALLINSON, John - SUTTON, Christopher - LUIDER, Theo - WITTFORTH, Saara - SAMMAR, Marei**. Analytical techniques for multiplex analysis of protein biomarkers. In *Expert Review of Proteomic*, 2020, vol. 17, p. 257-273. (2019: 3.614 - IF, Q1 - JCR, 0.979 - SJR, Q2 - SJR). ISSN 1478-9450. Dostupné na: <https://doi.org/10.1080/14789450.2020.1763174>

Ohlasy:

1. [1.1] BOELEN, Jaap Jan - HOSSZU, Kinga K. - NIERKENS, Stefan. Immune Monitoring After Allogeneic Hematopoietic Cell Transplantation: Toward Practical Guidelines and Standardization. In FRONTIERS IN PEDIATRICS. ISSN 2296-2360, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fped.2020.00454>., Registrované v: WOS

2. [1.1] BRINGANS, Scott - PETERS, Kirsten - CASEY, Tammy - ITO, Jason - LIPSCOMBE, Richard. The New and the Old: Platform Cross-Validation of Immunoaffinity MASS Spectrometry versus ELISA for PromarkerD, a Predictive Test for Diabetic Kidney Disease. In PROTEOMES, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.3390/proteomes8040031>., Registrované v: WOS

ADMB Scientific papers in foreign non-impacted journals registered in Web of Sciences or Scopus

ADMB01 BIELY, Peter - KREMnický, Ľubomir - ALFÖLDY, Juraj - TENKANEN, Maija. Stereochemistry of the hydrolysis of glycosidic linkage by endo- β -1,4-xylanases of *Trichoderma reesei*. In *FEBS Letters*, 1994, vol. 356, no. 1, p. 137-140. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(94\)01248-2](https://doi.org/10.1016/0014-5793(94)01248-2)

Ohlasy:

1. [1.1] KUMAR, Arvind - NARAIAN, Ram. Differential Expression of the Microbial beta-1,4-Xylanase, and beta-1,4-Endoglucanase Genes. In *NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: MICROBIAL GENES BIOCHEMISTRY AND APPLICATIONS*, 2019, vol., no., pp. 95-111., Registrované v: WOS
2. [1.1] KUMAR, Arvind. Myco-Degradation of Lignocellulose: An Update on the Reaction Mechanism and Production of Lignocellulolytic Enzymes by Fungi. In *MYCODEGRADATION OF LIGNOCELLULOSES*. ISSN 2198-7777, 2019, vol., no., pp. 81-117., Registrované v: WOS
3. [1.1] SUN, Junyong - LU, Jian - XIE, Guangfa. Secretome analysis of *Trichoderma reesei* CICC41495 for degradation of arabinoxylan in malted barley. In *JOURNAL OF THE INSTITUTE OF BREWING*. ISSN 0046-9750, 2018, vol. 124, no. 4, pp. 352-358., Registrované v: WOS

ADMB02 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - TKÁČ, Ján**. Glycan-modified interfaces in biosensing: an electrochemical approach. In *Current Opinion in Electrochemistry*, 2019, vol. 14, p. 60-65. (2018: 1.354 - SJR, Q1 - SJR, Current Contents - CCC). (2019 - Current Contents). ISSN 2451-9103. Dostupné na: <https://doi.org/10.1016/j.coelec.2018.12.011>

Ohlasy:

1. [1.1] FERAPONTOVA, Elena E. - FOJTA, Miroslav. Editorial Overview: Bioelectrochemistry Electrochemistry of biopolymers and electrochemical biosensors Dedicated to the Memory of Professor Emil Paleček (*Oct 03, 1930 dagger Oct 30, 2018). In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2019, vol. 14, no., pp. A1-A3., Registrované v: WOS
2. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In *MICROMACHINES*, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS
3. [1.1] WANG, Zizheng - LI, Jing - TU, Wenwen - WANG, Huaisheng - WANG, Zhaoyin - DAI, Zhihui. Formation of a Photoelectrochemical Z-Scheme Structure with Inorganic/Organic Hybrid Materials for Evaluation of Receptor Protein Expression on the Membrane of Cancer Cells. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2020, vol. 12, no. 24, pp. 26905-26913. Dostupné na: <https://doi.org/10.1021/acsami.0c04949>., Registrované v: WOS
4. [1.1] ZHAO, Yinghao - BU, Shengjun - WANG, Chengyu - MA, Chengyou - LI, Zhongyi - ZHANG, Wenhui - WAN, Jiayu. Dual Aptamer-Copper (II) Phosphate Nanocomposite-Based Point-of-Care Biosensor for the Determination of *Escherichia coli* O157:H7 through Pressure Monitoring with a Hand-Held Barometer. In *ANALYTICAL LETTERS*. ISSN 0003-2719,

2020, vol. 54, no. 10, pp. 1603-1615. Dostupné na:
<https://doi.org/10.1080/00032719.2020.1817059>., Registrované v: WOS

ADMB03 DAMBORSKÝ, Pavel - DAMBORSKÁ, Dominika - BELICKÝ, Štefan - TKÁČ, Ján - KATRLÍK, Jaroslav**. Sweet strategies in prostate cancer biomarker research: Focus on a prostate specific antigen. In *BioNanoScience*, 2018, vol. 8, p. 690-700. (2017: 0.308 - SJR, Q3 - SJR). ISSN 2191-1630. Dostupné na:
<https://doi.org/10.1007/s12668-017-0397-z>

Ohlasy:

1. [1.1] TREFULKA, Mojmir - CERNOCKA, Hana - FOJT, Lukas - PALECEK, Emil - OSTATNA, Veronika. Distinguishing the glycan isomers 2,3-sialyllactose and 2,6-sialyllactose by voltammetry after modification with osmium(VI) complexes. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2019, vol. 1067, no., pp. 56-62., Registrované v: WOS
2. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In *BIOANALYSIS*. ISSN 1757-6180, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na:
<https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS
3. [1.1] ZUO, Yuanli - LIANG, Yu - ZHANG, Jiting - HAO, Yingyi - LI, Menglong - WEN, Zhining - ZHAO, Yun. Transcriptome Analysis Identifies Piwi-Interacting RNAs as Prognostic Markers for Recurrence of Prostate Cancer. In *FRONTIERS IN GENETICS*, 2019, vol. 10, no., pp., Registrované v: WOS

ADMB04 FARKAŠ, Vladimír - HANNA, R. - MACLACHLAN, G. Xyloglucan oligosaccharide α -L-fucosidase activity from growing pea stems and germinating nasturtium seeds. In *Phytochemistry*, 1991, vol. 30, no. 10, p. 3203-3207. ISSN 0031-9422. Dostupné na: [https://doi.org/10.1016/0031-9422\(91\)83176-L](https://doi.org/10.1016/0031-9422(91)83176-L)

Ohlasy:

1. [1.1] MATSUZAWA, Tomohiko - YAOI, Katsuro. GH74 Xyloglucanases: Structures and Modes of Activity. In *TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY*. ISSN 0915-7352, 2016, vol. 28, no. 162, pp. E63-E70., Registrované v: WOS

ADMB05 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana - GEMEINER, Peter - TKÁČ, Ján. Electrochemical features of bilirubin oxidase immobilized on different carbon nanostructures. In *Key Engineering Materials*, 2013, vol. 543, p. 13-17. (2012: 0.172 - SJR). (2013 - SCOPUS). ISSN 1013-9826. Dostupné na:
<https://doi.org/10.4028/www.scientific.net/KEM.543.13>

Ohlasy:

1. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

ADMB06 KLEINOVÁ, Angela - HURAN, Jozef - SASINKOVÁ, Vlasta - PERNÝ, M. - ŠÁLY, V. - PACKA, J. FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application. In *Proceedings of the SPIE*, 2015, vol. 9563, 95630U. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2186748>

Ohlasy:

1. [1.1] FIGUEROA, N.S. - NACHEZ, J.L. - FREIRE, F.L. - DA

- COSTA, M.E.H.M. Synthesis and characterization of hexamethyldisilane films deposited on stainless steel by plasma-enhanced chemical vapour deposition. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, DEC 25 2020, vol. 404., Registrované v: WOS
2. [1.1] JEON, I.K. - QUDOOS, A. - JAKHRANI, S.H. - KIM, H.G. - RYOU, J.S. Investigation of sulfuric acid attack upon cement mortars containing silicon carbide powder. In POWDER TECHNOLOGY. ISSN 0032-5910, JAN 1 2020, vol. 359, p. 181-189., Registrované v: WOS
3. [1.1] JURKEVICIUTE, A. - KLIMAITE, G. - TAMULEVICIUS, T. - FIUTOWSKI, J. - RUBAHN, H.G. - TAMULEVICIUS, S. Tailoring of Silver Nanoparticle Size Distributions in Hydrogenated Amorphous Diamond-Like Carbon Nanocomposite Thin Films by Direct Femtosecond Laser Interference Patterning. In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, MAR 2020, vol. 22, no. 3., Registrované v: WOS
4. [1.1] TRINH, Q.H. - HOSSAIN, M.M. - KIM, S.H. - MOK, Y.S. Tailoring the wettability of glass using a double-dielectric barrier discharge reactor. In HELIYON. JAN 2018, vol. 4, no. 1., Registrované v: WOS
5. [1.2] KHAN, Sharif - ORDONEZ, Juan S. - STIEGLITZ, Thomas. Dual-sided process with graded interfaces for adhering underfill and globtop materials to microelectrode arrays. In International IEEE/EMBS Conference on Neural Engineering, NER. ISSN 19483546, 2017-08-10, pp. 247-250., Registrované v: SCOPUS

ADMB07 KOLLÁROVÁ, Karin - ZELKO, Ivan - HENSELOVÁ, Mária - CAPEK, Peter - LIŠKOVÁ, Desana. Growth and anatomical parameters of adventitious roots formed on mung bean hypocotyls are correlated with galactoglucomannan oligosaccharides structure. In *The Scientific World Journal*, 2012, vol. 2012, article ID 797815, p. 7. (2011: 0.515 - SJR, Q2 - SJR). ISSN 1537-744X. Dostupné na: <https://doi.org/10.1100/2012/797815>

Ohlasy:

1. [1.1] HURTADO, Alexander Calero - DIAZ, Yanery Perez - PENA CALZADA, Kolima - QUINTERO RODRIGUEZ, Elieni - OLIVERA VICIEDO, Dilier. Effect of three bio-stimulants in the morphologic and productive behavior of radish crops (*Raphanus sativus* L.). In REVISTA DE LA FACULTAD DE AGRONOMIA DE LA UNIVERSIDAD DEL ZULIA. ISSN 0378-7818, 2019, vol. 36, no. 1, pp. 54-73., Registrované v: WOS
2. [1.1] LIBIK-KONIECZNY, M. - KOZIERADZKA-KISZKURNO, M. - MICHALEC-WARZECHA, Z. - MISZALSKI, Z. - BIZAN, J. - KONIECZNY, R. Influence of anti-and prooxidants on rhizogenesis from hypocotyls of *Mesembryanthemum crystallinum* L. cultured in vitro. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2017, vol. 39, no. 8, pp., Registrované v: WOS
3. [1.1] SAIFUDDIN, Mohammed - OSMAN, Normaniza - KHANDAKERA, Mohammed Moneruzzaman. Impacts of phytohormones on the physiological performance and root profiles of legumes seedlings. In BIOSCIENCE RESEARCH. ISSN 1811-9506, 2019, vol. 16, no. 4, pp. 3321-3329., Registrované v: WOS
4. [1.1] WANG, Zi - ZHAO, Yan - WEI, Hongxu. Chitosan oligosaccharide addition affects current-year shoot of post-transplant Buddhist pine (*Podocarpus macrophyllus*) seedlings under contrasting photoperiods. In

IFOREST-BIOGEOSCIENCES AND FORESTRY. ISSN 1971-7458, 2017, vol. 10, no., pp. 715-721., Registrované v: WOS

5. [1.2] MOENNE, Alejandra. Marine algae oligo-carrageenans (OCs) stimulate growth and defense responses in terrestrial plants. In Research Progress in Oligosaccharins, 2016-01-01, pp. 41-49., Registrované v: SCOPUS

6. [3.2] Rizo-Alvarez, Maritza; Morales-Querol, Dariel; Sánchez-Santana, Tania; López-Vigoa, Onel; Olivera-Castro, Yuseika; Benítez-Alvarez, Miguel A; Ruz-Suárez, Fernando. Influence of EcoMic® and Pectimorf® on the establishment of *Leucaena leucocephala* (Lam.) de Wit. cv. Cunningham. IN Pastos y Forrajes, 2018, p. 183-188., Registrované v: SciELO Citation Index

ADMB08 KRMELOVÁ, Vladimíra - SROKOVÁ, Iva - STACHUREK, Iwona - SASINKOVÁ, Vlasta. Carboxymethylcellulose Cinnamates - Preparation and Characterization (Cinamáty karboxymetylcelulózy - príprava a charakterizácia). In *Hutnické listy : Odborný časopis pro hutnictví a materiálové inženýrství České republiky a Slovenské republiky*, 2013, vol. 66, p. 63-66. ISSN 0018-8069.

Ohlasy:

1. [1.1] SKALKOVA, Petra - CSOMOROVA, Katarina. Preparation of 4-O-methylglucuronoxylan cinnamates. In 20TH INTERNATIONAL CONFERENCE MACHINE MODELING AND SIMULATIONS, MMS 2015. ISSN 1877-7058, 2016, vol. 136, no., pp. 328-335., Registrované v: WOS

ADMB09 SALAR, Raj Kumar - ČERTÍK, Milan - BREZOVÁ, Vlasta - BRLEJOVÁ, Marta - HANUSOVÁ, Vladimíra - BREIEROVÁ, Emília. Stress influenced increase in phenolic content and radical scavenging capacity of *Rhodotorula glutinis* CCY 20-2-26. In *3Biotech*, 2013, vol. 3, p. 53-60. ISSN 2190-5738. Dostupné na: <https://doi.org/10.1007/s13205-012-0069-1>

Ohlasy:

1. [1.1] CHAGAS BARROS, Romy Gleyse - DE OLIVEIRA, Christean Santos - SANTOS OLIVEIRA, Layana Taynara - PEREIRA, Ubata Correa - MATOS SILVA, This Oliveira - DENADAI, Marina - NARAIN, Narendra. Enhancement of phenolic antioxidants production in submerged cultures of endophytic microorganisms isolated from achachairu (*Garcinia humilis*), araca-boi (*Eugenia stipitata*) and bacaba (*Oenocarpus bacaba*) fruits. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2019, vol. 111, no., pp. 370-377., Registrované v: WOS

2. [1.1] SANTOS RIBEIRO, Jose Evangelista - DA SILVA SANT'ANA, Amanda Marilia - MARTINI, Mina - SORCE, Carlo - ANDREUCCI, Andrea - NOBREGA DE MELO, Debora Jamila - HONORATO DA SILVA, Flavio Luiz. *Rhodotorula glutinis* cultivation on cassava wastewater for carotenoids and fatty acids generation. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2019, vol. 22, no., pp., Registrované v: WOS

ADMB10 WONG, Dominic W.S. - CHAN, Victor J. - MCCORMACK, Amanda A. - HIRSCH, Ján - BIELY, Peter. Functional cloning and expression of the *schizophyllum commune* glucuronoyl esterase gene and characterization of the recombinant enzyme. In *Biotechnology Research International*, 2012, vol. 2012, article ID 951267, 7 pages.

Ohlasy:

1. [1.1] BAATH, Jenny Arnling - GIUMMARELLA, Nicola - KLAUBAUF, Sylvia - LAWOKO, Martin - OLSSON, Lisbeth. A glucuronoyl esterase from *Acremonium alcalophilum* cleaves native lignin-carbohydrate ester bonds. In *FEBS LETTERS*. ISSN 0014-5793, 2016, vol. 590, no. 16, pp. 2611-2618., Registrované v: WOS
2. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
3. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Structure-function analyses reveal that a glucuronoyl esterase from *Teredinibacter turnerae* interacts with carbohydrates and aromatic compounds. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2019, vol. 294, no. 16, pp. 6635-6644., Registrované v: WOS
4. [1.1] CUERVO-SOTO, Laura I. - VALDES-GARCIA, Gilberto - BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria - BALCAZAR-LOPEZ, Edgar - LIRA-RUAN, Veronica - PASTOR, Nina - LUIS FOLCH-MALLOL, Jorge. Identification of a novel carbohydrate esterase from *Bjerkandera adusta*: Structural and function predictions through bioinformatics analysis and molecular modeling. In *PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS*. ISSN 0887-3585, 2015, vol. 83, no. 3, pp. 533-546., Registrované v: WOS
5. [1.1] DE SANTI, Concetta - WILLASSEN, Nils Peder - WILLIAMSON, Adele. Biochemical Characterization of a Family 15 Carbohydrate Esterase from a Bacterial Marine Arctic Metagenome. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 7, pp., Registrované v: WOS
6. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
7. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
8. [1.1] HUNG HIEP HUYNH - ARIOKA, Manabu. Functional expression and characterization of a glucuronoyl esterase from the fungus *Neurospora crassa*: identification of novel consensus sequences containing the catalytic triad. In *JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY*. ISSN 0022-1260, 2016, vol. 62, no. 5, pp. 217-224., Registrované v: WOS

9. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
10. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
11. [1.1] LEE, Young Min - LEE, Hanbyul - HEO, Young Mok - LEE, Hwanhwi - HONG, Joo-Hyun - KIM, Jae-Jin. Transcriptional analysis of genes encoding beta-glucosidase of *Schizophyllum commune* KUC9397 under optimal conditions. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2017, vol. 62, no. 3, pp. 191-196., Registrované v: WOS
12. [1.1] NISHIJIMA, Hiroto - NOZAKI, Kouichi - MIZUNO, Masahiro - ARAI, Tsutomu - AMANO, Yoshihiko. Extra tyrosine in the carbohydrate-binding module of *Irpex lacteus* Xyn10B enhances its cellulose-binding ability. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2015, vol. 79, no. 5, pp. 738-746., Registrované v: WOS
13. [1.1] ORTS, W. J. - MCMAHAN, C. M. Biorefinery Developments for Advanced Biofuels from a Sustainable Array of Biomass Feedstocks: Survey of Recent Biomass Conversion Research from Agricultural Research Service. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2016, vol. 9, no. 2, pp. 430-446., Registrované v: WOS
14. [3.2] Group Author(s). Uniprot Consortium. D8QLP9. IN UniProt Knowledgebase, 2016. Dostupné na internete: <http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: Data Citation Index

ADNA Scientific papers in domestic impacted journals registered in Web of Sciences or Scopus

ADNA01 SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - DEMIAN, Juraj - MAJER, Ivan - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - DURMANOVÁ, Vladimíra - PAULOVICHOVÁ, Ema. sTREM-1 in bronchoalveolar lavage fluid in patients with pulmonary sarcoidosis effect of smoking and inflammation. In *Bratislava Medical Journal*, 2013, vol. 114, p. 702-707. (2012: 0.472 - IF, Q4 - JCR, 0.189 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2013_148

Ohlasy:

1. [1.1] BUCOVA, Maria - SUCHANKOVA, Magda - TIBENSKA, Elena - TEDLOVA, Eva - DEMIAN, Juraj - MAJER, Ivan - NOVOSADOVA, Helena - TEDLA, Andmiroslav. TREM-2 Receptor Expression Increases with 25(OH)D Vitamin Serum Levels in Patients with Pulmonary Sarcoidosis. In *MEDIATORS OF INFLAMMATION*. ISSN 0962-9351, 2015, vol., no., pp., Registrované v: WOS
2. [1.1] BUCOVA, M. - SUCHANKOVA, M. - TIBENSKA, E. - MAJER, I - NOVOSADOVA, H. - URBAN, S. Diagnostic value of TREM-1 and TREM-2 expression in bronchoalveolar lavage fluid in sarcoidosis and other lung diseases. In *BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE*

LEKARSKE LISTY. ISSN 0006-9248, 2015, vol. 116, no. 12, pp. 707.,
Registrované v: WOS

3. [1.1] MORIYAMA, Munechito - HIRANO, Takashi - KAWANO, Toshiaki - KADOWAKI, Yoshinori - KODAMA, Satoru - SUZUKI, Masashi. Toll-like receptor 4 plays an important role to enhance bacterial clearance from the nose in synergy with triggering receptor expressed on myeloid cells (TREM)-1 expression on polymorphonuclear neutrophils. In INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY. ISSN 0165-5876, 2018, vol. 112, no., pp. 27-33., Registrované v: WOS

ADNB Scientific papers in domestic non-impacted journals registered in Web of Sciences or Scopus

ADNB01 BEZEK, Štefan - BRNOLIAKOVÁ, Zuzana - SOTNÍKOVÁ, Ružena - KNEZL, Vladimír - PAULOVÍČOVÁ, Ema - NAVAROVÁ, Jana - BAUER, Viktor. Monotherapy of experimental metabolic syndrome: I. Efficacy and safety. In *Interdisciplinary toxicology*, 2017, vol. 10, no. 3, p. 81-85. (2016: 0.409 - SJR, Q3 - SJR). (2017 - SCOPUS). ISSN 1337-6853. Dostupné na: <https://doi.org/10.1515/intox-2017-0013>

Ohlasy:

1. [1.1] FERKO, M. - FARKASOVA, V. - JASOVA, M. - KANCIROVA, I. - RAVINGEROVA, T. - ADAMEOVA, A.D. - ANDELOVA, N. - WACZULIKOVA, I. Hypercholesterolemia antagonized heart adaptation and functional remodeling of the mitochondria observed in acute diabetes mellitus subjected to ischemia/reperfusion injury. In JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. ISSN 0867-5910, 2018, vol. 69, no. 5, p. 685-697., Registrované v: WOS

ADNB02 KOROLENKO, Tatyana A. - JOHNSTON, Thomas P. - DUBROVINA, Nina I. - KISAROVA, Yana A. - ZHANAEVA, Svetlana Ya. - CHERKANOVA, Marina S. - FILJUSHINA, Elena E. - ALEXEENKO, Tatyana V. - MACHOVÁ, Eva - ZHUKOVA, Natalya A. Effect of poloxamer 407 administration on the serum lipids profile, anxiety level and protease activity in the heart and liver of mice. In *Interdisciplinary Toxicology*, 2013, vol. 6, no. 1, p. 18-25. (2012: 0.258 - SJR). ISSN 1337-6853. Dostupné na: <https://doi.org/10.2478/intox-2013-0004>

Ohlasy:

1. [1.1] BRAUN, Josiane B. S. - RUCHEL, Jader B. - ADEFEGHA, Stephen A. - COELHO, Ana Paula V. - TRELLES, Kelly B. - SIGNOR, Cristiane - RUBIN, Maribel A. - OLIVEIRA, Juliana S. - DORNELLES, Guilherme L. - DE ANDRADE, Cinthia M. - CASTILHOS, Livia G. - LEAL, Daniela B. R. Neuroprotective effects of pretreatment with quercetin as assessed by acetylcholinesterase assay and behavioral testing in poloxamer-407 induced hyperlipidemic rats. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2017, vol. 88, no., pp. 1054-1063., Registrované v: WOS

2. [1.1] GAO, Han-jing - SONG, Qing - LV, Fa-qin - WANG, Shan - WANG, Yi-ru - LUO, Yu-kun - MEI, Xing-guo - TANG, Jie. A novel thermosensitive in-situ gel of gabexate mesilate for treatment of traumatic pancreatitis: An experimental study. In JOURNAL OF HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY-MEDICAL SCIENCES. ISSN 1672-0733, 2015, vol. 35, no. 5, pp. 707-711., Registrované v: WOS

3. [1.1] MAHMOUD, Mohamed O. - ABOUD, Heba M. - HASSAN,

Amira H. - ALI, Adel A. - JOHNSTON, Thomas P. Transdermal delivery of atorvastatin calcium from novel nanovesicular systems using polyethylene glycol fatty acid esters: Ameliorated effect without liver toxicity in poloxamer 407-induced hyperlipidemic rats. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 254, no., pp. 10-22., Registrované v: WOS

4. [1.1] WONG, Sing Wan - YAO, Yifei - HONG, Ye - MA, Zhiyao - KOK, Stanton H. L. - SUN, Shan - CHO, Michael - LEE, Kenneth K. H. - MAK, Arthur F. T. Preventive Effects of Poloxamer 188 on Muscle Cell Damage Mechanics Under Oxidative Stress. In ANNALS OF BIOMEDICAL ENGINEERING. ISSN 0090-6964, 2017, vol. 45, no. 4, pp. 1083-1092., Registrované v: WOS

5. [1.2] ZUBERU, Jibril - SALEH, Malajiya I.A. - ALHASSAN, Abdul Wahab - ADAMU, Bello Y. - ALIYU, Munira - ILIYA, Bilkisu T. Hepatoprotective effect of camel milk on poloxamer 407 induced hyperlipidaemic wistar rats. In Open Access Macedonian Journal of Medical Sciences, 2017-12-15, 5, 7, pp. 852-858., Registrované v: SCOPUS

ADNB03 MAROVÁ, Ivana - HARONIKOVÁ, Andrea - PETRIK, Sinisa - DVORÁKOVÁ, Terezie - BREIEROVÁ, Emília. Production of enriched biomass by red yeasts of *Sporobolomyces* sp. grown on waste substrates. In *Journal of Microbiology, Biotechnology and Food Sciences*, 2012, vol. 1, p. 534-551. ISSN 1338-5178.

Ohlasy:

1. [1.1] BOGACZ-RADOMSKA, Ludmila - HARASYM, Joanna. beta-Carotene-properties and production methods. In FOOD QUALITY AND SAFETY. ISSN 2399-1399, 2018, vol. 2, no. 2, pp. 69-74., Registrované v: WOS
2. [1.1] GMOSER, Rebecca - SINTCA, Carissa - TAHERZADEH, Mohammad J. - LENNARTSSON, Patrik R. Combining submerged and solid state fermentation to convert waste bread into protein and pigment using the edible filamentous fungus *N. intermedia*. In WASTE MANAGEMENT. ISSN 0956-053X, 2019, vol. 97, no., pp. 63-70., Registrované v: WOS
3. [1.1] SINGH, Gunjan - JAWED, Arshad - PAUL, Debarati - BANDYOPADHYAY, Kalyan K. - KUMARI, Abha - HAQUE, Shafiul. Concomitant Production of Lipids and Carotenoids in *Rhodospiridium toruloides* under Osmotic Stress Using Response Surface Methodology. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2016, vol. 7, no., pp., Registrované v: WOS

ADNB04 MUDRONČEKOVÁ, Silvia - MAZÁŇ, Marián - NEMČOVIČ, Marek - ŠALAMON, Ivan. Entomopathogenic fungus species *beauveria bassiana* (BALS.) and *metarhizium anisopliae* (METSCH.) used as mycoinsecticide effective in biological control of *IPS typographus* (L.). In *Journal of Microbiology, Biotechnology and Food Sciences*, 2013, vol. 2, p. 2469-2472. ISSN 1338-5178.

Ohlasy:

1. [1.1] BARTA, Marek - KAUTMANOVA, Ivona - CICKOVA, Helena - FERENCIK, Jan - FLORIAN, Stefan - NOVOTNY, Julius - KOZANEK, Milan. The potential of *Beauveria bassiana* inoculum formulated into a polymeric matrix for a microbial control of spruce bark beetle. In BIOCONTROL SCIENCE AND TECHNOLOGY. ISSN 0958-3157, 2018, vol. 28, no. 7, pp. 718-735., Registrované v: WOS

2. [1.1] BARTA, Marek - TAKOV, Danail - PILARSKA, Daniela - DOYCHEV, Danail - HORAKOVA, Miriam Kadasi. Entomopathogenic fungi of the genus *Beauveria* and their pathogenicity to *Ips typographus* (Coleoptera: Curculionidae) in the Vitosha National Park, Bulgaria. In JOURNAL OF FOREST SCIENCE. ISSN 1212-4834, 2020, vol. 66, no. 10, pp. 420-435. Dostupné na: <https://doi.org/10.17221/123/2020-JFS>., Registrované v: WOS
3. [1.1] DANNON, H. Fabrice - DANNON, A. Elie - DOURO-KPINDOU, O. Kobi - ZINSOU, A. Valerien - HOUNDETE, A. Thomas - TOFFA-MEHINTO, Joelle - ELEGBEDE, I. A. T. Maurille - OLOU, B. Denis - TAMO, Manuele. Toward the efficient use of *Beauveria bassiana* in integrated cotton insect pest management. In JOURNAL OF COTTON RESEARCH. ISSN 2096-5044, 2020, vol. 3, no., pp. Dostupné na: <https://doi.org/10.1186/s42397-020-00061-5>., Registrované v: WOS
4. [1.1] DRAGANOVAL, Slavimira A. - DOYCHEV, Danail D. - PILARSKA, Daniela K. - TAKOV, Danail I. Bioassays of Entomopathogenic Fungi against Xylophagous Insects in Bulgaria: Laboratory and Field Experiments. In ACTA ZOOLOGICA BULGARICA. ISSN 0324-0770, 2017, vol. 69, no. 3, pp. 411-419., Registrované v: WOS
5. [1.1] DZIEGIELEWSKA, Magdalena - ADAMSKA, Iwona. Survey of entomopathogenic nematodes and fungi in agricultural areas. In PLANT PROTECTION SCIENCE. ISSN 1212-2580, 2020, vol. 56, no. 3, pp. 214-225. Dostupné na: <https://doi.org/10.17221/7/2019-PPS>., Registrované v: WOS
6. [1.1] KOCACEVIK, Seda - SEVIM, Ali - EROGLU, Mahmut - DEMIRBAG, Zihni - DEMIR, Ismail. Virulence and horizontal transmission of *Beauveria pseudobassiana* SA Rehner & Humber in *Ips sexdentatus* and *Ips typographus* (Coleoptera: Curculionidae). In TURKISH JOURNAL OF AGRICULTURE AND FORESTRY. ISSN 1300-011X, 2016, vol. 40, no. 2, pp. 241-248., Registrované v: WOS
7. [1.1] PAVLOV, I. N. - LITOVKA, Y. A. - GOLUBEV, D. V. - ASTAPENKO, S. A. - CHROMOGIN, P. V. - USOLTSEVA, Y. V. - MAKOLOVA, P. V. - PETRENKO, S. M. Mass Reproduction of *Polygraphus proximus* Blandford in Fir Forests of Siberia Infected with Root and Stem Pathogens: Monitoring, Patterns, and Biological Control. In CONTEMPORARY PROBLEMS OF ECOLOGY. ISSN 1995-4255, 2020, vol. 13, no. 1, pp. 71-84. Dostupné na: <https://doi.org/10.1134/S1995425520010060>., Registrované v: WOS
8. [1.1] TEWELDE, Abiy - ALEMU, Tesfaye. Evaluation and Optimization of Agro-industrial Wastes for Conidial Production of *Metarhizium anisopliae* isolates under Solid State Fermentation. In MOMONA ETHIOPIAN JOURNAL OF SCIENCE. ISSN 2073-073X, 2019, vol. 11, no. 2, pp. 209-228., Registrované v: WOS

ADNB05 RAČKOVÁ, Lucia - CUPÁKOVÁ, Mária - ŤAŽKÝ, Anton - MIČOVÁ, Júlia - KOLEK, Emil - KOŠTÁLOVÁ, Daniela. Redox properties of ginger extracts: Perspectives of use of *Zingiber officinale* Rosc. as antidiabetic agent. In *Interdisciplinary toxicology*, 2013, vol. 6, no. 1, p.26-33. (2012: 0.258 - SJR). ISSN 1337-6853. Dostupné na: <https://doi.org/10.2478/intox-2013-0005>

Ohlasy:

1. [1.1] ABD EL-SALAM, H.S. - HASSAN, A.A. Phytochemicals boost anti-inflammatory effect against gamma radiation: Activities of ginger and

coriander extracts. In ARAB JOURNAL OF NUCLEAR SCIENCES AND APPLICATIONS. ISSN 1110-0451, 2017, vol. 50, no. 2, p. 278-291., Registrované v: WOS

2. [1.1] HABTEMARIAM, Solomon. The chemical and pharmacological basis of ginger (*Zingiber officinale* Roscoe) as potential therapy for diabetes and metabolic syndrome. (Book Chapter 18). In MEDICINAL FOODS AS POTENTIAL THERAPIES FOR TYPE-2 DIABETES AND ASSOCIATED DISEASES: THE CHEMICAL AND PHARMACOLOGICAL BASIS OF THEIR ACTION. ISBN: 978-008102922-0;978-008102923-7, 2019, p. 639-687., Registrované v: WOS

3. [1.1] HONG, H. - LEE, J.H. - KIM, S.K. Phytochemicals and antioxidant capacity of some tropical edible plants. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, OCT 2018, vol. 31, no. 10, p. 1677-1684., Registrované v: WOS

4. [1.1] HUSSAIN, N. - HASHIMI, A.S. - WASIM, M. - AKHTAR, T. - SAEED, S. - AHMAD, T. Synergistic potential of *Zingiber officinale* and *Curcuma longa* to ameliorate diabetic-dyslipidemia. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, MAR 2018, vol. 31, no. 2, p. 491-498., Registrované v: WOS

5. [1.1] KARBALAEI, N. - HAMZAVI, G.R. Negative chronotropic and antiarrhythmic effects of ginger (*Zingiber officinale*) and intermittent fasting on Cacl2 induced-arrhythmia. In RESEARCH JOURNAL OF PHARMACEUTICAL, BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2016, vol. 7, no. 1, p. 978-983., Registrované v: WOS

6. [1.1] MOUNIER, M.M. - SHEHATA, S.H. - SOLIMAN, T.N. Anticancer activity of nanoencapsulated ginger in whey proteins against human tumor cell lines. In EGYPTIAN PHARMACEUTICAL JOURNAL. ISSN 1687-4315, 2020, vol. 19, no. 2, p. 87-96., Registrované v: WOS

7. [1.1] OTUNOLA, G.A. - AFOLAYAN, A.J. Antidiabetic effect of combined spices of *Allium sativum*, *Zingiber officinale* and *Capsicum frutescens* in alloxan-induced diabetic rats. In FRONTIERS IN LIFE SCIENCE. ISSN 2155-3769, 2015, vol. 8, no. 4, p. 314-323., Registrované v: WOS

8. [1.1] SARAVANAN, N. - PATIL, M.A. - KUMAR, P.U. - SURYANARAYANA, P. - REDDY, G.B. Dietary ginger improves glucose dysregulation in a long-term high-fat high-fructose fed prediabetic rat model. In INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0019-5189, 2017, vol. 55, no. 3, p. 142-150., Registrované v: WOS

9. [1.1] WIJESUNDARA, N.M. - RUPASINGHE, H.P.V. Bactericidal and Anti-Biofilm Activity of Ethanol Extracts Derived from Selected Medicinal Plants against *Streptococcus pyogenes*. In MOLECULES. ISSN 1420-3049, 2019, vol. 24, no. 6, art. no. 1165., Registrované v: WOS

10. [1.2] GHOSH, Tabli - MONIKA - KATIYAR, Vimal. Emerging sustainable nanostructured materials facilitated by herbal bioactive agents for edible food packaging. In Food Engineering Series. ISSN 15710297, 2020-01-01, pp. 259-285., Registrované v: SCOPUS

11. [1.2] MISHRA, N. - PANDEY, K.B. - RIZVI, S.I. Overview of novel herbal supplements in diabetes. (Book Chapter). In NUTRACEUTICALS AND FUNCTIONAL FOODS IN HUMAN HEALTH AND DISEASE PREVENTION. CRC Press, 2015, p. 109-124. ISBN: 978-148223722-1;978-148223721-4, Registrované v: SCOPUS

12. [1.2] NG, T.B. - NG, C.C.W. Antioxidant activity of ginger. (Book Chapter). In *GINGER: ANTIOXIDANT PROPERTIES, FUNCTIONS AND MEDICINAL BENEFITS*. Nova Science Publishers, Inc., 2015, p. 55-66. ISBN 978-163482036-3;978-163482020-2., Registrované v: SCOPUS

ADNB06 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Catabolism of hyaluronan: involvement of transition metals. In *Interdisciplinary toxicology*, 2009, vol. 2, no. 4, p. 229-238. ISSN 1337-6853. Dostupné na: <https://doi.org/10.2478/v10102-009-0026-y>

Ohlasy:

1. [1.1] IMPELLIZZERI, D. - SIRACUSA, R. - CORDARO, M. - PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. Protective effect of a new hyaluronic acid -carnosine conjugate on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2020, vol. 125, art. no. 110023., Registrované v: WOS

2. [1.1] MEROLA, F. - SCRIMA, M. - MELITO, C. - IORIO, A. - PISANO, C. - GIORI, A.M. - FERRAVANTE, A. A novel animal model for residence time evaluation of injectable hyaluronic acid-based fillers using high-frequency ultrasound-based approach. In *CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY*. ISSN 1178-7015, 2018, vol. 11, p. 339-346., Registrované v: WOS

3. [1.1] OLCZYK, Pawel - KOMOSINSKA-VASSEV, Katarzyna - KRZYMINIEWSKI, Ryszard - KASPERCZYK, Janusz - RAMOS, Pawel - DOBOSZ, Bernadeta - BATORYNA, Olgierd - STOJKO, Jerzy - STOJKO, Mateusz - IVANOVA, Diana - OLCZYK, Krystyna - PILAWA, Barbara. The Estimation of Blood Paramagnetic Center Changes during Burns Management with Biodegradable Propolis-Nanofiber Dressing. In *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*. ISSN 1942-0900, JUN 29 2020, vol. 2020., Registrované v: WOS

4. [1.1] SIRACUSA, R. - IMPELLIZZERI, D. - CORDARO, M. - PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. The Protective Effect of New Carnosine-Hyaluronic Acid Conjugate on the Inflammation and Cartilage Degradation in the Experimental Model of Osteoarthritis. In *APPLIED SCIENCES-BASEL*. eISSN: 2076-3417, 2020, vol. 10, no. 4, art. no. 1324., Registrované v: WOS

5. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. Preliminary high performance capillary electrophoresis (hpce) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In *ACTA POLONIAE PHARMACEUTICA*. 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

ADNB07 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation by oxidative system ascorbate plus cupric chloride. In *Interdisciplinary toxicology*,

2010, vol. 3, no. 1, p. 26-34. (2009: 0.456 - SJR, Q3 - SJR). ISSN 1337-6853.
Dostupné na: <https://doi.org/10.2478/v10102-010-0001-7>

Ohlasy:

1. [1.1] ADHIKARI, A. - POLLEY, N. - DARBAR, S. - BAGCHI, D. - PAL, S.K. Citrate functionalized Mn₃O₄ in nanotherapy of hepatic fibrosis by oral administration. In FUTURE SCIENCE OA. ISSN 2056-5623, 2016, vol. 2, no. 4, FSO146., Registrované v: WOS
2. [1.1] ADHIKARI, A. - POLLEY, N. - DARBAR, S. - PAL, S.K. Therapeutic Potential of Surface Functionalized Mn₃O₄ Nanoparticles Against Chronic Liver Diseases in Murine Model. In MATERIALS FOCUS. ISSN 2169-429X, 2017, vol. 6, no. 3, p. 280-289., Registrované v: WOS
3. [1.1] MAHANI, S.T. - BEHNAM, B. - ABBASSI, M. - ASGARI, H. - NAZMARA, Z. - SHIRINBAYAN, P. - JOGHATAEI, M.T. - KORUJI, M. Tsga10 expression correlates with sperm profiles in the adult formalin-exposed mice. In ANDROLOGIA. ISSN 0303-4569, 2016, vol. 48, no. 10, p. 1092-1099., Registrované v: WOS
4. [1.1] PARSONS, B.J. Oxidation of glycosaminoglycans by free radicals and reactive oxidative species: A review of investigative methods. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2015, vol. 49, no. 5, p. 618-632., Registrované v: WOS
5. [1.1] PRAKOSO, T. - WIDODO, A. - INDARTO, A. - MARIYANA, R. - ARIF, A.F. - ADHI, T.P. - SRAWIDJAJA, T.H. Manganese gluconate, A greener and more degradation resistant agent for H₂S oxidation using liquid redox sulfur recovery process. In HELIYON. ISSN 2405-8440, 2020, vol. 6, no. 2, art. no. e03358., Registrované v: WOS
6. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. Preliminary High Performance Capillary Electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

AEC Scientific papers in foreign peer-reviewed proceedings, monographs

AEC01 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURANEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: anti-oxidative properties of the Piešťany-spa curative waters from healing peloid and maturation pool : chapter 3. In *Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives*. Editors Regina M. Islamova, Sergei V. Kolesov and Gennady E. Zaikov. - New York : Nova Science Publishers, 2012, p. 29-36. ISBN 978-1-61470-712-7. ITMS 26220120054, ITMS 26220220085

Ohlasy:

1. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
2. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND

CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

- AEC02 KRMELOVÁ, Vladimíra - SROKOVÁ, Iva - SASINKOVÁ, Vlasta. Surface-active and performance properties of novel hydroxyethylcellulose derivatives. In *Modern Polymeric Materials for Environmental Applications : 4th International Seminar. COST MP0701 Workshop. Krakow, 1.-3.12.2010.* - Cracow : Cracow University of Technology, 2010, vol. 5, Iss. 1, P. 251-258. ISBN 978-83-930641-1-3.
Ohlasy:
1. [1.1] SKALKOVA, Petra - CSOMOROVA, Katarina. Preparation of 4-O-methylglucuronoxylan cinnamates. In 20TH INTERNATIONAL CONFERENCE MACHINE MODELING AND SIMULATIONS, MMS 2015. ISSN 1877-7058, 2016, vol. 136, no., pp. 328-335., Registrované v: WOS
- AEC03 LUX, Alexander - MASAROVICHOVÁ, E. - LIŠKOVÁ, Desana - KRÁLOVÁ, K. - VARGA, L. Study of woody plants utilizable for phytoremediation in Slovakia. In *Proceedings of International Conference: Ecosystem Service and Sustainable Watershed Management in North China, August 23-25, 2000, Beijing, P.R. China.* - Beijing, P.R. China, 2000, p.379-391.
Ohlasy:
1. [1.1] KATANIC, Marina - KOVACEVIC, Branislav - DORDEVIC, Biljana - KEBERT, Marko - PILIPOVIC, Andrej - KLASNJA, Bojana - PEKEC, Sasa. Nickel Phytoremediation Potential of White Poplar Clones Grown in Vitro. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2015, vol. 20, no. 1, pp. 10085-10096., Registrované v: WOS
- AEC04 MANZANO, Veronica E. - REPETTO, Evangelina - UHRIG, Maria Laura - BARÁTH, Marek - VARELA, Oscar. Synthesis of 2,3,4,6-tetra-O-acetyl-1,5-anhydro-D-lyxo-hex-1-enitol and its conversion into a hex-3-enopyranosid-2-ulose analogue of levoglucosenone. In KOVÁČ, Pavol. *Carbohydrate Chemistry: Proven Synthetic Methods.* - Boca Raton : CRC Press, 2011, p. Vol. 1, Chapter 35, p. 295-301. ISBN 978-1439866894.
Ohlasy:
1. [1.1] SONOUSHI, Amr - VASELLA, Andrea - CRICH, David. Synthesis of a Pseudodisaccharide Suitable for Synthesis of Ring I Modified 4,5-2-Deoxystreptamine Type Aminoglycoside Antibiotics. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 11, pp. 7583-7587. Dostupné na: <https://doi.org/10.1021/acs.joc.0c00743>., Registrované v: WOS
- AEC05 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Impact of transition metals in the free-radical degradation of hyaluronan biopolymer. In *Kinetics and thermodynamics for chemistry and biochemistry : (a festschrift in honor of the 75th birthday of professor Gennady E. Zaikov).* Vol. 2. Editor Eli M. Pearce, Gennady Efremovich Zaikov, Gerald Kirshenbaum. - Hauppauge : Nova Science Publishers, 2009, chapter 19. P. 181 - 199. ISBN 978-1-60692-352-8.
Ohlasy:
1. [3.1] PONIST, S. - SLOVAK, L. - FEDOROVA, T. - DRAFI, F. -

RACKOVA, L. - VALACHOVA, K. - BAUEROVA, K. Protective effects of carnosine and its derivative trolox-carnosine against inflammation and oxidative stress in experimental arthritis, carrageenan induced hind paw edema, chondrocytes under H₂O₂ injury and degradation of hyaluronan. (Book chapter 5). In Wells D. edit. CARNOSINE: PHYSIOLOGICAL EFFECTS AND RESEARCH INSIGHTS. Nova Science Publisher; New York 2016, p. 159-191. ISBN 978-1-53610-153-9.

2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

AEC06 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Hyaluronan degradation by ascorbate: protective effects of manganese(II) chloride. In *Kinetics and thermodynamics for chemistry and biochemistry : (a festschrift in honor of the 75th birthday of professor Gennady E. Zaikov)*. Vol. 2. Editor Eli M. Pearce, Gennady Efremovich Zaikov, Gerald Kirshenbaum. - Hauppauge : Nova Science Publishers, 2009, chapter 20. P. 201- 215. ISBN 978-1-60692-352-8.

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

2. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. A review on hyaluronan biopolymer and pharmaceutical applications. (Book chapter 9). In Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich eds. The chemistry and Physics of Engineering Materials. Vol. 2: Limitations, Properties, and Models. New York : Apple Academic Press, 2015, p. 337-362. ISBN 978-1-77188-080-0.

3. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and

Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

AECA Scientific papers in foreign peer-reviewed proceedings and shorter chapters in foreign scientific monographs or academic/university textbooks

AECA01 KUSHWAHA, Divya - BARÁTH, Marek - KOVÁČ, Pavol. Preparation and characterization of 6-Azidoethyl 2,3,4,6-tetra-O-acetyl- β -D-glucopyranoside. In *Carbohydrate Chemistry: Proven Synthetic Method. Vol. 4.* - Boca Raton, USA : CRC Press, 2018, p. 183-188. ISBN 978-1-4987-2691-7.

Ohlasy:

1. [1.1] STEPANOVA, Elena V. - ZININ, Alexander I. - ABRONINA, Polina I. - CHIZHOV, Alexander O. - KONONO, Leonid O. Azidation of Partially Protected Carbohydrate Derivatives: Efficient Suppression of Acyl Migration. In SYNLETT. ISSN 0936-5214, 2020, vol. 31, no. 15, pp. 1491-1496. Dostupné na: <https://doi.org/10.1055/s-0040-1707137>., Registrované v: WOS

AFC Published papers from foreign scientific conferences

AFC01 BELICKÁ, Ľudmila, Kľuková - FILIP, Jaroslav - TKÁČ, Ján. Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnosis. In *Proceedings, 9th International Conference on Sensing Technology (ICST 2015) : Auckland, New Zealand, December 8-10, 2015.* - Auckland : University of Auckland, 2016, 2016, vol. 2016-March, article no. 7438361, p. 40-45. ISBN 978-147996314-0.

Ohlasy:

1. [1.1] LIU, Ruitao - YE, Xiongying - CUI, Tianhong. Recent Progress of Biomarker Detection Sensors. In RESEARCH, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.34133/2020/7949037>., Registrované v: WOS

AFC02 BIELY, Peter - VRŠANSKÁ, Mária - KREMnickÝ, Ľubomir - TENKANEN, Maija - POUTANEN, K. - HAYN, Marianne. Catalytic properties of endo- β -1,4-xylanases of *Trichoderma reesei*. In *Proceedings of the 2nd TRICEL 93 Conference on Trichoderma Cellulases*. Eds. Suominen, P., Reinikainen, T. - Helsinki : The Foundation for Biotechnical and Industrial Fermentation Research, 1993, p. 125-135. ISBN 978-9518913620.

Ohlasy:

1. [1.1] GHOSH, Arabinda - SUTRADHAR, Saikat - BAISHYA, Debabrat. Delineating thermophilic xylanase from *Bacillus licheniformis* DM5 towards its potential application in xylooligosaccharides production. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2019, vol. 35, no. 2, pp., Registrované v: WOS

AFC03 HURAN, Jozef - HRUBČÍN, Ladislav - BOHÁČEK, Pavol - BORZAKOV, S.B. - SKURATOV, V.A. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta. The effect of Xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology. In *RAD 2015 : proceedings Third International Conference on Radiation and Applications in Various Fields of Research*. Ed. G. Rastič ; rev. A.A. Ajayi-Banji, A.A. Antsiferova et al. - Niš : RAD Association, 2015, p. 399-403. ISBN 978-86-80300-01-6.

Ohlasy:

1. [1.1] SU, Q. - WANG, T.Y. - GIGAX, J. - SHAO, L. - LANFORD,

W.A. - NASTASI, M. - LI, L.Y. - BHATTARAI, G. - PAQUETTE, M.M. - KING, S.W. Influence of topological constraints on ion damage resistance of amorphous hydrogenated silicon carbide. In ACTA MATERIALIA. ISSN 1359-6454, FEB 15 2019, vol. 165, p. 587-602., Registrované v: WOS

AFC04 MOLNÁROVÁ, Jana - VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena - STRATILOVÁ, Eva - ILLKOVÁ, Kateřina. The enzymatic activity of yeasts isolated from plant material. In *39th Annual Conference on Yeast, May 3-6, 2011, Smolenice, Slovakia. Bratislava*. - Bratislava : Yeast Commission, Institute of Chemistry SAS, 2011, p. 61. ISSN 1336-4839.

Ohlasy:

1. [1.2] PRABHU KHORJUVENKAR, Supriya N. - DOJAD, Swapnil P. - POHARKAR, Krupali - DUBAL, Zunjar B. - BARBUDDHE, Sukhadeo B. Antimicrobial Activity of a Novel *Pichia membranifaciens* Strain Isolated from Naturally Fermented Cashew Apple Juice. In *Proceedings of the National Academy of Sciences India Section B Biological Sciences*. ISSN 03698211, 2016-03-01, 86, 1, pp. 125-129., Registrované v: SCOPUS

AFC05 PAWLACZYK, Izabela - DROZDZYNSKA, Anna - CAPEK, Peter - LEWIK-TSIRIGOTIS, Marta - ZIEWIECZKI, Rafal - GANCARZ, Roman. Anticoagulant activity of the polysaccharide-polyphenolic conjugate from *S. officinalis*(L.). In *Proceedings of the 8th International Conference on Polysaccharides-Glycoscience 2012 : 28-30 november 2012*. - Praha : Czech Chemical Society, 2012, p. 23-27. ISBN 978-80-86238-28-9.

Ohlasy:

1. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS

AFE Abstracts of invited papers from foreign conferences

AFE01 TKÁČ, Ján - BERTÓK, Tomáš - BELICKÁ, Ľudmila, Kľuková - HUSHEGYI, András - DAMBORSKÁ, Dominika - BELICKÝ, Štefan. Biosensors for ultrasensitive analysis in glycomics and diagnostics. In *European Biotechnology Congress 2015, Bucharest, Romania, May 7-9, 2015. In Journal of Biotechnology*. - Bukurest, 2015, 2015, vol. 208S, p. S. ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2015.06.008>

Ohlasy:

1. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS

AFFA Abstracts of invited papers from international conferences in Slovakia

AFFA01 KATRLÍK, Jaroslav - GEMEINER, Peter - ŠEDIVÁ, Alena. Lectin microarray and surface plasmon resonance biochips for detection of glycosylation and glyco-biomarkers. In *Current Opinion in Biotechnology*, 2013, vol. 24, p. S25. (2012: 7.860 - IF, Q1 - JCR, 3.521 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0958-1669. Dostupné na: <https://doi.org/10.1016/j.copbio.2013.05.035>

Ohlasy:

1. [1.1] ZHU, Hanyu - LIU, Moyan - YU, Hanjie - LIU, Xiawei - ZHONG, Yaogang - SHU, Jian - FU, Xinle - CAI, Guangyan - CHEN, Xiangmei - GENG, Wenjia - YANG, Xiaoli - WU, Minghui - LI, Zheng - ZHANG, Dong. Glycopatterns of Urinary Protein as New Potential Diagnosis Indicators for Diabetic Nephropathy. In *JOURNAL OF DIABETES RESEARCH*. ISSN 2314-6745, 2017, vol., no., pp., Registrované v: WOS

AFG Abstracts of papers from foreign conferences

AFG01 BANAŠOVÁ, Mária - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - PRIESOLOVÁ, Elena - NAGY, Milan - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Early stage of the acute phase of joint inflammation. In vitro testing of bucillamine and its oxidized metabolite SA981 in function of antioxidants. In *Interdisciplinary toxicology*, 2011, vol. 4, no. 2, p. A22. (2010: 0.253 - SJR, Q3 - SJR). ISSN 1337-6853. VEGA 1/01145/10

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. *ANALYSIS AND PERFORMANCE OF ENGINEERING MATERIALS: KEY RESEARCH AND DEVELOPMENT*. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.
2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. *ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series*, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.
3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

AFG02 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. Nanomaterial-based microbial for detection of ethanol in real samples. In *Journal of Biotechnology*, 2014, vol. 185, supplement Issue: European Biotechnology Congress 2014, s21. (2013: 2.884 - IF, Q2 - JCR, 1.173 - SJR, Q1 - SJR, Current Contents - CCC). (2014 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2014.07.071>

Ohlasy:

1. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - BYKOV,

Aleksandr - PRISYAZHNAYA, Natalia - KOLESOV, Vladimir - SIGAEV, Vladimir - SIGNORE, Maria Assunta - RESHETILOV, Anatoly. Multiwalled Carbon Nanotubes and the Electrocatalytic Activity of Gluconobacter oxydans as the Basis of a Biosensor. In BIOSENSORS-BASEL, 2019, vol. 9, no. 4, pp., Registrované v: WOS

2. [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. Advances in developing rapid, reliable and portable detection systems for alcohol. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99., Registrované v: WOS

3. [3.1] Wang, Y-Z (Wang, Yan-Zhai); Christopher, JK (Christopher, Joseph Kirubaharan); Yong, Y-Ch (Yong, Yang-Chun); Zhai, D-D (Zhai, Dan-Dan). Nutrient Detection with Whole-Cell Biosensors. In: HANDBOOK OF CELL BIOSENSORS (2019) p. 1-20

AFG03 DRÁFI, František - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - JURÁNEK, Ivo - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Study of methotrexate and β -alanyl-L-histidine in comparison with L-glutathione on high-molar-mass hyaluronan degradation induced by ascorbate plus Cu(II) ions via rotational viscometry. In *Acta Medica (Hradec Králové) : journal of Faculty of Medicine in Hradec Králové*, 2010, vol. 53, no. 3, p.170-171. (2009: 0.125 - SJR, Q4 - SJR). ISSN 1211-4286.

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

AFG04 KOŠÍKOVÁ, Božena - DEMIANOVÁ, V. - MIKULÁŠOVÁ, M. - LORA, J.H. Biodegradable lignin/polyolefin composite films. In *Proceedings: 1. Biomass Conference of the Americas: Energy, Environment, Agriculture, and Industry, 30 August-2 September 1993, Burlington, USA.* - Golden : National Renewable Energy Laboratory, 1993, 1993, vol. 2, PB: 711 p.

Ohlasy:

1. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS

AFG05 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by Weissberger oxidative system. Testing of thiol compounds in function of antioxidants. In *Interdisciplinary toxicology*, 2011, vol. 4, no. 2, p. A65. (2010: 0.253 - SJR, Q3 - SJR). ISSN 1337-6853.

Ohlasy:

1. [3.1] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight biopolymer. (Book chapter 2). In Gennady E. Zaikov edit. Analysis and Performance of Engineering Materials: Key Research and

Development. Toronto, New Jersey: Apple Academic Press, 2015, p. 19-43. ISBN 978-1-77188-085-5.

2. [3.1] SABET MAYSA M. - TAMER M. TAMER - AHMED M. OMER. Antioxidative Activity of Hyaluronan: Evaluation and Mechanism. (Book Chapter 9). In Reza K. Haghi, Francisco Torrens eds. ENGINEERING TECHNOLOGY AND INDUSTRIAL CHEMISTRY WITH APPLICATIONS. Innovations in Physical Chemistry: Monograph Series, Oakville, Ontario: Apple Academic Press, 2019, p. 171-188. ISBN 978-1-77188-637-6.

3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

AFG06 YUROWSKIKH, M.A. - PESTOV, A. - KOGAN, Grigorij - SKORIK, Y.A. - YATLUK, Y.G. Sorption properties of the modified chitin-glucans. In *SE-KWON KIM - HONG KYOON NO - RO-DONG PARK. Advances in chitin science and technology: Proceedings of the 7th Asia-Pacific Chitin and Chitosan Symposium, 23-26 April 2006, Busan, Korea.* - Seoul : Hanrimwon Printing Co. Ltd., 2016, p. 60-63.

Ohlasy:

1. [1.1] NOVINYUK, L. - VELINZON, P. Z. - KULEV, D. Kh. SORPTION PROPERTIES OF CHITIN- AND CHITOSAN-GLUCAN BIO-COMPLEXES ISOLATED FROM ASPERGILLUS NIGER FUNGAL MYCELIA BIOMASS. In IZVESTIYA VUZOV-PRIKLADNAYA KHIMIYA I BIOTEKHNOLOGIYA. ISSN 2227-2925, 2017, vol. 7, no. 2, pp. 64-71., Registrované v: WOS

AFHA Abstracts of papers from international conferences in Slovakia

AFHA01 ILLÉSOVÁ, Anikó - BUČKO, Marek - VIKARTOVSKÁ, Alica - GEMEINER, Peter. Encapsulation as useful tool for a biotechnological production of natural aromas. In *Current Opinion in Biotechnology*, 2013, vol. 24, suppl., p. S59-S60. (2012: 7.860 - IF, Q1 - JCR, 3.521 - SJR, Q1 - SJR, Current Contents - CCC). (2013 - Current Contents). ISSN 0958-1669. Dostupné na: <https://doi.org/10.1016/j.copbio.2013.05.152>

Ohlasy:

1. [1.1] STARK, Kirsty - HITCHCOCK, James P. - FIAZ, Assim - WHITE, Alison L. - BAXTER, Elaine A. - BIGGS, Simon - MCLAUGHLAN, James R. - FREEAR, Steven - CAYRE, Olivier J. Encapsulation of Emulsion Droplets with Metal Shells for Subsequent Remote, Triggered Release. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2019, vol. 11, no. 13, pp. 12272-12282., Registrované v: WOS

AFK Foreign conferences posters

AFK01 HRICOVÍNIOVÁ, Zuzana - MEDVEĎOVÁ, Alžbeta - VALÍK, Ľubomír - HRICOVÍNÍ, Miloš. An efficient synthesis of novel L-rhamnose based non-ionic surfactants under controlled microwave irradiation. In *18th European Carbohydrate Symposium. Program and Abstracts. EUROCARB 18, Moscow 2015, August 2-6*,

2015. - Moskva, 2015, p-075, p. 61. Dostupné na:
<https://doi.org/10.1016/j.tetasy.2014.05.012>

Ohlasy:

1. [1.1] KOVENSKY, Jose - GRAND, Eric. Recent Advances in the Synthesis of Sugar-based Surfactants. In BIOMASS SUGARS FOR NON-FUEL APPLICATIONS. ISSN 1757-7039, 2016, vol., no. 44, pp. 159-204.,

Registrované v: WOS

2. [1.1] POLANKI, Innaiah K. - KURMA, Siva H. - BHATTACHARYA, Asish K. Direct Glycosylation of Unprotected and Unactivated Sugars Using Bismuth Nitrate Pentahydrate. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2015, vol. 34, no. 4, pp. 196-205., Registrované v: WOS

3. [1.1] ZHAO, Tian-Hong - GU, Jiong-Yi - PU, Wan-Fen - DONG, Zhi-Ming - LIU, Rui. Study on the synthesis and properties of an eco-friendly sugar-based anionic-nonionic surfactant. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 74, pp. 70165-70173., Registrované v: WOS

AFL Domestic conferences posters

AFL01 DOVINOVA, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene - BARANČÍK, Miroslav - KVANDOVÁ, Miroslava - MAJZUNOVÁ, Miroslava - BERÉNYIOVÁ, Andrea - ČAČÁNYIOVÁ, Soňa. ADMA, homocysteine and redox status improvement affected by 7-nitroindazole in spontaneously hypertensive rats. In *Nitric Oxide: From Basic Regulations to Lifestyle-Related Diseases 2018 : proceedings of the 10th International Symposium, Smolenice Castle, Slovakia, 3-5 September 2018.* - Bratislava : Centre of Experimental Medicine SAS, p. 31-32. ISBN 978-80-89991-01-3.

Ohlasy:

1. [1.1] HU, Weiqing - WANG, Wenye - MA, Qing - LIU, Tao - ZHANG, Jiefeng - ZHANG, Jicun. Blueberry anthocyanin-enriched extract ameliorates transverse aortic constriction-induced myocardial dysfunction via the DDAH1/ADMA/NO signaling pathway in mice. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, 2020, vol. 21, no. 1, pp. 454-462. Dostupné na: <https://doi.org/10.3892/mmr.2019.10800>., Registrované v: WOS

GHG Works published on the internet

GHG01 HURAN, Jozef - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - BALALYKIN, Nikolay I. - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide thin films deposited by plasma enhanced chemical vapor deposition at different temperature for hard environment applications. In *21st International Symposium on Plasma Chemistry : Cairns (Australia) 2013* [elektronický zdroj], <http://www.ispc-conference.org/ispcproc/ispc21/ID180.pdf>.

Ohlasy:

1. [1.1] LUKIANOV, A.N. - KLYUI, N.I. - SHA, B. - LOZINSKII, V.B. - TEMCHENKO, V.P. - AVKSENTYEVA, L.V. - STASCHUK, V.S. Effect of discharge power and silicon content on optical and mechanical properties of carbon-rich amorphous silicon carbide films obtained by PECVD. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, SEP 15 2019, vol. 801, p. 285-294., Registrované v: WOS

2. [1.1] MARVI, Z. - XU, S. - FOROUTAN, G. - OSTRIKOV, K. -

LEVCHENKO, I. Plasma-deposited hydrogenated amorphous silicon films: multiscale modelling reveals key processes. In RSC ADVANCES. 2017, vol. 7, no. 31, p. 19189-19196., Registrované v: WOS

3. [1.1] VAN LAAR, J.H. - BISSETT, H. - BARRY, J.C. - VAN DER WALT, I.J. - CROUSE, P.L. Deposition of SiC/Si coatings in a microwave plasma-assisted spouted bed reactor. In JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. APR 2018, vol. 38, no. 4, p. 1197-1209., Registrované v: WOS