

Chemický ústav SAV, v. v. i.



**Správa o činnosti organizácie SAV
za rok 2021**

Bratislava
január 2022

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV, v. v. i.
Riaditeľ: Mgr. Stanislav Kozmon, PhD.
Zástupca riaditeľa: Ing. Vladimír Mastihuba, PhD.
Vedecký tajomník: Mgr. Jana Blahutová, PhD.
Predseda vedeckej rady: Ing. Vladimír Mastihuba, PhD.
Člen Snemu SAV: Mgr. Stanislav Kozmon, PhD.
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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
 nie sú

Typ organizácie: Príspevková od roku 2009

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	155	70	85	17	23	146	120.16	73.67	16.5
Vedeckí pracovníci	90	46	44	8	13	81	68.44	64.6	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	22	10	12	7	9	22	11.8	7.82	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	7	2	5	1	0	7	5.71	1.25	0

Odborní pracovníci ÚS	24	5	19	1	1	24	23.68	0	16.5
Ostatní pracovníci	12	7	5	0	0	12	10.53	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2021 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

F – fyzický stav zamestnancov k 31.12.2021 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratívne, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2021)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	37	2	2	9	24	13
Ženy	1	43	0	0	1	21	22

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	7	3.0	7	6.5	4	3.5	4	4.0	5	4.6	3	3.0	1	1.0	5	5.0	11	2.4
Ženy	10	5.6	10	8.8	8	8.0	3	3.0	5	5.0	3	3.0	1	1.0	7	7.0	1	1.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2021

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50.6	51.2	49.5
Ženy	44.5	42.3	41.5
Spolu	47.3	46.9	45.5

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej štruktúre a pod.)

V roku 2021 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii

Chemického ústavu SAV, ktorá bola naďalej zameraná najmä na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

V rámci organizačného členenia organizácie (od 1. 1. 2005), je vytvorených osem vedeckých oddelení - Štruktúra a funkcia sacharidov, Glykobiológia, Glykomateriály, Glykochémia, Glykobiotechnológia, Enzymológia sacharidov, Imunochémia glykokonjugátov a Zbierka kvasiniek (tieto vedecké oddelenia spolu tvoria Centrum glykomiky) a tri spoločné nevedecké oddelenia - Analytické, Realizačné a Ekonomicko-technické oddelenie.

Chemický ústav SAV bol v rámci pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007, 2012 a 2016 zaradený do kategórií A* (rok 2007), A (rok 2012) a B (rok 2016), čo svedčí o vysokej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľoch.

Od 1. 1. 2009 sa zmenila forma hospodárenia ústavu z rozpočtovej na príspevkovú.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2021

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	17	5	186463	186463	-	-	3000	-
2. Projekty APVV	7	14	-	-	246334	180269	-	203364
3. Projekty EŠIF/OP ŠF	2	6	-	-	-	111520	-	356255
4. Projekty SASPRO, MoRePro	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	-	-	92088	92088	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2021

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2021	-	6	4
2. Projekty výziev EŠIF podané r. 2021	Bratislava	0	0
	Regióny	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2021

Tabuľka 2c Medzinárodné projekty riešené v roku 2021

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	1	-	-	-	-	4018	42932
2. Projekty ERA.NET, ESA, JRP	1	0	-	25000	-	-	-	-
3. Projekty COST	0	9	-	-	-	-	29179	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	2	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1500	1500	-	-	-	-
7. Bilaterálne projekty ostatné	1	0	-	-	10000	10000	-	-
8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)	2	0	-	-	7350	4118	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	1	-	-	-	-	-	4150

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2021

Tabuľka 2d Počet projektov Horizont Európa v roku 2021

	A	B
Počet podaných projektov Horizont Európa	0	1

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

Chemický ústav SAV, ako žiadateľ, resp. ako partner v projektoch sa zapojil v období 2018-2020 do ďalších výziev čerpania ŠF EU v operačných programoch „Výskum a inovácie a Integrovaná infraštruktúra“, s výsledkom schválenia ôsmich projektov na financovanie (predpoklad ukončenia 06.2023). V súčasnosti sú projekty priebežne implementované aj na úrovni refundácií miezd ako aj prípravy a realizácie verejných obstarávaní k nákupu rozpočtovaných chemikálií, spotrebného materiálu a prístrojov.

V roku 2022 predpokladáme čerpanie finančných prostriedkov najmä pri refundácií miezd vo výške 1 175 408 € v ôsmich projektoch. Po úspešnej realizácii už vyhlásených VO na chemikálie, laboratórny spotrebný materiál a chromatografický materiál, predpokladáme čerpanie finančných prostriedkov na úrovni 2 127 268 €. Momentálne je v príprave aj VO na nákup prístrojov s predpokladom ich nákupu vo výške 332 554 €.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2021

Služi aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

Objav enzýmov s úplne novou špecifitou: xylobiohydrolázy z rodiny 30 glykozidhydroláz pôsobia na neredukujúcom konci hlavného reťazca rastlinných xylánov, z ktorého uvoľňujú prebiotický disacharid beta-1,4-xylobiózu (K. Šuchová, P. Biely, V. Puchart).

Kolektív z Oddelenia enzymológie sacharidov patrí už niekoľko desaťročí medzi popredné svetové skupiny zaoberajúce sa enzýmovým rozkladom najpočetnejšej rastlinnej hemicelulózy – xylánu. Okrem notoricky známych nešpecifických endoxylanáz z rodín GH10 a GH11 sa v poslednom období pozornosť venuje aj doteraz málo prebádaným xylanázam z rodiny GH30. Zistili sme, že okrem prokaryotických enzýmov z podrodiny GH30_8, ktoré sú až na výnimky špecifické glukuronoxylanázy so samostatným číslom EC, je substrátová špecifita eukaryotických zástupcov z podrodiny GH30_7 oveľa rozmanitejšia. Okrem glukuronoxylanáz a nešpecifických endoxylanáz sú v tejto podrodine aj enzýmy s úplne novou špecifitou. Ide o xylobiohydrolázy, ktoré odštiepujú prebiotický disacharid β-1,4-xylobiózu z neredukujúceho konca. Predstavujú ďalší biotechnologicky významný katalyzátor, ktorý sa podieľa na kolobehu uhlíka v prírode. Okrem tejto fyziologickej funkcie nájdeme – rovnako ako glukuronoxylanázy – široké priemyselné využitie pri zužitkovaní rastlinnej hemicelulózy a jej premene na rôzne produkty s vyššou pridanou hodnotou. (Chemický ústav SAV).

1. PUCHART, Vladimír** - ŠUCHOVÁ, Katarína - BIELY, Peter. Xylanases of glycoside hydrolase family 30 – An overview. In Biotechnology Advances, 2021, vol. 47, art. no. 107704 [16] p. (2020: 14.227 - IF, Q1 - JCR, 2.772 - SJR, Q1 - SJR, karentované - CCC).

- (2021 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2021.107704>
2. ŠUCHOVÁ, Katarína - SPODBERG, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter - PUCHART, Vladimír**. Non-specific GH30_7 endo-β-1,4-xylanase from *Talaromyces leycettanus*. In *Molecules*, 2021, vol. 26, art. no. 4614 [13] p. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26154614>
 3. ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - SPODSBERG, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. Catalytic diversity of GH30 xylanases. In *Molecules*, 2021, vol. 26, art. no. 4528 [14] p. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26154528>
 4. ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - BIELY, Peter. A novel bacterial GH30 xylobiohydrolase from *Hungateiclostridium clariflavum*. In *Applied Microbiology and Biotechnology*, 2021, vol. 105, p. 185-195. (2020: 4.813 - IF, Q1 - JCR, 1.074 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-020-11023-x>
 5. ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - BIELY, Peter. Xylanases of glycoside hydrolase family 30: Structure-function relationship. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 55. ISBN 978-80-907779-1-0.

2.3.2. Výsledky aplikačného typu

Stanovenie glykánov ako biomarkerov na diagnostiku rakoviny (Bertók, Bertóková, Švecová, Pinková-Gajdošová, Lorencová, Jáné, Híreš, Hrončeková, Chocholová, Aguedo, Blšáková, Vikartovská, Tkáč).

V práci sme študovali možnosti využitia analýzy glykánov v diagnostike viacerých rakovinových ochorení. Zosumarizovali sme výhody a nevýhody rôznych typov biomarkerov na diagnostiku rakoviny prostaty vrátane glykoprolifácie proteínov v prehľadovej práci. Okrem toho špecifická glykoprolifácia PSA (prostatický špecifický antigén) bola použitá na skorú diagnostiku ochorenia ako aj na identifikáciu pacientov s istým subtypom tohto ochorenia. Analýza glykánov v sérach pacientov s kolorektálnym karcinómom a zdravých ľudí ukazuje, že glykány môžu byť nielen indikátorom biologického veku ľudí, ale aj biomarkerom na diagnostiku kolorektálneho karcinómu. Poukázali sme aj na to, že analýza glykánov má skvelú perspektívu na diagnostiku rakoviny prsníka, ale i to, že impedimetrické biosenzory je možné nielen efektívne použiť na stanovenie viacerých proteínov ako rakovinových biomarkerov, ale i glykoproteínov ako biomarkerov rakoviny. (**Chemický ústav SAV**).

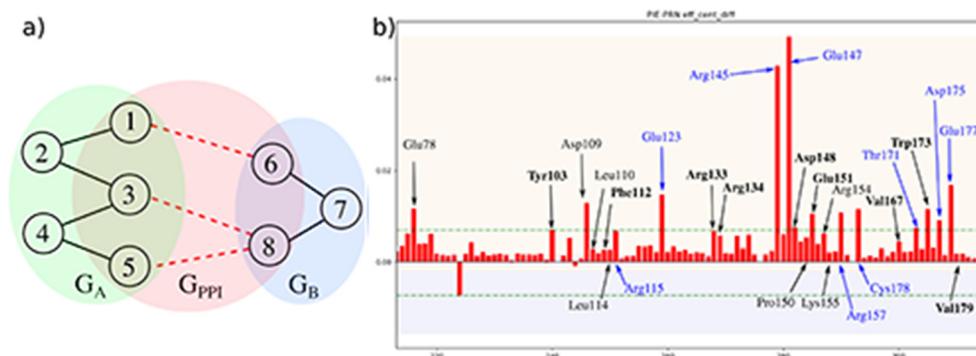
1. BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - HRONČEKOVÁ, Štefánia - CHOCHOLOVÁ, Erika - ŠVECOVÁ, Natália - LORENCOVÁ, Lenka - KASÁK, Peter - TKÁČ, Ján**. Novel prostate cancer biomarkers: Aetiology, clinical performance and sensing applications. In *Chemosensors*, 2021, vol.9, art. no. 205 [33] p. (2020: 3.398 - IF, Q2 - JCR, 0.625 - SJR, Q2 - SJR). ISSN 2227-9040. Dostupné na: <https://doi.org/10.3390/chemosensors9080205>
2. BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - JÁNÉ, Eduard - HÍREŠ, Michal - AGUEDO, Juvisan - POTOČÁROVÁ, Mária - LUKÁČ, Ľudovít - VIKARTOVSKÁ, Alíca - KASÁK, Peter - BORSIG, Ľubor - TKÁČ, Ján**. Identification of a whole-serum glycomarkers for colorectal carcinoma using reverse-phase lectin microarray. In *Frontiers in Oncology Gastrointestinal Cancers*, 2021, vol. 11, art. no. 735338 [11] p. (2020: 6.244 - IF, Q2 - JCR, 1.834 - SJR, Q1 - SJR). ISSN 2234-943X.

3. BERTÓK, Tomáš - PINKOVÁ GAJDOŠOVÁ, Veronika, BERTÓKOVÁ, Anikó - ŠVECOVÁ, Natália - KASÁK, Peter - TKÁČ, Ján** Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. Expert Review of Proteomics 2021, vol. 18, 881-910 (2020: 3.940 - IF, Q2 - JCR, 1.099 - SJR, Q2 - SJR). 1478-9450. Dostupné na: <https://www.tandfonline.com/doi/full/10.1080/14789450.2021.1996231>
4. BERTÓKOVÁ, Anikó - BERTÓK, Tomáš - JÁNÉ, Eduard - HÍREŠ, Michal - ĎUBJAKOVÁ, Petra - NOVOTNÁ, Oľga - BELAN, Vít'azoslav - FILLO, Juraj - TKÁČ, Ján**. Detection of N,N-diacetyllactosamine (LacdiNAc) containing free prostate-specific antigen for early stage prostate cancer diagnostics and for identification of castration-resistant prostate cancer patients. In Bioorganic & Medicinal Chemistry, 2021, vol. 39, art. no. 116156 [6] p. (2020: 3.641 - IF, Q2 - JCR, 0.721 - SJR, Q2 - SJR). ISSN 0968-0896. Dostupné na: <https://doi.org/10.1016/j.bmc.2021.116156>
5. PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - BLŠÁKOVÁ, Anna - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján**. Challenges for impedimetric affinity sensors targeting proteins detection. In Current Opinion in Electrochemistry, 2021, vol. 28, art. no. 100717 [7] p. (2020: 7.271 - IF, Q1 - JCR, 1.980 - SJR, Q1 - SJR). ISSN 2451-9103. Dostupné na: <https://doi.org/10.1016/j.coelec.2021.100717>

2.3.3. Výsledky na báze medzinárodnej spolupráce

Vývoj a programová implementácia metód tzv. Protein Residue Network (PRN) optimalizovaných na identifikáciu aminokyselín kľúčových pri tvorbe a stabilizácii proteínových komplexov (V. Sládek).

Schopnosť proteínov tvoriť špecifické komplexy je jednou z ich základných a najdôležitejších vlastností tvoriacich podstatu vnútro a medzibunkovej komunikácie, a teda, mimo iného, aj základ fungovania imunitného systému. Je známe, že táto ich schopnosť je ovplyvniteľná mutáciami, čo je aj často využívané v laboratóriách na identifikáciu aminokyselín, zväčša na povrchu proteínu, sprostredkujúcich viazanie do komplexu. V uvedenej práci sme vyvinuli teoretickú (výpočtovú) techniku využívajúcu aspekty network (sieťových) teórií PRN špeciálne prispôbenej tejto úlohe. Ilustratívne povedané, jej základom je imitácia supermolekulového prístupu často využívaného v teoretickej chémii s adaptáciou do PRN modelov. Konkrétne, v prvom kroku vytvoríme network reprezentácie proteínového komplexu a aj izolovaných proteínových monomérov. Uzly v sieťach reprezentujú jednotlivé aminokyseliny (rezíduá) a hrany (resp. ich váhy) reprezentujú párové interakčné energie. Sieť modelujúcu topológiu komplexu môžeme definovať ako zjednotenie sietí izolovaných monomérov, tieto obsahujú všetky uzly a všetky vnútro-monomérne interakcie/hrany, a hrán-interakcií medzi monomérmi. Tieto sprostredkujúajú kontakt proteínov a sú teda prítomné iba v komplexe. Zároveň vytvoríme pomocnú sieť formou zjednotenia sietí izolovaných monomérov (bez interakcií medzi monomérmi). V oboch modeloch vypočítame tzv. centralitu, tj. „skóre“ reflektujúce význam jednotlivých uzlov v topológii danej siete. Rozdiel centralít v komplexe a v izolovaných monoméroch kvantifikuje významnosť aminokyselín pre stability komplexu. Metódu sme pomenovali Network Differential Analysis (NDA). Táto, ako aj mnoho ďalších metód sú implementované vo voľne dostupnom programovom balíku pyProGA (https://gitlab.com/Vlado_S/pyproga). Projekt APVV-19-0376, VEGA-2/0031/19, VEGA-2/0061/20. (Chemický ústav SAV).



Časť a) sieťový model komplexu je zjednotením sietí izolovaných monomérov G_A , G_B a hrán-interakcií medzi monomérmi G_{PPI} . Časť b) aminokyseliny identifikované ako štatisticky významné pomocou NDA v proteínovom komplexe UL141 - TRAIL R2. Výsledky sú v dobrej zhode s experimentálnymi údajmi.

1. SLADEK, Vladimír** - YAMAMOTO, Yuta - HARADA, Ryuhei - SHOJI, Mitsuo - SHIGETA, Yasuteru - SLADEK, Vladimír; pyProGA – A PyMOL plugin for protein residue network analysis, In *Plos ONE*, 2021, vol. 16 (7) e0255167, DOI: 10.1371/journal.pone.0255167, (2020: 3.240 - IF, Q1 - JCR, 0.999 - SJR, Q1 - SJR) <https://doi.org/10.1371/journal.pone.0255167> , eISSN 1932-6203.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2021/ doplňky z r. 2020
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	59 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	15 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	13 / 1
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	1 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2020 (zdroj JCR) <i>Počet článkov / doplnky</i>	28 / 1	30 / 0	8 / 0	2 / 0	68 / 1
Podľa SJR z r. 2020 (zdroj Scimago) <i>Počet článkov / doplnky</i>	42 / 1	22 / 0	5 / 0	5 / 0	74 / 1

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2020/ doplnky z r. 2019
Citácie vo WOS (1.1, 2.1)	2780 / 11
Citácie v SCOPUS (1.2, 2.2)	40 / 4
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	5 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	19/4
Prednášky a vývesky na národných vedeckých podujatiach	44/1

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy C, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

TKÁČ, Ján – BERTOK, Tomáš – LORENCOVÁ, Lenka – HÍREŠ, Michal – JÁNÉ, Eduard – PINKOVÁ-GAJDOŠOVÁ, Veronika – BLŠÁKOVÁ, Anna. Nanotechnology – based biosensing: Application cancer diagnostics. „Life is Biochemistry, Biochemistry is Life“ XXVI. ANNUAL CONGRESS of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section. Abstract Book p.74. 29 August - 1 September 2021, České Budějovice. ČR. ISBN: 978-80-907779-1-0

TKÁČ, Ján – BERTOK, Tomáš – LORENCOVÁ, Lenka – HÍREŠ, Michal – JÁNÉ, Eduard – PINKOVÁ-GAJDOŠOVÁ, Veronika – BLŠÁKOVÁ, Anna. Nanotechnology in biosensing and bioanalysis. The 5th International Conference on Nanomaterials: Fundamentals and Applications Abstract Book p.11. 10 October - 13 October 2021, Štrbské pleso. SR. ISBN: 978-80-574-0039-4

KOZMON, Stanislav - KOČA, Jaroslav. What we have learned on the carbohydrate - receptor interactions. In Jaroslav Koča Memorial Colloquium on Computational and Structural Biology, 30th November 2021, Brno, Czech Republic : Book of Abstracts. - Brno : Masaryk University, 2021, p. 13-14.

TVAROŠKA, Igor. Glycosyltransferases as targets for therapeutic intervention in cancer and inflammation: molecular modeling insights. In Jaroslav Koča Memorial Colloquium on Computational and Structural Biology, 30th November 2021, Brno, Czech Republic : Book of Abstracts. - Brno : Masaryk University, 2021, p. 15-16.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

VADKERTIOVÁ, Renáta, Pipiková, Jana, Schusterová, Hana, Horváthová, Ágnes, Stratilová, Barbora. Diversity of yeasts associated with meadow plants. In HBLA und BA für Wein- und Obstbau, Klosterneuburg, Austria (12.Hefetagung), 1.7.2021 - online.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2021

2.7.1. Vynálezy, na ktoré bol v roku 2021 udelený patent

a) na Slovensku

b) v zahraničí

Názov vynálezu: Biopreparát z *Exiguobacterium undae*, spôsob jeho výroby a jeho použitie

Číslo patentu: 288915

Dátum priority: 2.10.2019

Majiteľ / spolumajiteľ: Ústav molekulárnej biológie SAV, Chemický ústav SAV, Ústav hudobnej vedy SAV, Technická univerzita vo Zvolene

Pôvodcovia vynálezu: Baráth Peter, Pangallo Domenico, Bauerová Vladena, Bučková Mária, Puškárová Andrea, Kraková Lucia, Nagy Štefan, Štafura Andrej, Jeszeová Lenka, Čulík Martin Ing., PhD. [TUZVO]

2.7.2. Vynálezy prihlásené v roku 2021

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2021

b) udelené v roku 2021

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2021 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bučko Marek	VEGA	1
Klaudiny Jaroslav	VEGA	1
Kollárová Karin	VEGA	2
Kozmon Stanislav	VEGA	3
Lorencová Lenka	KEGA	1
Lux Alexander	VEGA	1
Paulovičová Ema	VEGA	2
Tkáč Ján	APVV	1
	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bella Maroš	0	0	1	0	0	0	0
Biely Peter	0	0	10	0	0	0	0
Bučko Marek	0	0	2	0	0	0	0
Capek Peter	0	0	1	0	0	0	0
Farkaš Pavol	0	0	1	0	0	1	0
Gemeiner Peter	0	0	3	0	0	0	0
Hricovíni Miloš	0	0	4	0	0	0	0
Katrlík Jaroslav	0	0	5	0	0	0	0
Kollárová Karin	0	0	11	0	0	0	0
Kóňa Juraj	0	0	2	0	0	0	0
Košťálová Zuzana	0	0	4	0	0	0	0
Kozmon Stanislav	0	0	1	0	0	0	0
Labancová Eva	0	0	0	0	1	0	0
Lorencová Lenka	0	0	1	0	0	0	0
Lux Alexander	0	0	10	0	0	0	0
Mastihuba Vladimír	0	0	3	0	0	0	0
Mastihubová Mária	0	0	2	0	0	0	0

Petruš Ladislav	0	0	1	0	0	0	0
Puchart Vladimír	0	0	3	0	0	0	0
Schusterová Hana	0	0	3	0	0	0	0
Sládek Vladimír	0	0	2	0	0	0	0
Šimkovic Ivan	0	0	5	0	0	0	0
Šoral Michal	0	0	1	0	0	0	0
Šuchová Katarína	0	0	4	0	0	0	0
Tkáč Ján	0	0	30	0	0	0	0
Vadkertiová Renáta	0	0	4	0	0	0	0
Vivodová Zuzana	0	0	4	0	0	0	0
Spolu	0	0	118	0	1	1	0

2.11. Iné informácie k vedeckej činnosti.

Z celkového počtu 75 vedeckých prác v časopisoch (oproti minulému roku nárast o 9) je 60 publikovaných v periodikách evidovaných v Current Contents Connect (CCC) (kategórie ADCA a ADDA), 15 prác je v časopisoch evidovaných vo Web of Science (WOS) a Scopus (kategórie ADMA, ADNA a ADNB).

Impakt faktor (IF) periódík, v ktorých sú publikácie uverejnené, sa pohybuje od 1.222 do 14.227 (v dvoch prípadoch presahuje 10.000, v šiestich prípadoch presahuje 7.000, v piatich prípadoch presahuje 6.000, v desiatich prípadoch presahuje 5.000, v šiestnástich prípadoch presahuje 4.000 a v pätnástich prípadoch presahuje hodnotu 3.000, pričom jeho priemerná hodnota 4.693 (oproti vlaňajšej hodnote nárast o 1.024) vo všetkých prípadoch presahuje (vo väčšine výrazne) hodnoty medián impakt faktora (MIF) pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.503 pre Biotechnology & Applied Microbiology, 2.181 pre Chemistry Organic, 3.167 pre Biochemistry & Molecular Biology, 1.812 pre Polymer Science a 2.845 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o quartiloch pre dané časopisy: podľa SJR sa 57.3 % z týchto časopisov nachádza v Q1 a 29.3 % v Q2 (spolu 86.6 % v Q1 a Q2). Podľa JCR je to 42.2 % v Q1 a 43.5 % v Q2 (spolu 85.5 % v Q1 a Q2).

Celkový počet citácií 2841 je nižší voči minulému roku (3417). Tento mierny pokles môže byť spôsobený celosvetovou pandémiou COVID-19, ale aj napriek tomu možno toto považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 68 príspevkov (prednášky a postre). Pokles oproti predchádzajúcim rokom bol spôsobený pandémiou COVID-19 (zrušenie takmer všetkých vedeckých konferencií a sympózií, obmedzené cestovanie, ...).

Prístup do elektronických databáz Clarivate (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (ScienceDirect, Wiley Online Library, De Gruyter, SpringerLink, Knovel, Sage Premier) značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Je poľutovaniahodné, že z financovaných databáz vypadli v roku 2020 databázy SciFinder a Reaxys (veľmi potrebné najmä pre oblasť organickej a analytickej chémie a biochémie). Apelujeme na kompetentných, aby na ďalšie obdobie opätovne zabezpečili prístup aj do týchto databáz. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet pochyb, značným prínosom pre pracovníkov CHÚ SAV by bolo získanie

prístupu do plných textov vybraných časopisov z databáz ACS Publications (American Chemical Society), RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

Značný počet vyžiadaných recenzií vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvaniami prednášok na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrnne sa riešilo 61 vedeckých projektov (plus 8 projektov ŠF EÚ) - z toho 45 domácich (VEGA - 22, APVV - 21, iné - 2) a 16 zahraničných (1 projekt 7. RP EÚ a 1 projekt H2020, 1 projekt JRP, 9 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS, 1 bilaterálny projekt a 1 iný projekt), čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť štandardnú prevádzku pracoviska.

Ústav trvale venuje pozornosť uplatneniu dosiahnutých výsledkov v priemyselnej praxi (priame kontakty s výrobnými podnikmi a súkromnými spoločnosťami, dohody o spolupráci, spoločné vedecko-výskumné projekty zamerané na realizáciu, účasť na výstavách), a to tak doma ako aj v zahraničí.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2021

Forma	Počet k 31.12.2021				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2021					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	8	13	4	2	3	12	0	3	0	0	0	0
Denná z iných zdrojov	1	1	0	0	1	1	0	0	0	0	0	0
Externá	0	3	0	1	0	1	0	1	0	0	0	0
Spolu	9	17	4	3	4	14	0	4	0	0	0	0
Z toho zahraničných	2	1	1	0	1	1	0	0	0	0	0	0
Súhrn	26		7		18		4		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2021 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2021 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Ágnes Horváthová	interné štúdium hrazené z prostriedkov SAV	9 / 2017	8 / 2021	4.1.22 biochémia	Ing. Eva Stratilová PhD., Chemický ústav SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Erika Chocholová	interné štúdium hrazené z prostriedkov SAV	9 / 2015	8 / 2021	5.2.25 biotechnológie	Ing. Tomáš Bertók PhD., Chemický ústav SAV, v. v. i.	Fakulta chemickej a potravinárskej technológie STU
Ing. Romana Köszagová	interné štúdium hrazené z prostriedkov SAV	9 / 2017	8 / 2021	4.1.22 biochémia	Ing. Jozef Nahálka PhD., Chemický ústav SAV, v. v. i.	Prírodovedecká fakulta UK
RNDr. Iveta Uhliariková	externé štúdium	9 / 2016	8 / 2021	4.1.17 analytická chémia	RNDr. Mária Matulová DrSc., Chemický ústav SAV, v. v. i.	Prírodovedecká fakulta UK

3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2021 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
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3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2021 (obhajoba leto 2021)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
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4	3	0	1	0
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Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	EGY/1, IND/1, PER/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.

Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

3.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Kód ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Chémia	1420	Univerzita Komenského, Prírodovedecká fakulta
Chémia	1420	STU, Fakulta chemickej a potravinárskej technológie
Biológia	1536	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	2908	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	2908	STU, Fakulta chemickej a potravinárskej technológie
Názov študijného programu (ŠP)	Kód ŠP	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Organická chémia	12408	Univerzita Komenského, Prírodovedecká fakulta
Organická chémia	4621	STU, Fakulta chemickej a potravinárskej technológie
Fyzikálna chémia	100620	Univerzita Komenského, Prírodovedecká fakulta
Fyzikálna chémia	4625	STU, Fakulta chemickej a potravinárskej technológie
Biochémia	12461	Univerzita Komenského, Prírodovedecká fakulta
Biochémia	4627	STU, Fakulta chemickej a potravinárskej technológie
Fyziológia rastlín	12438	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	12460	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	4626	STU, Fakulta chemickej a potravinárskej technológie
Makromolekulová chémia	4620	STU, Fakulta chemickej a potravinárskej technológie
Mikrobiológia	100750	Univerzita Komenského, Prírodovedecká fakulta

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov

<https://www.portalvs.sk/sk/studijne-odbory?from=menu1>.

Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3.

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
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RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Mgr. Danica Kučerová, PhD. (IIa)
Ing. Peter Gemeiner, DrSc. (biotechnológia)		Mgr. Ágnes Horváthová, PhD. (PhD., Univerzita Komenského v Bratislave)
Ing. Ján Hirsch, DrSc. (organická chémia)		Mgr. Erika Chocholová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Miloš Hricovíni, PhD. (chemická fyzika)		Ing. Romana Köszagová, PhD. (PhD., Univerzita Komenského v Bratislave)
Ing. Jaroslav Katrlík, PhD. (chémia)		Mgr. Eva Labancová, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Karin Kollárová, PhD. (fyziológia rastlín)		Mgr. Maroš Laho, PhD. (PhD., Univerzita Komenského v Bratislave)
Ing. Miroslav Kooš, DrSc. (organická chémia)		Mgr. Ondrej Penzeš (Mgr., Vysoká škola zdravotníctva a sociálnej práce sv. Alžbety v Bratislave)
Mgr. Stanislav Kozmon, PhD. (fyzikálna chémia)		RNDr. Iveta Uhliariková, PhD. (PhD., Univerzita Komenského v Bratislave)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		
Ing. Vladimír Mastihuba, PhD. (chémia a technológia požívatín)		
Ing. Vladimír Mastihuba, PhD. (biotechnológia)		
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		
Ing. Ján Tkáč, DrSc. (biochémia)		
Ing. Ján Tkáč, DrSc. (biotechnológia)		
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2021

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	0	10	0
Celkový počet hodín v r. 2021	32	0	715	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe D.

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	9
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	11
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	16
4.	Počet školených doktorandov (aj pre iné inštitúcie)	30
5.	Počet oponovaných dizertačných a habilitačných prác	18
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	13
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	8
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

3.9. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV mal v roku 2021 akreditované 2 študijné odbory doktorandského štúdia na Fakulte chemickej a potravinárskej technológie STU (1420 Chémia a 2908 Biotechnológie) a 3 študijné odbory doktorandského štúdia Prírodovedeckej fakulty UK v Bratislave (1420 Chémia, 2908 Biotechnológie a 1536 Biológia). Na základe podpísaných dohôd s týmito fakultami má ústav právo školiť (ako EVI) v doktorandských študijných programoch 4621 organická chémia, 4625 fyzikálna chémia, 4627 biochémia, 4626 biotechnológie a 4620 makromolekulová chémia na FCHPT STU a v študijných programoch 12408 organická chémia, 100620 fyzikálna chémia, 12461 biochémia, 12460 biotechnológie, 12438 fyziológia rastlín a 100750 mikrobiológia na PriF UK v Bratislave.

V priebehu roka 2021 sa na CHÚ SAV školilo celkom 26 doktorandov (z toho 7 novoprijatí - 6 v dennej forme štúdia a 1 v externej forme štúdia), z ktorých 4 úspešne obhájili doktorandskú dizertačnú prácu.

Zvýšil sa počet záujemcov o doktorandské štúdium na ústave, pričom najväčší záujem zo strany študentov je najmä o študijné odbory biotechnológie a biochémia. Dlhodobu menší záujem zo strany študentov je o ostatné odbory (fyzikálna chémia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných

školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov, a týchto si prioritne prijímajú na doktorandské štúdium jednotlivé fakulty.

Vďaka zahraničnému grantu (projekt FH2020-MSCA-ITN, Dr. Tkáč) boli na doktorandské štúdium v roku 2019 prijatí dvaja zahraniční doktorandi (MSc. Aguedo Ariza z Peru a MSc. Kundalia z Indie), ktorí v roku 2021 úspešne absolvovali doktorandskú dizertačnú skúšku.

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2021, sa dá predpokladať, že v roku 2022 by malo doktorandskú dizertačnú prácu obhajovať 7 doktorandov.

Svoje požiadavky, návrhy, resp. pripomienky majú možnosť doktorandi predniesť, okrem iného, aj na Ústavnej rade prostredníctvom svojho voleného zástupcu.

Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Oceniť treba najmä ich vedecko-popularizačné aktivity. Viacerí sa aktívne zapájajú aj do pedagogickej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity v rámci Týždňa vedy a techniky na Slovensku a Noci výskumníkov.

Iná pedagogická činnosť

Ing. Anna Blšáková - Vedenie študenta, Joshua Bradshaw, na letnej stáži (od 21.6.2021 do 2.7.2021).

RNDr. Karin Kollárová, PhD. - Vedenie letnej praxe a práce SOČ (Nad'a Urbaníková, 3.ročník Gymnázium svätého Františka z Asissi, Žilina: „Vplyv oligosacharidov na rast kukurice v podmienkach sucha“)

RNDr. Karin Kollárová, PhD. - Vedenie predmetu Diplomová práca 2 (1. roč. Mgr. štúdia, študijný odbor Biológia, študijný program Fyziológia rastlín, Prírodovedecká fakulta UK, Katedra fyziológie rastlín). Počet hodín - LS: 60

RNDr. Karin Kollárová, PhD. - Vedenie predmetu Diplomová práca 3 (2. roč. Mgr. štúdia, študijný odbor Biológia, študijný program Fyziológia rastlín, Prírodovedecká fakulta UK, Katedra fyziológie rastlín) Počet hodín - ZS: 65

Danica Kučerová, PhD. - Vedenie predmetu Bakalárska práca z fyziológie rastlín (3. roč. Bc. štúdia, študijný odbor Biológia, študijný program Fyziológia rastlín, Prírodovedecká fakulta UK, Katedra fyziológie rastlín) Počet hodín za semester - LS: 110

Mgr. Eva Labancová, PhD. - Vedenie predmetu Bakalárska práca z fyziológie rastlín (3. roč. Bc. štúdia, študijný odbor Biológia, študijný program Fyziológia rastlín, Prírodovedecká fakulta UK, Katedra fyziológie rastlín) Počet hodín za semester - LS: 110

RNDr. Alena Holázová, PhD.- práca SOČ, študentka Tamara Kubičková, Gymnázium Bilíková, téma: Sledovanie účinnosti inhibítorov proteáz pre SARs-CoV-2.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2021 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 11.05.-14.05.2021

V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2022.

Chémia smerom k biológii a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 06.09.-10.09.2021

V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2022.

8. medzinárodné sympóziu o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 12.09.-16.09.2021

V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2022.

15. Bratislavské sympóziu o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 11.10.-15.10.2021

V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2022.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2022 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

47th Annual Conference on Yeasts/47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 16.05.-20.05.2022, (Renáta Vadkertiová, 02/ 59410216, 02/ 59410262, chemvad@savba.sk)

8th International Symposium on Structure and Function of Roots/8. Medzinárodné sympóziu o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 12.06.-16.06.2022, (Alexander Lux, 02/ 60296457, alexander.lux@uniba.sk)

15th Bratislava Symposium on Saccharides/15. Bratislavské sympóziu o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 20.06.-24.06.2022, (Jaroslav Katrik, 02/ 59410258, chemjkat@savba.sk)

Chemistry towards Biology (CTB10) and INSTRUCT-ULTRA Structural biology meeting/Chémia smerom k biológii a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 11.09.-14.09.2022, (Miloš Hricovíni, 02/ 59410323, 02/ 59410256, chemilos@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Baráth Marek	0	0	1
Biely Peter	1	0	0
Blahutová Jana	0	1	0

Katrlík Jaroslav	0	0	1
Kollárová Karin	0	2	0
Kučerová Danica	0	1	0
Lux Alexander	0	0	1
Šípošová Kristína	0	1	0
Vivodová Zuzana	0	2	0
Spolu	1	7	3

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

RNDr. Peter Biely, DrSc.

International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))

Mgr. Peter Capek, PhD.

Management Committee COST Action CA18238 (funkcia: národný zástupca)

Ing. Pavol Farkaš, PhD.

Management Committee CA COST Action CA16231 (funkcia: národný zástupca)

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

European Carbohydrate Organization (funkcia: národný reprezentant)

INSTRUCT-ERIC (European Research Infrastructure Consortium) (funkcia: zástupca SR)

International Carbohydrate Organization (funkcia: národný reprezentant)

Management Committee COST Action CA18103 (funkcia: národný zástupca)

Ing. Zdenka Hromádková, PhD.

Management Committee COST Action CA18224 (funkcia: národný zástupca)

Mgr. Elena Karnišová Potocká, PhD.

Management Committee COST Action CA20127 (funkcia: národný zástupca)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)

Management Committee CA COST Action CA16113 (funkcia: národný zástupca)

Management Committee COST Action CA18103 (funkcia: MC Substitute)

Management Committee COST Action CA18132 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Koóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

Ing. Zuzana Košťálová, PhD.

Management Committee COST Action CA18101 (funkcia: národný zástupca)

prof. RNDr. Alexander Lux, CSc.

COST action CA19116 Trace Metal Metabolism on Plants (funkcia: zástupca v MC)

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)

International Society for Silicon in Agriculture (ISSAG) (funkcia: člen)

Japanese Society for Plant Roots (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Management Committee COST Action CA18101 (funkcia: MC Substitute)

Management Committee COST Action CA18103 (funkcia: národný zástupca)

Management Committee FPS COST Action CA17128 (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)

Management Committee COST Action CA18132 (funkcia: MC Substitute)

Management Committee COST Action CA18224 (funkcia: národný zástupca)

RNDr. Ján Mucha, CSc.

Steering Committee of the ESF RNP in LEE „The EuroGlycosciences Forum” (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

American Society for Mass Spectrometry (funkcia: člen)

Arbeitsgruppe für Molekül-Spektroskopie der Österreichischen Gesellschaft für Analytische Chemie (funkcia: člen)

International Society for Mass Spectrometry (funkcia: reprezentant Slovenska)

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Hana Schusterová, PhD.

Československá spoločnosť mikrobiologická (funkcia: tajomníčka výboru Komisie pre kvasinky)

Ing. Katarína Šuchová, PhD.

Management Committee CA COST Action CA18229 (funkcia: národný zástupca)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)

Bioelectrochemical Society (funkcia: člen)

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Management Committee COST Action CA18103 (funkcia: MC Substitute)

Management Committee COST Action CA18132 (funkcia: MC Substitute)

Ing. Igor Tvaroška, DrSc.

International Steering Committee of the International Consortium on Anti-Virals (ISC ICAV)
(funkcia: člen)

Ing. Renáta Vadkertiová, PhD.

Československá spoločnosť mikrobiologická (funkcia: podpredsedníčka výboru Komisie pre kvasinky)

Zbierka kultúr kvasiniek

- člen European Culture Collections' Organization (ECCO)
- člen World Federation for Culture Collections (WFCC)

Chemický ústav SAV

- Instruct-ERIC (European Research Infrastructure Consortium)
- CDG & Allies – PPAIN (Congenital Disorders of Glycosylation & Allies – Professionals and Patient Associations International Network)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Katrlík Jaroslav	CINECA-FISR	4
	HORIZON-EIC-2021-PATHFINDEROPEN-01	4
	HORIZON-EIC-2021-TRANSITIONOPEN-01	4
	Junior project of University of Insubria	1
	PRIN 2020	1
Vadkertiová Renáta	The PRIN (Research Projects of National Interest) Program, Taliansko, call 2020	3

4.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Výsledky získané z projektovej MVTS (projekty COST, bilaterálne projekty, V4-

Korea Joint Reseach Program, SAS-MOST-JRP, ...) v oblasti organických syntéz, glyko-biomarkerov pre medicínu (rôzne druhy rakoviny), glykonanomateriálov, výskumu glykánov a iných oblastiach, rezultovali v množstve spoločných publikácií a príspevkov na vedeckých podujatiach.

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTs pracovníkom ústavu najmä dofinancovanie niektorých projektov EÚ, využitie špičkovej prístrojovej techniky (analytickej, výpočtovej) a inej infraštruktúry v zahraničí ako aj prístup k potrebným, doma chýbajúcim interdisciplinárnym metodikám, nedostupnej literatúre (knihy, patenty) a materiálnemu vybaveniu (chemikálie, laboratórne zariadenia a pomôcky, ...). V rámci uskutočnenej mobility získavajú pracovníci ústavu veľmi cenné experimentálne skúsenosti, zručnosti a teoretické poznatky z najmodernejších metodík využívaných v súčasnosti pri riešení vedeckých problémov.

Prostredníctvom MVTs sa viacerí riešitelia projektov zúčastňujú významných zahraničných vedeckých podujatí (konferencie, semináre, workshopy) a nadväzujú nové kontakty a spolupráce. Jednej doktorandke umožnila MVTs trojmesačnú stáž na zahraničnom pracovisku. Viacerí doktorandi využívajú možnosť krátkodobých pobytov na partnerských pracoviskách. Kontakty vytvorené v rámci riešenia projektov MVTs umožnili jednému mladému vedeckému pracovníkovi postdoktorandský pobyt na Univerzita NOVA v Lisabone. Žiaľ, kvôli pretrvávajúcej pandémie COVID-19 boli kooperačné aktivity v roku 2021 značne obmedzené.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Comments and recommendations for further improvement of the institute

- The large number of expensive new sophisticated instruments obtained from the structural funds is seen as problematic, because follow up costs for management, maintenance and staff training that will be required to operate the instruments efficiently and at their full capacity will be a considerable burden on the budget of the institute. This is particularly important as many of the instruments will be out-dated in a few years due to continuing technical developments, so that operating the instruments at their full capacity should be a near-term priority. A strategy for optimal use of this infrastructure within the SAS should be developed.
- An international scientific advisory board should be established.
- Hosting an ERC starting grant is a highlight of the institute. The research direction opened by this project should be continued at the institute after the ending of the grant period.
- Further improving output in high-level scientific journal publications and hiring younger personnel as scientific staff to decrease average age of scientists should be achieved.
- Eight scientific and two more service-oriented departments is a rather high number of departments. Possibilities to consolidate different departments should be considered.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

A. Zvyšovanie kvantity a kvality výstupov výskumu

- modifikovať existujúci stimulačný model odmeňovania publikačných výstupov jednotlivcov, ktorý bude okrem kategórií karentovaných publikácií ADC a ADD zohľadňovať aj publikácie v impaktovaných nekarentovaných časopisoch podľa WOS a SCOPUS (t.j. kategórie ADM a ADN) ako aj kvartil časopisu;
 - na základe pravidelného ročného vyhodnocovania publikačnej činnosti jednotlivcov (priemer za predchádzajúce 4 roky) upravovať osobné hodnotenie a zaradovanie do platových tried;
 - vyhodnocovanie publikačnej činnosti zohľadňovať aj pri možnosti vypisovania tém doktorandských prác resp. pri žiadostiach o pridelenie doktoranda alebo postdoktoranda.
- Všetky uvedené opatrenia sa v roku 2021 priebežne realizovali a ďalej sa v nich pokračuje. Medziročne vzrástol počet publikácií v kvalitných vedeckých časopisoch (kvartily prevažne Q1 a Q2 ako aj nárast hodnoty pre Medián Impakt Faktor, vypočítanej pre časopisy, v ktorých boli články publikované).

B. Zvyšovanie kvality doktorandského štúdia

- vypracovať interné kritériá CHÚ SAV pre výber školiteľov; podmienkou je aktívna a kvalitná publikačná činnosť a existencia projektu, v rámci ktorého sa PhD štúdium realizuje;
 - venovať vyššiu pozornosť témam doktorandských prác z hľadiska obsahu, aktuálnosti a experimentálneho zabezpečenia;
 - výsledky doktorandov a stav doktorandského štúdia naďalej pravidelne vyhodnocovať;
 - zvyšovať podiel zahraničných doktorandov; umožniť stáže našich doktorandov v prestížnych laboratóriách a recipročne umožniť stáže zahraničných doktorandov na CHÚ SAV v nadväznosti na uzavreté dohody o spolupráci SAV s kvalitnými univerzitami.
- Všetky uvedené opatrenia sa v roku 2021 priebežne realizovali a ďalej sa v nich pokračuje.

C. Kariérny rast postdoktorandov a výskumníkov

- vypracovať podmienky kariérneho rastu postdoktorandov;
- vypracovať podmienky získania stálej pozície.

Tieto podmienky zatiaľ vypracované neboli, ale pre potreby ústavu kariérny rast a získanie stálej

pozície zabezpečuje vedenie ústavu v súčinnosti s vedeckou radou.

D. Zvyšovanie úspešnosti v projektovej činnosti

- iniciovať a stimulovať podávanie projektov ERC, ERA, Horizon 2020 a pod., osobitne v kategórii starting a consolidator grant, identifikovať potenciálnych podávateľov a pracovať s nimi;
 - pravidelne ročne analyzovať aktivitu organizácie v podávaní projektov;
 - pridelenie PhD študentov podmieňovať získaním grantov u potenciálnych školiťov.
- Všetky uvedené opatrenia sa v roku 2021 realizovali a ďalej sa v nich pokračuje.

E. Manažment ústavu

- vytvoriť nezávislý medzinárodný poradný výbor (advisory board);
 - rozvíjať multidisciplinárny výskum v spolupráci s inými vedeckými organizáciami SAV a mimo SAV;
 - prehodnocovať činnosť jednotlivých oddelení a optimalizovať zloženie výskumných kolektívov.
- Medzinárodný poradný výbor bol vytvorený začiatkom roka 2021. Ostatné opatrenia sa v roku 2020 realizovali priebežne a ďalej sa v nich pokračuje.

F. Nakladanie s duševným vlastníctvom

- pripraviť vlastné pravidlá pre nakladanie s duševným vlastníctvom (patenty a pod.) resp. aplikovať takéto pravidlá spoločne pre celú SAV a stimulovať patentové aktivity vedeckých pracovníkov.
- Vlastné pravidlá zatiaľ vypracované neboli a aplikujú sa centrálné usmernenia zo SAV. Stimulácia sa rieši formou odmien.

G. Financovanie a riadenie výskumných infraštruktúr

- realizovať pravidelný audit využitia výskumnej infraštruktúry získanej za ostatných 10 rokov a odstrániť zistené nedostatky;
- pravidelne aktualizovať informácie o možnom použití významnejších zariadení pre vonkajších záujemcov tak zo SAV, ako aj mimo SAV;
- participovať na vypracovaní stratégie zapojenia sa svojou infraštruktúrou do tzv. core facility v rámci areálu SAV, prípadne v rámci ESFRI.

Prvé dve opatrenia sa v roku 2021 priebežne realizovali a ďalej sa v nich pokračuje. V súvislosti so zapojením sa do tzv. core facility očakávame, že sa situácia bude riešiť na celoakademickej úrovni a ústav je pripravený sa do týchto aktivít zapojiť.

5.3. Aktualizácia Akčného plánu organizácie v roku 2021

V roku 2021 nedošlo k výraznejšej aktualizácii Akčného plánu a priebežne sa plnili alebo modifikovali opatrenia prijaté v minulom období.

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria vedeckú náplň domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje vypracovávaniu projektov a grantových žiadostí, a to nielen v rámci domácich agentúr VEGA a APVV a spolupráce s priemyselnou sférou, ale aj v rámci MVTS, a to najmä vo vedeckých programoch EÚ, bilaterálnych MAD, medziústavnej spolupráce. Ústav sa výrazne zapája aj do výziev OP ŠF EÚ. V roku 2015 získal CHÚ SAV nenávratný finančný príspevok na dva projekty: jeden v rámci výzvy OPVaV-2015/3.1/01-SORO pre bratislavský samosprávny kraj (ca 8.32 mil. €) a jeden v rámci výzvy OPVaV-2015/1.1/03-SORO pre mimobratislavské kraje (ca 9.86 mil. €), v rámci ktorých bol ústav vybavený unikátnou prístrojovou technikou. V roku 2016 sa ústav zapojil (ako partner v 3 projektoch) do dvoch nových výziev ŠF EÚ (OPVaI-VA/DP/2016/1.2.1-03 a OPVaI-VA/DP/2016/1.2.1-02). Dva projekty boli úspešné, ale v roku 2017 boli tieto výzvy zrušené. Ústav sa následne zapojil do výziev (Výskumno-vývojové kapacity, RIS3, SPVVC a DSV) vyhlásených v rokoch 2018 a 2019 (v 3 projektoch ako

žiadateľ a v 4 projektoch ako partner). Z týchto projektov bolo 5 schválených na financovanie. V roku 2020 sa ústav zapojil (ako partner) do dvoch výziev (COVID-19). Oba podané projekty boli úspešné a schválené na financovanie so začiatkom riešenia v roku 2021.

Organizačné členenie pracoviska na osem vedeckých oddelení, ktoré spolu tvoria Centrum glykomiky, a tri spoločné-nevedecké oddelenia reflektuje hlavné smery výskumu a požiadavky na jeho zabezpečenie. Vývoj v zameraní výskumu v ostatných rokoch (orientácia na biomedicínsky výskum) však naznačuje, že postupne bude žiadúca určitá reorganizácia jednotlivých oddelení. V rámci organizačnej štruktúry sa uplatňuje dvojstupňové riadenie: vedenie ústavu – vedúci vedeckých a spoločných-nevedeckých oddelení.

Základnými dokumentmi pracoviska sú: Zriaďovacia listina Chemického ústavu SAV č. 951/0214/2003 zo dňa 11. decembra 2003 a Dodatok č. 1 (z 19. 12. 2008) k Zriaďovacej listine Chemického ústavu SAV č. 448/G/12/2008 (ktorým sa s účinnosťou od 1. 1. 2009 mení forma hospodárenia z rozpočtovej na príspevkovú), Pracovný poriadok, Organizačný poriadok, Platový poriadok, Bezpečnostné predpisy, Traumatologický plán, Pokyny pre kontrolnú činnosť, Dohoda medzi ústavmi SAV sídlacimi v budove spravcovanej Chemickým ústavom a tiež Kolektívna zmluva so Základnou organizáciou odborového zväzu. V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008, 2009 a 2014 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV a získali príslušné oprávnenia od kompetentných orgánov. V roku 2018 boli aktualizované dokumenty súvisiace s civilnou ochranou obyvateľstva a vypracovávali sa dokumenty, súvisiace s ochranou osobných údajov (GDPR).

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na ca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedecí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza a kompenzačný príspevok. Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov CHÚ SAV. V roku 2021 ústav zamestnal 3 mladých postdoktorandov (do jedného roka od ukončenia PhD štúdia) a v rámci novej schémy podpory prijímania mladých postdoktorandov v SAV získal pre jedného z nich (Dr. Koszegová) finančnú podporu od roku 2021. V 3. výzve programu Granty pre doktorandov SAV (DoktoGrant) bol úspešný 1 doktorand (Ing. Pančík) a získal grant vo výške 2000 € na podporu svojho vedeckého projektu. V snahe získať mladých adeptov vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí, ...).

Z prostriedkov ŠF EÚ (projekt "Kapacity") je ambíciou prijať niekoľko doktorandov nad limit stanovený pre ústav z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU

Oblasť spolupráce: Spoločné pracovisko metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu

Sídlo spoločného pracoviska (ak je vytvorené): Fakulta biotechnológie a potravinárstva SPU v Nitre

Začiatok spolupráce: 2009

Zhodnotenie: Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a potravinárstva SPU v Nitre podpísali dokument „Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu“. Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je príprava a realizácia vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky a výchova odborných, vedeckých a pedagogických pracovníkov. V rokoch 2011 a 2013 pracovisko implementovalo projekty ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“ a "Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ (výzva OPVaV-2013/1.1/02-SORO, 2.88 mil. €), v rámci ktorých sa obstarala špičková prístrojová technika.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV

Začiatok spolupráce: 2007

Zhodnotenie: Dňa 11. mája 2007 bol podpísaný dokument „Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku“ (NC NMR). Zmluvu podpísali: FCHPT, STU v Bratislave, FEI TU a UPJŠ v Košiciach, PriF UK, Chemický ústav SAV a Ústav merania SAV v Bratislave. NC NMR bolo vytvorené za účelom zabezpečovania potrieb NMR služieb v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami, zvyšovania vedomostného potenciálu v oblasti NMR. Sieť NC NMR tvoria Centrá NMR. Na CHÚ SAV je lokalizované Centrum pre štúdium dynamiky a interakcií biomolekúl, ktoré bolo v roku 2009 vybavené NMR prístrojmi Varian (600 MHz a 400 MHz). V roku 2015 bolo pracovisko vybavené (z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008, ktorého nositeľom bol CHÚ SAV) špičkovými NMR prístrojmi Bruker: NMR Spectrometer Avance III HD 600MHz (2.344 mil. €) a Avance III HD 400MHz (1.021 mil. €).

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy

Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV

Začiatok spolupráce: 1995

Zhodnotenie: Združené laboratórium Fourier Transform Infrared (FTIR) Spectroscopy, založené v roku 1995, je spoločným pracoviskom Chemického ústavu SAV, Ústavu anorganickej chémie SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Vybavené je spektrometrom NICOLET 6700, zakúpeným v roku 2008 z prostriedkov projektu

MACHINA a slúži pre potreby výskumu, na pedagogické účely ako aj základné servisné merania. V r. 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. Z prostriedkov ŠF EÚ získalo pracovisko v r. 2012 disperzný DXR Raman mikroskop a v r. 2015 bolo pracovisko vybavené špičkovými prístrojmi: FTIR Mikroskop Nicolet iN10 a FTIR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FTIR Raman (Thermo Fisher Scientific) z prostriedkov ŠF EÚ.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Riešenie spoločných projektov VEGA a APVV - Katedra fyziológie rastlín
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2007
Zhodnotenie: Výsledkom spolupráce je účasť na nových výzvach v rámci APVV, vedenie 2 dizertačných prác.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Vid' informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Oblasť spolupráce: Riešenie spoločných projektov VEGA a APVV - Katedra fyziológie rastlín
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2007
Zhodnotenie: Výsledkom spolupráce je účasť na nových výzvach v rámci APVV, vedenie 2 dizertačných prác.

Názov organizácie: Ústav anorganickej chémie SAV, v. v. i.

Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy

Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV

Začiatok spolupráce: 1995

Zhodnotenie: Vid' informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov organizácie: Ústav merania SAV, v. v. i.

Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV

Začiatok spolupráce: 2007

Zhodnotenie: Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Názov inštitúcie: Axxence s.r.o.

Oblasť spolupráce: Axxence Park-Hala 1: Aplikovaný výskum v oblasti priemyselnej biokatalýzy

Sídlo spoločného pracoviska (ak je vytvorené): Axxence s.r.o., Bratislava, Axxence Park - Hala 1

Začiatok spolupráce: 2013

Zhodnotenie: Dňa 4. marca 2013 Chemický ústav SAV a súkromná spoločnosť Axxence s.r.o. v Bratislave podpísali dokument „Zmluva o spoločnom pracovisku“ vyplývajúci z realizácie projektu Aplikovaný výskum v oblasti priemyselnej biokatalýzy. Cieľom spoločného pracoviska, ktoré sa nachádza v priestoroch „Axxence Park“ označených ako Hala 1, je poskytovanie komplexnej infraštruktúry pre efektívnejší aplikovaný výskum procesu izolácie prírodných aróm a ich finálnej purifikácie. Súčasťou spoločného pracoviska je zariadenie na vákuovú rektifikáciu poskytujúce vysokoúčinnú separáciu skúmaných látok. V minulosti sa riešili spoločné vedecké projekty.

Názov inštitúcie: Saneca Pharmaceuticals a.s., Hlohovec

Oblasť spolupráce: Saneca-Infraštruktúra-HL: Aplikovaný výskum v oblasti biomedicíny

Sídlo spoločného pracoviska (ak je vytvorené): Saneca Pharmaceuticals a.s., Hlohovec

Začiatok spolupráce: 2015

Zhodnotenie: Dňa 17. augusta 2015 Chemický ústav SAV a súkromná spoločnosť Saneca Pharmaceuticals a.s., Hlohovec podpísali dokument „Zmluva o spolupráci“ vyplývajúci z realizácie projektu ŠF EÚ "Technická infraštruktúra výskumného pracoviska" s cieľom vytvorenia a vybavenia pracoviska, ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie a izolácie dôležitých prírodných látok, resp. ich prekursorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko v r. 2015 vybavené modernou prístrojovou technikou v hodnote 9.86 mil. €. Túto v súčasnosti využívajú všetky subjekty Združenia právnických osôb Omics4Health (O4H), ktoré vzniklo v r. 2015 (CHÚ SAV, Ústav experimentálnej farmakológie a toxikológie SAV a súkromné spoločnosti Saneca Pharmaceuticals a.s., Biosynth, s.r.o. a SITNO PHARMA s.r.o.). Podaný bol spoločný projekt do výzvy OP ŠF (COVID-19).

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: CliniMARK: 'Dobré biomarkerové praktiky' pre zvýšenie počtu klinicky validovaných biomarkerov

Agentúra: COST

číslo projektu: COST Action CA16113

Spolupracujúce inštitúcie: : Erasmus University Medical Center, Holandsko kráľovstvo + inštitúcie z ďalších 33 európskych krajín

Koordinátor projektu: Theo M. Luider

Začiatok spolupráce: 2017

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: Imobilizácia a koimobilizácia viabilných celobunkových biokatalyzátorov s enzýmovými kaskádami pre produkciu chemických špecialít, vývoj metód ich charakterizácie a bioreaktorové inžinierstvo

Agentúra: APVV

číslo projektu: APVV-20-0272

Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie

Koordinátor projektu: Ing. Marek Bučko, PhD.

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov

Agentúra: APVV

číslo projektu: APVV-18-0188

Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU

Koordinátor projektu: Ing. Vladimír Mastihuba, PhD.

Začiatok spolupráce: 2019

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií

Agentúra: VEGA

číslo projektu: 1/0763/19

Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU

Koordinátor projektu: Ing. Michal Šoral, PhD.

Začiatok spolupráce: 2019

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácií nových imobilizovaných biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít

Agentúra: VEGA

číslo projektu: 2/0130/20

Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU

Koordinátor projektu: Ing. Marek Bučko, PhD.

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Viacľeková rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin

Agentúra: APVV

číslo projektu: APVV-19-0093

Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU

Koordinátor projektu: Ing. Zdenka Sulová, DrSc.

Začiatok spolupráce: 2020

Koniec spolupráce: 2024

Zhodnotenie:

Názov projektu: Nové antivirálne liečivá: Dizajn, syntéza a testovanie aktivity nových špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2

Agentúra: APVV

číslo projektu: PP-COVID-20-0010

Spolupracujúce inštitúcie: Fakulta prírodných vied, Univerzita sv. Cyrila a Metoda v Trnave; Farmaceutická fakulta UK; Prírodovedecká fakulta UK

Koordinátor projektu: Univerzita sv. Cyrila a Metoda v Trnave (prof. Ing. Stanislav Miertuš, DrSc.)

Začiatok spolupráce: 2020

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok

Agentúra: APVV

číslo projektu: APVV-17-0239

Spolupracujúce inštitúcie: Farmaceutická fakulta UK; ICARST, n.o.

Koordinátor projektu: doc. Ing. Vladimír Frečer, DrSc.

Začiatok spolupráce: 2018

Koniec spolupráce: 2022

Zhodnotenie:

Názov projektu: Syntéza nanočastíc oxidov prechodných kovov, ich plazmové spracovanie a štúdium fotoelektrických a fotokatalytických vlastností

Agentúra: Mobility/SAV – AV ČR

číslo projektu: SAV – AV ČR-21-09

Spolupracujúce inštitúcie: Fyzikální ústav Akademie věd ČR

Koordinátor projektu: Ing. Júlia Mičová, PhD.

Začiatok spolupráce: 2021

Koniec spolupráce: 2022

Zhodnotenie:

Názov projektu: Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Agentúra: Výskumná agentúra

číslo projektu: 313011V578

Spolupracujúce inštitúcie: GENETON s.r.o.; Medirex Group Academy, n.o.; POWERTEC s. r. o.; Slovgen s.r.o.; Univerzitná nemocnica s poliklinikou Milosrdní bratia

Koordinátor projektu: Univerzita Komenského v Bratislave (RNDr. Tomáš Szemes, PhD.)

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Analýza glykoforiem transferínu ako potencionálnych účinných biomarkerov pre

medicínu

Agentúra: APVV

číslo projektu: APVV-SK-SRB-18-0028

Spolupracujúce inštitúcie: Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Serbia

Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.

Začiatok spolupráce: 2019

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky

Agentúra: APVV

číslo projektu: APVV DS-FR-19-0034

Spolupracujúce inštitúcie: Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Srbsko; Vienna Metabolomics Center, University of Vienna, Rakúsko

Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov

Agentúra: SAS-MOST-JRP Program

číslo projektu: SAS-MOST/JRP/2019/882/GM-INHIB

Spolupracujúce inštitúcie: Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan

Koordinátor projektu: SAS, Academia Sinica (Dr. Koóš, Prof. Doo Soo Chung)

Začiatok spolupráce: 2020

Koniec spolupráce: 2022

Zhodnotenie:

Názov projektu: Biočipové systémy na cieleňú glykánovú analýzu biomarkerov pre biomedicínske a biotechnologické aplikácie

Agentúra: APVV

číslo projektu: APVV-20-0243

Spolupracujúce inštitúcie: Lekárska fakulta UK

Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Analýza príčin úmrtia pacientov a optimalizácia diferenciálnej diagnostiky v súvislosti s infekciou SARS-CoV-2 v Slovenskej republike

Agentúra: APVV

číslo projektu: PP-COVID-20-0051

Spolupracujúce inštitúcie: Lekárska fakulta UK v Bratislave; Prírodovedecká fakulta UK; Vedecký park UK

Koordinátor projektu: prof. MUDr. Pavel Babál, CSc.

Začiatok spolupráce: 2020

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa

Agentúra: Výskumná agentúra

číslo projektu: 313010W428

Spolupracujúce inštitúcie: Medirex Group Academy, n.o., Bratislava (MUDr. Pavol Janega, PhD.)

Koordinátor projektu: Medirex Group Academy, n.o.

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby

Agentúra: Výskumná agentúra

číslo projektu: 313011V358

Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; MEDICAL VISION; PANARA, s.r.o.; DB Biotech, a.s.; Biomedical Engineering, s.r.o.; REGENMED, spol. s r. o.

Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu

Agentúra: Výskumná agentúra

číslo projektu: 313011W410

Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; REGENMED, spol. s r. o.

Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie:

Názov projektu: Dizajn nových antituberkulózných látok pomocou výpočtových metód a ich experimentálna evaluácia

Agentúra: APVV

číslo projektu: APVV-20-0230

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK

Koordinátor projektu: Chemický ústav SAV

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách

Agentúra: APVV

číslo projektu: APVV-17-0164

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK

Koordinátor projektu: RNDr. Marek Vaculík, PhD.

Začiatok spolupráce: 2018

Koniec spolupráce: 2022

Zhodnotenie:

Názov projektu: Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy

Agentúra: VEGA

číslo projektu: 1/0787/18

Spolupracujúce inštitúcie: Prirodovedecká fakulta UK

Koordinátor projektu: doc. RNDr. Marián Masár, PhD.

Začiatok spolupráce: 2018

Koniec spolupráce: 2021

Zhodnotenie:

Názov projektu: GLYCONanoPROBES - Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a cielenú terapiu

Agentúra: COST

číslo projektu: COST Action CA18132

Spolupracujúce inštitúcie: University of Bristol, Spojené kráľovstvo + inštitúcie z ďalších 29 európskych krajín

Koordinátor projektu: M. Carmen Galan.

Začiatok spolupráce: 2019

Koniec spolupráce: 2023

Zhodnotenie:

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Názov inštitúcie: Fakulta elektrotechnická ČVUT v Praze - neformálna spolupráca. **Zameranie:** Syntéza nanočastíc na báze ZnO. **Zhodnotenie:** Výsledkom spolupráce je príspevok v zahraničnom karentovanom impactovanom časopise.

Spolupracujúca inštitúcia: Botanický ústav Akadémie vied ČR, Třeboň, Česko -neformálna spolupráca. **Zameranie:** Výskum extracelulárnych biopolymérov produkovaných mikroskopickými riasami. **Zhodnotenie:** Výsledkom spolupráce je 1 práca zaslaná do redakcie.

Spolupracujúca inštitúcia: Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa (FCT NOVA), Division of Chemistry, Lisboa, Portugal – neformálna spolupráca. **Zameranie:** syntéza biologicky účinných látok na báze sacharidov. Výsledkom je postdoktorálny pobyt jedného zamestnanca CHU SAV na FCT NOVA.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. **Zameranie:** hydrofóbne iónové párovanie. **Zhodnotenie:** Výsledkom spolupráce je vedenie 1 diplomovej práce

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie - neformálna spolupráca. **Zameranie:** Štúdium enzýmových chemoselektívnych enzýmových acylácií a štúdium produkcie feruloylsteráz v procesoch polosuchých fermentácií. **Zhodnotenie:** Výsledkom spolupráce je 1 konzultovaná diplomová práca

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav fyzikálnej chémie a chemickej fyziky, Oddelenie fyzikálnej chémie. **Zameranie:** Objasnenie série elektrochemických a spontánnych chemických dejov pri elektrochemickej redukcii 1,2,3,4-tetrachlóro-6,6-dikyanofulvénu. **Zhodnotenie:** Výsledkom spolupráce je pripravovaná spoločná

publikácia.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav chemického a environmentálneho inžinierstva, Oddelenie chemického a biochemického inžinierstva. Zameranie: Štúdium pyrolýzy komunálneho odpadu. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie. Zameranie: Mechanistická štúdia prípravy vybraných enantioméne čistých beta-amino ketónov - zlyhanie konvenčných metód, možnosť použitia metódy CIAT, otvorenie nových reakčných ciest identifikáciou nežiadanych reakčných produktov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Fakulta prírodných vied UCM, Katedra biotechnológií - neformálna spolupráca. Zameranie: a) Štúdium lektínových biočipov a biosenzorov; Zameranie: Štúdium inhibítorov vírusových neuraminidáz. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia

Spolupracujúca inštitúcia: Fakultná nemocnica Trenčín, Onkologické oddelenie, Bratislava - neformálna spolupráca. Zameranie: Identifikácia onkologických ochorení. Zhodnotenie: Meranie vzoriek sér pacientov s onkologickým ochorením (rakovina hrubého čreva, prsníka a prostaty). Výsledkom spolupráce je príprava publikácie

Spolupracujúca inštitúcia: Farmaceutická fakulta UK, Katedra bunkovej a molekulárnej biológie liečiv - neformálna spolupráca. Zameranie: Kultivácia a analýzy vybraných liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce.

Spolupracujúca inštitúcia: Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Turkey - neformálna spolupráca. Zameranie: Extrakcia, separácia, identifikácia a štúdium biologických vlastností sekundárnych metabolitov vyšších rastlín používaných v tradičnom liečiteľstve. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: II.onkologická klinika LFUK a NÓU. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: 1 spoločná publikácia.

Spolupracujúca inštitúcia: Jesséniova lekárska fakulta, Ústav farmakológie, Martin - neformálna spolupráca. Zameranie: Štúdium farmakodynamických vlastností polyfenolických glykokonjugátov izolovaných z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je 1 rukopis práce zaslaný do redakcie.

Spolupracujúca inštitúcia: Karadeniz Technical University, Faculty of Pharmacy, Department of Pharmacognosy, Trabzon, Turkey. Zameranie: Extrakcia, separácia, identifikácia a štúdium biologických vlastností sekundárnych metabolitov vyšších rastlín používaných v tradičnom liečiteľstve. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Klinika detskej psychiatrie, Národný ústav detských chorôb. Zameranie: Glykoprofilovanie vzoriek sér detských pacientov s neurovývojovými ochoreniami. Zhodnotenie: Príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Lodz University of Technology, Institute of Fermentation Technology and Microbiology, Department of Environmental Biotechnology, Lodz, Poland - neformálna spolupráca. Zameranie: Kvasinkový druh Metschnikowia pulcherrima ako zdroj pulcherimínu.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Masarykova univerzita, CEITEC, Brno, Česko - neformálna spolupráca. Zameranie: Štúdium neväzbových interakcií sacharidov a reakčného mechanizmu glykozyltransferáz použitím výpočtových metód. Zhodnotenie: Výsledkom spolupráce sú prezentácie na konferenciách.

Spolupracujúca inštitúcia: N. D. Zelinského ústav organickej chémie, Ruská akadémia vied, Rusko - neformálna spolupráca. Zameranie: Výskum imunobiologických aktivít syntetických oligoglykozylových derivátov mimikujúcich natívne imunogénny bunkovej steny patogénnych kvasiniek. Zhodnotenie: Výsledkom spolupráce je 1 spoločná práca. Názov práce: YASHUNSKY, Dmitri V. - DOROKHOVA, Vera S. - KOMAROVA, Bozhena S. - PAULOVICHOVÁ, Ema - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E.**. Synthesis of biotinylated pentasaccharide structurally related to a fragment of glucomannan from *Candida utilis*. In Russian Chemical Bulletin, 2021, vol. 70, no. 11, p. 2208-2213. (2020: 1.222 - IF, Q4 - JCR, 0.268 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1066-5285. Dostupné na: <https://doi.org/10.1007/s11172-021-3334-9> Typ: ADCA

Spolupracujúca inštitúcia: Nemocnica Staré mesto - UNB, Gastroenterologická ambulancia Zameranie: Diagnostika kolorektálneho karcinómu a odber vzoriek. Zhodnotenie: 1 spoločná publikácia.

Spolupracujúca inštitúcia: Nemocnica Staré mesto - UNB, urologická ambulancia. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Onkologický ústav Sv. Alžbety, Imunologické oddelenie - Bratislava - neformálna spolupráca. Zameranie: Výskum anti-glykánových protilátok u atopických pacientiek s vulvovaginitídou. Zhodnotenie: Výsledkom spolupráce je príprava 1 spoločnej práce.

Spolupracujúca inštitúcia: Prírodovedecká fakulta UK, Bratislava, Laboratórium Biochémie Mycobaktérií - neformálna spolupráca. Zameranie: Štúdium, návrh a modelovanie možných inhibítorov enzýmov podieľajúcich sa na syntéze galaktánového reťazca bunkovej steny mycobaktérií. Zhodnotenie: Sľubne sa rozvíjajúca nová spolupráca v oblasti dizajnu inhibítorov.

Spolupracujúca inštitúcia: Qatar University, Doha, Qatar - neformálna spolupráca. Zameranie: a) Štúdium glykánových a lektínových biosenzorov; b) štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce sú 4 spoločné publikácie.

Spolupracujúca inštitúcia: Rikkyo (St. Paul's) University, Japan College of Science, Department of Chemistry, Tokyo, Japan - podpísaná dohoda o spolupráci. Zameranie: Štúdium neväzbových interakcií sacharidov a ich analógov použitím výpočtových metód; aplikácie ab initio metód kvantovej chémie na charakterizáciu a predikciu interakcií proteínov. Zhodnotenie: Výsledkom spolupráce je pokračujúca spolupráca.

Spolupracujúca inštitúcia: The Catholic University of Korea, Department of Biotechnology, Bucheon, Republic of Korea - neformálna spolupráca. Zameranie: Výskum štruktúry a biologických aktivít polysacharidov z rias. Zhodnotenie: Výsledkom spolupráce je 1 spoločná práca zaslaná do redakcie

Spolupracujúca inštitúcia: Universidad Complutense de Madrid, Facultad de Farmacia, Departamento de Microbiología II, Madrid, Spain - neformálna spolupráca. Zameranie: Príprava fluorescenčne značených substrátov pre transglykozylačné reakcie.. Zhodnotenie: Výsledkom

spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: University of Adelaide, School of Agriculture, Food and Wine, and Waite Research Institute, Glen Osmond, Australia - neformálna spolupráca. Zameranie: Štúdium enzýmov bunkových stien rastlín. Zhodnotenie: Výsledkom spolupráce sú dve pripravované publikácie.

Spolupracujúca inštitúcia: Ústav přístrojové techniky AV ČR, Oddělení elektronové mikroskopie, Brno, ČR - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia

Spolupracujúca inštitúcia: Vienna University of Technology, Institute of Applied Synthetic Chemistry, Vienna, Austria - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná spoločná publikácia

Spolupracujúca inštitúcia: Vysoká škola chemicko-technologická v Praze, Fakulta potravinářské a biochemické technologie, Ústav sacharidů a cereálií, Praha, Česko - neformálna spolupráca. Zameranie: Výskum štruktúry a biologických aktivít rastlinných biopolymérov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná práca zaslaná do redakcie.

Spolupracujúca inštitúcia: Vysoké učení technické v Brně, Fakulta chemická, Ústav chemie potravin a biotechnologií, Brno, Česko - neformálna spolupráca. Zameranie: Identifikácia kvasiniek molekulárno-biologickými metódami a hmotnostnou spektrometriou. Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia

Spolupracujúca inštitúcia: Wroclaw University of Science and Technology, Faculty of Chemistry, Department of Organic and Pharmaceutical Technology, Wroclaw, Poland - neformálna spolupráca. Zameranie: Vlastnosti a biologická aktivita polyfenolických glykokonjugátov z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné práce zaslané do redakcie.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

Aplikant: Alexander Kiss (včelár zo Šiah). Aplikácia výsledku: Výsledky analýz a porovnania antimikrobiálneho potenciálu materských kašičiek z vybraných včelstiev využíva chovateľ včelích matiek s vlastnou líniou včiel ako jeden z parametrov pri selekcii včelstiev vhodných na chov a produkciu včelích matiek.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Slavomír Bystrický, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Peter Gemeiner, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Miloš Hricovíni, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Zdenka Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolání"	člen
RNDr. Jaroslav Klaudiny, PhD.	Komisia pre biologickú bezpečnosť a jej zbor expertov pri Ministerstve životného prostredia SR	člen zboru expertov
Ing. Vladimír Mastihuba, PhD.	Atestačná komisia Slovenskej technickej univerzity v Bratislave	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v SAV národnom projekte "Národná sústava kvalifikácií" pre Štátny inštitút odborného vzdelávania SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
	Sektorová rada pre chémiu a farmáciu v Národnom projekte "Sektorovo riadenými inováciami (SRI) k efektívnemu trhu práce v Slovenskej republike" pre MPSVR SR	člen
Ing. Ema Paulovičová, CSc.	Pracovná skupina expertov pre alternatívne metódy (hodnotenie toxicity, účinkov a bezpečnosti látok vo vede, výskume, priemysle a edukácii) pri Ministerstve pôdohospodárstva a rozvoja vidieka SR	člen
doc. Ing. Ladislav Petruš,	Porota pre udeľovanie Cien Literárneho	člen

DrSc.	fondy za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	
Ing. Renáta Vadkertiová, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
Ing. Miloš Hricovíni, PhD.	Rada Národného centra NMR	člen
Ing. Igor Tvaroška, DrSc.	Rada Národného centra NMR	člen

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	7	tlač	8	TV	2
rozhlas	1	internet	12	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
47. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice, Slovensko	11.05.-14.05.2021	-
Chémia smerom k biológii a INSTRUCT-ULTRA míting o štruktúre biomolekúl	medzinárodná	Bratislava, Slovensko	06.09.-10.09.2021	-
8. medzinárodné sympóziu o štruktúre a funkcii koreňov	medzinárodná	Grand Hotel Bellevue, Horný Smokovec, Slovensko	12.09.-16.09.2021	-
15. Bratislavské sympóziu o sacharidoch	medzinárodná	Kongresové centrum SAV, Smolenice, Slovensko	11.10.-15.10.2021	-

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Blahutová Jana	1	0	0
Farkaš Pavol	0	1	0
Spolu	1	1	0

9.5. Členstvo v redakčných radách časopisov

Mgr. Peter Baráth, PhD.

Newsrab (funkcia: člen)

RNDr. Peter Biely, DrSc.

Yeast Newsletter (funkcia: Associate Editor)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

Ing. Peter Gemeiner, DrSc.

Artificial Cells, Blood Substitutes, and Biotechnology (funkcia: člen Editorial Board)

Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)

Biotechnology Letters (funkcia: člen Editorial Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Ing. Miroslav Košíš, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Molecules (funkcia: člen Editorial Board)

Ing. Júlia Mičová, PhD.

Applied Functional Materials (funkcia: Editorial Advisory Board)

Ing. Jozef Nahálka, PhD.

Journal of Glycomics & Lipidomics (funkcia: člen Editorial Board)

doc. Ing. Ladislav Petruš, DrSc.

ARKIVOC (funkcia: člen Editorial Board of Referees)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Tkáč, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Igor Tvaroška, DrSc.

Frontiers in Plant Science: Plant Biophysics and Modeling (funkcia: Review Editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Marek Baráth, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Maroš Bella, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Biely, DrSc.

Slovenská akademická spoločnosť (funkcia: člen)

Slovenský národný komitét pre biochémiu a molekulárnu biológiu (funkcia: člen)

Ing. Pavol Farkaš, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Ing. Ján Hirsch, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: predseda odbornej skupiny)

Ing. Miloš Hricovíni, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Zuzana Hricovíniová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Andrej Chyba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Jana Jakubčinová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Jaroslav Katrlík, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: podpredseda a tajomník Fyziologickej sekcie)

Ing. Miroslav Kooš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Kozák, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Stanislav Kozmon, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Mgr. Eva Labancová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Lenka Lorencová, PhD.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: čestný člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Mária Mastihubová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: podpredseda Odbornej skupiny Organická chémia)

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ema Paulovičová, CSc.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Slovenská spoločnosť alergológie a klinickej imunológie pri SLS (funkcia: člen)

Ing. Lucia Paulovičová, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Veronika Pinková Gajdošová

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Kristína Šípošová

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Ján Tkáč, DrSc.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Iveta Uhliariková, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Zuzana Vivodová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

9.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

Doc. Petruš sprevádzal exkurziu študentov Prírodovedeckej fakulty UK (2. ročník Mgr. štúdia odbor Organická chémia, 5 študentov), v rámci ktorej sa oboznámili s problematikami študovanými v laboratóriách Oddelenia glykochémie ako aj s infraštruktúrou a analytickými metódami dostupnými na Chemickom ústave SAV.

Ústav sa pravidelne zúčastňuje na medzinárodnej poľnohospodárskej a potravinárskej výstave AGROKOMPLEX a taktiež zabezpečuje vedecký stánok na Festivale vedy - Európskej noci výskumníkov na Slovensku. V dôsledku pandémie Covid-19 sa však tieto podujatia v roku 2021

nekonali.

V dôsledku pandémie COVID-19, Chemický ústav SAV neusporiadal v roku 2021 Deň otvorených dverí CHÚ SAV v rámci Týždňa vedy a techniky na Slovensku 2021 (TVT 2021). Namiesto toho sa konal on-line DOD organizovaný Ú SAV zameraný hlavne na budúcich záujemcov o doktorandské štúdium, kde boli prezentované vypísané témy doktorandského štúdia na CHÚ.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25397
z toho	knihy a zviazané periodiká	25397
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
Ročný prírastok knižničných jednotiek		0
v tom	kúpou	0
	darom	0
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		0

Výraz „**v tom**“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		17
v tom z r. 1	prezenčné výpožičky	11
	absenčné výpožičky	7
v tom z r. 1	odborná literatúra pre dospelých	7
	výpožičky periodík	13
MVS iným knižniciam		4
MVS z iných knižníc		2
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	0
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10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	0
Návštevníci knižnice spolu (bez návštevníkov podujatí)	neeviduje sa

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	0

10.5. Iné informácie o knižničnej činnosti

Pracovníčka knižnice (v súčasnosti len 1) zabezpečovala okrem iného rozmnožovanie práce na xeroxe, zväzovanie dokumentov krúžkovou väzbou, laminovanie dokumentov, rešerše z literatúry, objednávky kníh a asistovala pri vkladaní publikačných výstupov a citačných ohlasov pracoviska do systému ARL.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Koóš, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Kontrolná rada areálu SAV (člen)

Mgr. Stanislav Kozmon, PhD.

- Rada SAV pre program Otvorená akadémia (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (podpredseda)

Ing. Ján Tkáč, DrSc.

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

11.4. Členstvo v orgánoch VEGA

Ing. Marek Bučko, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Mgr. Stanislav Kozmon, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Ing. Mária Mastihubová, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2021 v €)

Typ organizácie (RO,PO)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	4493041	3193438	801949	497654	71,08
z toho: mzdy (610)	2252583	1791838	298712	162033	79,55
vedecká výchova štipendiá (640)	190376	190376	0	0	100,00
poistné a príspevok do poisťovní (620)	794888	614418	104597	75873	77,30
tovary a služby (630)	1016315	426806	329761	259748	42,00
transfery partnerom projektov (640)	238879	170000	68879	0	71,00
2. Kapitálové výdavky	62222	0	0	62222	
z toho: obstarávanie kapitálových aktív	62222	0	0	62222	
kapitálové transfery	0	0	0	0	

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2021 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnero m projektov
1. kapitola SAV (111)	3193438	0	1791838	614418	170000
z toho: VEGA	189463	0	0	0	0
MVTS výskumné projekty	54179	0	0	0	0
MVTS podpora	4018	0	0	0	0
SASPRO/MOREPRO	0	0	0	0	0
Vydávanie časopisov	33068	0	0	0	0
Vedecká výchova	190376	0	0	0	0

(štipendiá)					
OTAS (630)	146078	0	0	0	0
2. ŠF EÚ vr. fin. zo ŠR	234248	0	163476	53041	2814
3. medzinárodné grantové projekty	181394	0	104821	39389	0
z toho: H2020	148310	0	88021	32732	0
4. iné štátne a verejné zdroje (spolu)	576702	0	135237	51556	66065
z toho: APVV	475494	0	105874	38392	66065
podpora z kapitoly MŠVVaŠ SR (stimuly)	0	0	0	0	0
5. ostatné zdroje	378482	62222	57212	36484	0
z toho: príjmy z prenájmu	0	0	0	0	0
príjmy z podnikateľskej činnosti	0	0	0	0	0
príjmy z expertnej činnosti a služieb	378482	62222	57212	36484	0

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

14.1. Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia

Na Chemickom ústave SAV uplatňujeme princípy rodovej rovnosti v plnej miere. Obsadzovanie pracovných a aj vedúcich pozícií je uskutočňované čisto na základe pracovných a odborných skúseností vhodných pre danú pozíciu.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	17	13	4	5	4	1
2. Projekty APVV	7	7	0	14	12	2
3. Projekty EŠIF	2	2	0	6	6	0
4. Projekty SASPRO, MoRePro	0	0	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	1	1	0	0	0

Tabuľka 14b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena

1. Projekty Horizont 2020 a Horizont Európa	0	0	0	1	1	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	0	0	0	9	6	3
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	0	0	0
5. Projekty v rámci medzivládnych dohôd	2	2	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1	0	0	0
7. Bilaterálne projekty ostatné	1	1	0	0	0	0
8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)	2	2	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	1	1	0

14.3. Výskum zameraný na rodovú problematiku

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe C.

Na Chemickom ústave SAV neprebíha žiadny výskum zameraný na rodovú problematiku.

15. Iné významné činnosti organizácie SAV

Organickou súčasťou ústavu je Zbierka kultúr kvasiniek (Culture Collection of Yeasts), ktorá je členom Organizácie európskych zbierok (ECCO), Svetovej federácie zbierok mikroorganizmov (WFCC), je registrovaná vo Svetovom katalógu kultúr (CCY 333) a má štatút medzinárodného ukladacieho centra patentovo chránených kmeňov (je v nej uložených približne 3800 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 360 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2021: 18 (14 pre CHÚ a 4 pre zahraničie). Získané kultúry v roku 2021: 51 (39 izolovaných zbierkou a 12 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene) predstavoval 662,70 € a úspora predstavovala 1950 € (420 € za kmene pre CHÚ, 1170 € za kmene izolované zbierkou a 360 € za kmene získané z iných pracovísk).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS). Impakt faktor časopisu sa od roku 2013 pohyboval nad hodnotou 1 (IF2013 = 1.193; IF2014 = 1.468; IF2015 = 1.326; IF2016 = 1.258). V roku 2017 mierne poklesol (IF2017 = 0.973) v dôsledku predchádzajúcej zmeny vydavateľa. V roku 2018 však opäťovne vzrástol (IF2018 = 1.246). Rastúci trend pokračoval aj v rokoch 2019 a 2020 (IF2019 = 1.680; IF2020 = 2.097) a je predpoklad, že hodnota IF bude rásť. Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. V období 2007-2014 bolo publikovanie tlačenej aj elektronickej verzie časopisu v kompetencii vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). V období rokov 2015-2016 bol vydavateľom a distribútorom De Gruyter Open Ltd. Od roku 2017 je vydavateľom a distribútorom Springer-Verlag GmbH, pričom Copyright a Ownership patrí Chemickému ústavu SAV. Od roku 2012 vychádza 12 čísiel ročne (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácnych sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2021 sumu približne 140000 €.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletné analytické a štruktúrne charakterizácie produktov a študovaných látok iným pracoviskám. Príjmy zo služieb ústavom SAV, katedrám a ústavom vysokých škôl, rezortným a súkromným výskumným a výrobným organizáciám predstavovali približne 27000 €.

Nakoľko Chemický ústav SAV disponuje modernou prístrojovou technikou a výskumnými kapacitami, zapojil sa aj v roku 2021 do výskumu a boja s koronavírusom (SARS-CoV-2). Dokumentuje to aj zapožičanie prístrojovej techniky potrebnej na analýzu testovaných vzoriek (Real-Time PCR) Regionálnemu úradu verejného zdravotníctva.

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2021

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Bertók Tomáš

Cena Slovenskej akadémie vied za výsledky vedeckovýskumnej práce

Oceňovateľ: Vedecká rada SAV

Opis: Za súbor publikácií z oblasti analýzy komplexných sacharidov na účely medicínskej diagnostiky.

Blšáková Anna

Certifikát pri príležitosti podávania prihlášok grantov pre doktorandov SAV v.r. 2020

Oceňovateľ: Hodnotiaca komisia Programu grantov pre doktorandov SAV

Opis: Podaný projekt s názvom „Vývoj citlivých diagnostických metód na včasnú detekciu rakovinových ochorení" bol ocenený známkou vysokej kvality

Hrončeková Štefánia

Čestné uznanie v Súťaži doktorandov SAV

Oceňovateľ: Predsedníctvo SAV

Opis: Ocenenie v Súťaži doktorandov SAV.

Labancová Eva

Cena Pavla Sillingera

Oceňovateľ: Slovenská botanická spoločnosť pri SAV

Opis: Cena Pavla Sillingera pre mladých botanikov a fyziológov rastlín do 30 rokov - SAV

Pinková Gajdošová Veronika

2. cena v Súťaži doktorandov SAV

Oceňovateľ: Predsedníctvo SAV

Opis: Ocenenie v Súťaži doktorandov SAV.

16.1.2. Iné domáce ocenenia

Blšáková Anna

Cena Marty Sališovej

Oceňovateľ: Slovenská chemická spoločnosť pri SAV

Opis: Za prácu "Ultracitlivá detekcia autoprotilátok voči aberantným glykánom prítomných pri rakovinovým ochoreniam" prezentovanú na 73. zjazde chemikov.

Hrončeková Štefánia

Diplom pri príležitosti XIII. Interaktívnej konferencie mladých vedcov 2021

Oceňovateľ: Občianske združenie PREVEDA

Opis: Za vynikajúci príspevok v sekcii Bunkový metabolizmus, fyziológia, molekulárna biológia a genetika - klinické štúdie.

Květoň Filip

Študentská osobnosť Slovenska akad. r. 2019/2020 - 1. miesto v kategórii Lekárske vedy

Oceňovateľ: Junior Chamber International - Slovakia

Opis: Za mimoriadne výsledky v študijnej ako aj vedecko-výskumnej oblasti.

Pažitná Lucia

Cena Prevedy

Oceňovateľ: Občianske združenie PREVEDA a spoločnosť BASF Slovensko

Opis: Za najlepší príspevok XIII. Interaktívnej konferencie mladých vedcov 2021.

Siváková Barbara

Diplom pri príležitosti XIII. Interaktívnej konferencie mladých vedcov 2021

Oceňovateľ: Občianske združenie PREVEDA

Opis: Za vynikajúci príspevok v sekcii Omiky.

16.2. Medzinárodné ocenenia

Blšáková Anna

Emil Paleček Award 2021

Oceňovateľ: Institute of Biophysics CAS, v.v.i.

Opis: Za prácu prezentovanú na XXI. Workshop of Biophysical Chemists and Electrochemists.

Pipiková Jana

The spirit of yeast

Oceňovateľ: International Congress on Yeasts, 23 – 27 August, 2021, Vienna, Austria.

Opis: Prvé miesto v kreatívnej výzve za namaľovaný obrázok kvasinky s názvom Candy-da

17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

Informácie o pracovisku sú voľne dostupné na internete (www.chem.sk) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Začiatkom roka 2015 bola vydaná brožúra k 60. výročiu založenia ústavu, ktorá obsahuje niektoré údaje o pracovisku až do roku 2013. Pripravuje sa aktualizovaná brožúra, ktorá bude obsahovať údaje za ďalšie 5-ročné obdobie.

18. Problémy a podnety pre činnosť SAV

a) Zabezpečovanie a pridelovanie finančných prostriedkov zo ŠR

Podľa dostupných informácií sa na ďalšom financovaní prístupu do vedeckých databáz majú okrem CVTI SR podieľať aj univerzity, vysoké školy a SAV. Apelujeme na P SAV, aby situáciu ohľadne zabezpečenia financovania prístupu do databáz považovalo za jednu z priorít a nedopustilo, aby v budúcnosti došlo k prerušeniu prístupu do nich. Nedávne zrušenie prístupu do databáz SciFinder a Reaxys výrazne obmedzuje včasné získavanie relevantných informácií najmä početnej skupine organických chemikov ale aj biochemikov a biotechnológov.

Apelujeme na P SAV, aby neznižovalo príspevok na vydávanie kvalitných vedeckých časopisov (periodík).

Apelujeme na P SAV, aby v súčinnosti s univerzitami a výskumnými inštitúciami požadovali od Výskumnej agentúry a relevantných ministerstiev plnenie prísľubov na radikálne zlepšenie situácie vo vypisovaní výziev a následnom spravovaní agendy týkajúcej sa ŠF EÚ (najmä urýchlenie celého procesu od vypísania výzvy, cez hodnotenie, podpísanie zmluvy až po realizáciu ŽOP-iek, odbyrokratizovanie,).

b) Iné problémy pracoviska

Zbierka kultúr kvasiniek koncom roka 2021 získa dva autoklávy zakúpené z finančných zdrojov CHÚ SAV, ktoré nahradia staré, poruchové a hrdzavé autoklávy z roku 1988. Autoklávy sú jedným zo základných vybavení každého mikrobiologického pracoviska. Ku základným vybaveniam zbierok mikroorganizmov patria aj zariadenia, ktoré slúžia na dlhodobú úschovu mikroorganizmov. Dlhodobá úschova mikroorganizmov je jednou z hlavných povinností zbierok mikroorganizmov a vyplýva z Dohody o biologickej diverzite (The Convention on Biological Diversity, CBD, Rio de Janeiro, 2012), ktorej podpisom sa členské štáty zaviazali k ochrane biologickej diverzity, a z príručky OECD (Best Practice Guidelines for Biological Resource Centres, 2007), ktorá určuje, že zbierky mikroorganizmov musia zabezpečiť prístup k biologickému materiálu s najvyššou kvalitou, ktorý je autentický, správne identifikovaný a charakterizovaný a vhodne a dlhodobo uchovávaný. Úschova v kvapalnom dusíku je najspoľahlivejšiou metódou pre dlhodobú úschovu mikroorganizmov a preto je prioritizovaná Svetovou federáciou zbierok mikroorganizmov (WFCC), Európskou organizáciou zbierok mikroorganizmov (ECCO) a organizáciou OECD. Zbierka kultúr kvasiniek má dlhodobé skúsenosti s úschovou kvasinkových kultúr v kvapalnom dusíku. Na úschovu však používa kryonádoby zastaraného typu, ktoré majú malú kapacitu na ukladanie kryoskúmaviek, kvasinkové kultúry sú zle prístupné a hrozí ich uvoľnenie z kanistrov do priestoru kryonádob a ich nenávratná strata. Ani dokupovanie ďalších kryonádob tohto typu nezabezpečí úschovu všetkých kvasinkových kultúr uložených v zbierke (približne 3.800 kvasinkových kultúr) a neodstráni riziko uvoľnenia kvasinkových kultúr do kryonádob a straty kultúr. Tento problém je možné vyriešiť len zakúpením veľkokapacitnej kryonádoby s vhodným ukladacím systémom na kryoskúmavky s kvasinkovými kultúrami. Vysokú prioritu má aj zakúpenie hlbokomraziaceho boxu (-80°C), ktorý by sa využíval, ako ďalšia spoľahlivá a odporúčaná alternatíva, na dlhodobú úschovu kvasiniek. Zbierka kultúr kvasiniek však nevyhnutne potrebuje obnoviť a dokúpiť aj ďalšie prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie (väčšina pochádza z roku 1963) a uzatvoriť priestory, v ktorých sa nachádza, aby mohla splniť štandard, ktoré od zbierok mikroorganizmov vyžadujú OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). Hoci Zbierka kultúr kvasiniek patrí ku najväčším európskym zbierkam z hľadiska množstva uchovávaných mikrobiálnych kultúr, je podľa dostupných informácií jednou z najhoršie vybavených zbierok mikroorganizmov v Európe. Finančné

zdroje by sa dali získať vstupom Slovenska do konzorcia MIRRI-ERIC (v rámci ESFRI Roadmap) a taktiež úspešnosťou v ďalších výzvach OP ŠF EÚ.

Správu o činnosti organizácie SAV spracoval(i):

Mgr. Jana Blahutová, PhD., 02/ 59410298, 02/ 59410661

Ing. Zuzana Košťálová, PhD., 02/ 59410284

Mgr. Stanislav Kozmon, PhD., 02/ 59410322

Oľga Švančarová, 02/ 59410202


Erika Voleková, 02/ 59410201

Schválila vedecká rada organizácie SAV dňa 28.2.2022

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
Mgr. Stanislav Kozmon, PhD.


.....
Ing. Vladimír Mastihuba, PhD.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2021****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Peter Biely, DrSc.	5	0.05
2.	Ing. Slavomír Bystrický, DrSc.	5	0.05
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	5	0.05
5.	Ing. Ján Hirsch, DrSc.	5	0.05
6.	RNDr. Mária Matulová, DrSc.	100	1.00
7.	doc. Ing. Ladislav Petruš, DrSc.	5	0.05
8.	Ing. Ivan Šimkovic, DrSc.	50	0.50
9.	Ing. Ján Tkáč, DrSc.	80	0.80
10.	Ing. Igor Tvaroška, DrSc.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	80	0.80
3.	Ing. Maroš Bella, PhD.	100	1.00
4.	Ing. Tomáš Bertók, PhD.	50	0.50
5.	Mgr. Jana Blahutová, PhD.	100	1.17
6.	Ing. Marek Bučko, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	50	0.50
8.	Ing. Alžbeta Čížová, PhD.	100	1.00
9.	Mgr. Maksym Danchenko, PhD.	50	0.50
10.	Ing. Pavol Farkaš, PhD.	100	1.00
11.	RNDr. Alena Holazová, PhD.	60	0.20
12.	Ing. Eva Hrabárová, PhD.	100	1.00
13.	Ing. Miloš Hricovíni, PhD.	100	1.00
14.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
15.	Ing. Zdenka Hromádková, PhD.	100	1.00
16.	Ing. Jaroslav Katrlík, PhD.	100	1.17
17.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00

18.	RNDr. Karin Kollárová, PhD.	100	1.00
19.	Mgr. Juraj Kóna, PhD.	100	1.00
20.	Ing. Zuzana Košťálová, PhD.	100	1.00
21.	Mgr. Stanislav Kozmon, PhD.	100	1.00
22.	Ing. Ľubomír Kremnický, PhD.	100	1.00
23.	Mgr. Danica Kučerová, PhD.	100	0.25
24.	RNDr. Lenka Lorencová, PhD.	100	1.17
25.	prof. RNDr. Alexander Lux, CSc.	5	0.05
26.	Ing. Vladimír Mastihuba, PhD.	100	1.00
27.	Ing. Mária Mastihubová, PhD.	100	1.00
28.	Ing. Júlia Mičová, PhD.	100	1.00
29.	RNDr. Ján Mucha, CSc.	100	1.17
30.	Ing. Jozef Nahálka, PhD.	100	1.00
31.	Ing. Marek Nemčovič, PhD.	100	1.17
32.	Ing. Ema Paulovičová, CSc.	100	1.00
33.	Ing. Lucia Paulovičová, PhD.	100	0.00
34.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
35.	Ing. Monika Poláková, PhD.	100	1.00
36.	Mgr. Vladimír Puchart, PhD.	100	1.00
37.	Ing. Hana Schusterová, PhD.	100	0.51
38.	Ing. Vladimír Sládek, PhD.	100	1.00
39.	Ing. Eva Stratilová, PhD.	100	1.17
40.	Ing. Sergej Šesták, PhD.	100	1.17
41.	Ing. Michal Šoral, PhD.	100	1.00
42.	Ing. Katarína Šuchová, PhD.	100	1.00
43.	Ing. Renáta Vadkertiová, PhD.	100	0.88
44.	Ing. Alica Vikartovská, PhD.	100	1.00
45.	Mgr. Zuzana Vivodová, PhD.	100	0.33
Vedeckí pracovníci			
1.	Mgr. Gábor Beke, PhD.	50	0.50
2.	RNDr. Jana Bellová, PhD.	100	0.00
3.	RNDr. Sandra Bieliková, PhD.	100	1.00
4.	Mgr. Viera Dujnič, PhD.	100	1.00
5.	Ing. Michal Híreš, PhD.	100	1.00
6.	Mgr. Ágnes Horváthová, PhD.	100	0.33

7.	Ing. Michal Hricovíni, PhD.	100	1.00
8.	Ing. Andrej Chyba, PhD.	100	1.00
9.	RNDr. Eduard Jáné, PhD.	100	1.00
10.	RNDr. Anna Kaliňáková, PhD.	25	0.10
11.	Mgr. Elena Karnišová Potocká, PhD.	100	1.00
12.	Ing. Peter Kis, PhD.	100	0.75
13.	Mgr. Tomáš Klunda, PhD.	100	1.00
14.	Mgr. Lenka Kohútová, PhD.	100	1.00
15.	Ing. Romana Köszagová, PhD.	100	0.33
16.	RNDr. Ján Kozák, PhD.	100	1.00
17.	Ing. Tomáš Krajčovič, PhD.	100	1.00
18.	Mgr. Martina Križáková, PhD.	100	0.00
19.	Ing. Filip Květoň, PhD.	100	1.00
20.	Mgr. Eva Labancová, PhD.	100	0.95
21.	Mgr. Maroš Laho, PhD.	100	1.00
22.	Ing. Soňa Malric, PhD.	100	0.00
23.	Mgr. Jana Mečárová, PhD.	100	1.00
24.	Ing. Zuzana Pakanová, PhD.	100	1.17
25.	RNDr. Klaudia Palenčárová, PhD.	100	0.71
26.	MVDr. Jana Pipiková, PhD.	100	1.00
27.	prof. Ing. Milan Polakovič, PhD.	40	0.37
28.	Ing. Božena Pribulová, PhD.	100	1.00
29.	Ing. Miroslav Rajnivec, PhD.	25	0.12
30.	Ing. Andrea Smith, PhD.	100	0.00
31.	Mgr. Mária Šedivá, PhD.	100	1.17
32.	RNDr. Iveta Uhliariková, PhD.	100	1.00
33.	Ing. Kristína Vadinová, PhD.	100	0.00
34.	Mgr. Romana Vrzoňová, PhD.	100	0.33
35.	RNDr. Jana Ziburová, PhD.	100	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Juvissan Medalith Aguedo Ariza	100	1.00
2.	Ing. Viera Bedrichová	100	1.00
3.	Ing. Matej Cvečko	5	0.05
4.	Ing. Lucia Černáková	100	0.25
5.	Ing. Erika Farkašová	100	1.00

6.	Ing. Peter Haluz	5	0.05
7.	Mgr. Ľuboš Hudák	100	1.00
8.	Ing. Kristína Kianičková	5	0.05
9.	Mgr. Rebeka Kodríková	10	0.03
10.	Ing. Mária Kopáčová	100	1.00
11.	Ing. Hana Kováčová	100	1.00
12.	Mgr. Maroš Krchňák	10	0.03
13.	MSc. Paras Harendra Kundalia	100	1.00
14.	Ing. Peter Magdolen	100	1.00
15.	Ing. Filip Pančík	50	0.50
16.	Ing. Lucia Pažitná	5	0.05
17.	Mgr. Jaroslav Polák	5	0.02
18.	Mgr. Barbara Siváková	20	0.20
19.	Mgr. Barbora Stratilová	20	0.20
20.	Mgr. Kristína Šípošová	20	0.20
21.	Ing. Jozef Švec	50	0.50
22.	Ing. Jozef Turjan	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Bc. Katarína Koňušáková	100	1.00
3.	Ing. Bc. Mária Lindorová	20	0.11
4.	Mgr. Ondrej Penzeš	60	0.60
5.	Ing. Ema Podobová	100	1.00
6.	Bc. Jaroslav Valášik	100	1.00
7.	Mgr. Jana Žabková	100	1.00
Odborní pracovníci ÚSV			
1.	Mária Bednáríková	100	1.00
2.	Veronika Bencová	100	1.00
3.	Alena Bordáčová	100	1.00
4.	Eva Filipková	100	1.00
5.	Ľudmila Gažíková	100	1.00
6.	Dominik Gúth	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chválová	100	1.00
9.	Beáta Kalivodová	100	1.00

10.	Eva Morháčová	100	1.00
11.	Milan Novosad	100	1.00
12.	Margita Plšková	150	1.17
13.	Milan Rudolf	100	0.50
14.	Kvetoslava Sabová	100	1.00
15.	Zdena Smolková	100	1.00
16.	Radoslava Šályová	100	1.17
17.	Alena Šoltéssová	100	1.00
18.	Oľga Švančarová	100	1.00
19.	Vojtech Tóth	100	1.00
20.	Matej Vaš	100	1.00
21.	Mariana Vlčeková	100	1.00
22.	Erika Voleková	100	1.00
23.	Rebeca Voleková	50	0.17
24.	Scarlett Weinzettlová	100	1.00

Ostatní pracovníci

1.	Ladislav Baláži	100	1.00
2.	Peter Cagán	100	0.00
3.	Anna Fehérová	100	1.00
4.	Juraj Kozmon	100	1.00
5.	Marcela Kozmonová	100	1.00
6.	Elena Masarovičová	100	1.00
7.	Miroslav Pír	100	1.00
8.	Ing. Viliam Podoba	100	0.73
9.	Peter Simandl	100	1.00
10.	Albína Ščepánová	100	1.00
11.	František Špetko	80	0.80
12.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Ing. Miroslav Koóš, DrSc.	29.11.2021	0.92
Samostatní vedeckí pracovníci			
1.	Ing. Zdenka Hromádková, PhD.	31.12.2021	1.00

Vedeckí pracovníci			
1.	RNDr. Anikó Bertóková, PhD.	30.6.2021	0.50
2.	Mgr. Jana Jakubčinová, PhD.	31.10.2021	0.83
3.	Mgr. Martina Križáková, PhD.	31.12.2021	0.00
4.	Ing. Soňa Malric, PhD.	31.12.2021	0.00
5.	Ing. Andrea Smith, PhD.	31.12.2021	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Viera Bedrichová	31.12.2021	1.00
2.	MSc. Peter Gabko	31.8.2021	0.67
3.	Ing. Jozef Švec	31.12.2021	0.50
Odborní pracovníci ÚSV			
1.	Mária Bednáríková	31.12.2021	1.00
2.	Janka Komačková	31.8.2021	0.67
Ostatní pracovníci			
1.	Peter Cagán	31.12.2021	0.00
2.	Helena Lešťanská	1.1.2021	0.00
3.	Ing. Viliam Podoba	31.12.2021	0.73

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	MSc. Marko Bajus	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Martina Belková	Prírodovedecká fakulta UK	4.1.22 biochémia
3.	Ing. Anna Blšáková	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
4.	Ing. Matej Cvečko	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
5.	MSc. Peter Gabko	Fakulta chemickej a potravinárskej technológie STU	1420 chémia
6.	Mgr. Diana Hačkuličová	Prírodovedecká fakulta UK	1536 biológia
7.	RNDr. Marietta Hakarová	Prírodovedecká fakulta UK	5.2.25 biotechnológia
8.	Ing. Peter Haluz	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
9.	Ing. Štefánia Hrončeková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológia
10.	Ing. Martin Kalník	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia

11.	Ing. Kristína Kianičková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
12.	Mgr. Rebeka Kodríková	Prírodovedecká fakulta UK	1420 chémia
13.	Mgr. Maroš Krchňák	Prírodovedecká fakulta UK	1420 chémia
14.	MSc. Walid Fathallah Saad Mohammed Moussa	Fakulta chemickej a potravinárskej technológie STU	2908 biotechnológie
15.	Ing. Filip Pančík	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia
16.	Ing. Lucia Pažitná	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
17.	RNDr. Veronika Pinková Gajdošová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
18.	Mgr. Barbara Siváková	Prírodovedecká fakulta UK	4.1.22 biochémia
19.	Mgr. Barbora Stratilová	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia
20.	Ing. Natália Švecová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
21.	Ing. Veronika Vráblová	Fakulta chemickej a potravinárskej technológie STU	2908 biotechnológie

Interní doktorandi hrazení z iných zdrojov

1.	MSc. Juvisan Medalith Aguedo Ariza	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	MSc. Paras Harendra Kundalia	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie

Externí doktorandi

1.	Ing. Mária Kopáčová	Prírodovedecká fakulta UK	1420 chémia
2.	Mgr. Veronika Lukáčová	Prírodovedecká fakulta UK	1420 chémia
3.	Ing. Patrícia Zuskáčová	Fakulta chemickej a potravinárskej technológie STU	2908 biotechnológie

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Ing. Romana Köszagová, PhD.	26.8.2021	27.8.2021	100
2.	Mgr. Ágnes Horváthová, PhD.	26.8.2021	27.8.2021	100
3.	Mgr. Eva Labancová, PhD.	28.1.2021	1.2.2021	100

Zoznam emeritných vedeckých zamestnancov

Meno s titulmi

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Analýza glykoforiem transferínu ako potencionálnych účinných biomarkerov pre medicínu (*Analysis of transferrin glycoforms as potentially strong biomarkers in medicine*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 15.2.2019 / 31.12.2021
Evidenčné číslo projektu: SK-SRB-18-0028
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Srbsko: 1
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 1406 €

Dosiahnuté výsledky:

V rámci projektovej MVTS s INEP, Univerzita v Belehrade, Srbsko (projekt APVV SK-SRB-18-0028) prebiehal výskum v oblasti glykoprofilovania transferínu a ďalších glykoproteínov ako potencionálnych účinných biomarkerov pre medicínu v súvislosti s niektorými ochoreniami (rakovina, ADHD) pomocou lektínového microarray a MS techník. Výsledky boli publikované v jednej akceptovanej publikácii a prezentované na dvoch konferenciách:

Publikácia:

ROBAJAC, Dragana - KRIZÁKOVÁ, Martina - ŠUNDERIĆ, Miloš - MILJUŠ, Goran – GEMEINER, Peter - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Lectin-based protein microarray for the glycan analysis of colorectal cancer biomarkers: the insulin-like growth factor system. In Glycan Microarrays, Methods and Protocols (Eds.: Michelle Kilcoyne, Jared Q. Gerlach), Methods in Molecular Biology, Springer, akceptované.

Konferencie:

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK Filip - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICÁ, Jana - KATRLÍK, Jaroslav. Glykoprolifácia sér, depletovaných sér a imunoglobulínu G u detí v súvislosti s hyperkinetickou poruchou (ADHD) metódou MALDI-TOF MS. Interaktívna Konferencia Mladých Vedcov 2021. Občianske združenie Preveda, 2021, Abstrakt č.: 2230, ISBN 978-80-972360-7-6.

KUNDALIA, Paras - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KATRLÍK, Jaroslav. Affinity Based High-throughput determination of Abberant Glykosylation in Cancer. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 178, 1Po39. ISSN 1336-7242. Typ: AFH

2.) Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky (*Analysis of nucleic acids, proteins and metabolites as*

potential circulating biomarkers of pregnancy diabetes)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.3.2020 / 31.12.2022
Evidenčné číslo projektu: DS-FR-19-0034
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Rakúsko: 1, Srbsko: 1
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 2712 €

Dosiahnuté výsledky:

Projekt trilaterálnej spolupráce, napriek určitým obmedzeniam vyplývajúcich z protipandemických opatrení, priniesol pre Chemický ústav SAV možnosť rozvíjať znalosti a experimentálne skúsenosti v oblasti analýzy proteínov a glykoproteínov nachádzajúcich sa v klinických vzorkách pacientiek s tehotenskou cukrovkou. Efektívnosť spolupráce v rámci projektu podčiarkuje množstvo výstupov (4 konferenčné príspevky v roku 2021, 2 pripravované vedecké publikácie).

1) PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MILKOVIĆ, Željko - KATRLÍK, Jaroslav. Analýza zmien glykánového zloženia sér v súvislosti s tehotenskou cukrovkou pomocou microarray metódy založenej na lektínoch. Prezentované na: PREVEDA - interaktívna konferencia mladých vedcov 2021. Publikované v: PREVEDA - interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2239. ISBN 978-80-972360-7-6.

2) PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav. Glykoprofilácia sér a plazmy vzoriek tehotenskej cukrovky pomocou na lektínoch založenej microarray. Prezentované na: Drobnicov memoriál 2021, 11. ročník, Chata Trubárka, Trenčín - Kubrica, 2. - 4. september 2021. Publikované v: Drobnicov memoriál, Zborník príspevkov a program. 11. ročník, Trenčín – Kubrica. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, SAV, 2021, p. 46. ISBN 978-80-972752-8-0.

3) PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav. Sledovanie zmien glykánového zloženia sér a plazmy vo vzorkách tehotenskej cukrovky na lektínoch založenou microarray metódou. Prezentované na: 73. zjazd chemikov, Vysoké Tatry, 6.-10. september 2021. Publikované v: ChemZi : Zborník abstraktov: 73. zjazd chemikov, Vysoké Tatry. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 83, 1P21. ISSN 1336-7242.

4) ROBAJAC, Dragana - DOBRIJEVIĆ, Zorana - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - ŠUNDERIĆ, Miloš - GLIGORIJEVIĆ, Nikola - PENEZIĆ, Ana - MILJUŠ, Goran - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes in serum glycans in pregnant women with gestational diabetes mellitus. Prezentované na: 10th Conference of Serbian Biochemical Society "Biochemical Insights

into Molecular Mechanisms”, Kragujevac, Serbia, 24.09.2021. Publikované v: Proceedings of 10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”, Kragujevac, Serbia. Faculty of Chemistry, Serbian Biochemical Society, p. 140.

Programy: COST

3.) Európska multidisciplinárna platforma pre morskú biotechnológiu (*European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech)*)

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	29.10.2019 / 28.10.2023
Evidenčné číslo projektu:	COST Action CA18238
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Institute of Biology
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

4.) Európska sústava vakcínových adjuvansov (*European network of vaccine adjuvants (ENOVA)*)

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	13.11.2017 / 12.11.2021
Evidenčné číslo projektu:	CA COST Action CA16231
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Vaccine Formulation Institute
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 2631 €

Dosiahnuté výsledky:

CHÚ SAV sa aktívne zapájal v oblasti využitia adjuvantných látok v príprave moderných a bezpečných vakcín. Mnohé aktivity v roku 2020/2021 boli prerušené pre pandemickú situáciu.

5.) Inovácie s glykánmi: nové horizonty od syntézy po nové biologické ciele (*Innovation with Glycans: new frontiers from synthesis to new biological targets*)

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	8.4.2019 / 7.4.2023
Evidenčné číslo projektu:	COST Action CA18103
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Milan
Počet spoluriešiteľských	0

inštitúcií:

Čerpané financie: 0

Podpora medzinárodnej spolupráce z národných zdrojov: 5740 €

Dosiahnuté výsledky:

Skupina Dr. Hricovíniho:

V rámci COST projektu INNOGLY sa vo výbore STSM (Short Term Scientific Missions, ktoré sú zamerané na výmenné pobyty) diskutovali termíny a finančné otázky pobytov. V rámci hybridného sympozia (INNOGLY:WG4) „GlycosAminoGlycans: What remains to be solved?“ (Faculty of Medicine, University of Crete, Heraklion, Greece & Video Platform, September 27 – 29, 2021) bola prednesená prednáška:

M. Hricovíni: High-resolution NMR and theoretical insights into the structure of glycosaminoglycans.

Skupina Dr. Mastihubu:

V skupine Ing. Mastihubu boli vyvíjané systémy na identifikáciu diglykozidáz a syntetizované chromogénne próby pre tento účel.

KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Apiose-relevant glycosidases. In Catalysts, 2021, vol. 11, art. no. 1251 [18] p. (2020: 4.146 - IF, Q2 - JCR, 0.800 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4344. Dostupné na: <https://doi.org/10.3390/catal11101251> Typ: ADCA

CVEČKO, Matej** - KIS, Peter - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Synthesis of chromogenic probes for detection and assay of diglycosidases. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract No. 2228. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA) Typ: AFH

6.) CliniMARK: 'Dobré biomarkerové praktiky' pre zvýšenie počtu klinicky validovaných biomarkerov (*CliniMARK: 'good biomarker practice' to increase the number of clinically validated biomarkers*)

Zodpovedný riešiteľ: Jaroslav Katrlík

Trvanie projektu: 14.3.2017 / 31.10.2021

Evidenčné číslo projektu: CA COST Action CA16113

Organizácia je nie

koordinátorom projektu:

Koordinátor: Erasmus University Medical Center

Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: 0

Podpora medzinárodnej spolupráce z národných zdrojov: 718 €

Dosiahnuté výsledky:

Získali sa výsledky v oblasti sledovania glyko-biomarkerov v pľúcnom tkanive v súvislosti s ochorením COVID-19, ktoré boli prezentované na jednej konferencii:

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - BARÁTH, Peter - PAKANOVÁ, Zuzana - KVĚTOŇ, Filip - JANEKA, Pavol - KATRLÍK, Jaroslav. Glykoprofilácia

plúcneho tkaniva. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 165, 1Po13. ISSN 1336-7242. Typ: AFH

7.) Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a ciele terapeutiu (*Functional glyconanomaterials for the development of diagnostics and targeted therapeutic probes (GLYCONanoPROBES)*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 14.3.2019 / 13.3.2023
Evidenčné číslo projektu: COST Action CA18132
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Bristol
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0
Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

Získali sa výsledky v oblasti vývoja metód analýzy biologicky významných glykánov a glykobiomarkerov v súvislosti s hyperkinetickou poruchou (ADHD) a tieto boli prezentované na jednej konferencii:

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK Filip - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICÁ, Jana - KATRLÍK, Jaroslav. Glykoprolácia sér, depletovaných sér a imunoglobulínu G u detí v súvislosti s hyperkinetickou poruchou (ADHD) metódou MALDI-TOF MS. Interaktívna Konferencia Mladých Vedcov 2021. Občianske združenie Preveda, 2021, Abstrakt č.: 2230, ISBN 978-80-972360-7-6.

8.) Sieť kváskovej biotechnológie zameraná na nové, zdravšie a trvalo udržateľné potraviny a bioprocesy (*SOURDOugh biotechnology network towards novel, healthier and sustainable food and bioproCesseS*)

Zodpovedný riešiteľ: Zuzana Košťálová
Trvanie projektu: 10.4.2019 / 9.4.2023
Evidenčné číslo projektu: COST Action CA18101
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Porto
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0
Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

Výskum bol zameraný na stanovenie cukorného zloženia kyslých polysacharidov z nižších a vyšších rastlín (alginatát, pektín a xylán). Testovali sa rôzne hydrolytické postupy, ktoré najviac ovplyvňovali výsledky stanovenia. Monosacharidové zloženie bolo merané pomocou HPAEC-

PAD. Dosiahnuté výsledky boli prezentované a publikované na medzinárodnej konferencii.

KOŠŤÁLOVÁ, Zuzana** - HROMÁDKOVÁ, Zdenka. A comparative study of different polysaccharides focused on carbohydrate analysis. In Proceedings of the 17th International Conference on Polysaccharides-Glycoscience 11 - 12 November 2021 Prague. - Prague : Czech Chemical Society, 2018, s. 85-87. ISSN 2336-6796. Typ: AFC

9.) Vybudovanie celoeurópskej siete pre udržateľné zhodnotenie lignínu (*Establishment of a Pan-European network on the sustainable valorisation of lignin (LignoCOST)*)

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	4.10.2018 / 3.10.2022
Evidenčné číslo projektu:	CA COST Action CA17128
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stichting Wageningen Research
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

Boli syntetizované ďalšie glykozidy tyrozolu a hydroxytyrozolu a testované ich biologické účinky. V prípade fruktozylovaného hydroxytyrozolu boli zistené chemoprotektívne účinky porovnateľné s voľným tyrozolom, ale s výrazne redukovanou toxicitou fruktozidu.

KIS, Peter - HORVÁTHOVÁ, Eva - GÁLOVÁ, Eliška - ANTALOVÁ, Veronika - KARNIŠOVÁ POTOČKÁ, Elena - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária**. Synthesis of Tyrosol and Hydroxytyrosol Glycofuranosides and Their Biochemical and Biological Activities in Cell-Free and Cellular Assays. In Molecules, 2021, vol. 26, no. 24, art. no. 7607. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26247607> (Vega č. 2/0126/19 : Diglykozidázy v biokatalýze) Typ: ADCA

10.) Sieť zeleného chemického inžinierstva smerom k zvyšovaniu udržateľnosti procesov (*Green Chemical Engineering Network towards upscaling sustainable processes (GREENERING)*)

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	14.10.2019 / 13.10.2023
Evidenčné číslo projektu:	COST Action CA18224
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT NOVA)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 5740 €

Dosiahnuté výsledky:

Skupina Dr. Mastihubovej:

Študovali sa biokatalytické a udržateľné chemické metódy funkcionalizácie fenolických látok (regioselektívna acylácia/deacylácia, glykozylácia).

KARKESZOVÁ, Klaudia - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Regioselective enzymatic synthesis of kojic acid monoesters. In Catalysts, 2021, vol. 11, art. no. 1430 [12] p. (2020: 4.146 - IF, Q2 - JCR, 0.800 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4344. Dostupné na: <https://doi.org/10.3390/catal11121430> Typ: ADCA

KIS, Peter - MASTIHUBOVÁ, Mária**. A sustainable approach to phenylethanoid glycopyranosides: Study of glycosylations promoted by zinc salts. In Sustainable Chemistry and Pharmacy, 2021, vol. 24, art. no. 100537 [9] p. (2020: 4.508 - IF, Q2 - JCR, 0.728 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2352-5541. Dostupné na: <https://doi.org/10.1016/j.scp.2021.100537> Typ: ADCA

Skupina Dr. Hromádkovej:

V druhom roku projektu výskum bol zameraný na hľadanie nových postupov na využitie veľkého množstva odpadov vznikajúcich v lesníctve, či v drevospracujúcich podnikoch, nakoľko tieto odpady tvoria ekonomické, ale najmä environmentálne problémy. Ekologicky vhodné procesy izolácie biopolymérov, testovanie chemického zloženia, molekulových vlastností, ale aj biologických aktivít, ovplyvňuje ich využiteľnosť v jednotlivých oblastiach. Výsledky zatiaľ neboli publikované.

11.) Nekonvenčné kvasinky na výrobu bioproduktov (*Non-conventional yeasts for the production of bioproducts (YEAST4BIO)*)

Zodpovedný riešiteľ:	Katarína Šuchová
Trvanie projektu:	7.11.2019 / 6.11.2023
Evidenčné číslo projektu:	COST Action CA18229
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMDEA Energy Institute
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

V spolupráci s Doc. Ing. Martinom Rebrošom, PhD. z Ústavu biotechnológie, Fakulta chemickej a potravinárskej technológie STU v Bratislave, sme naklonovali a exprimovali xylanázu SlXyn30A z kvasinky Sugiyamaella lignohabitans, ktorá patrí do rodiny 30 glykozid hydroláz (GH). Doteraz nebola žiadna kvasinková xylanáza z tejto rodiny charakterizovaná. Zistili sme, že podobne ako GH30 xylanázy TcXyn30B a TtXyn30A z vlákňitých húb, aj SlXyn30A je bifunkčný enzým, ktorý okrem glukuronoxylanázovej aktivity vykazuje aj xylobiohydrolázovú aktivitu. Výsledky plánujeme v krátkom čase publikovať. Pokračovali sme aj v testovaní kvasinkových kmeňov na schopnosť utilizovať rôzne rastlinné polysacharidy (celulóza, xylán, pektín a škrob), pričom sme využili farebné substráty. Doposiaľ sme otestovali 118 kvasinkových kmeňov, izolovaných z pôdy spod ovocných stromov, patriacich do 61 druhov. Najviac testovaných druhov, hlavne bazídiomycetových, vykazovalo schopnosť rozkladať hydroxyetylcelulózu alebo karboxymetylcelulózu.

Programy: Bilaterálne - iné

12.) Spôsob účinku nových typov xylánolytických enzýmov a ich úloha pri hydrolýze neprístupných štruktúr rastlinných xylánov. (*Mode of action of novel types of xylanolytic enzymes and their role in hydrolysis of recalcitrant structures in plant xylans.*)

Zodpovedný riešiteľ: Peter Biely
Trvanie projektu: 1.5.2021 / 30.4.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Novozymes: 10000 €

Dosiahnuté výsledky:

Programy: Iné

13.) Odozva O-špecifických polysacharidov a cholera. (*O-Specific polysaccharide responses and cholera.*)

Zodpovedný riešiteľ: Slavomír Bystrický
Trvanie projektu: 1.4.2021 / 31.3.2022
Evidenčné číslo projektu: 5R37AI106878-07
Organizácia je koordinátorom projektu: nie
Koordinátor: Massachusetts General Hospital
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: National Institute of Allergy and Infectious Diseases, NIH, USA: 4150 €

Dosiahnuté výsledky:

Programy: Horizont 2020

14.) Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielenú bunkovú interakciu (*Synthetic biology of carbohydrate-binding proteins: engineering protein-carbohydrate interactions for diagnostics and cell targeting*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.10.2018 / 30.9.2022
Evidenčné číslo projektu: MSCA-ITN-ITN grant agreement ID: 814029
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Leeds
Počet spoluriešiteľských inštitúcií: 7 - Rakúsko: 2, Nemecko: 1, Dánsko: 1, Francúzsko: 2, Veľká Británia: 1
Čerpané financie: EC Brussels (COST): 42932 €

Podpora medzinárodnej spolupráce z národných zdrojov: 4018 €

Dosiahnuté výsledky:

V rámci riešenia projektu sme publikovali experimentálnu prácu so zameraním na glykoprofiláciu sér pacientov s kolorektálnym karcinómom (CRC). SCR je celosvetovo jedným z najbežnejších typov rakoviny u mužov a žien. V súčasnosti prebiehajú snahy nájsť nové a pre rakovinu špecifickejšie biomarkery, ktoré by bolo možné detegovať neinvazívnym spôsobom. Analýza aberantnej glykozylácie sérových glykoproteínov je spôsob, ako objaviť nové diagnostické a prognostické biomarkery CRC. Táto štúdia skúmala celosérový glykóm s panelom 16 rôznych lektínov pri hľadaní vekovo nezávislých a CRC špecifických glykomarkerov pomocou analýz krivky ROC (Receiver Operating Curve“) a s využitím glykánových „heat maps“. Identifikovali sme glykozylačné zmeny prítomné v celom sére, ktoré by mohli viesť k objavu nových biomarkerov pre diagnostiku CRC. Najmä zmena v rozvetvených glykánach (rozpoznaná lektínom *Phaseolus vulgaris* erythroaglutinínom) mala najvyšší diskriminačný potenciál pre diagnostiku CRC v kombinácii s L-selektínom s hodnotou AUC=0,989 (95 % CI 0,950–1,000) (AUC = „Area Under Curve“ t.j. ROC krivky), špecificitou 1,000, senzitivitou 0,900 a presnosť stanovenia 0,960 (Obr. 6). Implementovali sme tiež nové nástroje na identifikáciu lektínov so silnou diskriminačnou schopnosťou. Štúdia identifikovala dva lektíny, ktoré môžu byť špecificky použité na rozlíšenie veku a tým aj na určenie biologického veku človeka.

Publikácia:

BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - JÁNÉ, Eduard - HÍREŠ, Michal - AGUEDO, Juvisan - POTOČÁROVÁ, Mária - LUKÁČ, Ľudovít - VIKARTOVSKÁ, Alica - KASÁK, Peter - BORSIG, Ľubor - TKÁČ, Ján**. Identification of a whole-serum glycomarkers for colorectal carcinoma using reverse-phase lectin microarray. In *Frontiers in Oncology Gastrointestinal Cancers*, 2021, vol. 11, art. no. 735338 [11] p. (2020: 6.244 - IF, Q2 - JCR, 1.834 - SJR, Q1 - SJR). ISSN 2234-943X.

Okrem toho boli odprezentované dva konferenčné príspevky:

AGUEDO, Juvisan - LORENCOVA, Lenka - PAKANNOVA, Zuzana - TKAC, Jan. Glycomic Technology for Glycotarget Discovery. 73. ZJAZD CHEMIKOV 6. – 10. september 2021, Vysoké Tatry, Horný Smokovec, SR. p.86, 1P26

KUNDALIA, Paras - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KATRLÍK, Jaroslav. Affinity Based High-throughputdetermination of Abberant Glykosylation in Cancer.73. ZJAZD CHEMIKOV 6. – 10. september 2021, Vysoké Tatry, Horný Smokovec, SR. p.178, 1Po39

Programy: JRP

15.) Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov (*Design, synthesis and characterization of efficient mannosidase inhibitors related to iminosugars and glycoconjugates*)

Zodpovedný riešiteľ:	Maroš Bella
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	SAS-MOST/JRP/2019/882/GM-INHIB
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských	1 - Slovensko: 0, Taiwan: 1

inštitúcií:

Čerpané financie: MVTS SAV: 25000 €

Dosiahnuté výsledky:

V rámci syntézy účinných inhibítorov manozidáz bola dokončená príprava hydroxymetylovaných analógov manostatínu A. Pripravené analógy boli testované ako inhibítory troch typov manozidáz z rodiny GH38. Ich inhibičná aktivita a selektivita v porovnaní s manostatínom A bola vysvetlená pomocou molekulového modelovania.

Na základe počítačového dizajnu ako aj predchádzajúcich výsledkov boli navrhnuté iminosacharidové deriváty - 5-benzylswainsoníny, indolizidínové, pyrolizidínové a pyrrolidínové skelety ako účinné a selektívne inhibítory manozidáz. V súčasnosti sa intenzívne venujeme syntéze navrhnutých iminosacharidových derivátov.

Plánovaná návšteva partnerského pracoviska na Taiwane sa v dôsledku pandémie COVID-19 neuskutočnila.

KALNÍK, Martin - ZAJÍČKOVÁ, Mária - KÓŇA, Juraj - ŠESTÁK, Sergej - MONCOL, Ján - KOÓŠ, Miroslav - BELLA, Maroš**. Synthesis of hydroxymethyl analogues of manostatins A and their evaluation as inhibitors of GH38 α -mannosidases. In *New Journal of Chemistry*, 2021, vol.45, p. 13539-13548. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d1nj02351a> Typ: ADCA

KALNÍK, Martin - GABKO, Peter - BELLA, Maroš - KOÓŠ, Miroslav**. The Bucherer–Bergs multicomponent synthesis of hydantoins—excellence in simplicity. In *Molecules*, 2021, vol. 26, art. no. 4024 [33] p. (2020: 4.411 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26134024> Typ: ADCA

KLUNDA, Tomáš** - HRICOVÍN, Michal - ŠESTÁK, Sergej - KÓŇA, Juraj - POLÁKOVÁ, Monika**. Selective Golgi α -mannosidase II inhibitors: N-alkyl substituted pyrrolidines with a basic functional group. In *New Journal of Chemistry*, 2021, vol. 45, p. 10940-10951. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d1nj01176f> Typ: ADCA

KALNÍK, Martin** - MONCOL, Ján - KÓŇA, Juraj - KOÓŠ, Miroslav - BELLA, Maroš. Synthesis of 5-benzylswainsonines as selective inhibitors of GH38 α -mannosidases. In *PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts*. Editori: Miroslav Ferko, Pavol Farkaš. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA) Typ: AFH

KALNÍK, Martin** - ZAJÍČKOVÁ, Mária - ŠESTÁK, Sergej - KOÓŠ, Miroslav - BELLA, Maroš. Synthesis and biochemical evaluation of manostatins A analogues. In *Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov*. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 622-627. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021) Typ: AFD

Programy: Mobility

16.) Syntéza nanočastíc oxidov prechodných kovov, ich plazmové spracovanie a štúdium fotoelektrických a fotokatalytických vlastností (*Synthesis of transition metal oxide nanoparticles,*

their plasma treatment and study of photoelectrical and photocatalytic properties)

Zodpovedný riešiteľ: Júlia Mičová
Trvanie projektu: 1.1.2021 / 31.12.2022
Evidenčné číslo projektu: SAV-AV ČR-21-09
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: SAV: 1500 €

Dosiahnuté výsledky:

Erbiom dopovaný prášok oxidu zinočnatého (ZnO:Er) bol syntetizovaný hydrotermálnym rastom. Zmenila sa morfológia od nedopovaných nanotyčiek po mikrotýčky. Bol pozorovaný vplyv Er dopingu na luminiscenčné vlastnosti ZnO:Er. Okrem toho, žihanie na vzduchu pri zvýšených teplotách až do 700 C má za následok dodatočnú úpravu defektných stavov a súvisiacich luminiscenčných vlastností. UV emisné pásmo súvisiace s excitónom a červený emisný pás súvisiaci s defektom sa objavuje vo všetkých žihaných vzorkách líšiacich sa koncentráciou. Infračervená (IR) fotoemisná Er³⁺, typický prechod 4I13/2 -> 4I15/2, ktorý sa nepozoroval pri pestovaných vzorkách s nízkou koncentráciou Er, vyskytol sa vo všetkých vzorkách ZnO:Er po žíhaní na vzduchu pri zvýšených teplotách. Röntgenová fotoelektrónová spektroskopia a IR Ramanova spektroskopia naznačili, že žihanie na vzduchu spôsobuje difúziu Zn z povrchu do objemu a oxidáciu Er na Er³⁺ vo formách Er₂O₃ a Er(OH)_x.

Plazmová hydrogenácia hydrotermálne pestovaných ZnO nanorod sa uskutočnila pri 13,56 MHz v indukčne viazanej plazme (ICP) s plynnou zmesou H₂/Ar. Plazma bola monitorovaná optickou emisnou spektroskopiou (OES) a meraním potenciálu vlastného predpätia držiaka vzorky. Chemické zloženie povrchu ZnO bolo študované pomocou XPS. UV fotoluminiscencia ZnO nanorod súvisiaca s excitónom ako aj optická absorpcia sa výrazne zvýšili po ošetrovaní plazmou a znížili po plazmatickej oxidácii. Zvýšenie Ar vo vodíkovej plazme spôsobilo negatívnejšie vlastné predpätie, menej účinnú hydrogenáciu a nižšiu excitónovú fotoluminiscenciu.

Výstupy k projektu za rok 2021:

REMEŠ, Zdeněk - ARTEMENKO, Anna - UKRAINTSEV, Egor - SHARMA, Dhananjay K. - BURYI, Maksym - KROMKA, Alexander - POTOCKÝ, Štěpán - SZABÓ, Ondrej - KULÍČEK, Jaroslav - REZEK, Bohuslav - MIČOVÁ, Júlia - HSU, Hua Shu. Changes of Morphological, Optical, and Electrical Properties Induced by Hydrogen Plasma on (0001) ZnO Surface. In Physica Status Solidi A : applications and materials science, 2021, art. no. 2100427, [7] p. (2020: 1.981 - IF, Q3 - JCR, 0.532 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1862-6300.

Dostupné na: <https://doi.org/10.1002/pssa.202100427> Typ: ADCA

REMEŠ, Zdeněk - BURYI, Maksym - SHARMA, Dhananjay K. - ARTEMENKO, Anna - MIČOVÁ, Júlia - REZEK, Bohuslav - PORUBA, Aleš - HSU, Hua Shu - POTOCKÝ, Štěpán - BABIN, Vladimír. Emergence of dark ZnO nanorods by hydrogen plasma treatment. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 121. ISBN 978-80-88365-00-6. Typ: AFG

BURYI, Maksym - REMEŠ, Zdeněk - DĚCKÁ, Kateřina - MIČOVÁ, Júlia. Transformation of ZnO-Based Structures Under Heavy Mo Doping: Defect States and Luminescence. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 78-79. ISBN 978-80-88365-00-6. Typ: AFG

REMEŠ, Zdeněk - BURYI, Maksym - SHARMA, Dhananjay K. - KROMKA, Alexander - POTOCKÝ, Štěpán - SHAGIEVA, Ekaterina - PORUBA, Aleš - MIČOVÁ, Júlia. Surface

treatment of ZnO microrods by the inductively coupled hydrogen plasma with self-biased holder. In Proceedings of ADEPT 2021 : 9th International Conference on Advances in Electronic and Photonic Technologies, Podbanské, High Tatras, Slovakia. Eds. D. Jandura, P. Maniaková, I. Lettrichová, J. Kováč, jr. - Žilina : Univ. Zilina in EDIS-Publishing Centre of UZ, 2021, p. 37-40. ISBN 978-80-554-1806-3. Typ: AFD

Domáce projekty

Programy: VEGA

1.) Dizajn, syntéza a štúdium vzťahu medzi štruktúrou, aktivitou a selektivitou inhibítorov enzýmov z rodiny GH38 (*Design, synthesis and study of structure-activity-selectivity relationship of inhibitors against enzymes from GH38 family*)

Zodpovedný riešiteľ: Maroš Bella
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0031/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 22481 €

Dosiahnuté výsledky:

2.) Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácie nových imobilizovaných celobunkových biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít (*Intensification of the development, production and non-invasive characterization of new immobilized whole-cell biocatalysts based on enzyme cascades for the production of chemical specialities*)

Zodpovedný riešiteľ: Marek Bučko
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0130/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 11952 €

Dosiahnuté výsledky:

3.) Polysacharidy nižších a vyšších rastlín (*Polysaccharides of lower and higher plants*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0051/18
Organizácia je áno

koordinátorom projektu:

Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 14215 €

Dosiahnuté výsledky:

4.) Úloha proteínkináz v procesoch zúčastnených udržiavania stability genómu (*Role of protein kinases in processes involved in maintenance of genome stability*)

Zodpovedný riešiteľ: Ľuboš Čipák
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0026/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 3000 €

Dosiahnuté výsledky:

5.) Funkcionalizované kvasinkové polysacharidy – perspektívna kategória biokompatibilných látok s antimikrobiálnou účinnosťou. (*Functionalized yeast polysaccharides – a prospective category of biocompatible substances with antimicrobial effectiveness.*)

Zodpovedný riešiteľ: Alžbeta Čížová
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0076/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA (SAV): 6208 €

Dosiahnuté výsledky:

6.) Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií (*Identification and properties of biologically active compounds isolated in the framework of phytochemical studies*)

Zodpovedný riešiteľ: Viera Dujnič
Trvanie projektu: 1.1.2019 / 31.12.2021
Evidenčné číslo projektu: 1/0763/19
Organizácia je nie

koordinátorom projektu:

Koordinátor: Fakulta chemickej a potravinárskej technológie STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

7.) Interakcia manánových epitopov epidemiologicky zaujímavých druhov Candida s lektínmi typu C. (Interaction of mannan epitopes of epidemiologically interesting Candida species with C-type lectins.)

Zodpovedný riešiteľ: Pavol Farkaš
Trvanie projektu: 1.1.2021 / 30.9.2021
Evidenčné číslo projektu: 2/0180/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA (SAV): 3967 €

Dosiahnuté výsledky:

8.) Nové prekursor pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou (New glycoconjugate-based precursors of pharmaceuticals: structure-activity relationship analysis)

Zodpovedný riešiteľ: Miloš Hricovíni
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0022/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 11019 €

Dosiahnuté výsledky:

9.) Chemoenzymatická príprava glykozylovaných opiátov a ich analógov (Chemo-enzymatic preparation of glycosylated opiates and their analogues)

Zodpovedný riešiteľ: Andrej Chyba
Trvanie projektu: 1.1.2019 / 31.12.2021
Evidenčné číslo projektu: 2/0153/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 3746 €

Dosiahnuté výsledky:

10.) Analýza glykánových markerov inovatívnymi metódami založenými na biočipoch a biosenzoroch s využitím nanotechnológií (*Analysis of glycan markers by innovative methods based on biochips and biosensors using nanotechnologies*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0137/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 31805 €

Dosiahnuté výsledky:

11.) Antimikrobiálne látky v larválnej potrave včely a ich účinok voči patogénu moru včelieho plodu (*Antimicrobial substances in honeybee larval food and their effect against American foulbrood pathogen*)

Zodpovedný riešiteľ: Jaroslav Klaudiny
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0164/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 10203 €

Dosiahnuté výsledky:

12.) Účast' molekúl s biologickou aktivitou a bunkovej steny rastlín v obranných procesoch rastlín vyvolaných abiotickým stresom (*Participation of molecules with biological activity and plant cell wall in defence processes of plants induced by abiotic stress*)

Zodpovedný riešiteľ: Karin Kollárová
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0105/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

inštitúcií:

Čerpané financie: SAV (VEGA): 15769 €

Dosiahnuté výsledky:

13.) Virtuálny skrining, syntéza a štúdium interakcií potenciálnych inhibítorov glykozyltransferáz (*Virtual screening, synthesis and study of the interactions of the potential glycosyltransferases inhibitors*)

Zodpovedný riešiteľ: Stanislav Kozmon
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0137/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 15736 €

Dosiahnuté výsledky:

14.) Analýza alelovo-špecifickej regulácie exprese CD33 (*Analyses of allele-specific regulation of CD33 expression*)

Zodpovedný riešiteľ: Jana Kráľovičová
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0057/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

15.) Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (Apis mellifera) (*Effect of honeybee glucose oxidase on honey antibacterial properties and characterisation its production and activity in hypopharyngeal glands of honeybee (Apis mellifera)*)

Zodpovedný riešiteľ: Juraj Majtán
Zodpovedný riešiteľ v organizácii SAV: Jaroslav Klaudiny
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0004/18
Organizácia je nie

koordinátorom projektu:

Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

16.) Diglykozidázy v biokatalýze (*Diglycosidases in biocatalysis*)

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 1.1.2019 / 31.12.2021
Evidenčné číslo projektu: 2/0126/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 15869 €

Dosiahnuté výsledky:

17.) Príprava a charakterizácia multifunkčného nanokompozitu Fe₃O₄-ZnO-biopolymér so zameraním na čistenie vôd (*Preparation and characterization of the multifunctional Fe₃O₄-ZnO-biopolymer nanocomposite with a focus on water purification*)

Zodpovedný riešiteľ: Júlia Mičová
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: 2/0157/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 1322 €

Dosiahnuté výsledky:

18.) Metabolické zmeny spojené s poruchami glykozylácie proteínov (*Metabolic changes associated with protein glycosylation disorders.*)

Zodpovedný riešiteľ: Marek Nemčovič
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0060/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: VEGA (SAV): 4946 €

Dosiahnuté výsledky:

19.) Pokročilé analytické techniky v štruktúrnej analýze polysacharidov.

Zodpovedný riešiteľ: Vladimír Pätoprstý
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: 2/0096/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA (SAV): 3523 €

Dosiahnuté výsledky:

20.) Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy (*Development of new biomedical and environmental sample processing techniques for advanced combined analytical methods*)

Zodpovedný riešiteľ: Vladimír Pätoprstý
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 1/0787/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

21.) Enzymový rozklad najneprístupnejších epitopov rastlinných polysacharidov (*Enzymatic decomposition of the most recalcitrant epitopes of plant polysaccharides*)

Zodpovedný riešiteľ: Vladimír Puchart
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0016/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 7703 €

Dosiahnuté výsledky:

22.) Kvasinky a kvasinkovité organizmy asociované s kvitnúcimi rastlinami a trávami (*Yeasts and yeast-like organisms associated with flowering plants and grasses*)

Zodpovedný riešiteľ: Renáta Vadkertiová
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0017/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 5999 €

Dosiahnuté výsledky:

Programy: APVV

23.) Proteín Dbl2 ako nový regulátor stability a dynamiky genómu v kvasinkách
Schizosaccharomyces pombe (*Protein Dbl2 as a novel regulator of genome stability and dynamics in fission yeast*)

Zodpovedný riešiteľ: Silvia Bágel'ová Poláková
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0219
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 11148 €

Dosiahnuté výsledky:

24.) Chronické ionizujúce žiarenie narúša odolnosť vodných rastlín voči škodcom: Štúdium a validácia biochemických mechanizmov (*Chronic ionizing radiation compromises resistance to pests in wild aquatic plants: Discovery and validation of biochemical mechanisms*)

Zodpovedný riešiteľ: Peter Baráth
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0545
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biológie rastlín a biodiverzity SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 5000 €

Dosiahnuté výsledky:

25.) Imobilizácia a koimobilizácia viabilných celobunkových biokatalyzátorov s enzýmovými kaskádami pre produkciu chemických špecialít, vývoj metód ich charakterizácie a bioreaktorové inžinierstvo (*Immobilization and co-immobilization of viable whole-cell biocatalysts with enzyme cascades for production of chemical specialties, development of methods for their characterization and bioreactor engineering*)

Zodpovedný riešiteľ: Marek Bučko
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0272
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 17083 €

Dosiahnuté výsledky:

26.) Kalibrácia metódy datovania autigénnym $^{10}\text{Be}/^{9}\text{Be}$ pre geochronologické modely najmladšieho kenozoika karpatsko-panónskeho regiónu (*Calibration of the authigenic $^{10}\text{Be}/^{9}\text{Be}$ dating method for geochronological models of the latest Cenozoic of the Carpathian-Pannonian region*)

Zodpovedný riešiteľ: Andrej Chyba
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0120
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 4300 €

Dosiahnuté výsledky:

27.) Analýza príčin úmrtia pacientov a optimalizácia diferenciálnej diagnostiky v súvislosti s infekciou SARS-CoV-2 v Slovenskej republike (*Analysis of causes of death of patients and optimization of differential diagnosis in connection with SARS-CoV-2 infection in the Slovak Republic*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 16.9.2020 / 31.12.2021
Evidenčné číslo projektu: PP-COVID-20-0051
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave, Lekárska fakulta
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3

inštitúcií:

Čerpané financie: APVV: 35890 €

Dosiahnuté výsledky:

28.) Biočipové systémy na cieleň glykánovú analýzu biomarkerov pre biomedicínske a biotechnologické aplikácie (*Biochip systems for targeted glycan analysis of biomarkers for biomedical and biotechnological applications*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0243
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: APVV: 4970 €

Dosiahnuté výsledky:

29.) Nové antivirálne liečivá: Dizajn, syntéza a testovanie aktivity nových špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2 (*New antiviral drugs: Design, synthesis and activity evaluation of specific inhibitors of viral proteases of coronavirus SARS-CoV-2*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 16.9.2020 / 31.12.2021
Evidenčné číslo projektu: PP-COVID-20-0010
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita sv. Cyrila a Metoda v Trnave, Fakulta prírodných vied
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: APVV: 42221 €

Dosiahnuté výsledky:

30.) Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok (*Computational design, synthesis, testing and disposition of inhibitors of neuraminidases of influenza A virus as potential antiviral compounds*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.7.2018 / 30.6.2022
Evidenčné číslo projektu: APVV-17-0239
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave, Farmaceutická fakulta

Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 13000 €

Dosiahnuté výsledky:

31.) Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách
(Potential of silicon for mitigation of arsenic and antimony toxicity in agricultural crops)

Zodpovedný riešiteľ: Karin Kollárová
Trvanie projektu: 1.7.2018 / 30.6.2022
Evidenčné číslo projektu: APVV-17-0164
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 10000 €

Dosiahnuté výsledky:

32.) Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie
(Preparation of new antibiotics and antitumor agents by manipulations of secondary metabolite genes and synthetic biology methods)

Zodpovedný riešiteľ: Ján Kormanec
Zodpovedný riešiteľ v organizácii SAV: Mária Matulová
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0009
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 9319 €

Dosiahnuté výsledky:

33.) Dizajn nových antituberkulózných látok pomocou výpočtových metód a ich experimentálna evaluácia
(Computer-aided design of novel antituberculosis compounds and their experimental evaluation)

Zodpovedný riešiteľ: Stanislav Kozmon
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0230
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 25281 €

Dosiahnuté výsledky:

34.) Kotranskripčné formovanie pre-mRNA štruktúry, model štruktúrnych motívov nevyhnutných pre definíciu exónu (*Co-transcriptional folding of pre-mRNA, model of structural motifs required for exon definition*)

Zodpovedný riešiteľ: Jana Kráľovičová
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0096
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15556 €

Dosiahnuté výsledky:

35.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochondriách pri strese spôsobenom patologickými stavmi (*Interaction between proteases, chaperones and kinases in stress condition cause by pathological conditions*)

Zodpovedný riešiteľ: Eva Kutejová
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0298
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 21000 €

Dosiahnuté výsledky:

36.) Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (*Regulation of pericellular proteolysis: From molecular mechanisms to novel immune cell subsets and therapeutic tools*)

Zodpovedný riešiteľ: Vladimír Leksa
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth

Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0452
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 1386 €

Dosiahnuté výsledky:

37.) Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov (*Chemoenzymatic synthesis of substances with pharmaceutical potential: Optimization of processes of phenylethanoid glycosides production*)

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0188
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 34655 €

Dosiahnuté výsledky:

38.) Produkcia bakteriálnych inklúzných teliesok pre biokatalýzu a biomedicínu (BIT-scale up) (*Production of bacterial inclusion bodies for biocatalysis and biomedicine (BIB-scale up)*)

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 1.7.2019 / 30.6.2021
Evidenčné číslo projektu: APVV-18-0361
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 30488 €

Dosiahnuté výsledky:

39.) Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: Liečenie aj napriek trikom (*Development of bioimmunotherapeutics inspired by viral tricks: Treating despite the tricks*)

Zodpovedný riešiteľ: Ivana Nemčovičová
Zodpovedný riešiteľ v organizácii SAV: Juraj Kóna
Trvanie projektu: 1.7.2020 / 30.6.2024

Evidenčné číslo projektu: APVV-19-0376
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 7500 €

Dosiahnuté výsledky:

40.) Mikrobiálne enzýmy rozkladu komplexných štruktúr rastlinných xylánov (*Microbial enzymes degrading complex structures of plant xylans*)

Zodpovedný riešiteľ: Vladimír Puchart
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0591
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 11810 €

Dosiahnuté výsledky:

41.) Inovatívne prístupy v toxikológii starnutia (*Innovative approaches in toxicology of ageing*)

Zodpovedný riešiteľ: Lucia Račková
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0336
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 23264 €

Dosiahnuté výsledky:

42.) Viaclieková rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin (*Multidrug resistance of leukemia cells - Phenotype caused by interference of multimodal molecular reasons*)

Zodpovedný riešiteľ: Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV: Jaroslav Katrlík
Trvanie projektu: 1.7.2020 / 30.5.2024

Evidenčné číslo projektu: APVV-19-0093
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 3780 €

Dosiahnuté výsledky:

43.) Glykánové bionanosenzory a bioanalytické zariadenia - ich konštrukcia, validácia a aplikácia v diagnostike rakoviny (*Glycan bionanosensors and bioanalytical devices - their construction, validation and application for cancer diagnostics*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.7.2018 / 30.6.2022
Evidenčné číslo projektu: APVV-17-0300
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 55982 €

Dosiahnuté výsledky:

Programy: Iné projekty

44.) Nové prístupy k diagnostike porúch metabolizmu glykokonjugátov (*New approaches in the diagnostics of glycoconjugate metabolism disorders*)

Zodpovedný riešiteľ: Zuzana Pakanová
Trvanie projektu: 1.11.2019 / 31.12.2021
Evidenčné číslo projektu: 2019/7-CHÚSAV-4
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Ministerstvo zdravotníctva SR: 45480 €

Dosiahnuté výsledky:

45.) Glykoprolifácia proteínov prítomných v sére a v exóзоmoch pre včasnú diagnostiku rakoviny prostaty (*Glycoprofiling of proteins present in serum and exosomes for early prostate cancer diagnostics*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.12.2019 / 31.12.2021

Evidenčné číslo projektu: 2019/68-CHÚSAV-1
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: Ministerstvo zdravotníctva SR: 46608 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Výskum a inovácie

46.) CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby (*CEMBAM - Center of Medical Bio-additive Research and Production*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.9.2020 / 1.6.2023
Evidenčné číslo projektu: 313011V358
Organizácia je koordinátorom projektu: nie
Koordinátor: Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií: 5 - Slovensko: 5
Čerpané financie: Výskumná agentúra: 85522 €

Dosiahnuté výsledky:

47.) Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu (*Center for advanced therapies for chronic inflammatory diseases of the musculoskeletal system*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.6.2020 / 1.6.2023
Evidenčné číslo projektu: 313011W410
Organizácia je koordinátorom projektu: nie
Koordinátor: Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: Výskumná agentúra: 93025 €

Dosiahnuté výsledky:

48.) Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa (*Center for Biomedical Research - BIOMEDIRES - II. phase*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2020 / 1.6.2023
Evidenčné číslo projektu: 313010W428
Organizácia je nie

koordinátorom projektu:

Koordinátor: Medirex Group Academy, n.o.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: Výskumná agentúra: 48000 €

Dosiahnuté výsledky:

49.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom (*Long-term strategic research and development focused on the occurrence of Lynch syndrome in the Slovak population and possibilities of prevention of tumors associated with this syndrome*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2020 / 1.6.2023
Evidenčné číslo projektu: 313011V578
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: Výskumná agentúra: 120578 €

Dosiahnuté výsledky:

50.) Integrácia výsledkov multiomik štúdií a biotechnologická produkcia biologicky významných látok (*Integrating multiomics study results and biotechnological production of biologically important substances*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.6.2016 / 1.6.2021
Evidenčné číslo projektu: 313010T560
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 14917 €

Dosiahnuté výsledky:

51.) Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení. (*Study of structural changes of complex glycoconjugates in the process of hereditary metabolic and civilization diseases.*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2020 / 30.6.2023
Evidenčné číslo projektu: 313021Y920
Organizácia je áno

koordinátorom projektu:

Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 96603 €

Dosiahnuté výsledky:

52.) Vývoj nanoštrukturovaných povlakov s inaktivačným účinkom na vírusy a baktérie pre rôzne typy flexibilných materiálov. (Development of nanostructured coatings with inactivating effect on viruses and bacteria for various types of flexible materials.)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2021 / 30.6.2023
Evidenčné číslo projektu: 313011AUH4
Organizácia je koordinátorom projektu: nie
Koordinátor: STATON s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Výskumná agentúra: 9130 €

Dosiahnuté výsledky:

53.) Vývoj produktov modifikáciou prírodných látok a štúdium ich multimodálnych účinkov na ochorenie COVID-19. (Development of products by modification of natural substances and study of their mulimodal effects on COVID-19.)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2021 / 30.6.2023
Evidenčné číslo projektu: 313011ATT2
Organizácia je koordinátorom projektu: nie
Koordinátor: SITNO Pharma s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

Príloha C**Publikačná činnosť organizácie (generovaná z ARL)****ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

- ADCA01 BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - JÁNÉ, Eduard - HÍREŠ, Michal - AGUEDO, Juvisan - POTOČÁROVÁ, Mária - LUKÁČ, Ľudovít - VIKARTOVSKÁ, Alica - KASÁK, Peter - BORSIG, Ľubor - TKÁČ, Ján**. Identification of a whole-serum glycomarkers for colorectal carcinoma using reverse-phase lectin microarray. In *Frontiers in Oncology Gastrointestina Cancers*, 2021, vol. 11, art. no. 735338 [11] p. (2020: 6.244 - IF, Q2 - JCR, 1.834 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2234-943X. Dostupné na: <https://doi.org/10.3389/fonc.2021.735338>
- ADCA02 BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - HRONČEKOVÁ, Štefánia - CHOCHOLOVÁ, Erika - ŠVECOVÁ, Natália - LORENCOVÁ, Lenka - KASÁK, Peter - TKÁČ, Ján**. Novel prostate cancer biomarkers: Aetiology, clinical performance and sensing applications. In *Chemosensors*, 2021, vol.9, art. no. 205 [33] p. (2020: 3.398 - IF, Q2 - JCR, 0.625 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-9040. Dostupné na: <https://doi.org/10.3390/chemosensors9080205>
- ADCA03 BERTÓKOVÁ, Anikó - BERTÓK, Tomáš - JÁNÉ, Eduard - HÍREŠ, Michal - ĎUBJAKOVÁ, Petra - NOVOTNÁ, Oľga - BELAN, Vítazoslav - FILLO, Juraj - TKÁČ, Ján**. Detection of N,N-diacetylactosamine (LacdiNAc) containing free prostate-specific antigen for early stage prostate cancer diagnostics and for identification of castration-resistant prostate cancer patients. In *Bioorganic & Medicinal Chemistry*, 2021, vol. 39, art. no. 116156 [6] p. (2020: 3.641 - IF, Q2 - JCR, 0.721 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0968-0896. Dostupné na: <https://doi.org/10.1016/j.bmc.2021.116156>
- ADCA04 BONACCORSI DI PATTI, Maria Carmela** - CUTONE, Antimo - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - MUSCI, Giovanni**. Production of Recombinant Human Ceruloplasmin: Improvements and Perspectives. In *International Journal of Molecular Sciences*, 2021, vol. 22, art. no. 8228, [10] p. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms22158228>
- ADCA05 BURYI, Maksim** - REMEŠ, Zdeněk - BABIN, Vladimír - ARTEMENKO, Anna - VANĚČEK, Vojtěch - AUBRECHTOVÁ DRAGONOVÁ, Kateřina - LANDOVÁ, Lucie - KUČERKOVÁ, Romana - MIČOVÁ, Júlia. Transformation of free-standing ZnO nanorods upon Er doping. In *Applied Surface Science*, 2021, vol. 562, art. no. 150217 [15] p. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.150217>
- ADCA06 BURYI, Maksym** - REMEŠ, Zdeněk - BABIN, Vladimír - NOVOTNÝ, Michal - VANĚČEK, Vojtěch - AUBRECHTOVÁ DRAGONOVÁ, Kateřina - MIČOVÁ, Júlia - LANDOVÁ, Lucie - KUČERKOVÁ, Romana - MORE-CHEVALIER, Joris - CHERTOPALOV, Sergii - FITL, Přemysl - KMJEČ, Tomáš. Influence of Mo doping on the luminescence properties and defect states in ZnO nanorods. Comparison with ZnO:Mo thin films. In *Applied Surface Science*, 2021, vol. 555, art. no. 149679 [16] p. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2021.149679>

- ADCA07 ŠMIGOVÁ, Júlia - PAPAJOVÁ, Ingrid** - ŠOLTYS, Jindřich - PIPIKOVÁ, Jana - ŠMIGA, Ľubomír - ŠNÁBEL, Viliam - TAKÁČOVÁ, Jana - TAKÁČ, Ladislav. The occurrence of endoparasites in Slovakian household dogs and cats. In Veterinary Research Communications, 2021, vol. 45, no. 4, p. 243–249. (2020: 2.459 - IF, Q1 - JCR, 0.729 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0165-7380. Dostupné na: <https://doi.org/10.1007/s11259-021-09804-4> (APVV-18-0351 : RiskPar - Hodnotenie rizika výskytu parazitózných metódami multikriteriálnej analýzy. Vega č. 2/0138/21 : Šírenie mikrobiálnych a parazitických organizmov pod vplyvom globálnych klimatických, environmentálnych a spoločenských zmien)
- ADCA08 CSÖLLEIOVÁ, Dominika - KNIRSCHOVÁ, Renáta - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrice - MATULOVÁ, Mária - NÚÑEZ, L.E. - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - JAVOROVÁ, Rachel - CORTÉS, J. - KORMANEC, Ján**. An efficient system for stable markerless integration of large biosynthetic gene clusters into Streptomyces chromosomes. In Applied Microbiology and Biotechnology, 2021, vol. 105, p. 2123–2137. (2020: 4.813 - IF, Q1 - JCR, 1.074 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-021-11161-w>
- ADCA09 ČERMÁKOVÁ, Petra - MAĎAROVÁ, Anna - BARÁTH, Peter - BELLOVÁ, Jana - YURCHENKO, Vyacheslav - HORVÁTH, Anton. Differences in mitochondrial NADH dehydrogenase activities in trypanosomatids. In Parasitology, 2021, vol. 148, no. 10, p. 1161–1170. (2020: 3.234 - IF, Q2 - JCR, 0.951 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0031-1820. Dostupné na: <https://doi.org/10.1017/S0031182020002425>
- ADCA10 DANKO, Martin** - KRONEKOVÁ, Zuzana - KRUPA, Igor - TKÁČ, Ján - MATÚŠ, Peter - KASÁK, Peter**. Exchange counterion in polycationic hydrogels: Tunability of hydrophobicity, water state, and floating capability for a floating pH device. In Gels : open access journal, 2021, vol. 7, art. no. 109, [19] p. (2020: 4.702 - IF, Q1 - JCR, 0.569 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2310-2861. Dostupné na: <https://doi.org/10.3390/gels7030109>
- ADCA11 DELLA SALA, Paolo - VANNI, Costanza - TALOTTA, Carmen - DI MARINO, Luca - MATASSINI, Camilla - GOTI, Andrea - NERI, Placido - ŠESTÁK, Sergej - CARDONA, Francesca** - GAETA, Carmine**. Multivalent resorcinarene clusters decorated with DAB-1 inhibitors: targeting Golgi α -mannosidase from Drosophila melanogaster. In Organic Chemistry Frontiers, 2021, vol. 8, p. 6648–6656. (2020: 5.281 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2052-4129. Dostupné na: <https://doi.org/10.1039/d1qo01048d>
- ADCA12 DIKOŠOVÁ, Livia - OTOČKOVÁ, Barbora - MALATINSKÝ, Tomáš - DOHÁŇŠOVÁ, Jana - KOPÁČOVÁ, Mária - ĎURINOVÁ, Anna - SMUTNÁ, Lucie - TREJTAR, František** - FISCHER, Róbert**. New total synthesis and structure confirmation of putative (+)-hyacinthacine C3 and (+)-5-epihyacinthacine C3. In RSC Advances, 2021, vol. 11, p. 31621–31630. (2020: 3.361 - IF, Q2 - JCR, 0.746 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/d1ra06225e>
- ADCA13 DIVIAKOVÁ, Andrea - STAŠIOV, Slavomír - PONDELÍK, Radovan - PÄTOPRSTÝ, Vladimír - NOVIKMEC, Milan**. Environmental and management control over the submontane grassland plant communities in central Slovakia. In Diversity, 2021, vol. 13, art. no. 30 [14] p. (2020: 2.465 - IF, Q2 - JCR, 0.697 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1424-2818. Dostupné na: <https://doi.org/10.3390/d13010030>

- ADCA14 FRANKOVSKÝ, J. - KERESZTESOVÁ, Barbora* - BELLOVÁ, Jana - KUNOVÁ, Nina - ČANIGOVÁ, N. - HANAKOVA, K. - BAUER, Jacob - ONDROVIČOVÁ, Gabriela - LUKÁČOVÁ, Veronika - SIVÁKOVÁ, Barbara - ZDRÁHAL, Zbyněk - PEVALA, Vladimír - PROCHÁZKOVÁ, K. - NOSEK, J. - BARÁTH, Peter** - KUTEJOVÁ, Eva** - TOMAŠKA, Ľubomír**. The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids. In Journal of Biological Chemistry, 2021, vol. 297, no. 4, no. 101155 [16] p. (2020: 5.157 - IF, Q2 - JCR, 2.361 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1016/j.jbc.2021.101155>
- ADCA15 GARAJOVÁ, Soňa** - PATEL, Ilababen - LOMASCOLO, Anne - LEGÉE, Frédéric - CÉZARD, Laurent - COTTYN, Betty - LECOURT, Michaël - BERTRAND, Emmanuel - SCIARA, Giuliano - TAPIN-LINGUA, Sandra - BAUMBERGER, Stéphanie - FAULDS, Craig B. - RECORD, Eric. Treatment of wood fibres with laccases: improved hardboard properties through phenolic oligomerization. In European Journal of Wood and Wood Products, 2021, vol. 79, p. 1369-1382. (2020: 2.014 - IF, Q2 - JCR, 0.488 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0018-3768. Dostupné na: <https://doi.org/10.1007/s00107-021-01720-3>
- ADCA16 HAYDARY, Juma** - ŠUHAIJ, Patrik - ŠORAL, Michal. Semi-batch gasification of refuse-derived fuel (RDF). In Processes, 2021, vol. 9, art. no. 343 [12] p. (2020: 2.847 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2227-9717. Dostupné na: <https://doi.org/10.3390/pr9020343>
- ADCA17 HLASOVÁ, Zuzana - PAŽITNÁ, Lucia - ONDREJOVIČ, Miroslav - KATRLÍK, Jaroslav**. Lectin-based assay for the determination of the inhibition activity of small molecule inhibitors of neuraminidases. In Journal of Biotechnology, 2021, vol. 325, p. 65-72. (2020: 3.307 - IF, Q2 - JCR, 0.901 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.11.016>
- ADCA18 HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír**. Effect of N-acetyl chito-oligosaccharides on the biosynthesis and properties of chitin in *Saccharomyces cerevisiae*. In Folia Microbiologica, 2021, vol. 66, [5] p. (2020: 2.099 - IF, Q4 - JCR, 0.537 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-021-00933-6>
- ADCA19 HRICOVÍNIOVÁ, Jana - HRICOVÍNIOVÁ, Zuzana - KOZICS, Katarína**. Antioxidant, cytotoxic, genotoxic, and DNA-protective potential of 2,3-substituted quinazolinones: structure-activity relationship study. In International Journal of Molecular Sciences, 2021, vol. 22, no. 2, art. no. 610 [18] p. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms22020610> (VEGA 2/0022/18 : Nové prekurzory pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou. VEGA 2/0055/20 : Novosyntetizované deriváty tymolu: vzťah medzi štruktúrou a biologickou aktivitou na in vitro modeli čreva)
- ADCA20 KALNÍK, Martin - GABKO, Peter - BELLA, Maroš - KOÓŠ, Miroslav**. The Bucherer–Bergs multicomponent synthesis of hydantoins—excellence in simplicity. In Molecules, 2021, vol. 26, art. no. 4024 [33] p. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26134024>
- ADCA21 KALNÍK, Martin - ZAJÍČKOVÁ, Mária - KOŇA, Juraj - ŠESTÁK, Sergej - MONCOL, Ján - KOÓŠ, Miroslav - BELLA, Maroš**. Synthesis of hydroxymethyl analogues of mannostatin A and their evaluation as inhibitors GH38 α -mannosidases. In New Journal of Chemistry, 2021, vol.45, p. 13539-13548. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current

- ADCA22 Contents). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d1nj02351a>
KARKESZOVÁ, Klaudia - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Regioselective enzymatic synthesis of kojic acid monoesters. In Catalysts, 2021, vol. 11, art. no. 1430 [12] p. (2020: 4.146 - IF, Q2 - JCR, 0.800 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4344. Dostupné na: <https://doi.org/10.3390/catal11121430>
- ADCA23 KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Transrutosylation of tyrosol by flower buds of Sophora japonica. In Food chemistry, 2021, vol. 336, art. no. 127674 [5] p. (2020: 7.514 - IF, Q1 - JCR, 1.772 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127674>
- ADCA24 KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír**. Apiose-relevant glycosidases. In Catalysts, 2021, vol. 11, art. no. 1251 [18] p. (2020: 4.146 - IF, Q2 - JCR, 0.800 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4344. Dostupné na: <https://doi.org/10.3390/catal11101251>
- ADCA25 KASÁK, Peter** - HROBÁRIK, Peter - OSIČKA, Josef - SOLÁRIKOVÁ, Dominika - HORVÁTH, Branislav - TKÁČ, Ján - SADASIVUNI, Kishor K. - ALMAADEED, Mariam A. - MIKLÁŠ, Roman. Nicotinamide-based supragelator self-assembling via asymmetric hydrogen bonding $\text{NH}\cdots\text{OC}$ and $\text{H}\cdots\text{Br}^-$ pattern for reusable, moldable and self-healable nontoxic fuel gels. In Journal of Colloid and Interface Science, 2021, vol. 603, p. 182-190. (2020: 8.128 - IF, Q1 - JCR, 1.538 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2021.06.071>
- ADCA26 KIS, Peter - HORVÁTHOVÁ, Eva - GÁLOVÁ, Eliška - ANTALOVÁ, Veronika - KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária**. Synthesis of Tyrosol and Hydroxytyrosol Glycofuranosides and Their Biochemical and Biological Activities in Cell-Free and Cellular Assays. In Molecules, 2021, vol. 26, no. 24, art. no. 7607. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26247607> (Vega č. 2/0126/19 : Diglykozidázy v biokatalýze)
- ADCA27 KIS, Peter - MASTIHUBOVÁ, Mária**. A sustainable approach to phenylethanoid glycopyranosides: Study of glycosylations promoted by zinc salts. In Sustainable Chemistry and Pharmacy, 2021, vol. 24, art. no. 100537 [9] p. (2020: 4.508 - IF, Q2 - JCR, 0.728 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2352-5541. Dostupné na: <https://doi.org/10.1016/j.scp.2021.100537>
- ADCA28 KLUNDA, Tomáš** - HRICOVÍNI, Michal - ŠESTÁK, Sergej - KÓŇA, Juraj - POLÁKOVÁ, Monika**. Selective Golgi α -mannosidase II inhibitors: N-alkyl substituted pyrrolidines with a basic functional group. In New Journal of Chemistry, 2021, vol. 45, p. 10940-10951. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1144-0546. Dostupné na: <https://doi.org/10.1039/d1nj01176f>
- ADCA29 KOLLÁR, Jozef - POPELKA, Anton - TKÁČ, Ján - ŽABKA, Matej - MOSNÁČEK, Jaroslav - KASÁK, Peter**. Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. In Journal of Colloid and Interface Science, 2021, vol. 588, p. 196-208. (2020: 8.128 - IF, Q1 - JCR, 1.538 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2020.12.048>
- ADCA30 KUČEROVÁ, Danica, Richterová - VIVODOVÁ, Zuzana - KOLLÁROVÁ, Karin**. Silicon alleviates the negative effects of arsenic in poplar callus in relation

- to its nutrient concentrations. In *Plant Cell, Tissue and Organ Culture*, 2021, vol. 145, p. 275-289. (2020: 2.711 - IF, Q2 - JCR, 0.707 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0167-6857. Dostupné na: <https://doi.org/10.1007/s11240-020-02007-w>
- ADCA31 LENHARTOVÁ, Simona - NEMČOVIČ, Marek - ŠEBOVÁ, Radka - BENKO, Mário - ZAJONC, Dirk M. - NEMČOVIČOVÁ, Ivana**. Molecular characterization of the native (non-linked) CD160–HVEM protein complex revealed by initial crystallographic analysis. In *Crystals*, 2021, vol. 11, no. 7, art. no. 820 [14] p. (2020: 2.589 - IF, Q2 - JCR, 0.538 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4352. Dostupné na: <https://doi.org/10.3390/cryst11070820> (APVV-14-0839 : Modulácia imunitnej odpovede cytomegalovírusom a jej imunoterapeutický potenciál IMMUNOMOD. APVV-19-0376 : Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: Liečenie aj napriek trikom. VEGA 2/0020/18 : Molekulárne imunorozpoznávanie vírusového UL144 glykoproteínu endogénnymi signálnymi molekulami a ich klinický význam)
- ADCA32 MIKOLÁŠKOVÁ, Barbora - JURČÍK, Matúš - CIPAKOVA, I. - SELICKÝ, Tomáš - JURČÍK, Ján - BÁGELOVÁ POLÁKOVÁ, Silvia - STUPEŇOVÁ, Erika - DUDÁŠ, Andrej - SIVÁKOVÁ, Barbara - BELLOVÁ, Jana - BARÁTH, Peter - ARONICA, Lucia - GREGAN, Juraj - ČIPÁK, Ľuboš**. Identification of Nrl1 Domains Responsible for Interactions with RNA-Processing Factors and Regulation of Nrl1 Function by Phosphorylation. In *International Journal of Molecular Sciences*, 2021, vol. 22, no. 13, art. no. 7011. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms22137011> (APVV-16-0120 : Objasnenie mechanizmov posttranslačnej regulácie faktorov zostrihu RNA pri udržiavaní stability genómu. VEGA 2/0026/18 : Úloha proteínkináz v procesoch zúčastnených udržiavania stability genómu. VEGA 2/0039/19 : Funkčná analýza regulácie DEAH/RHA helikáz)
- ADCA33 MOSNÁČKOVÁ, Katarína** - MRLÍK, Miroslav - MIČUŠÍK, Matej - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - POPELKA, Anton - OPÁLKOVÁ ŠIŠKOVÁ, Alena - KASÁK, Peter** - DWORAK, Claudia L. - MOSNÁČEK, Jaroslav**. Light-responsive hybrids based on carbon nanotubes with covalently attached PHEMA-g-PCL brushes. In *Macromolecules*, 2021, vol. 54, p. 2412-2426. (2020: 5.985 - IF, Q1 - JCR, 1.994 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0024-9297. Dostupné na: <https://doi.org/10.1021/acs.macromol.0c02701>
- ADCA34 NAHÁLKA, Jozef** - HRABÁROVÁ, Eva. Prebiotic peptides based on the glycocodon theory analyzed with FRET. In *Life*, 2021, vol. 11, art. no. 380 [9] p. (2020: 3.817 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-1729. Dostupné na: <https://doi.org/10.3390/life11050380>
- ADCA35 ÖZGÜNSEVEN, Ayşenur - BARUT, Burak - ŠORAL, Michal - SARI, Suat - AKAYDIN, Galip - ÖZEL, Arzu - ŞÖHRETOĞLU, Didem**. Alpha-glucosidase and tyrosinase inhibition of polyphenols isolated from *Potentilla speciosa* var. *speciosa*: In vitro and in silico perspectives. In *Industrial Crops and Products*, 2021, vol. 170, art. no. 113806 [7] p. (2020: 5.645 - IF, Q1 - JCR, 1.066 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2021.113806>
- ADCA36 PADMANABHAN, Anjali Cheeramthodi - HAN, Dong Suk - ZAVAHIR, Sifani - TKÁČ, Ján - KASÁK, Peter**. Tandem osmotic engine based on hydrogel particles with antipolyelectrolyte and polyelectrolyte effect fuelled by both salinity gradient modes. In *Gels* : open access journal, 2021, vol.7, art. no. 232 [18] p. (2020: 4.702 -

- IF, Q1 - JCR, 0.569 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2310-2861. Dostupné na:
<https://doi.org/10.3390/gels7040232>
- ADCA37 PAULOVÍČOVÁ, Ema** - PAULOVÍČOVÁ, Lucia - POLÁKOVÁ, Monika - PÁNIK, Miroslav - JANTOVÁ, Soňa. In vitro evaluation of immunobiological activity of simple mannanolipids. In *Toxicology in Vitro*, 2021, vol. 70, art. no. 105014 [13] p. (2020: 3.500 - IF, Q2 - JCR, 0.834 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0887-2333. Dostupné na:
<https://doi.org/10.1016/j.tiv.2020.105014>
- ADCA38 PAULOVÍČOVÁ, Ema - KRONEKOVÁ, Zuzana - PAULOVÍČOVÁ, Lucia - MAJERČÍKOVÁ, Monika - KRONEK, Juraj**. Cell-mediated immunoreactivity of poly(2-isopropenyl-2-oxazoline) as promising formulation for immunomodulation. In *Materials*, 2021, vol. 14, art. no. 1371, [18] p. (2020: 3.623 - IF, Q1 - JCR, 0.682 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma14061371>
- ADCA39 PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - BLŠÁKOVÁ, Anna - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján**. Challenges for impedimetric affinity sensors targeting proteins detection. In *Current Opinion in Electrochemistry*, 2021, vol. 28, art. no. 100717 [7] p. (2020: 7.271 - IF, Q1 - JCR, 1.980 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2451-9103. Dostupné na:
<https://doi.org/10.1016/j.coelec.2021.100717>
- ADCA40 PUCHART, Vladimír** - ŠUCHOVÁ, Katarína - BIELY, Peter. Xylanases of glycoside hydrolase family 30 – An overview. In *Biotechnology Advances*, 2021, vol. 47, art. no. 107704 [16] p. (2020: 14.227 - IF, Q1 - JCR, 2.772 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0734-9750. Dostupné na:
<https://doi.org/10.1016/j.biotechadv.2021.107704>
- ADCA41 REMEŠ, Zdeněk** - ARTEMENKO, Anna - UKRAINTSEV, Egor - SHARMA, Dhananjay K. - BURYI, Maksym - KROMKA, Alexander - POTOCKÝ, Štěpán - SZABÓ, Ondrej - KULÍČEK, Jaroslav - REZEK, Bohuslav - MIČOVÁ, Júlia - HSU, Hua Shu. Changes of Morphological, Optical, and Electrical Properties Induced by Hydrogen Plasma on (0001) ZnO Surface. In *Physica Status Solidi A : applications and materials science*, 2021, art. no. 2100427, [7] p. (2020: 1.981 - IF, Q3 - JCR, 0.532 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1862-6300. Dostupné na: <https://doi.org/10.1002/pssa.202100427>
- ADCA42 RUTHERFORD, David** - JÍRA, Jaroslav - KOLÁŘOVÁ, Kateřina - MATOLÍNOVÁ, Iva - MIČOVÁ, Júlia - REMEŠ, Zdeněk - REZEK, Bohuslav. Growth inhibition of Gram-positive and Gram-negative bacteria by zinc oxide hedgehog particles. In *International Journal of Nanomedicine*, 2021, vol. 16, p. 3541-3554. (2020: 6.400 - IF, Q1 - JCR, 1.245 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1176-9114. Dostupné na:
<https://doi.org/10.2147/IJN.S300428>
- ADCA43 SAVKOVÁ, Karin - HUSZÁR, Stanislav - BARÁTH, Peter - PAKANOVÁ, Zuzana - KOZMON, Stanislav - VANCOVÁ, Marie - TESAŘOVÁ, Martina - BLÁŠKO, Jaroslav - KALIŇÁK, Michal - SINGH, Vinayak - KORDULÁKOVÁ, Jana - MIKUŠOVÁ, Katarína**. An ABC transporter Wzm–Wzt catalyzes translocation of lipid-linked galactan across the plasma membrane in mycobacteria. In *Proceedings of the National Academy of Sciences of the United States of America*, 2021, vol. 118, art. no. e2023663118 [10] p. (2020: 11.205 - IF, Q1 - JCR, 5.011 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0027-8424. Dostupné na:
<https://doi.org/10.1073/pnas.2023663118>
- ADCA44 SIVÁKOVÁ, Barbara* - JURČÍK, Ján* - LUKÁČOVÁ, Veronika - SELICKÝ, Tomáš - ČIPÁKOVÁ, Ingrid* - BARÁTH, Peter* - ČIPÁK, Ľuboš*. Label-free

- quantitative phosphoproteomics of the fission yeast *Schizosaccharomyces pombe* using strong anion exchange- and porous graphitic carbon-based fractionation strategies. In *International Journal of Molecular Sciences*, 2021, vol. 22, no. 4, art. no. 1747. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms22041747> (APVV-16-0120 : Objasnenie mechanizmov posttranslačnej regulácie faktorov zostrihu RNA pri udržiavaní stability genómu. VEGA 2/0026/18 : Úloha proteínkináz v procesoch zúčastnených udržiavania stability genómu. VEGA 2/0039/19 : Funkčná analýza regulácie DEAH/RHA helikáz)
- ADCA45 SMULEK, Wojciech** - BURLAGA, Natalia - HRICOVÍNI, Michal - MEDVEĐOVÁ, Alžbeta - KACZOREK, Ewa - HRICOVÍNIOVÁ, Zuzana. Evaluation of surface active and antimicrobial properties of alkyl D-lyxosides and alkyl L-rhamnosides as green surfactants. In *Chemosphere*, 2021, vol. 271, art. no. 129818, [8] p. (2020: 7.086 - IF, Q1 - JCR, 1.632 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0045-6535. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2021.129818>
- ADCA46 SOUKUP, Milan** - RODRIGUEZ ZANCAJO, Victor M. - KNEIPP, Janina - ELBAUM, Rivka**. Formation of root silica aggregates in sorghum is an active process of the endodermis. In *Journal of Experimental Botany*, 2020, vol. 71, p. 6807-6817. (2019: 5.908 - IF, Q1 - JCR, 2.647 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-0957. Dostupné na: <https://doi.org/10.1093/jxb/erz387>
- ADCA47 ŠIMKOVIC, Ivan** - GUCMANN, Filip - MENDICHI, Raniero - GIACOMETTI SCHIERONI, Alberto - PIOVANI, Daniele - DOBROČKA, Edmund - HRICOVÍNI, Miloš. Extraction and characterization of polysaccharide films prepared from *Furcellaria lumbricalis* and *Gigartina skottsbergii* seaweeds. In *Cellulose*, 2021, vol. 28, p. 9567-9588. (2020: 5.044 - IF, Q1 - JCR, 0.948 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0969-0239. Dostupné na: <https://doi.org/10.1007/s10570-021-04138-5>
- ADCA48 ŠÍPOŠOVÁ, Kristína - LABANCOVÁ, Eva - KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová**. Effects of Exogenous Application of Indole-3-Butyric Acid on Maize Plants Cultivated in the Presence or Absence of Cadmium. In *Plants*, 2021, vol. 10, no. 11, art. no. 2503. (2020: 3.935 - IF, Q1 - JCR, 0.892 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2223-7747. Dostupné na: <https://doi.org/10.3390/plants10112503>
- ADCA49 ŠMAK, Pavel - CHANDRABOSE, Selvaraj - TVAROŠKA, Igor - KOČA, Jaroslav**. Pan-selectin inhibitors as potential therapeutics for COVID-19 treatment: in silico screening study. In *Glycobiology*, 2021, vol. 31, p. 975-987. (2020: 4.313 - IF, Q2 - JCR, 1.757 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0959-6658. Dostupné na: <https://doi.org/10.1093/glycob/cwab021>
- ADCA50 ŠMAK, Pavel - TVAROŠKA, Igor** - KOČA, Jaroslav. The catalytic reaction mechanism of tyrosylprotein sulfotransferase-1. In *Physical Chemistry Chemical Physics*, 2021, vol. 23, p. 23850-23860. (2020: 3.676 - IF, Q1 - JCR, 1.053 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/d1cp03718h>
- ADCA51 ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - SPODSBERG, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. Catalytic diversity of GH30 xylanases. In *Molecules*, 2021, vol. 26, art. no. 4528 [14] p. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26154528>

- ADCA52 ŠUCHOVÁ, Katarína - SPODBERG, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter - PUCHART, Vladimír**. Non-specific GH30_7 endo- β -1,4-xylanase from *Talaromyces leycettanus*. In *Molecules*, 2021, vol. 26, art. no. 4614 [13] p. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules26154614>
- ADCA53 ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - BIELY, Peter. A novel bacterial GH30 xylobiohydrolase from *Hungateiclostridium clariflavum*. In *Applied Microbiology and Biotechnology*, 2021, vol. 105, p. 185-195. (2020: 4.813 - IF, Q1 - JCR, 1.074 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-020-11023-x>
- ADCA54 UHLIARIKOVÁ, Iveta** - MATULOVÁ, Mária - CAPEK, Peter**. Optimizing acid hydrolysis for monosaccharide compositional analysis of *Nostoc cf. linckia* acidic exopolysaccharide. In *Carbohydrate Research*, 2021, vol. 508, art. no. 108400 [9] p. (2020: 2.104 - IF, Q3 - JCR, 0.465 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2021.108400>
- ADCA55 VRZOŇOVÁ, Romana - TÓTH, Renáta - SIVÁKOVÁ, Barbara - MÔŤOVSKÁ, Anna - GAPLOVSKÁ-KYSELÁ, Katarína - BARÁTH, Peter - TOMÁŠKA, Ľubomír - GÁCSE, Attila - GABALDÓN, Toni - NOSEK, Jozef - NEBOHÁČOVÁ, Martina**. OCT1 - a yeast mitochondrial thiolase involved in the 3-oxoadipate pathway. In *FEMS Yeast Research*, 2021, vol. 21, art. no. foab034 [12] p. (2020: 2.796 - IF, Q3 - JCR, 0.991 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/foab034>
- ADCA56 YAMASAKI, Sotaro** - SHOJI, Mitsuo** - KAYANUMA, Megumi - SLÁDEK, Vladimír - KEN INAOKA, Daniel - MATSUO, Yuichi - SHIBA, Tomoo - YOUNG, Luke - MOORE, Anthony L. - KITA, Kiyoshi - SHIGETA, Yasuteru. Weak O₂ binding and strong H₂O₂ binding at the non-heme diiron center of trypanosome alternative oxidase. In *Biochimica et Biophysica Acta : Bioenergetics*, 2021, vol. 1862, no. 4, art. no. 148356 [9] p. (2020: 3.991 - IF, Q2 - JCR, 1.590 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0005-2728. Dostupné na: <https://doi.org/10.1016/j.bbabi.2020.148356>
- ADCA57 YASHUNSKY, Dmitri V. - DOROKHOVA, Vera S. - KOMAROVA, Bozhena S. - PAULOVÍČOVÁ, Ema - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E.**. Synthesis of biotinylated pentasaccharide structurally related to a fragment of glucomannan from *Candida utilis*. In *Russian Chemical Bulletin*, 2021, vol. 70, no. 11, p. 2208-2213. (2020: 1.222 - IF, Q4 - JCR, 0.268 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1066-5285. Dostupné na: <https://doi.org/10.1007/s11172-021-3334-9>
- ADCA58 ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - PAKANOVÁ, Zuzana - SIVÁKOVÁ, Barbara - ŠALINGOVÁ, Anna - ŠEBOVÁ, Claudia - OSTROŽLÍKOVÁ, Mária - LEKKA, Dimitra-Evanthia - BRUCKNEROVÁ, Jana - BRUCKNEROVÁ, Ingrid - SKOKŇOVÁ, Martina - MCCULLOUGH, Alexandra - HRČKOVÁ, Gabriela - HLAVATÁ, Anna - BZDÚCH, Vladimír - MUCHA, Ján - BARÁTH, Peter**. A novel homozygous mutation in the human ALG12 gene results in an aberrant profile of oligomannose N-glycans in patient's serum. In *American Journal of Medical Genetics, Part A*, 2021, vol. 185A, p. 3494-3501. (2020: 2.802 - IF, Q3 - JCR, 1.064 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1552-4825. Dostupné na: <https://doi.org/10.1002/ajmg.a.62474>

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 DUJNÍČ, Viera** - MATULOVÁ, Mária - CHYBA, Andrej - PÄTOPRSTÝ, Vladimír. Polysaccharides in *Siraitia grosvenori* flowers and herbal tea. In *Chemical Papers*, 2021, vol. 75, p. 1175-1185. (2020: 2.097 - IF, Q3 - JCR, 0.344 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-020-01347-3>
- ADDA02 HATALA, Michal** - GEMEINER, Pavol - LORENCOVÁ, Lenka - MIKULA, Milan - HVOJNÍK, Matej - PAVLIČKOVÁ, Michaela - HÁZ, Aleš - KOSNÁČ, Daniel - BERTÓK, Tomáš - TKÁČ, Ján. Screen printed conductive carbon layers for dye sensitized solar cells and electrochemical detection of dopamine. In *Chemical Papers*, 2021, vol. 75, p. 3817-3829. (2020: 2.097 - IF, Q3 - JCR, 0.344 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-021-01601-2>

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 BERTÓK, Tomáš - PINKOVÁ GAJDOŠOVÁ, Veronika - BERTÓKOVÁ, Anikó - ŠVECOVÁ, Natália - KASÁK, Peter - TKÁČ, Ján**. Breast cancer glycan biomarkers: their link to tumour cell metabolism and their perspectives in clinical practice. In *Expert Review of Proteomics*, 2021, vol. 18, no. 10, p. 881-910. (2020: 3.940 - IF, Q2 - JCR, 1.099 - SJR, Q2 - SJR). ISSN 1478-9450. Dostupné na: <https://doi.org/10.1080/14789450.2021.1996231>
- ADMA02 HRICOVÍNIOVÁ, Zuzana** - MASCARETTI, Šárka - HRICOVÍNIOVÁ, Jana - ČÍŽEK, Alois - JAMPÍLEK, Josef. New unnatural gallotannins: A way toward green antioxidants, antimicrobials and antibiofilm agents. In *Antioxidants*, 2021, vol. 10, art. no. 1288, p. 1-19. (2020: 6.313 - IF, Q1 - JCR, 1.067 - SJR, Q2 - SJR). ISSN 2076-3921. Dostupné na: <https://doi.org/10.3390/antiox10081288>
- ADMA03 KAMRUZZAMAN, Mohammad** - KELLY, Meagan - CHARLES, Richelle C. - HARRIS, Jason B. - CALDERWOOD, Stephen B. - AKTER, Aklima - BISWAS, Rajib - KAISAR, M. Hasanul - BHUIYAN, Taufiqur R. - IVERS, Louise C. - TERNIER, Ralph - JEROME, Jean-Gregory - PFISTER, Hélène B. - LU, Xiaowei - SOLIMAN, Sameh E. - RUTTENS, Bart - SAKSENA, Rina - MEČÁROVÁ, Jana - ČÍŽOVÁ, Alžbeta - QADRI, Firdausi - BYSTRICKÝ, Slavomír - KOVÁČ, Pavol - XU, Peng - RYAN, Edward T. Defining polysaccharide-specific antibody targets against *Vibrio cholerae* O139 in humans following O139 cholera and following vaccination with a commercial bivalent oral cholera vaccine, and evaluation of conjugate vaccines targeting O139. In *mSphere*, 2021, vol. 6, art. no. e001114-21 [20] p. (2020: 4.389 - IF, Q2 - JCR, 1.749 - SJR, Q1 - SJR). ISSN 2379-5042. Dostupné na: <https://doi.org/10.1128/mSphere.00114-21>
- ADMA04 LAHO, Maroš - ŠEDIVÁ, Mária - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. Fructose and trehalose selectively enhance in vitro sporulation of *Paenibacillus* larvae ERIC I and ERIC II strains. In *Microorganisms*, 2021, vol. 9, art. no. 225 [15] p. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms9020225>
- ADMA05 NAHÁLKA, Jozef**. Theoretical analysis of S, M and N structural proteins by the protein-RNA recognition code leads to genes/proteins that are relevant to the SARS-CoV-2 life cycle and pathogenesis. In *Frontiers in Genetics*, 2021, vol. 12, art. no. 763995. (2020: 4.599 - IF, Q2 - JCR, 1.413 - SJR, Q2 - SJR). ISSN 1664-8021. Dostupné na: <https://doi.org/10.3389/fgene.2021.763995>
- ADMA06 NĚMCOVÁ, Andrea** - GONOVÁ, Dominika - SAMEK, Ota - SPICZKI, Mattias -

- BREIEROVÁ, Emília - MÁROVÁ, Ivana. The use of Raman spectroscopy to monitor metabolic changes in stressed *Metschnikowia* sp. yeasts. In *Microorganisms*, 2021, vol. 9, art. no. 277 [19] p. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms9020277>
- ADMA07 SLÁDEK, Vladimír** - YAMAMOTO, Yuta - HARADA, Ryuhei - SHOJI, Mitsuo - SHIGETA, Yasuteru - SLÁDEK, Vladimír. pyProGA—A PyMOL plugin for protein residue network analysis. In *PLoS ONE*, 2021, vol. 16, art. no. e0255167 [17] p. (2020: 3.240 - IF, Q2 - JCR, 0.990 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: <https://doi.org/10.1371/journal.pone.0255167>
- ADMA08 ŠKODOVÁ-SVERÁKOVÁ, Ingrid** - ZÁHONOVÁ, Kristína - JURICOVÁ, Valéria - DANCHENKO, Maksym - MOOS, Martin - BARÁTH, Peter - PROKOPCHUK, Galina - BUTENKO, Anzhelika - LUKÁČOVÁ, Veronika - KOHÚTOVÁ, Halgašová - BUČKOVÁ, Barbora - HORÁK, Aleš - FAKTOROVÁ, Drahomíra - HORVÁTH, Anton - ŠIMEK, Petr - LUKEŠ, Julius. Highly flexible metabolism of the marine euglenozoan protist *Diplonema papillatum*. In *BMC Biology*, 2021, vol. 19, art. no. 251, [21] p. (2020: 7.431 - IF, Q1 - JCR, 3.952 - SJR, Q1 - SJR). ISSN 1741-7007. Dostupné na: <https://doi.org/10.1186/s12915-021-01186-y>

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 BURYI, Maksym** - REMEŠ, Zdeněk - BABIN, Vladimír - VANĚČEK, Vojtěch - AUBRECHTOVÁ DRAGOUNOVÁ, Kateřina - MIČOVÁ, Júlia - LANDOVÁ, Lucie - KUČERKOVÁ, Romana. ZnO nanorods alloyed with Mo/Er. The effect of post-deposition treatment on defect states and luminescence. In *IOP Conference Series: Materials Science and Engineering*, 2021, vol. 1050, art. no. 012002 [20] p. ISSN 1757-899x. Dostupné na: <https://doi.org/10.1088/1757-899X/1050/1/012002>
- ADMB02 JÍRA, Jaroslav** - RUTHERFORD, David - MIČOVÁ, Júlia - REMEŠ, Zdeněk - REZEK, Bohuslav. Effect of ZnO nanoparticle sizes and illumination on growth inhibition of *Escherichia coli* and *Staphylococcus aureus* bacteria in cultivation medium. In *IOP Conference Series: Materials Science and Engineering*, 2021, vol. 1050, art. no. 012007 [8] p. ISSN 1757-899x. Dostupné na: <https://doi.org/10.1088/1757-899X/1050/1/012007>
- ADMB03 KASÁK, Peter** - SASOVÁ, Jana - SHOHEEDUZZAMAN, Ruqaiya - BAIG, Mirza T. - ALYAFEI, Aldana Ali H. A. - TKÁČ, Ján. Influence of direct electric field on PMCG-alginate-based microcapsule. In *Emergent Materials*, 2021, vol. 4, p. 769-779. ISSN 2522-5731. Dostupné na: <https://doi.org/10.1007/s42247-021-00166-w>
- ADMB04 REMEŠ, Zdeněk** - KROMKA, Alexander - MIČOVÁ, Júlia - REZEK, Bohuslav - PORUBA, Aleš - HSU, Hua-Shu. Optical emission spectroscopy of radio frequency inductively coupled plasma for cold hydrogenation of nanoparticles. In *IOP Conference Series: Materials Science and Engineering*, 2021, vol. 1050, art. no. 012012 [7] p. ISSN 1757-899x. Dostupné na: <https://doi.org/10.1088/1757-899X/1050/1/012012>
- ADMB05 REMEŠ, Zdeněk** - AUBRECHTOVÁ DRAGOUNOVÁ, Kateřina - MIČOVÁ, Júlia. Plasma hydrogenation of hydrothermally grown ZnO micropods. In *NANOCON 2020*. - Ostrava : TANGER Ltd., 2021, 2021, p. 512-517. ISBN 978-80-87294-98-7. Dostupné na: <https://doi.org/10.37904/nanocon.2020.3777> (12th International Conference on Nanomaterials)
- ADMB06 RENDA, Gülin** - ŠORAL, Michal - ŞÖHRETOĞLU, Didem. Isolation of a megastigman glycoside and an indol derivative from *Malva nicaeensis* All. In

Journal of Research in Pharmacy, 2021, vol. 25, p. 564-568. (2020: 0.214 - SJR, Q3 - SJR). ISSN 2630-6344. Dostupné na: <https://doi.org/10.29228/jrp.47>

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADNA01 LEKKA, Dimitra Evanthia - BRUCKNEROVÁ, Jana - ŠALINGOVÁ, Anna - ŠEBOVÁ, Klaudia - OSTROŽLÍKOVÁ, Mária - ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - PAKANOVÁ, Zuzana - SIVÁKOVÁ, Barbara - SKOKŇOVÁ, Martina - BZDÚCH, Vladimír - MUCHA, Ján - BARÁTH, Peter - BRUCKNEROVÁ, Ingrid**. Congenital disorders of glycosylation – an umbrella term for rapidly expanding group of rare genetic metabolic disorders – importance of physical investigation. In Bratislava Medical Journal, 2021, vol. 122, no. 3, p. 190-195. (2020: 1.278 - IF, Q3 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2021_030

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

- AEC01 HRICOVÍNIOVÁ, Zuzana** - MASCARETTI, Šárka - HRICOVÍNIOVÁ, Jana - ČÍŽEK, Alois - JAMPÍLEK, Josef. Unnatural gallotannins. In Encyclopedia : Scholarly Community Encyclopedia, 2021, art. no. 15232, [16] p. ISSN 2309-3366.

AEMA Abstrakty vedeckých prác v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

- AEMA01 NEMČOVIČOVÁ, Ivana - LENHARTOVÁ, Simona - ŠKRABANA, Rostislav - BENKO, Mário - NEMČOVIČ, Marek. Molecular insights into host-virus interaction of human and rhesus cytomegalovirus UL144 mediated by immune checkpoint BTLA and CD160. In Journal of immunology, 2021, vol. 206, no. 1. suppl. 1. (2020: 5.422 - IF, Q2 - JCR, 2.737 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-1767.

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 BELKOVÁ, Martina** - KOSZAGOVÁ, Romana, Repiská - NAHÁLKA, Jozef. Porovnanie aktivity bakteriálnych inklúzných teliesok imobilizovaných magnetickými časticami rôznych kovov. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 528-533. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD02 HAČKULIČOVÁ, Diana** - DZURNÁKOVÁ, Silvia - LABANCOVÁ, Eva - ŠÍPOŠOVÁ, Kristína - KOLLÁROVÁ, Karin. Vplyv kremíka a zasolenia na rast a aktivitu antioxidačných enzýmov koreňov fazule mungo (*Vigna radiata* (L.) Wilczek). In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 115-120. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD03 HAČKULIČOVÁ, Diana** - TELEPKOVÁ, Petra - LABANCOVÁ, Eva -

- ŠÍPOŠOVÁ, Kristína - OBLOŽINSKÝ, Marek - VIVODOVÁ, Zuzana, Vatehová - KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin. Tvorba oxidu dusnatého v koreňoch arábkovky rastúcej v prítomnosti kadmia a galaktoglukomanánových oligosacharidov. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 121-126. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD04 HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Barbora - PIPIKOVÁ, Jana - STRATILOVÁ, Eva - VADKERTIOVÁ, Renáta. Validácia vybraných kmeňov Zbierky kultúr kvasiniek (CCY) metódou hmotnostnej spektrometrie. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 604-609. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD05 HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír. Vplyv chitooligosacharidov na bunkovú stenu kvasiniek *Saccharomyces cerevisiae*. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 598-603. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD06 HURAN, Jozef - BALALYKIN, Nikolay I. - SKRYPNIK, A.P. - SASINKOVÁ, Vlasta - NOZDRIN, Mikhail A. - KOVÁČOVÁ, Eva - SHIRKOV, G.D. Electron beam-plasma vacuum deposition of very thin carbon films on quartz. In Proceedings of ADEPT 2021 : 9th International Conference on Advances in Electronic and Photonic Technologies, Podbanské, High Tatras, Slovakia. Eds. D. Jandura, P. Maniaková, I. Lettrichová, J. Kováč, jr. - Žilina : Univ. Zilina in EDIS-Publishing Centre of UZ, 2021, p. 13-16. ISBN 978-80-554-1806-3.
- AFD07 KALNÍK, Martin** - ZAJÍČKOVÁ, Mária - ŠESTÁK, Sergej - KOÓŠ, Miroslav. Synthesis and biochemical evaluation of mannostatin A analogues. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 622-627. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD08 KAPOOR, Sonam - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - RAČKOVÁ, Lucia - BRNOLIAKOVÁ, Zuzana. Glycoprofiling in rats as a possible tool to model different pharmacological approaches. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 634-639. ISBN 978-80-223-5132-4. (APVV-18-0336 : Inovatívne prístupy v toxikológii starnutia. Vega č. 2/0104/21 : Použitie hmotnostnej spektrometrie na porovnanie glykoprofilov rôznych kmeňov potkanov v intervencii metabolických porúch. ITMS2014+: 313021Y920 : Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení. Študentská vedecká konferencia PriF UK 2021)
- AFD09 KOSZAGOVÁ, Romana, Repiská** - BELKOVÁ, Martina - NAHÁLKA, Jozef.

- Mangánové kovové častice - alternatívny imobilizačný materiál. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 645-650. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD10 PANČÍK, Filip - PAKANOVA, Zuzana - MEČÁROVÁ, Jana - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Slavomír - KOZMON, Stanislav - BARÁTH, Peter. MALDI-TOF/TOF analýzy sacharidových zložiek lipopolysacharidu z baktérie Vibrio Cholerae O 139. In ChemZi. - Bratislava : Slovenská chemická spoločnosť, 2019, 2021, roč. 17, č. 1, s. 184-185, art. no. 2Po11. ISSN 1336-7242.
- AFD11 PANČÍK, Filip - PAKANOVA, Zuzana - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - NEMČOVIČ, Marek - KOZMON, Stanislav - BARÁTH, Peter. Non-invasive diagnostics of MPS IIIA. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 715-720. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD12 REMEŠ, Zdeněk** - BURYI, Maksym - SHARMA, Dhananjay K. - KROMKA, Alexander - POTOCKÝ, Štěpán - SHAGIEVA, Ekaterina - PORUBA, Aleš - MIČOVÁ, Júlia. Surface treatment of ZnO microrods by the inductively coupled hydrogen plasma with self-biased holder. In Proceedings of ADEPT 2021 : 9th International Conference on Advances in Electronic and Photonic Technologies, Podbanské, High Tatras, Slovakia. Eds. D. Jandura, P. Maniaková, I. Lettrichová, J. Kováč, jr. - Žilina : Univ. Žilina in EDIS-Publishing Centre of UZ, 2021, p. 37-40. ISBN 978-80-554-1806-3.
- AFD13 ŠÍPOŠOVÁ, Kristína** - HIPÍKOVÁ, Dominika - LABANCOVÁ, Eva - OBLOŽINSKÝ, Marek - KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová. Vplyv auxínu na aktivitu antioxidačných enzýmov v nadzemných častiach kukurice siatej (Zea mays L.) rastúcich v prítomnosti kadmia. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 434-439. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD14 ŠÍPOŠOVÁ, Kristína** - HAČKULIČOVÁ, Diana - STRATILOVÁ, Barbora - LABANCOVÁ, Eva - VIVODOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin. Zmeny v aktivite peroxidáz viazaných na bunkovú stenu kukurice pod vplyvom auxínu a kadmia. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 428-433. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 BARALIĆ, Marko - GRIGORIJEVIĆ, Nikola** - BRKOVIĆ, Voin - KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - MILJUŠ, Goran - PENEZIĆ, Ana - DOBRIJEVIĆ, Zorana - LAUŠEVIĆ, Mirjana - NEDIĆ, Olgica - ROBAJAC, Dragana. Fibrinogen glycosylation of end-stage renal disease patients on peritoneal

- dialysis. In International Fibrinogen Research Society Mini-symposium, 15.-16.6.2021 University of Geneva, Švajčiarsko. - Geneva : University of Geneva, 2021, p12.
- AFG02 BLŠÁKOVÁ, Anna - KVĚTON, Filip - LORENCOVÁ, Lenka - TKÁČ, Ján. Detection of autoantibodies against aberrant glycans present in cancer diseases. In XXI. Workshop of Biophysical Chemists and Electorchemists. - Brno : Masaryk University Press, 2021, p. 45. ISBN 978-80-210-9943-2.
- AFG03 BURYI, Maksym - REMEŠ, Zdeněk - DĚCKÁ, Kateřina - MIČOVÁ, Júlia. Transformation of ZnO-Based Structures Under Heavy Mo Doping: Defect States and Luminescence. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 78-79. ISBN 978-80-88365-00-6.
- AFG04 HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti - HAMMEROVÁ, Zuzana - WIMMEROVÁ, Michaela - KOČA, Jaroslav. The analysis of CH- π interaction in protein-carbohydrate binding. In 25th Congress of the International Union of Crystallography, 14-22 August, Prague, Czech Republic. - Praha, 2021.
- AFG05 HRICOVÍNÍ, Michal. Molecular structure of dermatan sulphate tetrasaccharide. In ECMC 2021: 7th International Electronic Conference on Medicinal Chemistry, November 1-30, 2021, Basel. - Basel : MDPI, 2021, sciforum-053223.
- AFG06 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive amperometric nanobiosensors for detection of sarcosine - potential prostate cancer marker - in urine. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 51. ISBN 978-80-88365-00-6.
- AFG07 KOZMON, Stanislav - KOČA, Jaroslav. What we have learned on the carbohydrate - receptor interactions. In Jaroslav Koča Memorial Colloquium on Computational and Structural Biology, 30th November 2021, Brno, Czech Republic : Book of Abstracts. - Brno : Masaryk University, 2021, p. 13-14.
- AFG08 LORENCOVÁ, Lenka - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - KASÁK, Peter - TKÁČ, Ján. Advanced 2D nanoscaled "MXene" interfaces as perspective immobilization platforms for design of (bio)sensors. In 3rd European BioSensor Symposium EBS ONLINE 2021, 9th – 12th March, 2021, Wildau, Germany. - 2021, p 38.
- AFG09 LU, X. - DAMBORSKÝ, Pavel - MUNIEF, W. - KATRLÍK, Jaroslav - CHEN, X. - INGEBRANDT, S.** - PACHAURI, V. Improving SPR limit-of-detection at gold-graphene oxide interfaces by thermal annealing and electrical bias. In Biosensors 2021 - 31st Anniversary World Congress on Biosensors, organizer: Elsevier / Biosensors & Bioelectronics, dátum: 26.-29.7.2021. - 2021, p3.051.
- AFG10 PAVLÍČKOVÁ, Michaela - HATALA, Michal - LORENCOVÁ, Lenka - GEMEINER, Pavol. Screen-printed MoS₂ electrodes for electrochemical sensing of dopamine. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 91. ISBN 978-80-88365-00-6.
- AFG11 PIPIKOVÁ, Jana - SCHUSTEROVÁ, Hana - HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Barbora - VADKERTIOVÁ, Renáta. Yeasts associated with wild plants of the Fabaceae family inhabiting meadows in Slovakia. In ICY15 meets ICYGMB30, 23 – 27 August, 2021, Vienna, Austria. - Vienna, 2021, d16, p. 399.
- AFG12 PIPPIG, Falko** - ŠORAL, Michal - BARÁTH, Peter - MONCOL, Ján - MOSNÁČEK, Jaroslav. Synthesis of small molecules and polymers via reaction of

- Tulipalin A with diamines. In 5th EuGSC : European Conference on Green and Sustainable Chemistry : Conference Proceedings. - Athens : Association of Greek Chemists, 2021, p. 85-86. Dostupné na internete: <www.5eugsc.org>
- AFG13 REMEŠ, Zdeněk - BURYI, Maksym - SHARMA, Dhananjay K. - ARTEMENKO, Anna - MIČOVÁ, Júlia - REZEK, Bohuslav - PORUBA, Aleš - HSU, Hua Shu - POTOCKÝ, Štěpán - BABIN, Vladimír. Emergence of dark ZnO nanorods by hydrogen plasma treatment. In NANOCON 2021-Abstracts : 13th International Conference on Nanomaterials - Research & Application, October 20-22, 2021, Brno, Czech Republic. - Ostrava, Czech Republic : TANGER Ltd., 2021, p. 121. ISBN 978-80-88365-00-6.
- AFG14 ROBAJAC, Dragana** - DOBRIJEVIĆ, Zorana - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - ŠUNDERIĆ, Miloš - GLIGORIJEVIĆ, Nikola - PENEZIĆ, Ana - MILJUŠ, Goran - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes in serum glycans in pregnant women with gestational diabetes mellitus. In Serbian Biochemical Society Tenth Conference with International Participation, 24. 09. 2021, Kragujevac, Serbia : Biochemical Insights into Molecular Mechanisms. - Belgrade : Faculty of Chemistry, Serbian Biochemical Society, 2021, p. 140-141.
- AFG15 SAVKOVÁ, Karin** - HUSZÁR, Stanislav - BARÁTH, Peter - PAKANOVÁ, Zuzana - KOZMON, Stanislav - VANCOVÁ, Marie - TESAŘOVÁ, Martina - BLÁŠKO, Jaroslav - KALIŇÁK, Michal - SINGH, Vinayak - KORDULÁKOVÁ, Jana - MIKUŠOVÁ, Katarína. Functional characterization an ABC transporter WZM-WZT involved in the translocation of galactan precursors across the plasma membrane in mycobacteria. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 54. ISBN 978-80-907779-1-0.
- AFG16 STRATILOVÁ, Barbora - STRATILOVÁ, Eva - KOZMON, Stanislav**. Xyloglucan endotransglycosylase (XET) substrate interactions study. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 50. ISBN 978-80-907779-1-0.
- AFG17 ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - BIELY, Peter. Xylanases of glycoside hydrolase family 30: Structure-function relationship. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 55. ISBN 978-80-907779-1-0.
- AFG18 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - HÍREŠ, Michal - JÁNÉ, Eduard - PINKOVÁ GAJDOŠOVÁ, Veronika - BLŠÁKOVÁ, Anna. Nanotechnology – based biosensing: Application cancer diagnostics. „ Life is Biochemistry, Biochemistry is Life“. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 74. ISBN 978-80-907779-1-0.
- AFG19 TVAROŠKA, Igor. Glycosyltransferases as targets for therapeutic intervention in cancer and inflammation: molecular modeling insights. In Jaroslav Koča Memorial Colloquium on Computational and Structural Biology, 30th November 2021, Brno,

Czech Republic : Book of Abstracts. - Brno : Masaryk University, 2021, p. 15-16.

AFH Abstrakty príspevkov z domácich konferencií

- AFH01 AGUEDO, Juvissan - LORENCOVÁ, Lenka - PAKANOVÁ, Zuzana - TKÁČ, Ján. Glycomic technology for glycotarget discovery. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 86. ISSN 1336-7242.
- AFH02 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - LORENCOVÁ, Lenka - TKÁČ, Ján. Detekcia protilátok voči aberantným glykánom. In Drobníčov memoriál : Zborník príspevkov a program. 11. ročník. Chata Trubárka, Trenčín - Kubrica, 2. - 4. september 2021. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, SAV, 2021, s. 55. ISBN 978-80-972752-8-0.
- AFH03 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - LORENCOVÁ, Lenka - TKÁČ, Ján. Ultracitlivá detekcia autoprotílátok voči aberantným glykánom prítomných pri rakovinových ochoreniach. In ChemZi : Zborník abstraktov: 73. Zjazd chemikov, 6. -10. september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2019, 2021, roč. 17, s. 157. ISSN 1336-7242.
- AFH04 CVEČKO, Matej** - KIS, Peter - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Synthesis of chromogenic probes for detection and assay of diglycosidases. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract No. 2228. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH05 DANKO, Martin** - KRONEKOVÁ, Zuzana - KRUPA, Igor - TKÁČ, Ján - KASÁK, Peter**. Exchange counterion in polycationic hydrogels: Tunability of hydrophobicity, water state and floating capability. In ChemZi : Slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel, 2021, roč. 17, č. 1, s. 142. ISSN 1336-7242. (73. Zjazd chemikov)
- AFH06 HÍREŠ, Michal - JÁNÉ, Eduard - MEGO, Michal - CHOVANEC, Michal - HAINOVÁ, Katarína - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sledovanie glykánových profilov HCG ako identifikácia rezistencie bunkových línií na CIS-Platinu. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p.84, 1P22. ISSN 1336-7242.
- AFH07 HRICOVÍNI, Michal. 3D Structure of new salicin-type glycoconjugate - NMR and DFT study. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2114. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH08 HRICOVÍNI, Michal** - ASHER, James - HRICOVÍNI, Miloš. Spectroscopic and theoretical studies of anti-syn isomerization across the -N-N. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, s. 182, 2Po05. ISSN 1336-7242.
- AFH09 HRICOVÍNI, Michal - HRICOVÍNI, Miloš**. The role of substitution pattern on molecular structure and NMR parameters in glycosaminoglyca. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, 182, 2Po06. ISSN 1336-7242.
- AFH10 HRICOVÍNIOVÁ, Jana - POSPÍŠILOVÁ, Šárka - JAMPÍLEK, Josef -

- AFH11 HRICOVÍNIOVÁ, Zuzana**. Novel hamamelitannin analogues: antioxidant and anti-biofilm activity. In ChemZi : Zborník abstraktov: 73. Zjazd chemikov, 6 - 10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2019, 2021, roč. 17, č. 1, s. 212. ISSN 1336-7242.
- AFH12 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Detection of ZAG Glycoprotein as a Potential Prostate Cancer Biomarker. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 85, 1P25. ISSN 1336-7242.
- AFH13 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Ampérometrický enzýmový nanobiosenzor na citlivú detekciu sarkozínu – potencionalného biomarkera rakoviny prostaty. In Chémia a technológie pre život. - Fakulta chemickej a potravinárskej technológie, STU v Bratislave : Slovenská chemická knižnica, p. ISBN 978-80-8208-042-4.
- AFH14 KALNÍK, Martin** - MONCOL, Ján - KÓŇA, Juraj - KOÓŠ, Miroslav - BELLA, Maroš. Synthesis of 5-benzylswainsonines as selective inhibitors of GH38 α -mannosidases. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2093. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH15 KAPOOR, Sonam - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - RAČKOVÁ, Lucia - BRNOLIAKOVÁ, Zuzana. The assessment of N-glycans glycoprofiles derived from blood serum of different rat strains. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2185. ISBN 978-80-972360-7-6. Dostupné na internete: <https://abstracts.preveda.sk/?abstract=2185> (ITMS2014+: 313021Y920 : Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení. APVV-18-0336 : Inovatívne prístupy v toxikológii starnutia. Vega č. 2/0104/21 : Použitie hmotnostnej spektrometrie na porovnanie glykoprolífov rôznych kmeňov potkanov v intervencii metabolických porúch. Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH16 KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína - NEMČOVIČ, Marek - BARÁTH, Peter - PAKANOVÁ, Zuzana. Glycoprofiling of the SARS-COV-2 Spike Glycoprotein. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 164, 1Po12. ISSN 1336-7242.
- AFH17 KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK, Filip - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICÁ, Jana - KATRLÍK, Jaroslav. Glykoprolífiácia sér, depletovaných sér a imunoglobulínu G u detí v súvislosti s hyperkinetickou poruchou (ADHD) metódou MALDI-TOF MS. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2230. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH18 KUNDALIA, Paras - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KATRLÍK,

- Jaroslav. Affinity Based High-throughput determination of Abberant Glykosylation in Cancer. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 178, 1Po39. ISSN 1336-7242.
- AFH19 KVĚTOŇ, Filip** - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - MUCHA, Ján. Optimalizácia derivatizácie glykánov určených k analýze kyseliny sialovej zo vzoriek séra. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, s. 167, 1Po18. ISSN 1336-7242.
- AFH20 KVĚTOŇ, Filip** - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - POLIAKOVÁ, Lucia - ŠALINGOVÁ, Anna - BARÁTH, Peter. Optimalizácia štruktúrálnej analýzy apolipoproteínu CIII pomocou hmotnostnej spektrometrie. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, s. 248, 6Po20. ISSN 1336-7242.
- AFH21 LENHARTOVÁ, Simona - NEMČOVIČ, Marek. New insight to immunomodulatory potential of human CD160 receptor in cytomegalovirus immune signaling. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2112. ISBN 978-80-972360-7-6. (VEGA 2/0020/18 : Molekulárne imunorozpoznávanie vírusového UL144 glykoproteínu endogénnymi signálnymi molekulami a ich klinický význam. Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH22 LORENCOVÁ, Lenka - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - KASÁK, Peter - TKÁČ, Ján. Perspektívne imobilizačné platformy na báze pokročilých 2D nanorozmerných MXénových rozhraní pre návrh (bio)senzorov. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 168, 1Po19. ISSN 1336-7242.
- AFH23 PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MILKOVIĆ, Željko - KATRLÍK, Jaroslav. Analýza zmien glykánového zloženia sér v súvislosti s tehotenskou cukrovkou pomocou microarray metódy založenej na lektínoch. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2239. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH24 PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav. Sledovanie zmien glykánového zloženia sér a plazmy vo vzorkách tehotenskej cukrovky na lektínoch založenou microarray metódou. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 83, 1P21. ISSN 1336-7242.
- AFH25 PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - MIKOVIĆ, Željko - RADOJIČIĆ, Ognjen - KATRLÍK, Jaroslav. Glykoprolifácia sér a plazmy vzoriek tehotenskej cukrovky pomocou na lektínoch založenej

microarray. In Drobníčov memoriál : Zborník príspevkov a program. 11. ročník. Chata Trubárka, Trenčín - Kubrica, 2. - 4. september 2021. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, SAV, 2021, p. 46. ISBN 978-80-972752-8-0.

- AFH26 PINKOVÁ GAJDOŠOVÁ, Veronika - PAŽITNÁ, Lucia - KVĚTOŇ, Filip - JÁNĚ, Eduard - PAKANOVÁ, Zuzana - LORENCOVÁ, Lenka - BARÁTH, Peter - KATRLÍK, Jaroslav - TKÁČ, Ján. Glykoprolíácia sér pomocou MICROARRAY a MALDY-TOF MS u pacientiek s rakovinou prsníka. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 172, 1Po27. ISSN 1336-7242.
- AFH27 PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - TKÁČ, Ján. Elektrochemická detekcia vlastností MXénu modifikovanéhoderivátmi aryldiazóniových betaínov. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2113. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH28 PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - TKÁČ, Ján. Elektrochemická detekcia medzifázových vlastností MXénu Ti3C2Tx modifikovaného derivátmi aryldiazóniových betaínov. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 394-399. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFH29 POSPÍŠILOVÁ, Šárka** - HRICOVÍNIOVÁ, Jana - ČÍŽEK, Alois - JAMPÍLEK, Josef - HRICOVÍNIOVÁ, Zuzana. Antioxidant, antibacterial and anti-biofilm activity of new unnatural gallotannins. In PREVEDA Interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2096. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)
- AFH30 ŠVECOVÁ, Natália - BERTÓK, Tomáš - LORENCOVÁ, Lenka - TKÁČ, Ján. Inovatívne prístupy v diagnostike karcinómu prostaty. In ChemZi : Zborník abstraktov: 73. zjazd chemikov, 6-10 september 2021, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2021, 2021, roč. 17, p. 172, 1Po34. ISSN 1336-7242.
- AFH31 TKÁČ, Ján** - BERTÓK, Tomáš - LORENCOVÁ, Lenka - HÍREŠ, Michal - JÁNĚ, Eduard - PINKOVÁ GAJDOŠOVÁ, Veronika - BLŠÁKOVÁ, Anna. Nanotechnology in biosensing and bioanalysis. In The 5th International Conference on Nanomaterials: Fundamentals and Applications Abstract Book. 10 October - 13 October 2021, Štrbské pleso. SR. - 2021, p. 11. ISBN 978-80-574-0039-4.

AFK Postery zo zahraničných konferencií

- AFK01 AMBRO, Ľuboš - LUKÁČOVÁ, Magdaléna - HADŽEGA, Dominik - LINK, R. - KLUČÁR, Ľuboš - DANCHENKO, Maksym - BARÁTH, Peter. Cryptic plasmids of the Lactiplantibacillus plantarum LS/07 probiotic co-determine its membrane-associated proteome and secreted proteome. In Tomáškovy dny 2021 : XXX. konferencia mladých mikrobiológů. - Brno : Masarykova univerzita, 2021, p. P01. ISBN 978-80-210-9882-4. (Konferencia mladých mikrobiológů)
- AFK02 LENHARTOVÁ, Simona - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana - BENKO, Mário. New insight to immunomodulatory potential of viral glycoprotein UL144 (encoded by Human and Rhesus CMV) and its binding to human cell

- receptor CD160. In Tomáškovy dny 2021 : XXX. konference mladých mikrobiológů. - Brno : Masarykova univerzita, 2021, p. 49. ISBN 978-80-210-9882-4. (APVV-19-0376 : Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: Liečenie aj napriek trikom. Konference mladých mikrobiológů)
- AFK03 LENHARTOVÁ, Simona - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana. The molecular architecture of viral glycoprotein UL144 in complex with human CD160 receptor revealed by initial crystallographic analysis. In FEBS Practical Course 2021. Advanced Methods in Macromolecular Crystallization IX : Advanced Courses, p8.
- AFK04 NOVÁKOVÁ, Slavomíra - DANCHENKO, Maksym - OKAJČEKOVÁ, Terézia - BARANOVIČOVÁ, Eva - KOVÁČ, Andrej - GRENDÁR, Marián - BEKE, Gábor - PÁLEŠOVÁ, Janka - STRNÁDEL, Ján - JANÍČKOVÁ, Mária - HALAŠOVÁ, Erika - ŠKOVIEROVÁ, Henrieta. Comparative proteomic and metabolomic analysis of human osteoblasts, differentiated from dental pulp stem cells, revealed signaling pathways promoting osteogenesis. In XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : "Life is Biochemistry, Biochemistry is Life". České Budějovice, Czech Republic, August 29th - September 1st, 2021. - Praha : Venice, 2021, p. 161. ISBN 978-80-907779-1-0.

AFL Postery z domácich konferencií

- AFL01 HORVÁTHOVÁ, Eva - MASTIHUBOVÁ, Mária - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - ANTALOVÁ, V. - MASTIHUBA, Vladimír. Structure derivation of salidroside and the activity of derivatives in cellular and cell-free assays. In Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2021, vol. 14, suppl. 1, p. 31-32. (2020: 0.297 - SJR, Q3 - SJR). (2021 - SCOPUS). ISSN 1337-6853. (TOXCON 2021 : Interdisciplinary Toxicological Conference. Vega č. 2/0126/19 : Diglykozidázy v biokatalýze. VEGA 1/0460/21 : Interakcie bioaktívnych látok a nízkoteplotnej plazmy. ITMS 26240120008 : Centrum excelentnosti pre translačný výskum v molekulárnej medicíne (TRANSMED). ITMS 26240220071 KC UK : Vybudovanie Kompetenčného centra pre výskum a vývoj v oblasti molekulárnej medicíny)

BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných

- BDCA01 LUX, Alexander** - KOHANOVÁ, Jana - WHITE, Philip J. The secrets of calcicole species revealed. In Journal of Experimental Botany, 2021, vol. 72, p. 968-970. (2020: 6.992 - IF, Q1 - JCR, 2.616 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-0957. Dostupné na: <https://doi.org/10.1093/jxb/eraa555>

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEE01 KOŠTÁLOVÁ, Zuzana** - HROMÁDKOVÁ, Zdenka. A comparative study of different polysaccharides focused on carbohydrate analysis. In Proceedings of the 17th International Conference on Polysaccharides-Glycoscience 11 - 12 November 2021 Prague. - Prague : Czech Chemical Society, 2018, s. 85-87. ISSN 2336-6796.

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy,

slovníky, zborníky, atlasy ...)

- FAI01 PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts = PREVEDA Interactive Conference of Young Scientists 2021. Editori: Miroslav Ferko, Pavol Farkaš. Banská Bystrica : Občianske združenie Preveda, 2021. 121 abstraktov. Dostupné na internete: <https://abstracts.preveda.sk/index.php>. ISBN 978-80-972360-7-6 (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

- GHG01 MISHRA, Shubhi - GUDKOV, Dmitri - BARÁTH, Peter - DANCHENKO, Maksym. Can chronic ionizing radiation compromise plant immunity? In PLANT BIOLOGY EUROPE 2021 : abstract book, 28 June - 1 July, 2021. - Turin, 2021.

Ohlasy (citácie):

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

- ABA01 HEINZE, T. - KOSCHELLA, A. - EBRINGEROVÁ, Anna. Chemical functionalization of xylan: A short review. In ACS Symposium Series 864. Hemicelluloses: Science and Technology. - Washington : American Chemical Society, 2004. ISBN 0-8412-3842-1.
Citácie:
1. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO, Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming. Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>., Registrované v: WOS

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 ČERTÍK, Milan - HANUSOVÁ, V. - BREIEROVÁ, Emília - MÁROVÁ, I. - RAPTA, Peter. Biotechnological production and properties of carotenoid pigments. In Biocatalysis and Agricultural Biotechnology. - Boca Raton: CRC Press : Taylor & Francis Group, p. 355-376. ISBN 978-1-42007-703-2.
Citácie:
1. [1.1] MOHAMED, Hassan - EL-SHANAWANY, Abdel-Rahim - SHAH, Aabid Manzoor - NAZIR, Yusuf - NAZ, Tahira - ULLAH, Samee - MUSTAFA, Kiren - SONG, Yuanda. Comparative Analysis of Different Isolated Oleaginous Mucoromycota Fungi for Their gamma-Linolenic Acid and Carotenoid Production. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/3621543>., Registrované v: WOS
- ABC02 HEIFETZ, Alexander - SLÁDEK, Vladimír - TOWNSEND-NICHOLSON, Andrea - FEDOROV, Dmitri G.**. Characterizing protein-protein interactions with the fragment molecular orbital method. In Quantum Mechanics in Drug Discovery. Series: Methods in Molecular Biology. - New York : Springer (Humana Press

imprint), 2020, 2020, vol. 2114, chapter 13, p. 187-205. ISBN 978-1-0716-0281-2.
Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_13

Citácie:

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

ABC03

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

Citácie:

1. [1.1] CESPEDES, Maria Virtudes - CANO-GARRIDO, Olivia - ALAMO, Patricia - SALA, Rita - GALLARDO, Alberto - SERNA, Naroa - FALGAS, Aida - VOLTA-DURAN, Eric - CASANOVA, Isolda - SANCHEZ-CHARDI, Alejandro - LOPEZ-LAGUNA, Hector - SANCHEZ-GARCIA, Laura - SANCHEZ, Julieta M. - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Engineering Secretory Amyloids for Remote and Highly Selective Destruction of Metastatic Foci. In ADVANCED MATERIALS. ISSN 0935-9648, 2020, vol. 32, no. 7, pp. Dostupné na: <https://doi.org/10.1002/adma.201907348>., Registrované v: WOS

2. [1.1] RACKOVA, Lu - CSEKES, Erika. Proteasome Biology: Chemistry and Bioengineering Insights. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12122909>., Registrované v: WOS

3. [1.1] SANCHEZ, Julieta M. - LOPEZ-LAGUNA, Hector - ALAMO, Patricia - SERNA, Naroa - SANCHEZ-CHARDI, Alejandro - NOLAN, Veronica - CANO-GARRIDO, Olivia - CASANOVA, Isolda - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Artificial Inclusion Bodies for Clinical Development. In ADVANCED SCIENCE, 2020, vol. 7, no. 3, pp. Dostupné na: <https://doi.org/10.1002/advs.201902420>., Registrované v: WOS

4. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* BL21(DE3) and characterization by FT-IR Spectroscopy. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>., Registrované v: WOS

ABC04

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

Citácie:

1. [1.1] CLAVERIE, M. - MCREYNOLDS, C. - PETITPAS, A. - THOMAS, M. - FERNANDES, S.C.M. Marine-Derived Polymeric Materials and Biomimetics: An Overview. In POLYMERS. eISSN: 2073-4360, 2020, vol. 12, no. 5, art. no. 1002., Registrované v: WOS

2. [1.1] ZHAO, Z.Y. - FAN, C.J. - CHEN, F. - SUN, Y.T. - XIA, Y.J. - JI, A.Y. - WANG, D.A. Progress in Articular Cartilage Tissue Engineering: A Review on

Therapeutic Cells and Macromolecular Scaffolds. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2020, vol. 20, no. 2, art. no. 1900278., Registrované v: WOS

- ABC05 KRONEK, Juraj - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Biocompatibility and immunocompatibility assessment of poly(2-oxazolines). In Practical applications in biomedical engineering. - Rijeka, Croatia : InTech, 2012, chapter 11, P. 257- 284. ISBN 978-953-51-0924-2.

Citácie:

1. [1.1] BERNHARD, Y. - SEDLACEK, O. - VAN GUYSE, J.F.R. - BENDER, J. - ZHONG, Z.F. - DE GEEST, B.G. - HOOGENBOOM, R. Poly(2-ethyl-2-oxazoline) Conjugates with Salicylic Acid via Degradable Modular Ester Linkages. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3207-3215., Registrované v: WOS

- ABC06 MAROVA, Ivana - CERTIK, M. - BREIEROVÁ, Emília. Production of enriched biomass by carotenogenic yeasts – application of whole-cell yeast biomass to production of pigments and other lipid compounds. In Biomass – detection, production and usage. - Rijeka : InTech, 2011, chapter 18. p. 345-384. ISBN 978-953-307-492-4.

Citácie:

1. [1.1] CAROLINA VINARTA, Silvana - VIRGINIA ANGELICOLA, Maria - VAN NIEUWENHOVE, Carina - JAVIER AYBAR, Manuel - CASTELLANOS DE FIGUEROA, Lucia Ines. Fatty acids profiles and estimation of the biodiesel quality parameters from *Rhodotorula* spp. from Antarctica. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 5, pp. 757-772. Dostupné na: <https://doi.org/10.1007/s10529-020-02796-2>., Registrované v: WOS

2. [1.1] KIELISZEK, Marek - BLAZEJAK, Stanislaw - BZDUCHA-WROBEL, Anna - KOT, Anna M. Effect of Selenium on Lipid and Amino Acid Metabolism in Yeast Cells. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2019, vol. 187, no. 1, pp. 316-327. Dostupné na: <https://doi.org/10.1007/s12011-018-1342-x>., Registrované v: WOS

3. [1.1] SCHROEDER, Aline - SOUZA, Diego H. - FERNANDES, Mylena - RODRIGUES, Eduardo B. - TREVISAN, Viviane - SKORONSKI, Everton. Application of glycerol as carbon source for continuous drinking water denitrification using microorganism from natural biomass. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2020, vol. 256, no., pp. Dostupné na: <https://doi.org/10.1016/j.jenvman.2019.109964>., Registrované v: WOS

4. [1.1] USMANI, Zeba - SHARMA, Minaxi - SUDHEER, Surya - GUPTA, Vijai K. - BHAT, Rajeev. Engineered Microbes for Pigment Production Using Waste Biomass. In CURRENT GENOMICS. ISSN 1389-2029, 2020, vol. 21, no. 2, pp. 80-95. Dostupné na: <https://doi.org/10.2174/1389202921999200330152007>., Registrované v: WOS

- ABC07 MARTINKA, Michal - VACULÍK, Marek - LUX, Alexander. Plant cell responses to cadmium and zinc. In Applied Plant Cell Biology. - Berlin Heidelberg : Springer, 2014, s. 209-246. ISBN 978-3-642-41786-3. Dostupné na: https://doi.org/10.1007/978-3-642-41787-0_7

Citácie:

1. [1.1] BRANKOV, M. - SIMIC, M. - DOLJANOVIC, Z. - RAJKOVIC, M. - MANDIC, V. - DRAGICEVIC, V. The Response of Maize Lines to Foliar Fertilizing. In AGRICULTURE-BASEL. SEP 2020, vol. 10, no. 9., Registrované v:

WOS

2. [1.1] LABUDDA, M. - MUSZYNSKA, E. - GIETLER, M. - ROZANSKA, E. - RYBARCZYK-PLONSKA, A. - FIDLER, J. - PRABUCKA, B. - DABABAT, A.A. *Efficient antioxidant defence systems of spring barley in response to stress induced jointly by the cyst nematode parasitism and cadmium exposure. In PLANT AND SOIL. ISSN 0032-079X, NOV 2020, vol. 456, no. 1-2, p. 189-206., Registrované v: WOS*

3. [1.1] MARTINEZ, S. - SAENZ, M.E. - ALBERDI, J.L. - DI MARZIO, W.D. *Comparative ecotoxicity of single and binary mixtures exposures of cadmium and zinc on growth and biomarkers of Lemna gibba. In ECOTOXICOLOGY. ISSN 0963-9292, JUL 2020, vol. 29, no. 5, p. 571-583., Registrované v: WOS*

4. [1.1] ZHOU, Y.M. - LONG, S.S. - LI, B.Y. - HUANG, Y.Y. - LI, Y.J. - YU, J.Y. - DU, H.H. - KHAN, S. - LEI, M. *Enrichment of cadmium in rice (Oryza sativaL.) grown under different exogenous pollution sources. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, DEC 2020, vol. 27, no. 35, SI, p. 44249-44256., Registrované v: WOS*

ABC08 SCHILLER, Jürgen - VOLPI, Nikola - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. *Hyaluronic acid: a natural biopolymer : chapt. 1. In Biopolymers: biomedical and environmental applications. - Salem : Scrivener : Wiley, 2011, p. 3-34. ISBN 978-0-470-63923-8. Dostupné na: <https://doi.org/10.1002/9781118164792.ch1> (VEGA č. 2/0056/10 : Štúdium využitia patogén-hostiteľ glykoproteínových interakcií v boji so samotným patogénom. VEGA č. 2/0011/11 : Štúdium pôsobenia reaktívnych foriem kyslíka a dusíka na vysokomolekulový hyalurónan, synoviocyty a chondrocyty)*

Citácie:

1. [1.2] ZHANG, Jun - MAO, Hanyan - ZOU, Xi - DENG, Guohua. *Use of medical sodium hyaluronate gel in surgical removal of a glass intraocular foreign body. In Journal of International Medical Research. ISSN 03000605, 2020-01-01, 48, 9, pp., Registrované v: SCOPUS*

ABC09 TKÁČ, Ján - BERTÓK, Tomáš - NAHÁLKA, Jozef - GEMEINER, Peter. *Perspectives in glycomics and lectin engineering. In HIRABAYASHI, Jun: Lectins: Methods and Protocols (Series: Methods in Molecular Biology). - New York : Humana Press, imprint of Springer Media, 2014, vol. 1200, chapter 37, p. 421-445. ISBN 978-1-4939-1291-9. Dostupné na: https://doi.org/10.1007/978-1-4939-1292-6_37*

Citácie:

1. [1.1] KASHAW, Sushil K. - SAHU, Prashant - RAJORIYA, Vaibhav - JANA, Pradeep - KASHAW, Varsha - SAU, Samareesh - IYER, Arun K. *Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 27, pp. 3234-3250. Dostupné na: <https://doi.org/10.2174/1381612826666200417143800>., Registrované v: WOS*

ABC10 TKÁČ, Ján - DAVIS, J. *Label-free field effect protein sensing*

Citácie:

1. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. - NUZAIHAN, M. M. - FATHIL, M. F. M. - SHAMSUDDIN, Shahidah Arina. *Immunosensing prostate-specific antigen: Faradaic vs non-Faradaic electrochemical impedance spectroscopy analysis on interdigitated microelectrode device. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 1924-1936. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.125>., Registrované v: WOS*

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

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

Citácie:

1. [1.1] *GABRIEL, Lars - GUENTHER, Wolfgang - PIELENZ, Friederike - HEINZE, Thomas. Determination of the Binding Situation of Pyridine in Xylan Sulfates by Means of Detailed NMR Studies. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2020, vol. 221, no. 1, pp. Dostupné na: <https://doi.org/10.1002/macp.201900327>., Registrované v: WOS*
2. [1.1] *GAMI, Pratik - KUNDU, Debashis - SEERA, Sai Dileep Kumar - BANERJEE, Tamal. Chemically crosslinked xylan-beta-Cyclodextrin hydrogel for the in vitro delivery of curcumin and 5-Fluorouracil. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 158, no., pp. 18-31. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.237>., Registrované v: WOS*
3. [1.1] *NAHUN SOLIER, Yamil - NATALI SCHNELL, Carla - NOEL CABRERA, Maria - ANGEL ZANUTTINI, Miguel - CRISTINA INALBON, Maria. Alkali-peroxide extraction of xylan from sugar cane bagasse. Characteristics and film forming capacity. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 145, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2019.112056>., Registrované v: WOS*
4. [1.1] *ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>., Registrované v: WOS*
5. [1.1] *URBIZO-REYES, Uriel - SAN MARTIN-GONZALEZ, M. Fernanda - GARCIA-BRAVO, Jose - LICEAGA, Andrea M. Development of chia seed (Salvia hispanica) mucilage films plasticized with polyol mixtures: Mechanical and barrier properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 854-864. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.023>., Registrované v: WOS*
6. [1.1] *ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS*

*ADC Vedecké práce v zahraničných karentovaných časopisoch

- ADC01 BIZIK, F. - TVAROŠKA, Igor - REMKO, M. Conformational analysis of ester and ether linkages in lignin-arabinoxylan complexes. In *Carbohydrate Research*, 1994, vol. 261, p. 91. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)80008-1](https://doi.org/10.1016/0008-6215(94)80008-1)

Citácie:

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

WOS

- ADC02 EBRINGEROVÁ, Anna - NOVOTNA, Z. - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva. Chemical modification of beechwood xylan with p-carboxybenzyl bromide. In Journal of Applied Polymer Science, 1996, vol. 62, p. 1043-1047. (1995: 0.896 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0021-8995.
Citácie:
1. [1.1] *GUO PENG - WU YAOQIN - DONG CONGCONG - SUN CHANGMEI - QU RONGJUN - JI CHUNNUAN - ZHANG YING - WANG YING. Allyl and Benzyl Modified Aramid Nanofibers as an Enhancement in Polystyrene-Based Composites. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.586763>, Registrované v: WOS*
- ADC03 ROSIK, J. - KARDOŠOVÁ, Alžbeta - KUBALA, J.. Infrared spectroscopy of peach-gum polysaccharides from *Prunus persica* (L.) Batsch. In Carbohydrate Research, 1971, vol. 18, p. 151. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)80269-4](https://doi.org/10.1016/S0008-6215(00)80269-4)
Citácie:
1. [1.1] *WANG, Lvyang - LI, Mengya - LI, Xiumin - LIU, Jie - MAO, Yajie - TANG, Keyong. A Biomimetic Hybrid Hydrogel Based on the Interactions between Amino Hydroxyapatite and Gelatin/Gellan Gum. In MACROMOLECULAR MATERIALS AND ENGINEERING. ISSN 1438-7492, 2020, vol. 305, no. 9, pp. Dostupné na: <https://doi.org/10.1002/mame.202000188>, Registrované v: WOS*
- ADC04 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation on carbohydrate model compounds. 1. The anomeric effect in fluoro and chloro derivatives of tetrahydropyran. In The Journal of physical chemistry. - Washington : American Chemical Society, -1995, 1994, vol. 98, no., p. 6452-6458. ISSN 0022-3654. Dostupné na: <https://doi.org/10.1021/j100077a006>
Citácie:
1. [1.1] *GOMEZ GARCIA, Marta - GARCIA FERNANDEZ, Jose M. - BUTTERSACK, Christoph. Adsorption of difructose dianhydrides on hydrophobic Y-zeolites. In MICROPOROUS AND MESOPOROUS MATERIALS. ISSN 1387-1811, 2020, vol. 292, no., pp. Dostupné na: <https://doi.org/10.1016/j.micromeso.2019.109673>, Registrované v: WOS*
- ADC05 TVAROŠKA, Igor - GAJDOŠ, Ján. Angular dependence of vicinal carbon-proton coupling constants for the conformational studies of hydroxymethyl group in carbohydrates. In Carbohydrate Research, 1995, vol. 271, p. 151-162. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(95\)00046-V](https://doi.org/10.1016/0008-6215(95)00046-V)
Citácie:
1. [1.1] *PIRRONE, Michael G. - MATSUSHITA, Takahiko - VASELLA, Andrea - CRICH, David. Stereospecific synthesis of methyl 2-amino-2,4-dideoxy-6 Sdeuterio-?-D- xylohexopyranoside and methyl 2-amino-2,4-dideoxy-6 Sdeuterio-4-propyl- ?- Dglucopyranoside: Side chain conformation of the novel aminoglycoside antibiotic propylamycin. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 491, no., pp., Registrované v: WOS*

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ABAD, Sandra - NAHÁLKA, Jozef - WINKLER, Margit - BERGLER, Gabriele - SPEIGHT, Robert - GLIEDER, Anton - NIDETZKY, Bernd. High-level expression of *Rhodotorula gracilis* D-amino acid oxidase in *Pichia pastoris*. In Biotechnology

Letters, 2011, vol. 33, p. 557-563. (2010: 1.768 - IF, Q3 - JCR, 0.703 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-010-0456-9>

Citácie:

1. [1.1] BATRA, Vipul - DAGAR, Komal - NAYAK, Samiksha - KUMARESAN, Arumugam - KUMAR, Rakesh - DATTA, Tirtha K. *A Higher Abundance of O-Linked Glycans Confers a Selective Advantage to High Fertile Buffalo Spermatozoa for Immune-Evasion From Neutrophils. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.01928>, Registrované v: WOS*

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

Citácie:

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

2. [1.1] MOENS, Esther - BOLCA, Selin - POSSEMIERS, Sam - VERSTRAETE, Willy. *A Wake-Up Call for the Efficient Use of the Bacterial Resting Cell Process, with Focus on Low Solubility Products. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2020, vol. 77, no. 8, pp. 1349-1362. Dostupné na: <https://doi.org/10.1007/s00284-020-01959-8>, Registrované v: WOS*

ADCA03 ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - BIELY, Peter - COWAN, Don A. *Phylogeny, classification and metagenomic bioprospecting of microbial acetyl xylan esterases. In Enzyme and Microbial Technology, 2016, vol. 93-94, p. 79-91. (2015: 2.624 - IF, Q2 - JCR, 0.846 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2016.07.001>*

Citácie:

1. [1.1] ALI, Sikander - MAHMOOD, Saba. *Mutagenesis of a Thermophilic Alkalibacillus flavidus for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>, Registrované v: WOS*

2. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. *Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from Lactobacillus antri and Bacillus halodurans. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>, Registrované v: WOS*

3. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. *Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>, Registrované v: WOS*

4. [1.1] SALDARRIAGA-HERNANDEZ, Sara - VELASCO-AYALA, Carolina - FLORES, Paulina Leal-Isla - ROSTRO-ALANIS, Magdalena de Jesus - PARRA-SALDIVAR, Roberto - IQBAL, M. N. Hafiz - CARRILLO-NIEVES, Danay.

Biotransformation of lignocellulosic biomass into industrially relevant products with the aid of fungi-derived lignocellulolytic enzymes. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 1099-1116. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.06.047>., Registrované v: WOS

5. [1.1] STRAZZULLI, Andrea - COBUCCI-PONZANO, Beatrice - IACONO, Roberta - GIGLIO, Rosa - MAURELLI, Luisa - CURCI, Nicola - SCHIANO-DI-COLA, Corinna - SANTANGELO, Annalisa - CONTURSI, Patrizia - LOMBARD, Vincent - HENRISSAT, Bernard - LAURO, Federico M. - FONTES, Carlos M. G. A. - MORACCI, Marco. *Discovery of hyperstable carbohydrate-active enzymes through metagenomics of extreme environments. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 6, pp. 1116-1137. Dostupné na:*

<https://doi.org/10.1111/febs.15080>., Registrované v: WOS

6. [1.1] WANG, Yuanji - HUANG, Qianqian - LIU, Chen - DING, Yuanyuan - LIU, Li - TIAN, Yuli - WU, Xiaoping - LI, Huike - AWASTHI, Mukesh Kumar - ZHAO, Zhengyang. *Mulching practices alter soil microbial functional diversity and benefit to soil quality in orchards on the Loess Plateau. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2020, vol. 271, no., pp. Dostupné na: <https://doi.org/10.1016/j.jenvman.2020.110985>., Registrované v: WOS*

ADCA04

AHYAYAUCH, Hasna - RAAB, Michal - BUSTO, Jon V. - ANDRAKA, Nagore - ARRONDO, José-Luis - MASSERINI, Massimo - TVAROŠKA, Igor - GONI, Félix M. *Binding of beta-amyloid (1-42) peptide to negatively charged phospholipid membranes in the liquid-ordered state: Modeling and experimental studies. In Biophysical Journal, 2012, vol.103, p. 453-463. (2011: 3.653 - IF, Q2 - JCR, 2.357 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3495. Dostupné na: <https://doi.org/10.1016/j.bpj.2012.06.043>*

Citácie:

1. [1.1] BOLANO ALVAREZ, Alain - CARUSO, Benjamin - RODRIGUEZ, Pablo E. A. - PETERSEN, Steffen B. - FIDELIO, Gerardo D. *A beta-Amyloid Fibrils Are Self-Triggered by the Interfacial Lipid Environment and Low Peptide Content. In LANGMUIR. ISSN 0743-7463, 2020, vol. 36, no. 28, pp. 8056-8065. Dostupné na: <https://doi.org/10.1021/acs.langmuir.0c00468>., Registrované v: WOS*

2. [1.1] FARRUGIA, Maria Ylenia - CARUANA, Mario - GHIO, Stephanie - CAMILLERI, Angelique - FARRUGIA, Claude - CAUCHI, Ruben J. - CAPPELLI, Sara - CHITI, Fabrizio - VASSALLO, Neville. *Toxic oligomers of the amyloidogenic HypF-N protein form pores in mitochondrial membranes. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74841-z>., Registrované v: WOS*

3. [1.1] MENON, Sneha - SENGUPTA, Neelanjana - DAS, Payel. *Nanoscale Interplay of Membrane Composition and Amyloid Self-Assembly. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2020, vol. 124, no. 28, pp. 5837-5846. Dostupné na: <https://doi.org/10.1021/acs.jpcc.0c03796>., Registrované v: WOS*

4. [1.1] MURUGOVA, Tatiana - IVANKOV, Oleksandr - ERMAKOVA, Elena - KONDELA, Tomas - HRUBOVCAK, Pavol - SKOI, Vadim - KUKLIN, Alexander - KUCERKA, Norbert. *Structural changes introduced by cholesterol and melatonin to the model membranes mimicking preclinical conformational diseases. In GENERAL PHYSIOLOGY AND BIOPHYSICS. ISSN 0231-5882, 2020, vol. 39, no. 2, pp. 135-144. Dostupné na: https://doi.org/10.4149/gpb_2019054., Registrované v: WOS*

5. [1.1] ONO, Kenjiro - TSUJI, Mayumi - YAMASAKI, Tritia R. - PASINETTI,

Giulio M. *Anti-aggregation Effects of Phenolic Compounds on alpha-synuclein*. In *MOLECULES*, 2020, vol. 25, no. 10, pp. Dostupné na:

<https://doi.org/10.3390/molecules25102444>, Registrované v: WOS

6. [1.1] TAN, Jay X. - FINKEL, Toren. *Mitochondria as intracellular signaling platforms in health and disease*. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2020, vol. 219, no. 5, pp. Dostupné na:

<https://doi.org/10.1083/jcb.202002179>, Registrované v: WOS

7. [1.1] YOO, Yong Kyoung - KIM, Gangeun - PARK, Dongsung - KIM, Jinsik - KIM, YoungSoo - KIM, Hye Yun - YANG, Seung Hoon - LEE, Jeong Hoon - HWANG, Kyo Seon. *Gold nanoparticles assisted sensitivity improvement of interdigitated microelectrodes biosensor for amyloid-beta detection in plasma sample*. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 308, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.127710>, Registrované v: WOS

ADCA05

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

Citácie:

1. [1.1] DUAN, Yafei - WANG, Yun - DING, Xian - XIONG, Dalin - ZHANG, Jiasong. *Response of intestine microbiota, digestion, and immunity in Pacific white shrimp Litopenaeus vannamei to dietary succinate*. In *AQUACULTURE*. ISSN 0044-8486, 2020, vol. 517, no., pp. Dostupné na:

<https://doi.org/10.1016/j.aquaculture.2019.734762>, Registrované v: WOS

2. [1.1] DUAN, Yafei - XIONG, Dalin - WANG, Yun - DONG, Hongbiao - HUANG, Jianhua - ZHANG, Jiasong. *Effects of Microcystis aeruginosa and microcystin-LR on intestinal histology, immune response, and microbial community in Litopenaeus vannamei*. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 265, no. PT A, pp. Dostupné na:

<https://doi.org/10.1016/j.envpol.2020.114774>, Registrované v: WOS

3. [1.1] LAI, Keng Po - LIN, Xiao - TAM, Nathan - HO, Jeff Cheuk Hin - WONG, Marty Kwok-Shing - GU, Jie - CHAN, Ting Fung - TSE, William Ka Fai. *Osmotic stress induces gut microbiota community shift in fish*. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2020, vol. 22, no. 9, pp. 3784-3802.

Dostupné na: <https://doi.org/10.1111/1462-2920.15150>, Registrované v: WOS

4. [1.1] LIU, Shuting - BAETGE, Nicholas - COMSTOCK, Jacqueline - OPALK, Keri - PARSONS, Rachel - HALEWOOD, Elisa - ENGLISH, Chance J. - GIOVANNONI, Stephen - BOLANOS, Luis M. - NELSON, Craig E. - VERGIN, Kevin - CARLSON, Craig A. *Stable Isotope Probing Identifies Bacterioplankton Lineages Capable of Utilizing Dissolved Organic Matter Across a Range of Bioavailability*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.580397>, Registrované v: WOS

ADCA06

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

Citácie:

1. [1.1] CHANG, Sheng - FILER, Jameson. *Thermal Hydrolysis to Enhance Anaerobic Digestion Performance of Wastewater Sludge*. In *CURRENT POLLUTION REPORTS*. ISSN 2198-6592, 2020, vol. 6, no. 4, pp. 452-467.

Dostupné na: <https://doi.org/10.1007/s40726-020-00163-3>, Registrované v: WOS

2. [1.1] DELARUE, Frederic - ROBERT, Francois - DERENNE, Sylvie - TARTESE, Romain - JAUUVION, Clement - BERNARD, Sylvain - PONT, Sylvain - GONZALEZ-CANO, Adriana - DUHAMEL, Remi - SUGITANI, Kenichiro. *Out of rock: A new look at the morphological and geochemical preservation of microfossils from the 3.46 Gyr-old Strelley Pool Formation*. In *PRECAMBRIAN RESEARCH*. ISSN 0301-9268, 2020, vol. 336, no., pp. Dostupné na: <https://doi.org/10.1016/j.precamres.2019.105472>., Registrované v: WOS
3. [1.1] FOSTER, Lynn - MORRIS, Katherine - CLEARY, Adrian - BAGSHAW, Heath - SIGEE, David - PITTMAN, Jon K. - ZHANG, Kejing - VETTESE, Gianni - SMITH, Kurt F. - LLOYD, Jonathan R. *Biom mineralization of Sr by the Cyanobacterium Pseudanabaena catenata Under Alkaline Conditions*. In *FRONTIERS IN EARTH SCIENCE*, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/feart.2020.556244>., Registrované v: WOS
4. [1.1] GAISIN, Vasil A. - KOOGER, Romain - GROUZDEV, Denis S. - GORLENKO, Vladimir M. - PILHOFER, Martin. *Cryo-Electron Tomography Reveals the Complex Ultrastructural Organization of Multicellular Filamentous Chloroflexota (Chloroflexi) Bacteria*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01373>., Registrované v: WOS
5. [1.1] HOLLAND, Alexandra T. - PINTO, Benoit Bergk - LAYTON, Rose - WILLIAMSON, Christopher J. - ANESIO, Alexandre M. - VOGEL, Timothy M. - LAROSE, Catherine - TRANTER, Martyn. *Over Winter Microbial Processes in a Svalbard Snow Pack: An Experimental Approach*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01029>., Registrované v: WOS
6. [1.1] KRZYZEK, Pawel - GRANDE, Rossella. *Transformation of Helicobacter pylori into Coccioid Forms as a Challenge for Research Determining Activity of Antimicrobial Substances*. In *PATHOGENS*, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/pathogens9030184>., Registrované v: WOS
7. [1.1] LAVRINOVICS, Aigars - MEZULE, Linda - JUHNA, Talis. *Microalgae starvation for enhanced phosphorus uptake from municipal wastewater*. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*. ISSN 2211-9264, 2020, vol. 52, no., pp. Dostupné na: <https://doi.org/10.1016/j.algal.2020.102090>., Registrované v: WOS
8. [1.1] LIU, Yuqing - MA, Wenhong - KOU, Dan - NIU, Xiaxia - WANG, Tian - CHEN, Yongliang - CHEN, Dima - ZHU, Xiaoqin - ZHAO, Mengying - HAO, Baihui - ZHANG, Jinbo - YANG, Yuanhe - HU, Huifeng. *A comparison of patterns of microbial C : N : P stoichiometry between topsoil and subsoil along an aridity gradient*. In *BIOGEOSCIENCES*. ISSN 1726-4170, 2020, vol. 17, no. 7, pp. 2009-2019. Dostupné na: <https://doi.org/10.5194/bg-17-2009-2020>., Registrované v: WOS
9. [1.1] MANDALA, Venkata S. - LOH, Daniel M. - SHEPARD, Scott M. - GEESON, Michael B. - SERGEYEV, Ivan - NOCERA, Daniel G. - CUMMINS, Christopher C. - HONG, Mei. *Bacterial Phosphate Granules Contain Cyclic Polyphosphates: Evidence from P-31 Solid-State NMR*. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0002-7863, 2020, vol. 142, no. 43, pp. 18407-18421. Dostupné na: <https://doi.org/10.1021/jacs.0c06335>., Registrované v: WOS
10. [1.1] MARTINS, Teresa P. - RAMOS, Vitor - HENTSCHKE, Guilherme S. - CASTELO-BRANCO, Raquel - REGO, Adriana - MONTEIRO, Maria - BRITO, Angela - TAMAGNINI, Paula - CARY, S. Craig - VASCONCELOS, Vitor - KRIENITZ, Lothar - MAGALHAES, Catarina - LEAO, Pedro N. *The*

- Extremophile Endolithella mcmurdoensis* gen. et sp. nov. (Trebouxiophyceae, Chlorellaceae), A New Chlorella-like Endolithic Alga From Antarctica. In *JOURNAL OF PHYCOLOGY*. ISSN 0022-3646, 2020, vol. 56, no. 1, pp. 208-216. Dostupné na: <https://doi.org/10.1111/jpy.12940>., Registrované v: WOS
11. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round we go strategies for enzymatic cofactor regeneration. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na: <https://doi.org/10.1039/d0np00004c>., Registrované v: WOS
12. [1.1] POPALL, Rabja M. - BOLHUIS, Henk - MUYZER, Gerard - SANCHEZ-ROMAN, Monica. Stromatolites as Biosignatures of Atmospheric Oxygenation: Carbonate Biomineralization and UV-C Resilience in a Geitlerinema sp. Dominated Culture. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00948>., Registrované v: WOS
13. [1.1] ROEWE, Julian - STAVRIDES, Georgios - STRUEVE, Marcel - SHARMA, Arjun - MARINI, Federico - MANN, Amrit - SMITH, Stephanie A. - KAYA, Ziya - STROBL, Birgit - MUELLER, Mathias - REINHARDT, Christoph - MORRISSEY, James H. - BOSMANN, Markus. Bacterial polyphosphates interfere with the innate host defense to infection. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-17639-x>., Registrované v: WOS
14. [1.1] SANGAVAI, C. - PRATHIVIRAJ, R. - CHELLAPANDI, P. Functional prediction, characterization, and categorization of operome from *Acetoanaerobium sticklandii* DSM 519. In *ANAEROBE*. ISSN 1075-9964, 2020, vol. 61, no., pp. Dostupné na: <https://doi.org/10.1016/j.anaerobe.2019.102088>., Registrované v: WOS
15. [1.1] SANZ-LUQUE, Emanuel - BHAYA, Devaki - GROSSMAN, Arthur R. Polyphosphate: A Multifunctional Metabolite in Cyanobacteria and Algae. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00938>., Registrované v: WOS
16. [1.1] SHUKLA, Shivani - RAJTA, Ankita - SETIA, Hema - BHATIA, Ranjana. Simultaneous nitrification-denitrification by phosphate accumulating microorganisms. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 10, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02926-y>., Registrované v: WOS
17. [1.1] SOLOVCHENKO, Alexei - GORELOVA, Olga - KARPOVA, Olga - SELYAKH, Irina - SEMENOVA, Larisa - CHIVKUNOVA, Olga - BAULINA, Olga - VINOGRADOVA, Elizaveta - PUGACHEVA, Tatiana - SCHERBAKOV, Pavel - VASILIEVA, Svetlana - LUKYANOV, Alexandr - LOBAKOVA, Elena. Phosphorus Feast and Famine in Cyanobacteria: Is Luxury Uptake of the Nutrient Just a Consequence of Acclimation to Its Shortage? In *CELLS*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/cells9091933>., Registrované v: WOS
18. [1.1] SRIVASTAVA, Abhishek - MURUGAIYAN, Jayaseelan - GARCIA, Juan A. L. - DE CORTE, Daniele - HOETZINGER, Matthias - ERAVCI, Murat - WEISE, Christoph - KUMAR, Yadhu - ROESLER, Uwe - HAHN, Martin W. - GROSSART, Hans-Peter. Combined Methylome, Transcriptome and Proteome Analyses Document Rapid Acclimatization of a Bacterium to Environmental Changes. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.544785>., Registrované v: WOS
19. [1.1] SUN, Xinzeng - NIU, Huanqing - SONG, Jiarui - JIANG, Dahai - LENG, Jing - ZHUANG, Wei - CHEN, Yong - LIU, Dong - YING, Hanjie. Preparation of

- a Copper Polyphosphate Kinase Hybrid Nanoflower and Its Application in ADP Regeneration from AMP. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 17, pp. 9991-9998. Dostupné na: <https://doi.org/10.1021/acsomega.0c00329>., Registrované v: WOS*
20. [1.1] WANG, Po-Hsiang - FUJISHIMA, Kosuke - BERHANU, Samuel - KURUMA, Yutetsu - JIA, Tony Z. - KHUSNUTDINOVA, Anna N. - YAKUNIN, Alexander F. - MCGLYNN, Shawn E. A Bifunctional Polyphosphate Kinase Driving the Regeneration of Nucleoside Triphosphate and Reconstituted Cell-Free Protein Synthesis. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, 2020, vol. 9, no. 1, pp. 36-42. Dostupné na: <https://doi.org/10.1021/acssynbio.9b00456>., Registrované v: WOS
21. [1.1] ZHANG, Dan - CHEN, Xue - LARSON, Steven L. - BALLARD, John H. - KNOTEK-SMITH, Heather M. - DING, Dexin - HU, Nan - HAN, Fengxiang X. Uranium Biomineralization with Phosphate-Biogeochemical Process and Its Application. In ACS EARTH AND SPACE CHEMISTRY. ISSN 2472-3452, 2020, vol. 4, no. 12, pp. 2205-2214. Dostupné na: <https://doi.org/10.1021/acsearthspacechem.0c00252>., Registrované v: WOS
22. [1.1] ZHANG, Fengzhen - ZHANG, Yunfei - PU, Mengjie - NIU, Junfeng. Aerobic degradation of aqueous pollutants with nanoscale zero-valent aluminum in alkaline condition: Performance and mechanism especially at particle surface. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 244, no., pp. Dostupné na: <https://doi.org/10.1016/j.jclepro.2019.118905>., Registrované v: WOS

ADCA07 AIT-MOHAND, Fairouz - FARKAŠ, Vladimír. Screening for hetero-transglycosylating activities in extracts from nasturtium (*Tropaeolum majus*). In Carbohydrate Research, 2006, vol. 341, p. 577-581. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.01.018>

Citácie:

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

ADCA08 ALBERT, S. - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Molecular characterization of MRJP3, highly polymorphic protein honeybee (*Apis mellifera*) royal jelly. In Insect Biochemistry and Molecular Biology, 1999, vol. 29, p. 427-434. ISSN 0965-1748. Dostupné na: [https://doi.org/10.1016/S0965-1748\(99\)00019-3](https://doi.org/10.1016/S0965-1748(99)00019-3)

Citácie:

1. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>., Registrované v: WOS

ADCA09 ALBERT, S. - KLAUDINY, Jaroslav. MRJP9, an ancient protein of the honeybee MRJP family with non-nutritional function. In Journal of Apicultural Research, 2007, vol. 46, p. 99-104. (2006: 0.750 - IF, Q2 - JCR, 0.483 - SJR, Q2 - SJR). ISSN 0021-8839.

Citácie:

1. [1.1] AHMAD, Saboor - CAMPOS, Maria Graca - FRATINI, Filippo - ALTAYE, Solomon Zewdu - LI, Jianke. *New Insights into the Biological and Pharmaceutical Properties of Royal Jelly*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijms21020382>., Registrované v: WOS
 2. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. *Purification and characteristics of individual major royal jelly protein 1-3*. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>., Registrované v: WOS
 3. [1.1] YANG, Lei - YANG, Yi - LIU, Ming-Ming - YAN, Zhi-Chao - QIU, Li-Ming - FANG, Qi - WANG, Fang - WERREN, John H. - YE, Gong-Yin. *Identification and Comparative Analysis of Venom Proteins in a Pupal Ectoparasitoid, Pachycrepoideus vindemmiae*. In *FRONTIERS IN PHYSIOLOGY*. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.00009>., Registrované v: WOS
- ADCA10 ALBERT, S. - BHATTACHARYA, D. - KLAUDINY, Jaroslav - SCHMITZOVA, J. - ŠIMÚTH, Jozef. *The family of major royal jelly proteins and its evolution*. In *Journal of Molecular Evolution*, 1999, vol. 49, p. 290-297. ISSN 0022-2844. Dostupné na: <https://doi.org/10.1007/PL00006551>
- Citácie:
1. [1.1] HABASHY, Noha H. - ABU-SERIE, Marwa M. *The potential antiviral effect of major royal jelly protein2 and its isoform X1 against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Insight on their sialidase activity and molecular docking*. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2020, vol. 75, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2020.104282>., Registrované v: WOS
 2. [1.1] VERNAL, Sebastian - OLIVEIRA, Fabiano - OLIVEIRA, Wanderson H. C. - GOULART, Thais M. - ORISTIAN, James - CALVO, Eric - PINTO, Mara C. - ROSELINO, Ana Maria - RIBEIRO, Jose M. C. *RNA-sequencing of the Nyssomyia neivai sialome: a sand fly-vector from a Brazilian endemic area for tegumentary leishmaniasis and pemphigus foliaceus*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74343-y>., Registrované v: WOS
- ADCA11 ALBERT, Štefan - KLAUDINY, Jaroslav. *The MRJP/YELLOW protein family of Apis mellifera: Identification of new members in the EST library*. In *Journal of Insect Physiology*, 2004, vol. 50, p. 51-59. ISSN 0022-1910. Dostupné na: <https://doi.org/10.1016/j.jinsphys.2003.09.008>
- Citácie:
1. [1.1] MINEGAKI, Naho - KOSHIZUKA, Tetsuo - NISHINA, Saeka - KONDO, Hiroki - TAKAHASHI, Keita - SUGIYAMA, Tsuyoshi - INOUE, Naoki. *The Carboxyl-Terminal Penta-Peptide Repeats of Major Royal Jelly Protein 3 Enhance Cell Proliferation*. In *BIOLOGICAL & PHARMACEUTICAL BULLETIN*. ISSN 0918-6158, 2020, vol. 43, no. 12, pp. 1911-1916. Dostupné na: <https://doi.org/10.1248/bpb.b20-00607>., Registrované v: WOS
 2. [1.1] NOH, Mi Young - KIM, Sung Hyun - GORMAN, Maureen J. - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - ARAKANE, Yasuyuki. *Yellow-g and Yellow-g2 proteins are required for egg desiccation resistance and temporal pigmentation in the Asian tiger mosquito, Aedes albopictus*. In *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0965-1748, 2020, vol. 122, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibmb.2020.103386>., Registrované v: WOS

- ADCA12 ALI, S. Tahir - KARAMAT, Sajjad - KÓŇA, Juraj - FABIAN, Walter M.F. Theoretical prediction of pKa values of seleninic, selenenic, sulfinic, and carboxylic acids by quantum-chemical methods. In Journal of physical chemistry A.Molecules, spectroscopy, kinetics, environment, and general theory, 2010, vol. 114, p. 12470-12478. (2009: 2.899 - IF, Q2 - JCR, 1.589 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1089-5639.
- Citácie:
- [1.1] *GHIAMI-SHOMAMI, Ali - ASHTARI-DELIVAND, Mona - GHALAMI-CHOOBAR, Bahram - LEITO, Ivo. Computational studies of acidities of some hydroxycoumarins. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2020, vol. 1190, no., pp. Dostupné na: <https://doi.org/10.1016/j.comptc.2020.113008>., Registrované v: WOS*
 - [1.1] *XIAO, Xuezhu - CAO, Xiaofang - ZHAO, Dongbo - RONG, Chunying - LIU, Shubin. Quantification of Molecular Basicity for Amines: a Combined Conceptual Density Functional Theory and Information-Theoretic Approach Study. In ACTA PHYSICO-CHIMICA SINICA. ISSN 1000-6818, 2020, vol. 36, no. 11, pp. Dostupné na: <https://doi.org/10.3866/PKU.WHXB201906034>., Registrované v: WOS*
 - [1.1] *ZHENG, Zhipeng - TROFYMCHUK, Oleksandra S. - KUROI, Takashi - VARELA, Elena - MINDIOLA, Daniel J. - WALSH, Patrick J. Selenenate Anions (PhSeO-) as Organocatalyst: Synthesis of trans-Stilbenes and a PPV Derivative. In ADVANCED SYNTHESIS & CATALYSIS. ISSN 1615-4150, 2020, vol. 362, no. 3, pp. 659-666. Dostupné na: <https://doi.org/10.1002/adsc.201901201>., Registrované v: WOS*
- ADCA13 ALI, S.T. - JAHANGIR, S. - KARAMAT, S. - FABIAN, W.M.F. - NAWARA, Krysztof Kamil - KÓŇA, Juraj. Theoretical study on the redox cycle of bovine glutathione peroxidase GPx1:pKa calculations, docking, and molecular dynamics simulations. In Journal of Chemical Theory and Computation, 2010, vol. 6, p. 1670-1681. (2009: 4.804 - IF, 2.685 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct9003355>
- Citácie:
- [1.1] *SANTOS, Danubia B. - COLLE, Dirleise - MOREIRA, Eduardo L. G. - SANTOS, Alessandra A. - HORT, Mariana A. - SANTOS, Karin - OSES, Jean P. - RAZZERA, Guilherme - FARINA, Marcelo. Probucol Protects Neuronal Cells Against Peroxide-Induced Damage and Directly Activates Glutathione Peroxidase-1. In MOLECULAR NEUROBIOLOGY. ISSN 0893-7648, 2020, vol. 57, no. 8, pp. 3245-3257. Dostupné na: <https://doi.org/10.1007/s12035-020-01963-w>., Registrované v: WOS*
 - [1.1] *ZHU, Danfeng - ZHENG, Wenrui - CHANG, Huifang - XIE, Hongyun. A theoretical study on the pK(a) values of selenium compounds in aqueous solution. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 20, pp. 8325-8336. Dostupné na: <https://doi.org/10.1039/d0nj01124j>., Registrované v: WOS*
- ADCA14 ALTANER, Clemens - SAAKE, Bodo - TENKANEN, Maija - EYZAGUIRRE, Jaime - FAULDS, Craig B. - BIELY, Peter - VIIKARI, Liisa - SIIKA-AHO, Matti - PULS, Jürgen. Regioselective deacetylation of cellulose acetates by acetyl xylan esterases of different CE-families. In Journal of Biotechnology, 2003, vol. 105, p. 95-104. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(03\)00187-1](https://doi.org/10.1016/S0168-1656(03)00187-1)
- Citácie:
- [1.1] *LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. -*

- DILOKPIMOL, Adiphol. Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694>, Registrované v: WOS*
- ADCA15 ANDRÉ, Isabelle - MAZEAU, Karim - TVAROŠKA, Igor - PUTAUX, Jean-Luc - WINTER, William T. - TARAVEL, Francois R. - CHANZY, Henry. Molecular and crystal structures of inulin from electron diffraction data. In *Macromolecules*, 1996, vol. 29, p. 4626-4635. (1995: 3.155 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0024-9297.
- Citácie:
- [1.1] LUO, Yijing - LIU, Yang - CHEN, Yingchong - SHUAI, Shuyuan - ZHENG, Qin - YANG, Ming - YUE, Pengfei. Study on redispersibility of drug nanocrystals particles during storage: Novel understanding based on water adsorption and glass transition of amorphous matrix formers. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2020, vol. 575, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2019.118945>, Registrované v: WOS
 - [1.1] LUO, Yijing - ZHANG, Zengzhu - HUANG, Guiting - YU, Huaping - MA, Yueqin - ZHENG, Qin - YUE, Pengfei. Roles of maltodextrin and inulin as matrix formers on particle performance of inhalable drug nanocrystal-embedded microparticles. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115937>, Registrované v: WOS
 - [1.1] NARH, Christopher - BADOE, William - HOWARD, Ebenezer Kofi - LIN, Nie Xiao - MENSAH, Alfred - WANG, Tingting - WANG, Qingqing - HUANG, Fenglin - WEI, Qufu. Synthesized OH-radical rich bacteria cellulosic pockets with photodynamic bacteria inactivation properties against *S. ureus* and *E. coli*. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2020, vol. 116, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.111230>, Registrované v: WOS
- ADCA16 ANTAL, Miroslav - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials. II. Distribution of functional groups in lignin, hemicellulose, and cellulose components. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 643-650. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1984.070290220>
- Citácie:
- [1.1] LI, Jian - BAI, Xiaowei - FANG, Yang - CHEN, Yingquan - WANG, Xianhua - CHEN, Hanping - YANG, Haiping. Comprehensive mechanism of initial stage for lignin pyrolysis. In *COMBUSTION AND FLAME*. ISSN 0010-2180, 2020, vol. 215, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.combustflame.2020.01.016>, Registrované v: WOS
- ADCA17 ARAI, Tsutomu - BIELY, Peter - UHĽIARIKOVÁ, Iveta - SATO, Nobuaki - MAKISHIMA, Satoshi - MIZUNO, Masahiro - NOZAKI, Kouichi - KANEKO, Satoshi - AMANO, Yoshihiko**. Structural characterization of hemicellulose released from corn cob in continuous flow type hydrothermal reactor. In *Journal of Bioscience and Bioengineering*, 2019, vol. 127, p. 222-230. (2018: 2.032 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1389-1723. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2018.07.016>
- Citácie:
- [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - ALONSO, Jose Luis - SAEZ, Felicia - NEGRO, Maria Jose - GULLON, Beatriz. Xylooligosaccharides from

steam-exploded barley straw: Structural features and assessment of bifidogenic properties. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 124, no., pp. 131-142. Dostupné na:

<https://doi.org/10.1016/j.fbp.2020.08.014>, Registrované v: WOS

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

3. [1.1] POLETTI, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. *Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.01.005>, Registrované v: WOS*

ADCA18 ARMSTRONG, Michael C. - ŠESTÁK, Sergej - ALI, Ahmed A. - SAGINI, Hanan A.M. - BROWN, Max - BATY, Karen - TREUMANN, Achim - SCHRODER, Martin. *Bypass of activation loop phosphorylation by aspartate 836 in activation of the endoribonuclease activity of Ire1. In Molecular and Cellular Biology, 2017, vol. 37, p. e00655-16. (2016: 4.398 - IF, Q1 - JCR, 3.478 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0270-7306. Dostupné na: <https://doi.org/10.1128/MCB.00655-16>*

Citácie:

1. [1.1] URRA, Hery - PIHAN, Philippe - HETZ, Claudio. *The UPRosome-decoding novel biological outputs of IRE1 alpha function. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2020, vol. 133, no. 15, pp. Dostupné na: <https://doi.org/10.1242/jcs.218107>, Registrované v: WOS*

ADCA19 ARROYO, Javier - FARKAŠ, Vladimír - SANZ, Ana B - CABIB, Enrico. *'Strengthening the fungal cell wall through chitin-glucan cross-links: effects on morphogenesis and cell integrity'. In Cellular microbiology. - Veľká Británia : Blackwell Synergy, 2016, vol. 18, p. 1239-1250. (2015: 4.460 - IF, Q1 - JCR, 2.949 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1462-5814. Dostupné na: <https://doi.org/10.1111/cmi.12615>*

Citácie:

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

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

3. [1.1] HESHOF, Ruud - VISSCHER, Bram - VAN DE ZILVER, Eric - VAN DE VONDERVOORT, Rick - VAN KEULEN, Femke - DELAHAIJE, Roy J. B. M. - WIND, Richele D. *Production of tailor-made enzymes to facilitate lipid extraction*

from the oleaginous yeast *Schwanniomyces occidentalis*. In *AMB EXPRESS*. ISSN 2191-0855, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13568-020-00974-z>., Registrované v: WOS

4. [1.1] KANG, Liqin - ZHANG, Xingwei - LIU, Xiao - WANG, Rui - LIU, Cuicui - ZHOU, Jiangsheng - LIU, Zhonghua - YUAN, Sheng. Comparative study of beta-glucan-degrading enzymes from *Coprinopsis cinerea* for their capacities to induce stipe cell wall extension. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 152, no., pp. 516-524. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.299>., Registrované v: WOS

5. [1.1] LIU, Xiao - WANG, Rui - BI, Jingjing - KANG, Liqin - ZHOU, Jiangsheng - DUAN, Baiyun - LIU, Zhonghua - YUAN, Sheng. A novel endo-beta-1,6-glucanase from the mushroom *Coprinopsis cinerea* and its application in studying of cross-linking of beta-1,6-glucan and the wall extensibility in stipe cell walls. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 160, no., pp. 612-622. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.244>., Registrované v: WOS

6. [1.1] PEREZ-LLANO, Yordanis - CARIDAD RODRIGUEZ-PUPO, Eya - DRUZHININA, Irina S. - CHENTHAMARA, Komal - CAI, Feng - GUNDE-CIMERMAN, Nina - ZALAR, Polona - GOSTINCAR, Cene - KOSTANJSEK, Rok - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon - DEL RAYO SANCHEZ-CARBENTE, Maria. Stress Reshapes the Physiological Response of Halophile Fungi to Salinity. In *CELLS*, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/cells9030525>., Registrované v: WOS

7. [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike - BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207., Registrované v: WOS

8. [1.1] SINGH, Anu - DUTTA, P. K. Green synthesis, characterization and biological evaluation of chitin glucan based zinc oxide nanoparticles and its curcumin conjugation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 156, no., pp. 514-521. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.081>., Registrované v: WOS

9. [1.1] UEKI, Atsuko - TAKEHARA, Toshiaki - ISHIOKA, Gen - KAKU, Nobuo - UEKI, Katsuji. beta-1,3-Glucanase production as an anti-fungal enzyme by phylogenetically different strains of the genus *Clostridium* isolated from anoxic soil that underwent biological disinfection. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 12, pp. 5563-5578. Dostupné na: <https://doi.org/10.1007/s00253-020-10626-8>., Registrované v: WOS

10. [1.1] WANG, Jiashuai - ZHANG, Xiao - LI, Zhe - MA, Yanqing - MA, Lei. Recent progress of biomass-derived carbon materials for supercapacitors. In *JOURNAL OF POWER SOURCES*. ISSN 0378-7753, 2020, vol. 451, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.227794>., Registrované v: WOS

ADCA20

ARUMUGAM, Nanthakumar - BIELY, Peter - PUCHART, Vladimír - SINGH, Suren - PILLAI, Santhosh**. Structure of peanut shell xylan and its conversion to oligosaccharides. In *Process Biochemistry*, 2018, vol. 72, p. 124-129. (2017: 2.616 -

IF, Q2 - JCR, 0.761 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1359-5113. Dostupné na:
<https://doi.org/10.1016/j.procbio.2018.06.024>

Citácie:

1. [1.1] CAROLYN, J. Schultz - LIM, Wai L. - KHOR, Shi F. - NEUMANN, Kylie A. - SCHULZ, Jakob M. - ANSARI, Omid - SKEWES, Mark A. - BURTON, Rachel A. Consumer and health-related traits of seed from selected commercial and breeding lines of industrial hemp, *Cannabis sativa* L. In *JOURNAL OF AGRICULTURE AND FOOD RESEARCH*. ISSN 2666-1543, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.jafr.2020.100025>, Registrované v: WOS
2. [1.1] SORITA, Guilherme Dallarmi - LEIMANN, Fernanda Vitoria - SALVADOR FERREIRA, Sandra Regina. Biorefinery approach: Is it an upgrade opportunity for peanut by-products? In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 105, no., pp. 56-69. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.08.011>, Registrované v: WOS
3. [1.1] ZEUNER, Birgitte - MEYER, Anne S. Enzymatic transglucosylation for synthesis of human milk oligosaccharides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 493, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108029>, Registrované v: WOS
4. [1.1] ZHOU, Chufan - WANG, Yixiang. Recent progress in the conversion of biomass wastes into functional materials for value-added applications. In *SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS*. ISSN 1468-6996, 2020, vol. 21, no. 1, pp. 787-804. Dostupné na: <https://doi.org/10.1080/14686996.2020.1848213>, Registrované v: WOS

ADCA21 ARUMUGAM, Nathakumar - BIELY, Peter - PUCHART, Vladimír - GERRANO, Abe Shegro - DE MUKHERJEE, Koel - SINGH, Suren - PILLAI, Santhosh**. Xylan from bambara and cowpea biomass and their structural elucidation. In *International Journal of Biological Macromolecules*, 2019, vol. 132, p. 987-993. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na:
<https://doi.org/10.1016/j.ijbiomac.2019.04.030>

Citácie:

1. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>, Registrované v: WOS

ADCA22 AUXTOVA-SAMAJOVA, O. - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - KUBAČKOVÁ, M. - KARACSONYI, S. - BILISICS, Ladislav. Inhibition of auxin stimulated short-term elongation growth of pea stem segments by galactoglucomannan-derived oligosaccharides. In *Journal of Plant Physiology : Biochemistry, Physiology and Molecular Biology of Plants*, 1996, vol. 147, p. 611-613. ISSN 0176-1617.

Citácie:

1. [1.1] LARSKAYA, I. A. - GORSHKOV, O. - TROFIMOVA, O. - GORSHKOVA, T. A. The Influence of Effectors of the Ca(2+) Signaling System and Oligosaccharin OSRG on IAA-Induced Formation of Adventitious Roots on Explants of Buckwheat Hypocotyls. In *RUSSIAN JOURNAL OF PLANT PHYSIOLOGY*. ISSN 1021-4437, 2020, vol. 67, no. 4, pp. 626-635. Dostupné na: <https://doi.org/10.1134/S1021443720040111>, Registrované v: WOS

ADCA23 BABINCOVÁ, Melánia - BAČOVÁ, Zuzana - MACHOVÁ, Eva - KOGAN,

Grigorij. Antioxidant properties of carboxymethyl glucan: Comparative analysis. In Journal of Medicinal Food : Official Journal of the Korean Society of Food Science and Nutrition, 2002, vol. 5, p. 79-83. ISSN 1096-620X.

Citácie:

1. [1.1] *GULZAR, Saqib - BENJAKUL, Soottawat - HOZZEIN, Wael N. Impact of beta-glucan on debittering, bioaccessibility and storage stability of skim milk fortified with shrimp oil nanoliposomes. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2020, vol. 55, no. 5, pp. 2092-2103., Registrované v: WOS*

ADCA24

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

Citácie:

1. [1.1] *BUCEKOVA, Marcela - BUGAROVA, Veronika - GODOCIKOVA, Jana - MAJTAN, Juraj. Demanding New Honey Qualitative Standard Based on Antibacterial Activity. In FOODS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091263>., Registrované v: WOS*

2. [1.1] *JONCZYK-MATYSIAK, Ewa - POPIELA, Ewa - OWCZAREK, Barbara - HODYRA-STEFANIAK, Katarzyna - SWITALA-JELEN, Kinga - LODEJ, Norbert - KULA, Dominika - NEUBERG, Joanna - MIGDAL, Pawel - BAGINSKA, Natalia - ORWAT, Filip - WEBER-DABROWSKA, Beata - ROMAN, Adam - GORSKI, Andrzej. Phages in Therapy and Prophylaxis of American Foulbrood Recent Implications From Practical Applications. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01913>., Registrované v: WOS*

3. [1.1] *MOKAYA, Hosea O. - NJERU, Loise K. - LATTORFF, H. Michael G. African honeybee royal jelly: Phytochemical contents, free radical scavenging activity, and physicochemical properties. In FOOD BIOSCIENCE. ISSN 2212-4292, 2020, vol. 37, no., pp. Dostupné na: <https://doi.org/10.1016/j.fbio.2020.100733>., Registrované v: WOS*

ADCA25

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

Citácie:

1. [1.1] *ABRAHAM, Reinu E. - PURI, Munish. Nano-immobilized cellulases for biomass processing with application in biofuel production. In METHODS IN ENZYMOLOGY: NANOARMORING OF ENZYMES WITH CARBON NANOTUBES AND MAGNETIC NANOPARTICLES. ISSN 0076-6879, 2020, vol. 630, no., pp. 327-346. Dostupné na: <https://doi.org/10.1016/bs.mie.2019.09.006>., Registrované v: WOS*

2. [1.1] *AL-TOHAMY, Rania - KENAWY, El-Refaie - SUN, Jianzhong - ALI, Sameh Samir. Performance of a Newly Isolated Salt-Tolerant Yeast Strain *Sterigmatomyces halophilus* SSA-1575 for Azo Dye Decolorization and Detoxification. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01163>., Registrované v: WOS*

3. [1.1] *AMADI, Onyetugo C. - EGONG, Egong J. - NWAGU, Tochukwu N. - OKPALA, Gloria - ONWOSI, Chukwudi O. - CHUKWU, Greg C. - OKOLO, Bartholomew N. - AGU, Reginald C. - MONEKE, Anene N. Process optimization*

- for simultaneous production of cellulase, xylanase and ligninase by Saccharomyces cerevisiae SCPW 17 under solid state fermentation using Box-Behnken experimental design. In HELIYON, 2020, vol. 6, no. 7, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e04566>., Registrované v: WOS*
4. [1.1] ANDRADE, Alexandro Pereira - DE FIGUEIREDO, Mauro Pereira - DE QUADROS, Danilo Gusmao - FERREIRA, Joel Queiroga - WHITNEY, Travis Raymond - LUZ, Yann Santos - OLIVEIRA SANTOS, Hosnerson Renan - SILVA SOUZA, Mateus Neto. Chemical and biological treatment of cotton gin trash for fattening Santa Ines lambs. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.livsci.2020.104146>., Registrované v: WOS
5. [1.1] ARIAEENEJAD, Shohreh - JOKAR, Farzaneh - HADIAN, Parvin - MA' MANI, Leila - GHARAGHANI, Sajjad - FEREIDOONNEZHAD, Masood - SALEKDEH, Ghasem Hosseini. An efficient nano-biocatalyst for lignocellulosic biomass hydrolysis: Xylanase immobilization on organically modified biogenic mesoporous silica nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 3462-3473. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.211>., Registrované v: WOS
6. [1.1] ARIAEENEJAD, Shohreh - MOTAMED, Elaheh - SALEKDEH, Ghasem Hosseini. Stable cellulase immobilized on graphene oxide@CMC-g-poly(AMPS-co-AAm) hydrogel for enhanced enzymatic hydrolysis of lignocellulosic biomass. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115661>., Registrované v: WOS
7. [1.1] ATAEL, Davoud - HAMIDI-ESFAHANI, Zohreh - AHMADI-GAVLIGHI, Hassan. Enzymatic production of xylooligosaccharide from date (Phoenix dactylifera L.) seed. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2020, vol. 8, no. 12, pp. 6699-6707. Dostupné na: <https://doi.org/10.1002/fsn3.1964>., Registrované v: WOS
8. [1.1] AZOUZ, Rasha A. M. - HEGAZY, Usama M. - SAID, Mahmoud M. - BASSUINY, Roqaya - SALEM, Ahmed M. - FAHMY, Afaf S. Improving the catalytic efficiency of thermostable Geobacillus stearothermophilus xylanase XT6 by single-amino acid substitution. In JOURNAL OF BIOCHEMISTRY. ISSN 0021-924X, 2020, vol. 167, no. 2, pp. 203-215. Dostupné na: <https://doi.org/10.1093/jb/mvz086>., Registrované v: WOS
9. [1.1] AZZOUZ, Zahra - BETTACHE, Azzeddine - BOUCHERBA, Nawel - AMGHAR, Zahir - BENALLAOUA, Said. OPTIMIZATION OF XYLANASE PRODUCTION BY NEWLY ISOLATED STRAIN TRICHODERMA AFROHARZIANUM ISOLATE AZ 12 IN SOLID STATE FERMENTATION USING RESPONSE SURFACE METHODOLOGY. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2020, vol. 54, no. 5-6, pp. 451-462. Dostupné na: <https://doi.org/10.35812/CelluloseChemTechnol.2020.54.46>., Registrované v: WOS
10. [1.1] BAKRI, Y. - AKEED, Y. - JAWHAR, M. - ARABI, M. I. E. EVALUATION OF XYLANASE PRODUCTION FROM FILAMENTOUS FUNGI WITH DIFFERENT LIFESTYLES. In ACTA ALIMENTARIA. ISSN 0139-3006, 2020, vol. 49, no. 2, pp. 197-203. Dostupné na: <https://doi.org/10.1556/066.2020.49.2.9>., Registrované v: WOS
11. [1.1] BAPTISTA, Sara L. - CARVALHO, Luis C. - ROMANI, Aloia - DOMINGUES, Lucilia. Development of a sustainable bioprocess based on green technologies for xylitol production from corn cob. In INDUSTRIAL CROPS AND

- PRODUCTS*. ISSN 0926-6690, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112867>., Registrované v: WOS
12. [1.1] BOUAZIZ, Fatma - BEN ABDEDDAYEM, Amal - KOUBAA, Mohamed - BARBA, Francisco J. - BEN JEDDOU, Khawla - KACEM, Imen - GHORBEL, Raoudha Ellouz - CHAABOUNI, Semia Ellouz. Bioethanol Production from Date Seed Cellulosic Fraction Using *Saccharomyces cerevisiae*. In *SEPARATIONS*, 2020, vol. 7, no. 4, pp. Dostupné na: <https://doi.org/10.3390/separations7040067>., Registrované v: WOS
13. [1.1] CHEN, Xiang - XIN, Donglin - SUN, Fubao Fuelbiol - ZHANG, Junhua. Factors affecting the hydrolytic action of xylanase during pennisetum saccharification: role of lignin. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3143-3152. Dostupné na: <https://doi.org/10.1007/s10570-020-02996-z>., Registrované v: WOS
14. [1.1] CORNETTI, Aline A. A. - FERRAZ, Andre - MILAGRES, Adriane M. F. Enzyme-aided xylan extraction from alkaline-sulfite pretreated sugarcane bagasse and its incorporation onto eucalyptus kraft pulps. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108003>., Registrované v: WOS
15. [1.1] COUTINHO, Thamara C. - MALAFATTI, Joao O. D. - PARIS, Elaine C. - TARDIOLI, Paulo W. - FARINAS, Cristiane S. Hydroxyapatite-CoFe₂O₄ Magnetic Nanoparticle Composites for Industrial Enzyme Immobilization, Use, and Recovery. In *ACS APPLIED NANO MATERIALS*. ISSN 2574-0970, 2020, vol. 3, no. 12, pp. 12334-12345. Dostupné na: <https://doi.org/10.1021/acsanm.0c02811>., Registrované v: WOS
16. [1.1] COUTINHO, Thamara C. - TARDIOLI, Paulo W. - FARINAS, Cristiane S. Hydroxyapatite nanoparticles modified with metal ions for xylanase immobilization. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 150, no., pp. 344-353. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.058>., Registrované v: WOS
17. [1.1] DE LIMA, Gabriel Goetten - SCHOENHERR, Zaira Chiodini Pedri - MAGALHAES, Washington Luiz Esteves - TAVARES, Lorena Benathar Ballod - HELM, Cristiane Vieira. Enzymatic activities and analysis of a mycelium-based composite formation using peach palm (*Bactris gasipaes*) residues on *Lentinula edodes*. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-00346-2>., Registrované v: WOS
18. [1.1] DHRUW, Chandrabhan - HUSAIN, Khadim - KUMAR, Vyas - SONAWANE, Vijay Chintaman. Novel xylanase producing *Bacillus* strain X2: molecular phylogenetic analysis and its application for production of xylooligosaccharides. In *3 BIOTECH*. ISSN 2190-572X, 2020, vol. 10, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-02322-1>., Registrované v: WOS
19. [1.1] DO NASCIMENTO, Rodrigo Pires - REIS, Alberto Delgado - GIRIO, Francisco - PEREIRA JR, Nei - DA SILVA BON, Elba Pinto - RODRIGUES COELHO, Rosalie Reed. A Thermotolerant Xylan-Degrading Enzyme Is Produced by *Streptomyces malaysiensis* AMT-3 Using by-Products From the Food Industry. In *BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY*. ISSN 1516-8913, 2020, vol. 63, no., pp. Dostupné na: <https://doi.org/10.1590/1678-4324-2020190243>., Registrované v: WOS
20. [1.1] DONG, Ce - QIAO, Jie - WANG, Xinping - SUN, Wenli - CHEN, Lixia - LI, Shuntang - WU, Ke - MA, Lixin - LIU, Yi. Engineering *Pichia pastoris* with surface-display minicellulosomes for carboxymethyl cellulose hydrolysis and ethanol production. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1,

pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01749-1>, Registrované v: WOS

21. [1.1] DOS SANTOS, Jaqueline Pozzada - DITTGEN, Caroline Lambrecht - MELLO EL HALAL, Shanise Lisie - VANIER, Nathan Levien. Catalytic Efficiency, Structure, and Recycling Behavior of Electrospun Polyvinyl Alcohol-Xylanase Fibers Cross-Linked by Glutaraldehyde. In *FOOD BIOPHYSICS*. ISSN 1557-1858, 2020, vol. 15, no. 2, pp. 155-161. Dostupné na:

<https://doi.org/10.1007/s11483-019-09618-7>, Registrované v: WOS

22. [1.1] DYSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314. Dostupné na:

<https://doi.org/10.1021/acs.jafc.9b05459>, Registrované v: WOS

23. [1.1] EL-SHARKAWY, Reyad Mohamed - EL-SHORA, Hamed Mohamed. Biocontrol of Wilt-Inducing *Fusarium oxysporum* by Aqueous Leaf Extract from Egyptian *Ammi majus* and *Ammi visnaga*. In *EGYPTIAN JOURNAL OF BOTANY*. ISSN 0375-9237, 2020, vol. 60, no. 2, pp. 423-435. Dostupné na:

<https://doi.org/10.21608/ejbo.2020.20709.1409>, Registrované v: WOS

24. [1.1] EVELYN - AMRAINI, S. Z. - PRATIWI, E. D. - ISMALA, U. N. Production of Cellulase and Xylanase from *Eupenicillium Javanicum* by Solid-State Fermentation Utilizing Pineapple Crown Leaves Waste as the Substrate. In *UNIVERSITAS RIAU INTERNATIONAL CONFERENCE ON SCIENCE AND ENVIRONMENT 2020 (URICSE-2020)*. ISSN 1742-6588, 2020, vol. 1655, no., pp. Dostupné na: <https://doi.org/10.1088/1742-6596/1655/1/012113>,

Registrované v: WOS

25. [1.1] EZEILO, Uchenna R. - WAHAB, Roswanira Abdul - MAHAT, Naji Arafat. Optimization studies on cellulase and xylanase production by *Rhizopus oryzae* UC2 using raw oil palm frond leaves as substrate under solid state fermentation. In *RENEWABLE ENERGY*. ISSN 0960-1481, 2020, vol. 156, no., pp. 1301-1312. Dostupné na: <https://doi.org/10.1016/j.renene.2019.11.149>,

Registrované v: WOS

26. [1.1] FAN, Guangsen - WU, Qiuhua - LI, Qin - SUN, Baoguo - MA, Yanli - WU, Keliang - WANG, Chunyan - TENG, Chao - YANG, Ran - LI, Xiuting. Impact of the disulfide bond on hydrolytic characteristics of a xylanase from *Talaromyces thermophiles* F1208. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 1748-1757. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.270>, Registrované v:

WOS

27. [1.1] FERRI, Maura - HAPPEL, Anton - ZANAROLI, Giulio - BERTOLINI, Marco - CHIESA, Stefano - COMMISSO, Mauro - GUZZO, Flavia - TASSONI, Annalisa. Advances in combined enzymatic extraction of ferulic acid from wheat bran. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2020, vol. 56, no., pp. 38-45. Dostupné na: <https://doi.org/10.1016/j.nbt.2019.10.010>, Registrované v:

WOS

28. [1.1] FERRI, Maura - VANNINI, Micaela - EHRNELL, Maria - ELIASSON, Lovisa - XANTHAKIS, Epameinondas - MONARI, Stefania - SISTI, Laura - MARCHESE, Paola - CELLI, Annamaria - TASSONI, Annalisa. From winery waste to bioactive compounds and new polymeric biocomposites: A contribution to the circular economy concept. In *JOURNAL OF ADVANCED RESEARCH*. ISSN 2090-1232, 2020, vol. 24, no., pp. 1-11. Dostupné na:

- <https://doi.org/10.1016/j.jare.2020.02.015>., Registrované v: WOS
29. [1.1] FRASSATTO, Priscila Aparecida Casciatori - CASCIA TORI, Fernanda Perpetua - THOME O, Joao Claudio - GOMES, Eleni - BOSCOLO, Mauricio - DA SILVA, Roberto. Fungal cellulases: production by solid-state cultivation in packed-bed bioreactor using solid agro-industrial by-products as substrates and application for hydrolysis of sugarcane bagasse. In SEMINA-CIENCIAS AGRARIAS. ISSN 1676-546X, 2020, vol. 41, no. 5, pp. 2097-2115. Dostupné na: <https://doi.org/10.5433/1679-0359.2020v41n5Supl1p2097>., Registrované v: WOS
30. [1.1] GAUTERIO, Gabrielle Victoria - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - RIBEIRO, Tairine da Rosa - KALIL, Susana Juliano. Maximization of xylanase production by *Aureobasidium pullulans* using a by-product of rice grain milling as xylan source. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 23, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101511>., Registrované v: WOS
31. [1.1] HA, Dung T. - KANARSKY, Albert - KANARSKAYA, Zosia A. - SHCHERBAKOV, Andrei - SHCHERBAKOVA, Elena N. - PRANOVICH, Andrey. Impact of cultivation conditions on xylanase production and growth in *Paenibacillus mucilaginosus*. In IZVESTIYA VUZOV-PRIKLADNAYA KHIMIYA I BIOTEKHNOLOGIYA. ISSN 2227-2925, 2020, vol. 10, no. 3, pp. 459-469. Dostupné na: <https://doi.org/10.21285/2227-2925-2020-10-3-459-469>., Registrované v: WOS
32. [1.1] HA, Dung T. - KANARSKY, Albert - KANARSKAYA, Zosia A. - SHCHERBAKOV, Andrei - SHCHERBAKOVA, Elena N. Biosynthesis of exopolysaccharides by soil bacteria *Paenibacillus mucilaginosus* on a nutrient molasses medium. In IZVESTIYA VUZOV-PRIKLADNAYA KHIMIYA I BIOTEKHNOLOGIYA. ISSN 2227-2925, 2020, vol. 10, no. 4, pp. 708-718. Dostupné na: <https://doi.org/10.21285/2227-2925-2020-10-4-708-718>., Registrované v: WOS
33. [1.1] HAHN SCHNEIDER, Willian Daniel - FONTANA, Roselei Claudete - BAUDEL, Henrique Macedo - DE SIQUEIRA, Felix Goncalves - RENCORET, Jorge - GUTIERREZ, Ana - ISABEL DE EUGENIO, Laura - PRIETO, Alicia - JESUS MARTINEZ, Maria - MARTINEZ, Angel T. - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Lignin degradation and detoxification of eucalyptus wastes by on-site manufacturing fungal enzymes to enhance second-generation ethanol yield. In APPLIED ENERGY. ISSN 0306-2619, 2020, vol. 262, no., pp. Dostupné na: <https://doi.org/10.1016/j.apenergy.2020.114493>., Registrované v: WOS
34. [1.1] HAN, Mei-Ling - AN, Qi - HE, Sai-Fei - ZHANG, Xiao-Lin - ZHANG, Ming-Hui - GAO, Xin-Hua - WU, Qian - BIAN, Lu-Sen. Solid-state Fermentation on Poplar Sawdust and Corncob Wastes for Lignocellulolytic Enzymes by Different *Pleurotus ostreatus* Strains. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4982-4995., Registrované v: WOS
35. [1.1] HAO, Xixun - WEN, Peiyao - WANG, Jia - WANG, Jinye - YOU, Jiabin - ZHANG, Junhua. Production of xylooligosaccharides and monosaccharides from hydrogen peroxide-acetic acid-pretreated poplar by two-step enzymatic hydrolysis. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122349>., Registrované v: WOS
36. [1.1] HAQ, Ikram-ul - NAZIR, Komal - YASIN, Ghulam - ALI, Sajid - DUA, Mahnoor. Analysis of Extra-Cellular Productions of *Bacillus subtilis* Sub-Merged Fermentation Cultures Supplemented with Rotten Potatoes and Sugar Beets. In BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS. ISSN

- 0974-6455, 2020, vol. 13, no. 2, pp. 541-549. Dostupné na: <https://doi.org/10.21786/bbrc/13.2/27.>, Registrované v: WOS
37. [1.1] HASNA, Nait M'; Barek - HASSAN, Hajjaj. Cellulolytic fungi from central Morocco: comparative analysis of enzyme activities, in silico prediction of physico-chemical properties and molecular docking. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2020, vol. 15, no. 5, pp. 50-60., Registrované v: WOS
38. [1.1] HEBAL, Hakim - PARVIAINEN, Arno - ANBARASAN, Sasikala - LI, He - MAKKONEN, Laura - BANKAR, Sandip - KING, Alistair W. T. - KILPELAINEN, Ilkka - BENALLAOUA, Said - TURUNEN, Ossi. Inhibition of hyperthermostable xylanases by superbase ionic liquids. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 95, no., pp. 148-156. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.03.022.>, Registrované v: WOS
39. [1.1] HU, Xiaojiao - CUI, Yang - LU, Xiaomin - SONG, Weibin - LEI, Lei - ZHU, Jinjie - LAI, Jinsheng - E, Lizhu - ZHAO, Haiming. Maize W15 encodes an endo-1,4-beta-xylanase required for secondary cell wall synthesis and water transport in xylem. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2020, vol. 62, no. 10, pp. 1607-1624. Dostupné na: <https://doi.org/10.1111/jipb.12923.>, Registrované v: WOS
40. [1.1] IKRAM-UL HAQ - AHMED, Mashooq - LANJAR, Ghulam Qadir - ALI, Kazim - SHEHRYAR. Efficiency of growth cultures of *Bacillus subtilis* with *Luffa cylindrica* used as carbon source. In *BIOSCIENCE RESEARCH*. ISSN 1811-9506, 2020, vol. 17, no. 4, pp. 4136-4143., Registrované v: WOS
41. [1.1] IKRAM-UL HAQ - JATOI, Imranullah - GILL, Nazia Parveen - SANGRASI, Sikandar Ali - KOMAL, Hadiqa - ALI, Noman. Certain Extracellular Productions in *Bacillus subtilis* Cultures Supplemented with Banana Waste as Substrate. In *INTERNATIONAL JOURNAL OF PHARMACEUTICAL AND PHYTOPHARMACOLOGICAL RESEARCH*. ISSN 2250-1029, 2020, vol. 10, no. 3, pp. 99-107., Registrované v: WOS
42. [1.1] JIANG, Wei - PEI, Rui - ZHOU, Shu-Feng. 3D-printed xylanase within biocompatible polymers as excellent catalyst for lignocellulose degradation. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2020, vol. 400, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2020.125920.>, Registrované v: WOS
43. [1.1] KACHLISHVILI, Eva - KOBAKHIDZE, Aza - RUSITASHVILI, Mariam - TSOKILAUARI, Ana - ELISASHVILI, Vladimir. Elucidation of the Higher Basidiomycetes Enzyme Activity in Dependence on the Medicinal Mushroom Inoculum Form, Precultivation Medium, Age, and Size. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2020, vol. 22, no. 11, pp. 1099-1108., Registrované v: WOS
44. [1.1] KAMEI, Ichiro - UCHIDA, Kana - ARDIANTI, Virginia. Conservation of Xylose Fermentability in *Phlebia* Species and Direct Fermentation of Xylan by Selected Fungi. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 192, no. 3, pp. 895-909. Dostupné na: <https://doi.org/10.1007/s12010-020-03375-x.>, Registrované v: WOS
45. [1.1] KAMENNAYA, Nina A. - GRAY, Justine - ITO, Seiko - KAINUMA, Mami - NGUYEN, My Vu - KHILYAS, Irina V. - BIRARDA, Giovanni - BERNIE, Fujun - HUNT, Mackenzie - VASADIA, Dipali - LIN, Joseph - HOLMAN, Hoi-Ying - TOROK, Tamas - COHEN, Michael F. Deconstruction of plant biomass by a *Cellulomonas* strain isolated from an ultra-basic (lignin-stripping) spring. In *ARCHIVES OF MICROBIOLOGY*. ISSN 0302-8933, 2020, vol. 202, no. 5, pp. 1077-1084. Dostupné na: <https://doi.org/10.1007/s00203-020-01816-z.>

Registrované v: WOS

46. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN, Irfan. *Partial purification and characterization of a recombinant beta-mannanase from Aspergillus fumigatus expressed in Aspergillus sojae grown on carob extract*. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na: <https://doi.org/10.1007/s13399-019-00487-1>.

Registrované v: WOS

47. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. *Optimization and Kinetic Evaluation of Acetylxylan Esterase and Xylanase Production by Trichoderma reesei Using Corn Cob Xylan*. In *ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL*. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>.

Registrované v: WOS

48. [1.1] KHARAZMI, Sara - TAHERI-KAFRANI, Asghar - SOOZANIPOUR, Asieh - NASROLLAHZADEH, Mahmoud - VARMA, Rajender S. *Xylanase immobilization onto trichlorotriazine-functionalized polyethylene glycol grafted magnetic nanoparticles: A thermostable and robust nanobiocatalyst for fruit juice clarification*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 402-413. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.273>.

Registrované v: WOS

49. [1.1] KIM, Young-Hee - CHOI, Kyoung-Hwa - HONG, Jin-Young - LEE, Jeung-Min - KIM, Soo-Ji - JO, Chang-Wook - JEONG, So Young. *Investigation of Microorganisms Deteriorating Ancient Ola Leaf Manuscripts*. In *RESTAURATOR-INTERNATIONAL JOURNAL FOR THE PRESERVATION OF LIBRARY AND ARCHIVAL MATERIAL*. ISSN 0034-5806, 2020, vol. 41, no. 3, pp. 119-129. Dostupné na: <https://doi.org/10.1515/res-2020-0004>.

Registrované v: WOS

50. [1.1] LI, Zhihong - ZHANG, Xiaoshuai - LI, Chunran - KOVALEVSKY, Andrey - WAN, Qun. *Studying the Role of a Single Mutation of a Family 11 Glycoside Hydrolase Using High-Resolution X-ray Crystallography*. In *PROTEIN JOURNAL*. ISSN 1572-3887, 2020, vol. 39, no. 6, pp. 671-680. Dostupné na: <https://doi.org/10.1007/s10930-020-09938-5>.

Registrované v: WOS

51. [1.1] LIAN, Zhina - WANG, Yane - LUO, Jing - LAI, Chenhuan - YONG, Qiang - YU, Shiyuan. *An integrated process to produce prebiotic xylooligosaccharides by autohydrolysis, nanofiltration and endo-xylanase from alkali-extracted xylan*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 314, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123685>.

Registrované v: WOS

52. [1.1] LIU, Jiantong - CAI, Yuyuan - LIU, Ling - ZHU, Jing - LI, Hong - ZHAN, Rui - XIAO, Naidong - ZHAO, Shumiao - HE, Mingxiong - HU, Guoquan - LIANG, Yuxiang - HU, Jinglong - PENG, Nan. *Enhanced lactic acid production by Bacillus coagulans through simultaneous saccharification, biodegradation, and fermentation*. In *BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR*. ISSN 1932-104X, 2020, vol. 14, no. 3, pp. 533-543. Dostupné na: <https://doi.org/10.1002/bbb.2086>.

Registrované v: WOS

53. [1.1] LONG, Lingfeng - ZHANG, Yunbo - REN, Hongyan - SUN, Haiyan - SUN, Fubao F. - QIN, Wensheng. *Recombinant expression of Aspergillus niger GH10 endo-xylanase in Pichia pastoris by constructing a double-plasmid co-expression system*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2020, vol. 95, no. 3, pp. 535-543.

- Dostupné na: <https://doi.org/10.1002/jctb.6250>., Registrované v: WOS
54. [1.1] LOPES, Leandro S. - VIEIRA, Nicolly - DA LUZ, Jose Maria R. - SILVA, Marliane de Cassia S. - CARDOSO, Wilton Soares - KASUYA, Maria Catarina M. Production of fungal enzymes in Macauba coconut and enzymatic degradation of textile dye. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 26, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101651>., Registrované v: WOS
55. [1.1] MACHADO, Angela S. - VALADARES, Fernanda - SILVA, Tatiane F. - MILAGRES, Adriane M. F. - SEGATO, Fernando - FERRAZ, Andre. The Secretome of *Phanerochaete chrysosporium* and *Trametes versicolor* Grown in Microcrystalline Cellulose and Use of the Enzymes for Hydrolysis of Lignocellulosic Materials. In *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00826>., Registrované v: WOS
56. [1.1] MAFEI, Thamyres Del Torto - NETO, Flavia Sanchez Penalva Pinto - PEIXOTO, Guilherme - DE BAPTISTA NETO, Alvaro - MONTI, Rubens - MASARIN, Fernando. Extraction and Characterization of Hemicellulose from Eucalyptus By-product: Assessment of Enzymatic Hydrolysis to Produce Xylooligosaccharides. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 190, no. 1, pp. 197-217. Dostupné na: <https://doi.org/10.1007/s12010-019-03076-0>., Registrované v: WOS
57. [1.1] MAMATHA, Pingili - RAJ, Marla Shailaja - RAMAKRISHNA, Raparla. Comparative analysis of enzymes production by *Aspergillus niger* using Pretreated *Albizia lebbek* fruit pods. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2020, vol. 15, no. 7, pp. 98-104., Registrované v: WOS
58. [1.1] MARIM, Renan Alberto - AVELINO, Katielle Vieira - WIETZIKOSKI HALABURA, Marisangela Isabel - ARAUJO, Nelma Lopes - SANTANA, Thiago Teodoro - LINDE, Giani Andrea - COLAUTO, Nelson Barros - DO VALLE, Juliana Silveira. *Lentinus crinitus* RESPONSE TO BLUE LIGHT ON CARBOHYDRATE-ACTIVE ENZYMES. In *BIOSCIENCE JOURNAL*. ISSN 1981-3163, 2020, vol. 36, no. 3, pp. 924-931. Dostupné na: <https://doi.org/10.14393/BJ-v36n3a2020-49986>., Registrované v: WOS
59. [1.1] MARTINEZ-PACHECO, Mauro M. - FLORES-GARCIA, Alberto - ZAMUDIO-JARAMILLO, Miguel A. - CARMEN CHAVEZ-PARGA, Ma - ALVAREZ-NAVARRETE, Mariana. Optimization of production of xylanases with low cellulases in *Fusarium solani* by means of a solid state fermentation using statistical experimental design. In *REVISTA ARGENTINA DE MICROBIOLOGIA*. ISSN 0325-7541, 2020, vol. 52, no. 4, pp. 328-338. Dostupné na: <https://doi.org/10.1016/j.ram.2019.12.003>., Registrované v: WOS
60. [1.1] MARTINS, Manoela - AVILA, Patricia Felix - PAIM DE ANDRADE, Cristiane Conte - GOLDBECK, Rosana. Synergic recombinant enzyme association to optimize xylo-oligosaccharides production from agricultural waste. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 28, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101747>., Registrované v: WOS
61. [1.1] MENDONCA, Elenira H. M. - AVANCI, Nilton Cesar - ROMANO, Luis Henrique - BRANCO, Daniel Lopes - DE PADUA, Alessandra Xavier - WARD, Richard John - DE BAPTISTA NETO, Alvaro - LOURENZONI, Marcos Roberto. Recombinant xylanase production by *Escherichia coli* using a non-induced expression system with different nutrient sources. In *BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING*. ISSN 0104-6632, 2020, vol. 37, no. 1, pp. 29-39.

- Dostupné na: <https://doi.org/10.1007/s43153-019-00004-x>, Registrované v: WOS
62. [1.1] MHIRI, Sonia - BOUANANE-DARENFED, Amel - JEMLI, Sonia - NEIFAR, Sawssan - AMERI, Rihab - MEZGHANI, Monia - BOUACEM, Khelifa - JAOUADI, Bassem - BEJAR, Samir. A thermophilic and thermostable xylanase from *Caldicoprobacter algeriensis*: Recombinant expression, characterization and application in paper biobleaching. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 808-817. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.162>, Registrované v: WOS
63. [1.1] MOHAPATRA, Sonali - JENA, Swarnamanjuri - JENA, Pradip Kumar - BADHAI, Jhasketan - ACHARYA, Achyuta Nanda - THATOI, Hrudayanath. Partial consolidated bioprocessing of pretreated *Pennisetum* sp. by anaerobic thermophiles for enhanced bioethanol production. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 256, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.127126>, Registrované v: WOS
64. [1.1] MONARI, Stefania - FERRI, Maura - VANNINI, Micaela - SISTI, Laura - MARCHESE, Paola - EHRNELL, Maria - XANTHAKIS, Epameinondas - CELLI, Annamaria - TASSONI, Annalisa. Cascade strategies for the full valorisation of Garganega white grape pomace towards bioactive extracts and bio-based materials. In *PLOS ONE*. ISSN 1932-6203, 2020, vol. 15, no. 9, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0239629>, Registrované v: WOS
65. [1.1] MUKHERJEE, Trinetra - BANIK, Avishek - MUKHOPADHYAY, Subhra Kanti. Plant Growth-Promoting Traits of a Thermophilic Strain of the *Klebsiella* Group with its Effect on Rice Plant Growth. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2020, vol. 77, no. 10, pp. 2613-2622. Dostupné na: <https://doi.org/10.1007/s00284-020-02032-0>, Registrované v: WOS
66. [1.1] NARRA, Madhuri - RUDAKIYA, Darshan M. - MACWAN, Kumud - PATEL, Nidhi. Black liquor: A potential moistening agent for production of cost-effective hydrolytic enzymes by a newly isolated cellulose-xylan fungal strain *Aspergillus tubingensis* and its role in higher saccharification efficiency. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 306, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123149>, Registrované v: WOS
67. [1.1] NOROUZI, Sara - BIRGANI, Nazanin Hajati - MAGHAMI, Parvaneh - ARIAEENEJAD, Shohreh. Improvement of PersiXyn2 activity and stability in presence of Trehalose and proline as a natural osmolyte. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 348-357. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.288>, Registrované v: WOS
68. [1.1] NUTONGKAEW, Tanawut - PRASERTSAN, Poonsuk - LEAMDUM, Chonticha - SATTAYASAMITSATHIT, Supalak - NOPARAT, Pongsak. Bioconversion of Oil Palm Trunk Residues Hydrolyzed by Enzymes from Newly Isolated Fungi and Use for Ethanol and Acetic Acid Production Under Two-Stage and Simultaneous Fermentation. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 4, pp. 1333-1347. Dostupné na: <https://doi.org/10.1007/s12649-019-00678-x>, Registrované v: WOS
69. [1.1] NUTONGKAEW, Tanawut - PRASERTSAN, Poonsuk - O-THONG, Sompong - CHANTHONG, Sukonlarat - SUYOTHA, Wasana. Improved Methane Production Using Lignocellulolytic Enzymes from *Trichoderma koningiopsis* TM3 Through Co-digestion of Palm Oil Mill Effluent and Oil Palm Trunk Residues. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 10,

- pp. 5123-5136. Dostupné na: <https://doi.org/10.1007/s12649-019-00838-z>., Registrované v: WOS
70. [1.1] PATEL, Kartik - DUDHAGARA, Pravin. *Compatibility testing and enhancing the pulp bleaching process by hydrolases of the newly isolated thermophilic *Isoptericola variabilis* strain UD-6*. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2020, vol. 38, no. 2, pp. 144-160. Dostupné na: <https://doi.org/10.1080/10242422.2019.1711067>., Registrované v: WOS
71. [1.1] PATEL, Kartik - DUDHAGARA, Pravin. *Optimization of xylanase production by *Bacillus tequilensis* strain UD-3 using economical agricultural substrate and its application in rice straw pulp bleaching*. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 30, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101846>., Registrované v: WOS
72. [1.1] PERE, Jaakko - TAMMELIN, Tekla - NIEMI, Piritta - LILLE, Martina - VIRTANEN, Tommi - PENTTILA, Paavo A. - AHVENAINEN, Patrik - GRONQVIST, Stina. *Production of High Solid Nanocellulose by Enzyme-Aided Fibrillation Coupled with Mild Mechanical Treatment*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 51, pp. 18853-18863. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05202>., Registrované v: WOS
73. [1.1] PEREIRA, Barbara - ARANTES, Valdeir. *Production of cellulose nanocrystals integrated into a biochemical sugar platform process via enzymatic hydrolysis at high solid loading*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2020, vol. 152, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112377>., Registrované v: WOS
74. [1.1] PEROVIC, Milica N. - JUGOVIC, Zorica D. Knezevic - ANTOV, Mirjana G. *Improved recovery of protein from soy grit by enzyme-assisted alkaline extraction*. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2020, vol. 276, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfoodeng.2019.109894>., Registrované v: WOS
75. [1.1] POORNIMA, Shanmugam - DIVYA, Palanisamy - KARMEGAM, Natchimuthu - KARTHIK, Vivekanandhan - SUBBAIYA, Ramasamy. *Aqueous two-phase partitioning and characterization of xylanase produced by *Streptomyces geysiriensis* from low cost lignocellulosic substrates*. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2020, vol. 130, no. 6, pp. 571-576. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2020.07.008>., Registrované v: WOS
76. [1.1] RAHIKAINEN, Jenni - MATTILA, Outi - MALONEY, Thaddeus - LOVIKKA, Ville - KRUUS, Kristiina - SUURNAKKI, Anna - GRONQVIST, Stina. *High consistency mechano-enzymatic pretreatment for kraft fibres: effect of treatment consistency on fibre properties*. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5311-5322. Dostupné na: <https://doi.org/10.1007/s10570-020-03123-8>., Registrované v: WOS
77. [1.1] RAHMANI, N. - OKTAVIA, A. - NURYATI - ASTUTI, D. - NUGRAHA, S. - NURO, F. - MULYANI, E. S. - HERMIATI, E. - RAMADHAN, K. P. - LISDIYANTI, P. - YOPI - PRASETYA, B. *Endo-xylanase Enzyme Production using Agroindustrial Biomass as Feedstock by *Kitasatospora* sp.* In *INTERNATIONAL SYMPOSIUM OF INNOVATIVE BIO-PRODUCTION INDONESIA ON BIOTECHNOLOGY AND BIOENGINEERING 2019*. ISSN 1755-1307, 2020, vol. 439, no., pp. Dostupné na: <https://doi.org/10.1088/1755-1315/439/1/012028>., Registrované v: WOS
78. [1.1] RAO, Junchao - ZHANG, Rongzhen - XU, Guanyu - LI, Lihong - XU,

- Yan. Efficient production of (S)-1-phenyl-1,2-ethanediol using xylan as co-substrate by a coupled multi-enzyme Escherichia coli system. In MICROBIAL CELL FACTORIES, 2020, vol. 19, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12934-020-01344-x>, Registrované v: WOS*
79. [1.1] ROMANI, Aloia - MORAIS, Eduarda S. - SOARES, Pedro O. - FREIRE, Mara G. - FREIRE, Carmen S. R. - SILVESTRE, Armando J. D. - DOMINGUES, Lucilia. Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 311, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123524>, Registrované v: WOS
80. [1.1] SAKITA, Gabriel Zanuto - VENTOSO BOMPADRE, Thiago Francisco - DINESHKUMAR, Dhanasekaran - TAVARES LIMA, Paulo de Mello - ABDALLA FILHO, Adibe Luiz - CAMPIONI, Tania Sila - DE OLIVA NETO, Pedro - BREMER NETO, Herman - LOUVANDINI, Helder - ABDALLA, Adibe Luiz. Fibrolytic enzymes improving in vitro rumen degradability of tropical forages. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439, 2020, vol. 104, no. 5, pp. 1267-1276. Dostupné na: <https://doi.org/10.1111/jpn.13373>, Registrované v: WOS
81. [1.1] SATRIA, Heri - YANDRI - NURHASANAH - YUWONO, Suripto Dwi - HERASARI, Dian. Extracellular hydrolytic enzyme activities of indigenous actinomycetes on pretreated bagasse using choline acetate ionic liquid. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, 2020, vol. 24, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101503>, Registrované v: WOS
82. [1.1] SETTI, Leonardo - SAMAEI, Seyedeh Parya - MAGGIORE, Irene - NISSEN, Lorenzo - GIANOTTI, Andrea - BABINI, Elena. Comparing the Effectiveness of Three Different Biorefinery Processes at Recovering Bioactive Products from Hemp (Cannabis sativa L.) Byproduct. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2020, vol. 13, no. 12, pp. 2156-2171. Dostupné na: <https://doi.org/10.1007/s11947-020-02550-6>, Registrované v: WOS
83. [1.1] SHARMA, Abha - SHARMA, Anamika - SINGH, Jyoti - SHARMA, Pushpendra - TOMAR, Govind Singh - SINGH, Surender - NAIN, Lata. A biorefinery approach for the production of ferulic acid from agroresidues through ferulic acid esterase of lactic acid bacteria. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-02360-9>, Registrované v: WOS
84. [1.1] SOMBOON, Chollada - BOONRUNG, Santhaya - KATEKAEW, Somporn - EKPRASERT, Jindarat - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of low molecular weight alkali stable xylanase from Neosartorya spinosa UZ-2-11. In MYCOSCIENCE. ISSN 1340-3540, 2020, vol. 61, no. 3, pp. 128-135. Dostupné na: <https://doi.org/10.1016/j.myc.2020.01.004>, Registrované v: WOS
85. [1.1] STORANI, Alem - GUERRERO, Sergio A. - IGLESIAS, Alberto A. On the functionality of the N-terminal domain in xylanase 10A from Ruminococcus albus 8. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109673>, Registrované v: WOS
86. [1.1] SUNKAR, Bindu - KANNOJU, Balakrishna - BHUKYA, Bhima. Optimized Production of Xylanase by Penicillium purpurogenum and Ultrasound Impact on Enzyme Kinetics for the Production of Monomeric Sugars From

- Pretreated Corn Cobs. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00772>., Registrované v: WOS*
87. [1.1] TADDIA, Antonela - BRANDALEZE, Geronimo Nicolas - BOGGIONE, Maria Julia - BORTOLATO, Santiago Andres - TUBIO, Gisela. *An integrated approach to the sustainable production of xylanolytic enzymes from Aspergillus niger using agro-industrial by-products. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2020, vol. 50, no. 10, pp. 979-991. Dostupné na: <https://doi.org/10.1080/10826068.2020.1777425>., Registrované v: WOS*
88. [1.1] TUNDO, Silvio - PACCANARO, Maria Chiara - ELMAGHRABY, Ibrahim - MOSCETTI, Ilaria - D' OVIDIO, Renato - FAVARON, Francesco - SELLA, Luca. *The Xylanase Inhibitor TAXI-I Increases Plant Resistance to Botrytis cinerea by Inhibiting the BcXyn1a Xylanase Necrotizing Activity. In PLANTS-BASEL, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/plants9050601>., Registrované v: WOS*
89. [1.1] VAIDYANATH, Sharath - HARISH, B. S. - GAYATHRI, G. - TRILOKESH, C. - UPPULURI, Kiran Babu - ANBAZHAGAN, Veerappan. *Maximizing the direct recovery and stabilization of cellulolytic enzymes from Trichoderma harzanium BPGF1 fermented broth using carboxymethyl inulin nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 160, no., pp. 964-970. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.185>., Registrované v: WOS*
90. [1.1] VERMA, Digvijay - SATYANARAYANA, Tulasi. *Xylanolytic Extremozymes Retrieved From Environmental Metagenomes: Characteristics, Genetic Engineering, and Applications. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.551109>., Registrované v: WOS*
91. [1.1] VERONICA DIAZ, Gabriela - OLGA CONIGLIO, Romina - ELIZABET ALVARENGA, Adriana - DARIO ZAPATA, Pedro - LIDIA VILLALBA, Laura - ISABEL FONSECA, Maria. *Secretomic analysis of cheap enzymatic cocktails of Aspergillus niger LBM 134 grown on cassava bagasse and sugarcane bagasse. In MYCOLOGIA. ISSN 0027-5514, 2020, vol. 112, no. 4, pp. 663-676. Dostupné na: <https://doi.org/10.1080/00275514.2020.1763707>., Registrované v: WOS*
92. [1.1] WANG, Zhenyu - CAO, Xingyuan - LI, Nan - YANG, Zhengjiao - LEI, Ming - ZHAO, Yang - WANG, Lizhi - LI, Zhenyu - LIU, Dong - NIU, Huanqing - YING, Hanjie. *Production of Butanol Directly from Hemicellulose through Secretory Expression of a Xylanase in Clostridium acetobutylicum. In ENERGY & FUELS. ISSN 0887-0624, 2020, vol. 34, no. 3, pp. 3376-3382. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b04489>., Registrované v: WOS*
93. [1.1] WONG, Ho-Lam - HU, Nien-Jen - JUANG, Tzong-Yuan - LIU, Yung-Chuan. *Co-Immobilization of Xylanase and Scaffolding Protein onto an Immobilized Metal Ion Affinity Membrane. In CATALYSTS, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/catal10121408>., Registrované v: WOS*
94. [1.1] WU, Shuai - MA, Xiaojuan - CAO, Shilin - CHEN, Lihui - HUANG, Liulian - HUANG, Fang. *Application of Enzymes for the Reduction of PFI Revolutions in the Secondary Pulping Process and Characteristics of Thermomechanical Pulp. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7487-7502. Dostupné na: <https://doi.org/10.15376/biores.15.4.7487-7502>., Registrované v: WOS*
95. [1.1] XIN, Donglin - YANG, Ming - CHEN, Xiang - ZHANG, Ying - WANG,

Rui - WEN, Peiyao - ZHANG, Junhua. Improving cellulase recycling efficiency by decreasing the inhibitory effect of unhydrolyzed solid on recycled corn stover saccharification. In *RENEWABLE ENERGY*. ISSN 0960-1481, 2020, vol. 145, no., pp. 215-221. Dostupné na: <https://doi.org/10.1016/j.renene.2019.06.029>., Registrované v: WOS

96. [1.1] XU, Ning - HE, Aiyong - XU, Jiaying - XIN, Fengxue. Bioconversion of organosolv-treated bamboo into biobutanol integrated with on-site hydrolytic enzyme production. In *BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR*. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 117-126. Dostupné na: <https://doi.org/10.1002/bbb.2065>., Registrované v: WOS

97. [1.1] YANG, Jiangke - MA, Tengfei - FANG SHANG-GUAN - HAN, Zhenggang. Improving the catalytic activity of thermostable xylanase from *Thermotoga maritima* via mutagenesis of non-catalytic residues at glycone subsites. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109579>., Registrované v: WOS

98. [1.1] YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>., Registrované v: WOS

99. [1.1] ZHANG, Fei - LI, Jia-Xiang - CHAMPREDA, Verawat - LIU, Chen-Guang - BAI, Feng-Wu - ZHAO, Xin-Qing. Global Reprogramming of Gene Transcription in *Trichoderma reesei* by Overexpressing an Artificial Transcription Factor for Improved Cellulase Production and Identification of Ypr1 as an Associated Regulator. In *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00649>., Registrované v: WOS

100. [1.1] ZHOU, Ye-Bo - CAO, Jia-Wen - SUN, Xiao-Bao - WANG, Huan - GAO, De-Ying - LI, Yang-Nan - WU, Kai-Yue - WANG, Jia-Kun - QIAN, Guo-Ying - WANG, Qian. Enhanced stability of a rumen-derived xylanase using SpyTag/SpyCatcher cyclization. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-2809-4>., Registrované v: WOS

ADCA26

BALESTRI, Mirko - CECCARINI, Alessio - FORINO, Laura Maria Constantina - ZELKO, Ivan - MARTINKA, Michal - LUX, Alexander - CASTIGLIONE, Monica Ruffini. Cadmium uptake, localization and stress-induced morphogenic response in the fern *Pteris Vittata*. In *Planta*, 2014, vol. 239, p. 1055-1064. (2013: 3.376 - IF, Q1 - JCR, 1.562 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0032-0935. Dostupné na: <https://doi.org/10.1007/s00425-014-2036-z>

Citácie:

1. [1.1] CANTAMESSA, Simone - MASSA, Nadia - GAMALERO, Elisa - BERTA, Graziella. Phytoremediation of a Highly Arsenic Polluted Site, Using *Pteris vittata* L. and Arbuscular Mycorrhizal Fungi. In *PLANTS-BASEL*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091211>., Registrované v: WOS

2. [1.1] HUA, Chen-Yu - CHEN, Jun-Xiu - CAO, Yue - LI, Hong-Bo - CHEN, Yanshan - MA, Lena Q. *Pteris vittata* coupled with phosphate rock effectively reduced As and Cd uptake by water spinach from contaminated soil. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 247, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.125916>., Registrované v: WOS

3. [1.1] KONG, Xiangshi - ZHAO, Yunxia - TIAN, Kai - HE, Xingbing - JIA, Yanyan - HE, Zaihua - WANG, Wenwen - XIANG, Changguo - TIAN, Xingjun. *Insight into nitrogen and phosphorus enrichment on cadmium phytoextraction of hydroponically grown Salix matsudana Koidz cuttings*. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 8, pp. 8406-8417. Dostupné na: <https://doi.org/10.1007/s11356-019-07499-4>, Registrované v: WOS
4. [1.1] SHARMA, R. - KAUR, R. *Diallyl phthalate-triggered oxidative stress in Spirodela polyrhiza L. Schleiden: physiological effects and role of antioxidant defence system*. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, 2020, vol. 17, no. 4, pp. 2245-2258. Dostupné na: <https://doi.org/10.1007/s13762-019-02491-4>, Registrované v: WOS
5. [1.1] TAO, Qi - LIU, Yuankun - LI, Meng - LI, Jinxing - LUO, Jipeng - LUX, Alexander - KOVAC, Jan - YUAN, Shu - LI, Bing - LI, Qiquan - LI, Huanxiu - LI, Tingqiang - WANG, Changquan. *Cd-induced difference in root characteristics along root apex contributes to variation in Cd uptake and accumulation between two contrasting ecotypes of Sedum alfredii*. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 243, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125290>, Registrované v: WOS
6. [1.1] UKAI, Yuko - INOUE, Komaki - KAMADA, Manaka - TERAMURA, Hiroshi - YANAGISAWA, Shunsuke - KITAZAKI, Kazuyoshi - SHOJI, Kazuhiro - GOTO, Fumiyuki - MOCHIDA, Keiichi - YOSHIHARA, Toshihiro - SHIMADA, Hiroaki. *De novo transcriptome analysis reveals an unperturbed transcriptome under high cadmium conditions in the Cd-hypertolerant fern Athyrium yokoscense*. In GENES & GENETIC SYSTEMS. ISSN 1341-7568, 2020, vol. 95, no. 2, pp. 65-74. Dostupné na: <https://doi.org/10.1266/ggs.19-00056>, Registrované v: WOS

ADCA27 BÁLINT, Š. - FARKAŠ, Vladimír - BAUER, Š. *Biosynthesis of β -glucans catalyzed by a particulate enzyme preparation from yeast*. In FEBS Letters, 1976, vol.64, no., p.44-47. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(76\)80244-X](https://doi.org/10.1016/0014-5793(76)80244-X)

Citácie:

1. [1.1] LIU, Yuntao - LI, Yiwen - ZHANG, Huilan - LI, Cheng - ZHANG, Zhiqing - LIU, Aiping - CHEN, Hong - HU, Bin - LUO, Qingying - LIN, Bokun - WU, Wenjuan. *Polysaccharides from Cordyceps militaris cultured at different pH: Sugar composition and antioxidant activity*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 349-358. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.182>, Registrované v: WOS

ADCA28 BARBIERIKOVÁ, Zuzana - BELLA, Maroš - SEKERÁKOVÁ, Ľudmila - LIETAVA, Jozef - BOBENIČOVÁ, Miroslava - DVORANOVÁ, Dana - MILATA, Viktor - SÁDECKÁ, Jana - TOPOĽSKÁ, Dominika - HEIZER, Tomáš - HUDEC, Roman - CZÍMEROVÁ, Adriana - JANTOVÁ, Soňa - BREZOVÁ, Vlasta. *Spectroscopic characterization, photoinduced processes and cytotoxic properties of substituted N-ethyl selenadiazoloquinolones*. In Journal of Physical Organic Chemistry, 2013, vol. 26, no. 7, p. 565-574. (2012: 1.578 - IF, Q3 - JCR, 0.708 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0894-3230. Dostupné na: <https://doi.org/10.1002/poc.3133>

Citácie:

1. [1.1] GONCALVES, Pablo J. - BEZZERRA, Fabio C. - TELES, Amanda - MENEZES, Lucas B. - ALVES, Kamilla M. - ALONSO, Lais - ALONSO, Antonio -

ANDRADE, Maria A. - BORISSEVITCH, Iouri E. - SOUZA, Guilherme R. L. - IGLESIAS, Bernardo A. *Photoinactivation of Salmonella enterica (serovar Typhimurium) by tetra-cationic porphyrins containing peripheral [Ru(bpy)(2)Cl](+) units. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2020, vol. 391, no., pp. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2020.112375>., Registrované v: WOS*

- ADCA29 BARBIERIKOVÁ, Zuzana - DVORANOVÁ, Dana - BELLA, Maroš - MILATA, Viktor - CZÍMEROVÁ, Adriana - BREZOVÁ, Vlasta. Fused-ring derivatives of quinoxalines: spectroscopic characterization and photoinduced processes investigated by EPR spin trapping technique. In *Molecules*, 2014, vol. 19, no. 8, p. 12078-12098. (2013: 2.095 - IF, Q3 - JCR, 0.707 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules190812078>

Citácie:

1. [1.1] EL-GHAMAZ, N. A. - MOQBEL, M. S. - EL-SHABAAN, M. M. *Theoretical and experimental studies on structural and optical properties of two quinoxaline 1,4dioxide derivatives. In JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS. ISSN 0957-4522, 2020, vol. 31, no. 24, pp. 22012-22027. Dostupné na: <https://doi.org/10.1007/s10854-020-04703-x>., Registrované v: WOS*

- ADCA30 BARBORÍKOVÁ, Jana - ŠUTOVSKÁ, Martina - KAZIMIEROVÁ, Ivana - JOŠKOVÁ, Marta - FRAŇOVÁ, Soňa - KOPECKÝ, Ján - CAPEK, Peter**. Extracellular polysaccharide produced by *Chlorella vulgaris* – Chemical characterization and anti-asthmatic profile. In *International Journal of Biological Macromolecules*, 2019, vol. 135, p. 1-11. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.05.104>

Citácie:

1. [1.1] DURMAZ, Y. - KILICLI, M. - TOKER, O.S. - KONAR, N. - PALABIYIK, I. - TAMTURK, F. *Using spray -dried microalgae in ice cream formulation as a natural colorant: Effect on physicochemical and functional properties. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, MAY 2020, vol. 47., Registrované v: WOS*

2. [1.1] EL-NAGGAR, N.E.A. - HUSSEIN, M.H. - SHAABAN-DESSUUKI, S.A. - DALAL, S.R. *Production, extraction and characterization of Chlorella vulgaris soluble polysaccharides and their applications in AgNPs biosynthesis and biostimulation of plant growth. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 20 2020, vol. 10, no. 1., Registrované v: WOS*

3. [1.1] FERREIRA, A.S. - FERREIRA, S.S. - CORREIA, A. - VILANOVA, M. - SILVA, T.H. - COIMBRA, M.A. - NUNES, C. *Reserve, structural and extracellular polysaccharides of Chlorella vulgaris: A holistic approach. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, JAN 2020, vol. 45., Registrované v: WOS*

4. [1.1] LI, Y.Q. - WANG, C.J. - LIU, H.Z. - SU, J.B. - LAN, C.Q. - ZHONG, M. - HU, X.Q. *Production, isolation and bioactive estimation of extracellular polysaccharides of green microalga Nannochloris oleoabundans. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, JUN 2020, vol. 48., Registrované v: WOS*

5. [1.1] SHUKLA, S.P. - KVIDEROVA, J. - ADAMEC, L. - ELSTER, J. *Ecophysiological Features of Polar Soil Unicellular Microalgae(1). In JOURNAL OF PHYCOLOGY. ISSN 0022-3646, APR 2020, vol. 56, no. 2, p. 481-495.,*

Registrované v: WOS

6. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. Isolation, structures and biological activities of polysaccharides from *Chlorella*: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>.

Registrované v: WOS

7. [1.1] ZHAO, Ting - HAN, Xiaotian - CAO, Huidi. Effect of Temperature on Biological Macromolecules of Three Microalgae and Application of FT-IR for Evaluating Microalgal Lipid Characterization. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 51, pp. 33262-33268. Dostupné na:

<https://doi.org/10.1021/acsomega.0c04961>., *Registrované v: WOS*

- ADCA31 BARTHELDYOVÁ, Eliška - TURÁNEK-KNOTIGOVÁ, Pavlína - ZACHOVÁ, Kateřina - MAŠEK, Jozef - KULICH, Pavel - EFFENBERG, Roman - ZYKA, Daniel - HUBATKA, František - KOTOUČEK, Jan - ČELECHOVSKÁ, Hana - HÉŽOVÁ, Renata - TOMEČKOVÁ, Andrea - MAŠKOVÁ, Eliška - FOJTÍKOVÁ, Martina - MACAULAY, Stuart - BYSTRICKÝ, Peter - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema** - DROŽ, Ladislav - LEDVINA, Miroslav** - RAŠKA, Milan** - TURÁNEK, Jaroslav**. N-Oxy lipid-based click chemistry for orthogonal coupling of mannan onto nanoliposomes prepared by microfluidic mixing: Synthesis of lipids, characterisation of mannan-coated nanoliposomes and in vitro stimulation of dendritic cells. In *Carbohydrate Polymers*, 2019, vol. 207, p. 521-532. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.10.121>

Citácie:

1. [1.1] BASHIRI, Sahra - KOIRALA, Prashamsa - TOTH, Istvan - SKWARCZYNSKI, Mariusz. Carbohydrate Immune Adjuvants in Subunit Vaccines. In *PHARMACEUTICS*, 2020, vol. 12, no. 10, pp. Dostupné na: <https://doi.org/10.3390/pharmaceutics12100965>., *Registrované v: WOS*

- ADCA32 BATHÓOVÁ, Monika** - BOKOR, Boris - SOUKUP, Milan - LUX, Alexander - MARTINKA, Michal. Silicon-mediated cell wall modifications of sorghum root exodermis and suppression of invasion of fungus *Alternaria alternata*. In *Plant Pathology*, 2018, vol. 67, p. 1891-1900. (2017: 2.303 - IF, Q1 - JCR, 1.063 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0032-0862. Dostupné na: <https://doi.org/10.1111/ppa.12906>

Citácie:

1. [1.1] KRESZIES, Tino - KRESZIES, Victoria - LY, Falko - THANGAMANI, Priya Dharshini - SHELLAKKUTTI, Nandhini - SCHREIBER, Lukas. Suberized transport barriers in plant roots: the effect of silicon. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2020, vol. 71, no. 21, pp. 6799-6806. Dostupné na: <https://doi.org/10.1093/jxb/eraa203>., *Registrované v: WOS*

- ADCA33 BAUEROVÁ, Katarína - PAULOVÍČOVÁ, Ema - MIHALOVÁ, Danica - DRÁFI, František - ŠTROSOVÁ, Miriam - MASCIA, Cinzia - BIASI, Fiorella - ROVENSKÝ, Jozef - KUCHARSKÁ, Jarmila - GVOZDJÁKOVÁ, Anna - PONIŠT, Silvester. Combined methotrexate and coenzyme Q10 therapy in adjuvant-induced arthritis evaluated using parameters of inflammation and oxidative stress. In *Acta Biochimica Polonica*, 2010, vol. 57, no. 3, p. 347-354. (2009: 1.262 - IF, Q4 - JCR, 0.521 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0001-527X. (APVV-51-017905 : Molekulové mechanizmy pôsobenia nových liečiv ovplyvňujúcich oxidačný stres - významný etiopatogenetický faktor početných chorôb. Vega č. 2/0090/08 : Nové farmakologické prístupy ovplyvnenia

reumatoidnej artritídy študované na modeli adjuvantnej artritídy. COST Action B35 : Lipid Peroxidation Associated Disorders: LPO)

Citácie:

1. [1.1] QUAN, Y. - LUO, K. - CUI, S. - LIM, S.W. - SHIN, Y.J. - KO, E.J. - KIM, J.H. - CHUNG, S.J. - KYUNG, S. - CHUNG, B.H. - YANG, C.W. *The therapeutic efficacy of water-soluble coenzyme Q(10) in an experimental model of tacrolimus-induced diabetes mellitus. In KOREAN JOURNAL OF INTERNAL MEDICINE. ISSN 1226-3303, 2020, vol. 35, no. 6, p. 1443-1456., Registrované v: WOS*

ADCA34

BAUEROVÁ, Katarína - PAULOVICHOVÁ, Ema - MIHALOVÁ, Danica - ŠVÍK, Karol - PONIŠT, Silvester. Study of new ways of supplementary and combinatory therapy of rheumatoid arthritis with immunomodulators. Glucomannan and Imunoglukan® in adjuvant arthritis. In Toxicology and industrial health : an international journal, 2009, vol. 25, no. 4-5, p. 329-335. (2008: 0.700 - IF, Q4 - JCR, 0.261 - SJR, Q3 - SJR). ISSN 0748-2337. Dostupné na: <https://doi.org/10.1177/0748233709102945>

Citácie:

1. [1.1] KAWASE, A. - NAKASAKA, M. - BANDO, H. - YASUDA, S. - SHIMADA, H. - IWAKI, M. *Changes in Radixin Expression and Interaction with Efflux Transporters in the Liver of Adjuvant-Induced Arthritic Rats. In INFLAMMATION. ISSN 0360-3997, 2020, vol. 43, no. 1, p. 85-94., Registrované v: WOS*

2. [1.1] KUMAR, K. *Nutraceutical Potential and Processing Aspects of Oyster Mushrooms (Pleurotus Species). In CURRENT NUTRITION & FOOD SCIENCE. ISSN 1573-4013, 2020, vol. 16, no. 1, p. 3-14., Registrované v: WOS*

3. [1.1] RAY, P. - CHATTERJEE, S. - SAHA, P. *Immunomodulatory Activity of Natural Polysaccharides in Combating Covid -19, Cancer, Inflammatory Disorders: A Review. In INTERNATIONAL JOURNAL OF LIFE SCIENCE AND PHARMA RESEARCH. ISSN 2250-0480, 2020, vol. 10, no. 5, p. P191-P206., Registrované v: WOS*

4. [1.2] PURWANINGSARI, D. - NUGRAHA, J. - WAHYUNINGSIH, S. P. A. - HAYAZA, S. - SUSILO, R. J. K. - DARMANTO, W. *Effect of polysaccharide krestin on MMP3 expression and foot diameter in rheumatoid arthritis in rat. In INDIAN VETERINARY JOURNAL. ISSN 00196479, 2020, vol. 97, no. 1, p. 24-26., Registrované v: SCOPUS*

ADCA35

BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVICHOVÁ, Ema - VOLPI, Nikola. Chondroitin sulfate effect on induced arthritis in rats. In Osteoarthritis and Cartilage, 2011, vol. 19, no. 11, p. 1373-1379. (2010: 3.953 - IF, Q1 - JCR, 1.852 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1063-4584. Dostupné na: <https://doi.org/10.1016/j.joca.2011.08.006> (VEGA č. 2/0045/11 : Štúdium kombinácie imunosupresívnej liečby a ovplyvnenia redoxnej rovnováhy organizmu na zvieracích modeloch reumatoidnej artritídy)

Citácie:

1. [1.1] MAHTAB, A. - RABBANI, S.A. - NEUPANE, Y.R. - PANDEY, S. - AHMAD, A. - KHAN, M.A. - GUPTA, N. - MADAAN, A. - JAGGI, M. - SANDAL, N. - RAWAT, H. - AQIL, M. - TALEGAONKAR, S. *Facile functionalization of Teriflunomide-loaded nanoliposomes with Chondroitin sulphate for the treatment of Rheumatoid arthritis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, art. no. 116926., Registrované v: WOS*

2. [1.1] SEOL, B.G. - KIM, J.H. - WOO, M. - SONG, Y.O. - CHOI, Y.H. - NOH, J.S. - CHO, E.J. *Skate cartilage extracts containing chondroitin sulfate ameliorates hyperlipidemia-induced inflammation and oxidative stress in high*

cholesterol diet-fed LDL receptor knockout mice in comparison with shark chondroitin sulfate. In NUTRITION RESEARCH AND PRACTICE. ISSN 1976-1457, 2020, vol. 14, no. 3, p. 175-187., Registrované v: WOS

3. [1.1] SONG, W. - LIU, Y.G. - DONG, X.H. - SONG, C. - BAI, Y.Y. - HU, P.P. - LI, L. - WANG, T.Y. *Lactobacillus M5 prevents osteoarthritis induced by a high-fat diet in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2020, vol. 72, art. no. 104039., Registrované v: WOS*

4. [1.1] WOO, M. - KWON, D.H. - CHOI, Y.H. - NOH, J.S. *Inhibitory effects of skate cartilage chondroitin sulfate-rich extract on the production of inflammatory mediators and ROS in lipopolysaccharide-treated murine macrophages: a comparison with shark cartilage chondroitin sulfate. In IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL. ISSN 1071-2690, 2020, vol. 56, no. 4, p. 271-276., Registrované v: WOS*

ADCA36 BELICKÁ, Ľudmila, Kľuková - BERTÓK, Tomáš - PETRÍKOVÁ, Miroslava - ŠEDIVÁ, Alena - MISLOVIČOVÁ, Danica - KATRLÍK, Jaroslav - VIKARTOVSKÁ, Alica - FILIP, Jaroslav - KASÁK, Peter - ANDICSOVÁ-ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - LUKÁČ, Jozef - ROVENSKÝ, Jozef - IMRICH, Richard - TKÁČ, Ján. Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three bioanalytical methods. In *Analytica Chimica Acta*, 2015, vol. 853, p. 555-562. (2014: 4.513 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2014.10.029>

Citácie:

1. [1.1] YAGHOUBI, M. - RAHIMI, F. - NEGAHDARI, B. - REZAYAN, A.H. - SHAFIEKHANI, A. *A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 29 2020, vol. 10, no. 1., Registrované v: WOS*

ADCA37 KĽUKOVÁ, Ľudmila, Kľuková - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In *Analyst. - Cambridge : Royal Society of Chemistry*, 2016, vol. 141, p. 4278-4282. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c6an00793g>

Citácie:

1. [1.1] KASAK, Peter. *Self-Assembled Monolayers for Surface Modification. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 217-255., Registrované v: WOS*

2. [1.1] SINGH, Manjot - ZANNELLA, Carla - FOLLIERO, Veronica - DI GIROLAMO, Rocco - BAJARDI, Francesco - CHIANESE, Annalisa - ALTUCCI, Lucia - DAMASCO, Achille - DEL SORBO, Maria Rosaria - IMPERATORE, Concetta - ROSSI, Manuela - VALADAN, Mohammadhassan - VARRA, Michela - VERGARA, Alessandro - FRANCI, Guanluigi - GALDIERO, Massimiliano - ALTUCCI, Carlo. *Combating Actions of Green 2D-Materials on Gram Positive and Negative Bacteria and Enveloped Viruses. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: https://doi.org/10.3389/fbioe.2020.569967., Registrované v: WOS*

3. [1.1] YANG, Haiying - QIN, Jianfang - ZHANG, Meng - SHEN, Huiyan - FENG, Jia - HAO, Haoyong. *Label-free Lectin Impedimetric Biosensor Based on a Polyaniline/Graphene Nanocomposite for the Detection of Escherichia coli. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-*

3981, 2020, vol. 15, no. 9, pp. 8913-8927. Dostupné na:

<https://doi.org/10.20964/2020.09.34.>, Registrované v: WOS

4. [1.1] YAZDI, Mohammad Kaji - GHAAZIZADEH, E. - NESHASTEHRIZ, Ali. Different liposome patterns to detection of acute leukemia based on electrochemical cell sensor. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1109, no., pp. 122-129. Dostupné na:

<https://doi.org/10.1016/j.aca.2020.02.060.>, Registrované v: WOS

ADCA38

BELICKÝ, Štefan - ČERNOCKÁ, Hana - BERTÓK, Tomáš - HOLAZOVÁ, Alena - RÉBLOVÁ, Kamila - PALEČEK, Emil - TKÁČ, Ján - OSTATNÁ, Veronika. Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. In *Bioelectrochemistry*, 2017, vol. 117, p. 89-94. (2016: 3.346 - IF, Q1 - JCR, 0.750 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2017.06.005>

Citácie:

1. [1.1] SALMINEN, Liina - NADEEM, Nimrah - ROLFSEN, Anne Lone - DORUM, Anne - LAAJALA, Teemu D. - GRENNAN, Seija - HIETANEN, Sakari - HEINOSALO, Taija - PERHEENTUPA, Antti - POUTANEN, Matti - BOLSTAD, Nils - CARPEN, Olli - LAMMINMAKI, Urpo - PETTERSSON, Kim - GIDWANI, Kamlesh - HYNINEN, Johanna - HUHTINEN, Kaisa. Exploratory Analysis of CA125-MGL and STn Glycoforms in the Differential Diagnostics of Pelvic Masses. In *JOURNAL OF APPLIED LABORATORY MEDICINE*, 2020, vol. 5, no. 2, pp. 263-272. Dostupné na: <https://doi.org/10.1093/jalm/jfz012.>, Registrované v: WOS

ADCA39

BELICKÝ, Štefan - DAMBORSKÝ, Pavel - ZAPATERO-RODRÍGUEZ, Julia - O'KENNEDY, Richard - TKÁČ, Ján. Full-length antibodies versus single chain antibody fragments for a selective impedimetric lectin-based glycoprofiling of prostate specific antigen. In *Electrochimica Acta*, 2017, vol. 246, p. 399-405. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2017.06.065>

Citácie:

1. [1.1] SANLI, Serdar - MOULAHOU, Hichem - UGURLU, Ozge - GHORBANIZAMANI, Faezeh - GUMUS, Zinar Pinar - EVRAN, Serap - COSKUNOL, Hakan - TIMUR, Suna. Screen printed electrode-based biosensor functionalized with magnetic cobalt/single-chain antibody fragments for cocaine biosensing in different matrices. In *TALANTA*. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121111.>, Registrované v: WOS

2. [1.1] SUGAWARA, Kazuharu - ISHIZAKI, Sora - KURAMITZ, Hideki - KADOYA, Toshihiko. Electrochemical Sensing of Ovalbumin Based on the Interaction between Lysozyme Origin/Tyrosine-Rich Peptides Modified on Magnetic Beads and Oligothreonine/Ovalbumin-Origin Peptide. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 2, pp. 207-216.

Dostupné na: <https://doi.org/10.1002/elan.201900336.>, Registrované v: WOS

ADCA40

BELLA, Maroš - KOŮŠ, Miroslav - LIN, Chu-Hung. Towards inhibitors of glycosyltransferases: A novel approach to synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. In *Beilstein Journal of Organic Chemistry*, 2015, vol. 11, p. 1547-1552. (2014: 2.757 - IF, Q2 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.11.170>

Citácie:

1. [1.1] JAKUBCINOVA, Jana - KOZMON, Stanislav - SESTAK, Sergej - BARATH, Marek. Novel 1-O-Sulfono-alpha-d-Fructofuranosyl Sulfones as Possible Inhibitors of Human GnT-I Enzyme. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 16, pp. 4967-4972. Dostupné na: <https://doi.org/10.1002/slct.202001098>, Registrované v: WOS
- ADCA41 BELLA, Maroš - MILATA, Viktor. Synthesis of 9-ethyl(1,2,5)selenadiazol(3,4-h)quinolones by the application of modified Gold-Jacobs reaction to N-ethyl-2,1,3-benzoselenadiazol-4amine. In Arkivoc, v, 14, vol. 2014, p. 181-198. ISSN 1551-7004. Dostupné na: <https://doi.org/10.3998/ark.5550190.p008.451>
Citácie:
1. [1.1] MALCEK, Michal - KOZISKOVA, Julia - HERICH, Peter - RAPTA, Peter - STEPANENKO, Iryna - ARION, Vladimir B. Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 30, pp. 13195-13206. Dostupné na: <https://doi.org/10.1039/d0nj02447c>, Registrované v: WOS
- ADCA42 BELLA, Maroš - YAN, Shi - ŠESTÁK, Sergej - KOZMON, Stanislav - LIN, Chun-Hung - MUCHA, Ján - KOŇŠ, Miroslav. Synthesis of a β -D-psicofuranosyl sulfone and inhibitory-activity evaluation against N-acetylglucosaminyltransferase. In European Journal of Organic Chemistry, 2017, vol. 2017, no. 41, p. 6179-6191. (2016: 2.834 - IF, Q2 - JCR, 1.177 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1434-193X. Dostupné na: <https://doi.org/10.1002/ejoc.201701102>
Citácie:
1. [1.1] BALCZEWSKI, Piotr - SKALIK, Joanna. Quinquevalent phosphorus acids. In ORGANOPHOSPHORUS CHEMISTRY, VOL 48. ISSN 0306-0713, 2019, vol. 48, no., pp. 234-379. Dostupné na: <https://doi.org/10.1039/9781788016988-00234>, Registrované v: WOS
2. [1.2] BALCZEWSKI, Piotr - WILK, Joanna. Quinquevalent phosphorus acids. In Organophosphorus Chemistry. ISSN 03060713, 2020-01-01, 49, pp. 198-331., Registrované v: SCOPUS
- ADCA43 BENCÚR, Peter - STENKELLNER, Herta - SVOBODA, Barbara - MUCHA, Ján - STRASSER, Richard - KOLARICH, Daniel - HANN, Stephan - KOLLENSPERGER, Gunda - GLOSSL, Josef - ALTMANN, Friedrich - MACH, L. Arabidopsis thaliana beta 1,2-xylosyltransferase: an unusual glycosyltransferase with the potential to act multiple stages of the plant N-glycosylation pathway. In Biochemical Journal, 2005, vol.388, p.515-525. ISSN 0264-6021.
Citácie:
1. [1.1] LARSEN, Joachim Steen - KARLSSON, Richard Torbjorn Gustav - TIAN, Weihua - SCHULZ, Morten Alder - MATTHES, Annemarie - CLAUSEN, Henrik - PETERSEN, Bent Larsen - YANG, Zhang. Engineering mammalian cells to produce plant-specific N-glycosylation on proteins. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 528-538. Dostupné na: <https://doi.org/10.1093/glycob/cwaa009>, Registrované v: WOS
2. [1.1] LUCAS, Pierre-Louis - MATHIEU-RIVET, Elodie - SONG, Philippe C. T. - OLTMANNS, Anne - LOUTELIER-BOURHIS, Corinne - PLASSON, Carole - AFONSO, Carlos - HIPPLER, Michael - LEROUGE, Patrice - MATI-BAOUCHE, Narimane - BARDOR, Muriel. Multiple xylosyltransferases heterogeneously xylosylate protein N-linked glycans in Chlamydomonas reinhardtii. In PLANT JOURNAL. ISSN 0960-7412, 2020, vol. 102, no. 2, pp. 230-245. Dostupné na: <https://doi.org/10.1111/tpj.14620>, Registrované v: WOS
3. [1.1] MIKOLAJCZYK, Krzysztof - KACZMAREK, Radoslaw - CZERWINSKI,

Marcin. How glycosylation affects glycosylation: the role of N-glycans in glycosyltransferase activity. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 12, pp. 941-969. Dostupné na: <https://doi.org/10.1093/glycob/cwaa041>., Registrované v: WOS

- ADCA44 BENNET, Neil A. - RYAN, James - BIELY, Peter - VRŠANSKÁ, Mária - KREMnický, Ľubomir - MACRIS, Basil J. - KEKOS, Dimitris - CHRISTAKOPOULOS, Paul - KATAPODIS, Petros - CLAEYSSSENS, Marc - NERINCKX, Wim - NTAUMA, Patricia - BHAT, Mahalingeshwara K. Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of *Thermomyces lanuginosus* ATCC46882. In Carbohydrate Research, 1998, vol.306, p. 445-455. (1997: 1.417 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(97\)10076-3](https://doi.org/10.1016/S0008-6215(97)10076-3)

Citácie:

1. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105639>., Registrované v: WOS

- ADCA45 BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - PINKOVÁ GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján**. Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. In Biosensors and Bioelectronics, 2019, vol. 131, p. 24-29. (2018: 9.518 - IF, Q1 - JCR, 2.553 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2019.01.052>

Citácie:

1. [1.1] HETEMI, D. - NOEL, V. - PINSON, J. Grafting of Diazonium Salts on Surfaces: Application to Biosensors. In BIOSENSORS-BASEL. JAN 2020, vol. 10, no. 1., Registrované v: WOS

2. [1.1] REDDY, K.K. - BANDAL, H. - SATYANARAYANA, M. - GOUD, K.Y. - GOBI, K.V. - JAYARAMUDU, T. - AMALRAJ, J. - KIM, H. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In ADVANCED SCIENCE. JUL 2020, vol. 7, no. 13., Registrované v: WOS

3. [1.1] SONG, Z. - LI, Y. - TENG, H. - DING, C.F. - XU, G.Y. - LUO, X.L. Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. In SENSORS AND ACTUATORS B-CHEMICAL. FEB 15 2020, vol. 305., Registrované v: WOS

- ADCA46 BERTÓK, Tomáš - ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNÉ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In Langmuir. - Washington : American Chemical Society, 2015, vol. 31, p. 7148-7157. (2014: 4.457 - IF, Q1 - JCR, 1.810 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.5b00944>

Citácie:

1. [1.1] GAO, Y. - LI, S.G. - LIU, Q. - LIU, S.S. - YE, L. - SONG, Z.J. - DU, W.D. Establishment of a 1, 4, 7, 10-tetraazacyclododecane-1,4,7,10-tetraacetic acid mono-N-hydroxysuccinimide ester (DOTA-NHS-ester) based lectin microarray for efficiently detecting serum glycans in gastric cancers. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, MAY 15 2020, vol. 597., Registrované v: WOS

2. [1.1] LORENCOVA, L. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE. 2020, p. 109-167., Registrované v: WOS

ADCA47

BERTÓK, Tomáš - KLUKOVA, Ludmila - ŠEDIVÁ, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In Analytical Chemistry, 2013, vol. 85, p. 7324 - 7332. (2012: 5.695 - IF, Q1 - JCR, 2.672 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac401281t>

Citácie:

1. [1.1] DI IORIO, D. - HUSKENS, J. Surface Modification with Control over Ligand Density for the Study of Multivalent Biological Systems. In CHEMISTRYOPEN. ISSN 2191-1363, JAN 2020, vol. 9, no. 1, p. 53-66., Registrované v: WOS

2. [1.1] DING, S.C. - ZHANG, N. - LYU, Z.Y. - ZHU, W.L. - CHANG, Y.C. - HU, X.L. - DU, D. - LIN, Y.H. Protein-based nanomaterials and nanosystems for biomedical applications: A review. In MATERIALS TODAY. ISSN 1369-7021, MAR 2020, vol. 43, p. 166-184., Registrované v: WOS

3. [1.1] LIN, P.H. - LI, B.R. Antifouling strategies in advanced electrochemical sensors and biosensors. In ANALYST. ISSN 0003-2654, FEB 21 2020, vol. 145, no. 4, p. 1110-1120., Registrované v: WOS

4. [1.1] LORENCOVA, L. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE. 2020, p. 109-167., Registrované v: WOS

5. [1.1] ZHANG, R. - WANG, S. - HUANG, X.M. - YANG, Y.H. - FAN, H.T. - YANG, F. - LI, J. - DONG, X.S. - FENG, S.B. - ANBU, P. - GOPINATH, S.C.B. - XIN, T. Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, JAN 15 2020, vol. 1094, p. 142-150., Registrované v: WOS

ADCA48

BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - BELICKÝ, Štefan - ŠEDIVÁ, Alena - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica - PLICKA, Robert - KREJČÍ, Jan - ILČÍKOVÁ, Markéta - KASÁK, Peter - TKÁČ, Ján. Mixed zwitterion-based self-assembled monolayer interface for impedimetric glycomic analyses of human IgG samples in an array format. In Langmuir, 2016, vol. 32, p. 7070-7078. (2015: 3.993 - IF, Q1 - JCR, 1.650 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.6b01456>

Citácie:

1. [1.1] WANG, Shuai - OU, Xinwen - WUTTHINITIKORNKIT, Yanee - YI, Ming - LI, Jingyuan. Effects of the surface polarity of nanomaterials on their interaction

with complement protein gC1q. In RSC ADVANCES, 2020, vol. 10, no. 69, pp. 41993-42000. Dostupné na: <https://doi.org/10.1039/d0ra05493c>, Registrované v: WOS

ADCA49 BERTÓK, Tomáš** - LORENCOVÁ, Lenka - CHOCHOLOVÁ, Erika - JÁNÉ, Eduard - VIKARTOVSKÁ, Alica - KASÁK, Peter - TKÁČ, Ján**. Electrochemical impedance spectroscopy based biosensors: Mechanistic principles, analytical examples and challenges towards commercialization for assays of protein cancer biomarkers. In ChemElectroChem, 2019, vol. 6, p. 989-1003. (2018: 3.975 - IF, Q2 - JCR, 1.245 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celec.201800848>

Citácie:

1. [1.1] CIUCCI, Francesco. The Gaussian Process Hilbert Transform (GP-HT): Testing the Consistency of Electrochemical Impedance Spectroscopy Data. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 12, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/aba937>, Registrované v: WOS
2. [1.1] DHANAPALA, Lasangi - KRAUSE, Colleen E. - JONES, Abby L. - RUSLING, James E. Printed Electrodes in Microfluidic Arrays for Cancer Biomarker Protein Detection. In BIOSENSORS-BASEL, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/bios10090115>, Registrované v: WOS
3. [1.1] DOWNS, Alex M. - GERSON, Julian - PLOENSE, Kyle L. - PLAXCO, Kevin W. - DAUPHIN-DUCHARME, Philippe. Subsecond-Resolved Molecular Measurements Using Electrochemical Phase Interrogation of Aptamer-Based Sensors. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 14063-14068. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c03109>, Registrované v: WOS
4. [1.1] ECHEVERRI, Danilo - GARG, Monika - SILVA, Daniel Varon - OROZCO, Jahir. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. In TALANTA. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121117>, Registrované v: WOS
5. [1.1] GARCIA, Luane Ferreira - BATISTA RODRIGUES, Edson Silvio - LINO DE SOUZA, Guilherme Rocha - WASTOWSKI, Isabela Jube - DE OLIVEIRA, Fernando Mota - PIO DOS SANTOS, Wallans Torres - GIL, Eric de Souza. Impedimetric Biosensor for Bovine Herpesvirus Type 1-antigen Detection. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 1100-1106. Dostupné na: <https://doi.org/10.1002/elan.201900606>, Registrované v: WOS
6. [1.1] KHAN, Ibrahim - KHAN, Abdul Zeeshan - SUFYAN, Ali - KHAN, Mohd Yusuf - BASHA, Shaik Inayath - KHAN, Abuzar. Ultrasonically controlled growth of monodispersed octahedral BiVO₄ microcrystals for improved photoelectrochemical water oxidation. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2020, vol. 68, no., pp. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2020.105233>, Registrované v: WOS
7. [1.1] KULIKOVA, Tatiana - GORBATCHUK, Vladimir - STOIKOV, Ivan - ROGOV, Alexey - EVTUGYN, Gennady - HLANIK, Tibor. Impedimetric Determination of Kanamycin in Milk with Aptasensor Based on Carbon Black-Oligolactide Composite. In SENSORS, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174738>, Registrované v: WOS
8. [1.1] LENYK, Bohdan - FIGUEROA-MIRANDA, Gabriela - PAVLUSHKO, Ivan - LO, Young - TANNER, Julian A. - OFFENHAEUSSER, Andreas - MAYER, Dirk. Dual-Transducer Malaria Aptasensor Combining Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays.

- In CHEMELECTROCHEM. ISSN 2196-0216, 2020, vol. 7, no. 22, pp. 4594-4600. Dostupné na: <https://doi.org/10.1002/celc.202001212>., Registrované v: WOS*
9. [1.1] PAULIUKAITE, Rasa - VOITECHOVIC, Edita. Multisensor Systems and Arrays for Medical Applications Employing Naturally-Occurring Compounds and Materials. In *SENSORS*, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123551>., Registrované v: WOS
10. [1.1] RADI, Abd-Elgawad - EISSA, Alsayed - WAHDAN, Tarek. Molecularly Imprinted Impedimetric Sensor for Determination of Mycotoxin Zearalenone. In *ELECTROANALYSIS. ISSN 1040-0397*, 2020, vol. 32, no. 8, pp. 1788-1794. Dostupné na: <https://doi.org/10.1002/elan.201900528>., Registrované v: WOS
11. [1.1] REDDY, K. Koteswara - BANDAL, Harshad - SATYANARAYANA, Moru - GOUD, Kotagiri Yugender - GOBI, Kauveri Vengatajalabathy - JAYARAMUDU, Tippabattini - AMALRAJ, John - KIM, Hern. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In *ADVANCED SCIENCE*, 2020, vol. 7, no. 13, pp. Dostupné na: <https://doi.org/10.1002/advs.201902980>., Registrované v: WOS
12. [1.1] SALVADOR, J.Pablo - KOPPER, Klaudia - MITI, Andrea - SANCHIS, Ana - MARCO, M.Pilar. Multiplexed Immunosensor Based on the Amperometric Transduction for Monitoring of Marine Pollutants in Sea Water. In *SENSORS*, 2020, vol. 20, no. 19, pp. Dostupné na: <https://doi.org/10.3390/s20195532>., Registrované v: WOS
13. [1.1] SERAFIN, V - GAMELLA, M. - PEDRERO, M. - MONTERO-CALLE, A. - RAZZINO, C. A. - YANEZ-SEDENO, P. - BARDERAS, R. - CAMPUZANO, S. - PINGARRON, J. M. Enlightening the advancements in electrochemical bioanalysis for the diagnosis of Alzheimer's disease and other neurodegenerative disorders. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085*, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2020.113437>., Registrované v: WOS
14. [1.1] SUBRAMANI, Indra Gandi - PERUMAL, Veeradasan - GOPINATH, Subash C. B. - MOHAMED, Norani Muti - JOSHI, Nirav - OVINIS, Mark - LI SZE, Lim. 3D nanoporous hybrid nanoflower for enhanced non-faradaic redox-free electrochemical impedimetric biodetermination. In *JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS. ISSN 1876-1070*, 2020, vol. 116, no., pp. 26-35. Dostupné na: <https://doi.org/10.1016/j.jtice.2020.11.006>., Registrované v: WOS
15. [1.1] TASIC, Nikola - MARTINS, Alisson Bezerra - YIFEI, Xue - GOES, Marcio Sousa - MARTIN-YERGA, Daniel - MAO, Lanqun - PAIXAO, Thiago R. L. C. - GONCALVES, Luis Moreira. Insights into electrochemical behavior in laser-scribed electrochemical paper-based analytical devices. In *ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481*, 2020, vol. 121, no., pp. Dostupné na: <https://doi.org/10.1016/j.elecom.2020.106872>., Registrované v: WOS
16. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In *BIOANALYSIS. ISSN 1757-6180*, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na: <https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS
17. [1.1] VU, Thanh T. - SONG, Sojin - LAI, Hien D. N. - NGOC LAN MAI - TRINH, Thuat T. - DO, Ha T. - DAI PHU-HUYNH - NGUYEN, Anh H. Coverage degrees of colloids on electrochemical electrodes and signal amplification for anti-citrullinated peptide antibody detection. In *SENSING AND BIO-SENSING RESEARCH*, 2020, vol. 27, no., pp. Dostupné na: <https://doi.org/10.1016/j.sbsr.2020.100322>., Registrované v: WOS

18. [1.1] XU, Jian - LEE, Hyowon. *Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors*. In CHEMOSENSORS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>., Registrované v: WOS
 19. [1.1] XU, Lizhou - SHOAIE, Nahid - JAHANPEYMA, Fatemeh - ZHAO, Junjie - AZIMZADEH, Mostafa - AL-JAMAL, Khuloud T. *Optical, electrochemical and electrical (nano)biosensors for detection of exosomes: A comprehensive overview*. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112222>., Registrované v: WOS
- ADCA50 BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Comparison of the 2D and 3D nanostructured lectin-based biosensors for In situ detection of sialic acid on glycoproteins. In International Journal of Electrochemical Science, 2014, vol. 9, p. 890-900. (2013: 1.956 - IF, Q3 - JCR, 0.522 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1452-3981.
- Citácie:
1. [1.1] GHOSH, Shyamasree. *Nanotechnology and sialic acid biology*. In SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE, 2020, vol., no., pp. 297-325. Dostupné na: <https://doi.org/10.1016/B978-0-12-816126-5.00011-1>., Registrované v: WOS
 2. [1.1] KASAK, Peter. *Self-Assembled Monolayers for Surface Modification*. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 217-255., Registrované v: WOS
 3. [1.1] LORENCOVA, Lenka. *Functional Nanomaterials in Sensing and Biosensing Applications*. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS
- ADCA51 BERTÓK, Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Ján. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In Microchimica Acta, 2013, vol. 180, p. 151-159. (2012: 3.434 - IF, Q1 - JCR, 1.103 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-012-0902-6>
- Citácie:
1. [1.1] LORENCOVA, Lenka. *Functional Nanomaterials in Sensing and Biosensing Applications*. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS
 2. [1.1] TAVAKOLI, Javad - WANG, Jing - CHUAH, Clarence - TANG, Youhong. *Natural-based Hydrogels: A Journey from Simple to Smart Networks for Medical Examination*. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2020, vol. 27, no. 16, pp. 2704-2733. Dostupné na: <https://doi.org/10.2174/0929867326666190816125144>., Registrované v: WOS
 3. [1.1] VARGIS, Vidhu Sara - VASU, Suneesh Punathil - SREE, R. Jyothi - NAIR, Bipin - GOPALAKRISHNAN, Satheesh Babu Thekkedath. *Peroxidase Labeled Antibody Conjugated Gold Nanoparticles for Ultrasensitive Voltammetric Immunosensing*. In IEEE SENSORS JOURNAL. ISSN 1530-437X, 2020, vol. 20, no. 3, pp. 1142-1149. Dostupné na: <https://doi.org/10.1109/JSEN.2019.2946311>., Registrované v: WOS
- ADCA52 BERTÓK, Tomáš - SEDIVA, A. - KATRLÍK, Jaroslav - GEMEINER, Peter - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of

glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (2012: 3.498 - IF, Q1 - JCR, 1.417 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2013.02.052>

Citácie:

1. [1.1] CORDINA, Nicole M. - ZHANG, Wei - PACKER, Nicolle H. - WANG, Yuling. *Rapid and sensitive glycan targeting by lectin-SERS assay*. In *MOLECULAR OMICS*, 2020, vol. 16, no. 4, pp. 339-344., Registrované v: WOS
2. [1.1] GHOSH, Shyamasree. *Nanotechnology and sialic acid biology*. In *SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE*, 2020, vol., no., pp. 297-325., Registrované v: WOS
3. [1.1] LORENCOVA, Lenka. *Functional Nanomaterials in Sensing and Biosensing Applications*. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 109-167., Registrované v: WOS

ADCA53

BEZÁKOVÁ, Zuzana - HERMANNOVÁ, Martina - DŘÍMALOVÁ, Eugenie - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna - VELEBNÝ, Vladimír. Effect of microwave irradiation on the molecular and structural properties of hyaluronan. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 73, p. 640-646. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.01.018>

Citácie:

1. [1.1] AIDA, Taku Michael - OSHIMA, Minori - SHARMIN, Tanjina - MISHIMA, Kenji - SMITH, Richard L. *Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates*. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104638>., Registrované v: WOS
2. [1.1] HUANG, Hao - LIANG, Qixing - WANG, Yang - CHEN, Jian - KANG, Zhen. *High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant Pichia pastoris*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 4, pp. 1621-1632. Dostupné na: <https://doi.org/10.1007/s00253-019-10282-7>., Registrované v: WOS
3. [1.1] LUPO, Cristina - BOULOS, Samy - NYSTROEM, Laura. *Influence of Partial Acid Hydrolysis on Size, Dispersity, Monosaccharide Composition, and Conformation of Linearly-Branched Water-Soluble Polysaccharides*. In *MOLECULES*, 2020, vol. 25, no. 13, pp. Dostupné na: <https://doi.org/10.3390/molecules25132982>., Registrované v: WOS

ADCA54

BIELY, Peter - CZISZÁROVÁ, Mária - UHLIARIKOVÁ, Iveta - AGGER, Jane W. - LI, Xin-Liang - EIJSINK, Vincent G.H. - WESTERENG, Bjarne. Mode of action of acetylxylin esterases on acetyl glucuronoxylan and acetylated oligosaccharides generated by a GH10 endoxylanase. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 5075-5086. (2012: 3.848 - IF, Q1 - JCR, 2.121 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2013.07.018>

Citácie:

1. [1.1] ARNAUD, B. - DURAND, S. - FANUEL, M. - GUILLON, F. - MECHIN, V. - ROGNIAUX, H. *Imaging Study by Mass Spectrometry of the Spatial Variation of Cellulose and Hemicellulose Structures in Corn Stalks*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no.

13, pp. 4042-4050. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b07579>.,

Registrované v: WOS

2. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na:

<https://doi.org/10.3390/ijms21217875>., Registrované v: WOS

3. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na:

<https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS

ADCA55

BIELY, Peter - KRÁTKY, Zdeno - VRŠANSKÁ, Mária. Substrate binding site of endo-1,4-beta-xylanase of the yeast *Cryptococcus albidus*. In *European Journal of Biochemistry*, 1981, vol. 119, p. 559-564. ISSN 0014-2956.

Citácie:

1. [1.1] ARNOLD, Nathanael D. - BRUCK, Wolfram M. - GARBE, Daniel - BRUECK, Thomas B. Enzymatic Modification of Native Chitin and Conversion to Specialty Chemical Products. In *MARINE DRUGS*, 2020, vol. 18, no. 2, pp. Dostupné na: <https://doi.org/10.3390/md18020093>., Registrované v: WOS

2. [1.1] CHEN, Wei - JIANG, Xi - YANG, Qing. Glycoside hydrolase family 18 chitinases: The known and the unknown. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na:

<https://doi.org/10.1016/j.biotechadv.2020.107553>., Registrované v: WOS

3. [1.1] MANDELLI, Fernanda - DE MORAIS, Mariana Abrahao Bueno - DE LIMA, Evandro Antonio - OLIVEIRA, Leane - PERSINOTI, Gabriela Felix - MURAKAMI, Mario Tyago. Spatially remote motifs cooperatively affect substrate preference of a ruminal GH26-type endo-1,4-mannanase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2020, vol. 295, no. 15, pp. 5012-5021. Dostupné na: <https://doi.org/10.1074/jbc.RA120.012583>., Registrované v: WOS

4. [1.1] ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>., Registrované v: WOS

ADCA56

BIELY, Peter - KRÁTKY, Zdeno - KOVAŘÍK, J. - BAUER, Štefan. Effect of 2-deoxyglucose on cell wall formation in *Saccharomyces cerevisiae* and its relation to cell growth inhibition. In *Journal of Bacteriology*, 1971, vol. 107, p. 121-129. ISSN 0021-9193.

Citácie:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

ADCA57

BIELY, Peter - MARKOVIČ, Oskar - MISLOVIČOVÁ, Danica. Sensitive detection of endo-1,4-β-glucanases and endo-1,4-β-xylanases in gels. In *Analytical Biochemistry*, 1985, vol. 144, p. 147-151. ISSN 0003-2697. Dostupné na: [https://doi.org/10.1016/0003-2697\(85\)90096-X](https://doi.org/10.1016/0003-2697(85)90096-X)

Citácie:

1. [1.1] CHEN, Si - FENG, Hao - LI, Xin - CHAO, Hong-jun - WU, Jing - LIU,

- Jun - ZHU, Wen-jun - YAN, Da-zhong. *The Complete Genome Sequence of a Bacterial Strain with High Alkalic Xylanase Activity Isolated from the Sludge Near a Papermill*. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2020, vol. 77, no. 12, pp. 3945-3952. Dostupné na: <https://doi.org/10.1007/s00284-020-02227-5>., Registrované v: WOS
2. [1.1] MAMO, Gashaw. *Alkaline Active Hemicellulases*. In *ALKALIPHILES IN BIOTECHNOLOGY*. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101., Registrované v: WOS
- ADCA58 BIELY, Peter - PUCHART, Vladimír - STRINGER, Marry Ann - MORKEBERG KROGH, Kristian B.R. *Trichoderma reesei XYN VI - a novel appendage-dependent eukaryotic glucuronoxylan hydrolase*. In *FEBS Journal*, 2014, vol. 281, p. 3894-3903. (2013: 3.986 - IF, Q2 - JCR, 2.121 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.12925>
- Citácie:
1. [1.1] IKE, Masakazu - TOKUYASU, Ken. *Control of pH by CO₂ Pressurization for Enzymatic Saccharification of Ca(OH)(₂)-Pretreated Rice Straw in the Presence of CaCO₃*. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2020, vol. 67, no. 2, pp. 59-62. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0019., Registrované v: WOS
2. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. *Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
3. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. *Crystal structure of GH30-7 endoxylanase C from the filamentous fungus Talaromyces cellulolyticus*. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2020, vol. 76, no., pp. 341-349. Dostupné na: <https://doi.org/10.1107/S2053230X20009024>., Registrované v: WOS
4. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. *Substrate recognition by a bifunctional GH30-7 xylanase B from Talaromyces cellulolyticus*. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS
5. [1.1] PIRAYRE, Aurelie - DUVAL, Laurent - BLUGEON, Corinne - FIRMO, Cyril - PERRIN, Sandrine - JOURDIER, Etienne - MARGEOT, Antoine - BIDARD, Frederique. *Glucose-lactose mixture feeds in industry-like conditions: a gene regulatory network analysis on the hyperproducing Trichoderma reesei strain Rut-C30*. In *BMC GENOMICS*. ISSN 1471-2164, 2020, vol. 21, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12864-020-07281-8>., Registrované v: WOS
- ADCA59 BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. *Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl flycosides of beta-D-xylopyranose and alfa-L-arabinofuranose*. In *Journal of Biotechnology*, 2011, vol. 151, p. 137-142. (2010: 2.970 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2010.10.074>
- Citácie:
1. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-

- MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS*
- ADCA60 BIELY, Peter - MALOVÍKOVÁ, Anna - UHLIARIKOVÁ, Iveta - LI, Xin-Liang - WONG, Dominic W.S. Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan. In FEBS Letters, 2015, vol. 589, p. 2334-2339. (2014: 3.169 - IF, Q2 - JCR, 1.859 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2015.07.019>
- Citácie:
1. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - CAPEK, Peter - MATULOVA, Maria - WILK, Kazimiera A. New isolation process for bioactive food fiber from wild strawberry leaf. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107639>., Registrované v: WOS
- ADCA61 BIELY, Peter - MASTIHUBOVÁ, Mária - CÔTÉ, G.L. - GREEN, R.W. Mode of action of acetylxytan esterase from Streptomyces lividans: a study with deoxy and deoxyfluoro analogues of acetylated beta-D-xylopyranoside. In Biochimica et Biophysica Acta, 2003, vol. 1622, p. 82-88. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/S0304-4165\(03\)00130-2](https://doi.org/10.1016/S0304-4165(03)00130-2)
- Citácie:
1. [1.1] DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. Expression of Cell Wall-Modifying Enzymes in Aspen for Improved Lignocellulose Processing. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 145-164. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_9., Registrované v: WOS
- ADCA62 BIELY, Peter. Microbial glucuronoyl esterases: 10 years after discovery. In Applied and Environmental Microbiology, 2016, vol. 32, p. 7014-7018. (2015: 3.823 - IF, Q1 - JCR, 1.877 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.02396-16>
- Citácie:
1. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
2. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOL, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c>., Registrované v: WOS
- ADCA63 BIELY, Peter. Microbial carbohydrate esterases deacetylating plant polysaccharides. In Biotechnology Advances, 2012, vol. 30, p. 1575-1588. (2011: 9.646 - IF, Q1 - JCR, 3.118 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2012.04.010>
- Citácie:

1. [1.1] CHEN, Sye Jinn - LAM, Ming Quan - THEVARAJOO, Suganthi - ABD MANAN, Fazilah - YAHYA, Adibah - CHONG, Chun Shiong. Genome analysis of cellulose and hemicellulose degrading *Micromonospora* sp. CP22. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.1007/s13205-020-2148-z>., Registrované v: WOS
2. [1.1] DAHLHAUSEN, Katherine E. - JOSPIN, Guillaume - COIL, David A. - EISEN, Jonathan A. - WILKINS, Laetitia G. E. Isolation and sequence-based characterization of a koala symbiont: *Lonepinella koalarum*. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.7717/peerj.10177>., Registrované v: WOS
3. [1.1] EKSTRAND, E.M. - HEDENSTROM, M. - SVENSSON, B. H. - YEKTA, S. Shakeri - BJORN, A. Methane potentials and organic matter characterization of wood fibres from pulp and paper mills: The influence of raw material, pulping process and bleaching technique. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 143, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105824>., Registrované v: WOS
4. [1.1] EZAHRA TABAGHT, Fatima - EL IDRISSE, Abderrahmane - AQIL, Mohamed - BENAHEMAD, Abdessamad - EL BARKANY, Soufian - BELLAOUCHI, Reda - ASEHRAOU, Abdeslam. SYNTHESIS AND CHARACTERIZATION OF (THIO)CARBAMATES BASED ON CELLULOSE AND CELLULOSE ACETATE: BIODEGRADATION AND SOLUBILITY STUDIES. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2020, vol. 54, no. 3-4, pp. 207-223. Dostupné na: <https://doi.org/10.35812/CelluloseChemTechnol.2020.54.23>., Registrované v: WOS
5. [1.1] GONG, Ga - ZHOU, Saisai - LUO, Runbo - GESANG, Zhuoma - SUOLANG, Sizhu. Metagenomic insights into the diversity of carbohydrate-degrading enzymes in the yak fecal microbial community. In BMC MICROBIOLOGY. ISSN 1471-2180, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12866-020-01993-3>., Registrované v: WOS
6. [1.1] HUANG, Xiyang - ZHANG, Runji - QIU, Yijie - WU, Haibing - XIANG, Quanju - YU, Xiumei - ZHAO, Ke - ZHANG, Xiaoping - CHEN, Qiang - PENTTINEN, Petri - GU, Yunfu. RNA-seq Profiling Showed Divergent Carbohydrate-Active Enzymes (CAZymes) Expression Patterns in *Lentinula edodes* at Brown Film Formation Stage Under Blue Light Induction. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01044>., Registrované v: WOS
7. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from *Lactobacillus antri* and *Bacillus halodurans*. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>., Registrované v: WOS
8. [1.1] LEPPANEN, Ilona - VIKMAN, Minna - HARLIN, Ali - ORELMA, Hannes. Enzymatic Degradation and Pilot-Scale Composting of Cellulose-Based Films with Different Chemical Structures. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2020, vol. 28, no. 2, pp. 458-470. Dostupné na: <https://doi.org/10.1007/s10924-019-01621-w>., Registrované v: WOS
9. [1.1] LI, Yuanqiu - LEI, Lu - ZHENG, Li - XIAO, Ximeng - TANG, Hao - LUO, Chaobing. Genome sequencing of gut symbiotic *Bacillus velezensis* LC1 for bioethanol production from bamboo shoots. In BIOTECHNOLOGY FOR

- BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-1671-9>., Registrované v: WOS
10. [1.1] LUNIN, Vladimir V. - WANG, Hsin-Tzu - BHARADWAJ, Vivek S. - ALAHUHTA, Markus - PENA, Maria J. - YANG, Jeong-Yeh - ARCHER-HARTMANN, Stephanie A. - AZADI, Parastoo - HIMMEL, Michael E. - MOREMEN, Kelley W. - YORK, William S. - BOMBLE, Yannick J. - URBANOWICZ, Breeanna R. Molecular Mechanism of Polysaccharide Acetylation by the Arabidopsis Xylan O-acetyltransferase XOAT1. In *PLANT CELL*. ISSN 1040-4651, 2020, vol. 32, no. 7, pp. 2367-2382. Dostupné na: <https://doi.org/10.1105/tpc.20.00028>., Registrované v: WOS
11. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>., Registrované v: WOS
12. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOLO, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c>., Registrované v: WOS
13. [1.1] MUNK, Line - MUSCHIOLO, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
14. [1.1] MUNOZ-BARRIOS, Antonio - SOPENA-TORRES, Sara - RAMOS, Brisa - LOPEZ, Gemma - DEL HIERRO, Irene - DIAZ-GONZALEZ, Sandra - GONZALEZ-MELENDI, Pablo - MELIDA, Hugo - FERNANDEZ-CALLEJA, Vanessa - MIXAO, Veronica - MARTIN-DACAL, Marina - MARCET-HOUBEN, Marina - GABALDON, Toni - SACRISTAN, Soledad - MOLINA, Antonio. Differential Expression of Fungal Genes Determines the Lifestyle of *Plectosphaerella* Strains During Arabidopsis thaliana Colonization. In *MOLECULAR PLANT-MICROBE INTERACTIONS*. ISSN 0894-0282, 2020, vol. 33, no. 11, pp. 1299-1314. Dostupné na: <https://doi.org/10.1094/MPMI-03-20-0057-R>., Registrované v: WOS
15. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
16. [1.1] SONG, Tingting - SHEN, Yingyue - JIN, Qunli - FENG, Weilin - FAN, Lijun - CAI, Weiming. Comparative phosphoproteome analysis to identify candidate phosphoproteins involved in blue light-induced brown film formation in

- Lentinula edodes*. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.7717/peerj.9859>., Registrované v: WOS
17. [1.1] TABAGHT, Fatima Ezahra - EL IDRISSI, Abderrahmane - BELLAOUCHI, Reda - ASEHRAOU, Abdeslam - AQIL, Mohamed - EL BARKANY, Soufian - BENARBIA, Abderrahim - ACHALHI, Nafea - TAHANI, Abdesslam. Cellulose grafted aliphatic polyesters: Synthesis, characterization and biodegradation under controlled conditions in a laboratory test system. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1205, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2019.127582>., Registrované v: WOS
18. [1.1] WANG, Mengmeng - MIAO, Jiayi - WANG, Xuanqing - LI, Tuo - ZHU, Han - LIU, Dongyang - SHEN, Qirong. Genomic and Transcriptome Analyses of a Thermophilic Bacterium *Geobacillus stearothermophilus* B5 Isolated from Compost Reveal Its Enzymatic Basis for Lignocellulose Degradation. In MICROORGANISMS, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8091357>., Registrované v: WOS
19. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
20. [1.1] WU, Liang - DAVIES, Gideon J. An Overview of the Structure, Mechanism and Specificity of Human Heparanase. In HEPARANASE: FROM BASIC RESEARCH TO CLINICAL APPLICATIONS. ISSN 0065-2598, 2020, vol. 1221, no., pp. 139-167. Dostupné na: https://doi.org/10.1007/978-3-030-34521-1_5., Registrované v: WOS
21. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZymes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS
22. [1.1] ZHOU, Saisai - LUO, Runbo - GONG, Ga - WANG, Yifei - GESANG, Zhuoma - WANG, Kai - XU, Zhuofei - SUOLANG, Sizhu. Characterization of Metagenome-Assembled Genomes and Carbohydrate-Degrading Genes in the Gut Microbiota of Tibetan Pig. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.595066>., Registrované v: WOS

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BIELY, Peter - VRŠANSKÁ, Mária - TENKANEN, M. - KLUEPFEL, Dieter. Endo-beta-1,4-xylanase families: differences in catalytic properties. In Journal of Biotechnology, 1997, vol. 57, p. 151-166. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(97\)00096-5](https://doi.org/10.1016/S0168-1656(97)00096-5)

Citácie:

1. [1.1] DING, Sai-sai - ZHU, Jin-peng - WANG, Yang - WU, Bin - ZHAO, Zongpei. Immobilization of the extracellular recombinant Lucky9 xylanase from *Bacillus subtilis* enhances activity at high temperature and pH. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 12, pp. 2733-2739. Dostupné na: <https://doi.org/10.1002/2211-5463.13010>., Registrované v: WOS
2. [1.1] ENJALBERT, Thomas - DE LA MARE, Marion - ROBLIN, Pierre - BADRUNA, Louise - VERNET, Thierry - DUMON, Claire - MONTANIER, Cedric Y. Characterisation of the Effect of the Spatial Organisation of Hemicellulases on

- the Hydrolysis of Plant Biomass Polymer. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 12, pp. Dostupné na: <https://doi.org/10.3390/ijms21124360>., Registrované v: WOS
3. [1.1] MAMO, Gashaw. Alkaline Active Hemicellulases. In *ALKALIPHILES IN BIOTECHNOLOGY*. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101., Registrované v: WOS
4. [1.1] MARTINS, Manoela - AVILA, Patricia Felix - PAIM DE ANDRADE, Cristiane Conte - GOLDBECK, Rosana. Synergic recombinant enzyme association to optimize xylo-oligosaccharides production from agricultural waste. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 28, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101747>., Registrované v: WOS
5. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109647>., Registrované v: WOS
6. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - HAWKING, Kirsten L. - RODRIGUES, Ines - HILLIAR, Matthew - CHOCT, Mingan. In vitro versus in situ evaluation of xylan hydrolysis into xylo-oligosaccharides in broiler chicken gastrointestinal tract. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115645>., Registrované v: WOS
7. [1.1] MUNK, Line - MUSCHIOLO, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
8. [1.1] PARAB, P. D. - KHANDEPARKER, R. D. - SHENOY, B. D. - SHARMA, J. Phylogenetic Diversity of Culturable Marine Bacteria from Mangrove Sediments of Goa, India: a Potential Source of Xylanases Belonging to Glycosyl Hydrolase Family 10. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2020, vol. 56, no. 6, pp. 718-728. Dostupné na: <https://doi.org/10.1134/S0003683820060137>., Registrované v: WOS
9. [1.1] PAUCHET, Yannick - RUPRECHT, Colin - PFRENGLE, Fabian. Analyzing the Substrate Specificity of a Class of Long-Horned-Beetle-Derived Xylanases by Using Synthetic Arabinoxylan Oligo- and Polysaccharides. In *CHEMBIOCHEM*. ISSN 1439-4227, 2020, vol. 21, no. 10, pp. 1517-1525. Dostupné na: <https://doi.org/10.1002/cbic.201900687>., Registrované v: WOS
10. [1.1] PHAKEENUYA, Vanarat - RATANAKHANOKCHAI, Khanok - KOSUGI, Akihiko - TACHAAPAUKOON, Chakrit. A novel multifunctional GH9 enzyme from *Paenibacillus curdlanolyticus* B-6 exhibiting endo/exo functions of cellulase, mannanase and xylanase activities. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 5, pp. 2079-2096. Dostupné na: <https://doi.org/10.1007/s00253-020-10388-3>., Registrované v: WOS
11. [1.1] TSUTSUI, Sosyu - SAKURAGI, Kiyoshi - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KANEKO, Satoshi. Evaluation of Ammonia Pretreatment for Enzymatic Hydrolysis of Sugarcane Bagasse to Recover Xylooligosaccharides. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2020, vol. 67, no. 1, pp. 17-22. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0017.,

Registrované v: WOS

- ADCA65 BIELY, Peter - COTE, G.L. - KREMnickÝ, Ľubomír - GREENE, Richard V. - DUPONT, Claude - KLUEPFEL, Dieter. Substrate specificity and mode of action of acetylxylan esterase from *Streptomyces lividans*. In *FEBS Letters*, 1996, vol.396, p. 257-260. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(96\)01080-0](https://doi.org/10.1016/0014-5793(96)01080-0)

Citácie:

1. [1.1] *ALI, Sikander - MAHMOOD, Saba. Mutagenesis of a Thermophilic Alkalibacillus flavidus for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>., Registrované v: WOS*
2. [1.1] *VAAJE-KOLSTAD, Gustav - TUVENG, Tina Rise - MEKASHA, Sophanit - EIJSINK, Vincent G. H. Enzymes for Modification of Chitin and Chitosan. In CHITIN AND CHITOSAN: PROPERTIES AND APPLICATIONS, 2020, vol., no., pp. 189-228., Registrované v: WOS*

- ADCA66 BIELY, Peter. Microbial xylanolytic systems. In *Trends in Biotechnology*, 1985, vol. 3, no. 11, p. 286-290. ISSN 0167-7799. Dostupné na: [https://doi.org/10.1016/0167-7799\(85\)90004-6](https://doi.org/10.1016/0167-7799(85)90004-6)

Citácie:

1. [1.1] *ABDEL-AZEEM, Ahmed M. - EL-MANSY, Shima A. - NAHAS, Hebat Allah H. Abo - MOUSA, Mariam K. - GANDAL, Hossam E. - HAMDY, Salma E. - EL-ANSARY, Mahmoud M. - ABDEL-AZEEM, Mohamed A. Thermophilic Chaetomium in Biotechnology. In RECENT DEVELOPMENTS ON GENUS CHAETOMIUM. ISSN 2198-7777, 2020, vol., no., pp. 421-439. Dostupné na: https://doi.org/10.1007/978-3-030-31612-9_16., Registrované v: WOS*
2. [1.1] *BERTEL-SEVILLA, Angela - CERVANTES-CEBALLOS, Leonor - TIRADO-BALLESTAS, Irina - MALDONADO-ROJAS, Wilson - ALZATE-RESTREPO, Juan - OLIVERO-VERBEL, Jesus. Biodegradation of biodiesel-oil by Cellulosimicrobium sp. Isolated from Colombian Caribbean soils. In ENVIRONMENTAL TECHNOLOGY. ISSN 0959-3330, 2020, vol. 41, no. 18, pp. 2337-2349. Dostupné na: <https://doi.org/10.1080/09593330.2018.1564798>., Registrované v: WOS*
3. [1.1] *BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - HARDER, Soenke - SCHLUETER, Hartmut - HAHNKE, Richard L. - RUEHL, Martin - SCHAEFER, Wilhelm - GAND, Martin. Aspergillus sydowii: Genome Analysis and Characterization of Two Heterologous Expressed, Non-redundant Xylanases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.573482>., Registrované v: WOS*
4. [1.1] *CHIN, Kit Ling - NURLIYANA, Mohd Yaakob - H'NG, Paik San - LEE, Chuan Li - GO, Wen Ze - KHOO, Pui San - NAZRIN, Raja Ahmad Raja - ASHIKIN, Siti Nurul. Effects of Bacterial Bio-augmentation on the Methane Potential from Facultative Digestion of Palm Oil Mill Effluent and Empty Fruit Bunch. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3407-3418. Dostupné na: <https://doi.org/10.1007/s12649-019-00680-3>., Registrované v: WOS*
5. [1.1] *DE PAEPE, Kim - VERSPREET, Joran - COURTIN, Christophe M. - VAN DE WIELE, Tom. Microbial succession during wheat bran fermentation and colonisation by human faecal microbiota as a result of niche diversification. In ISME JOURNAL. ISSN 1751-7362, 2020, vol. 14, no. 2, pp. 584-596. Dostupné na: <https://doi.org/10.1038/s41396-019-0550-5>., Registrované v: WOS*

6. [1.1] FARIA, Syd Pereira - DE MELO, Guilhermar Ramos - CINTRA, Lorena Cardoso - RAMOS, Luiz Pereira - AMORIM JESUINO, Rosalia Santos - ULHOA, Cirano Jose - DE FARIA, Fabricia Paula. Production of cellulases and xylanases by *Humicola grisea* var. *thermoidea* and application in sugarcane bagasse arabinoxylan hydrolysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112968>., Registrované v: WOS
 7. [1.1] HERNANDEZ-DOMINGUEZ, Edna M. - ALVAREZ-CERVANTES, Jorge - GERSAIN LUCIO-AVILA, Pedro - DIAZ-GODINEZ, Gerardo - MERCADO-FLORES, Yuridia. Xylanase SMXL1 from *Stenocarpella maydis*: Purification and Biochemical Characterization. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 2, pp. 2947-2960. Dostupné na: <https://doi.org/10.15376/biores.15.2.2947-2960>., Registrované v: WOS
 8. [1.1] NAJJARZADEH, Nasim - MATSAKAS, Leonidas - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Effect of Oligosaccharide Degree of Polymerization on the Induction of Xylan-Degrading Enzymes by *Fusarium oxysporum* f. sp. *Lycopersici*. In *MOLECULES*, 2020, vol. 25, no. 24, pp. Dostupné na: <https://doi.org/10.3390/molecules25245849>., Registrované v: WOS
 9. [1.1] NANJUNDASWAMY, Ananda - OKEKE, Benedict C. Comprehensive Optimization of Culture Conditions for Production of Biomass-Hydrolyzing Enzymes of *Trichoderma* SG2 in Submerged and Solid-State Fermentation. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 191, no. 1, pp. 444-462. Dostupné na: <https://doi.org/10.1007/s12010-020-03258-1>., Registrované v: WOS
 10. [1.1] THAPA, Santosh - MISHRA, Jitendra - ARORA, Naveen - MISHRA, Priya - LI, Hui - O'HAIR, Joshua - BHATTI, Sarabjit - ZHOU, Suping. Microbial cellulolytic enzymes: diversity and biotechnology with reference to lignocellulosic biomass degradation. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIOTECHNOLOGY*. ISSN 1569-1705, 2020, vol. 19, no. 3, pp. 621-648. Dostupné na: <https://doi.org/10.1007/s11157-020-09536-y>., Registrované v: WOS
- ADCA67 BIELY, Peter - COTE, G.L. - BURGESS-CASSLER, A. Purification and properties of alternanase, a novel endo- α -1,3- α -1,6-D-glucanase. In *European Journal of Biochemistry*, 1994, vol. 226, p. 633-639. ISSN 0014-2956. Dostupné na: <https://doi.org/10.1111/j.1432-1033.1994.tb20090.x>
Citácie:
1. [1.1] MOLINA, Manon - MOULIS, Claire - MONTIES, Nelly - GUIEYSSE, David - MOREL, Sandrine - CIOCI, Gianluca - REMAUD-SIMEON, Magali. A specific oligosaccharide-binding site in the alternansucrase catalytic domain mediates alternan elongation. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2020, vol. 295, no. 28, pp. 9474-9489. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013028>., Registrované v: WOS
- ADCA68 BIELY, Peter - DE VRIES, R.P. - VRŠANSKÁ, Mária - VISSER, J. Inverting character of α -glucuronidase A from *Aspergillus tubingensis*. In *Biochimica et Biophysica Acta*, 2000, vol.1474, no, p.360-364.
Citácie:
1. [1.1] SALEM, Hassan - KIRSCH, Roy - PAUCHET, Yannick - BERASATEGUI, Aileen - FUKUMORI, Kayoko - MORIYAMA, Minoru - CRIPPS, Michael - WINDSOR, Donald - FUKATSU, Takema - GERARDO, Nicole M. Symbiont Digestive Range Reflects Host Plant Breadth in Herbivorous Beetles. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2020, vol. 30, no. 15, pp. 2875-+.
Dostupné na: <https://doi.org/10.1016/j.cub.2020.05.043>., Registrované v: WOS
- ADCA69 BIELY, Peter - CZISZÁROVÁ, Mária - WONG, Ken K.Y. - FERNYHOUGH,

Alan. Enzymatic acylation of flavonoid glycosides by a carbohydrate esterase of family 16. In *Biotechnology Letters*, 2014, vol. 36, p. 2249-2255. (2013: 1.736 - IF, Q3 - JCR, 0.713 - SJR, karentované - CCC). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492.

Citácie:

1. [1.1] D';AMBROSIO, Michele - CIOCARLAN, Alexandru - ARICU, Aculina. Minor acetylated metabolites from *Euphrasia rostkoviana*. Natural and synthetic acetylated derivatives of rutin. In *NATURAL PRODUCT RESEARCH*. ISSN 1478-6419, 2020, vol. 34, no. 2, pp. 290-295. Dostupné na:

<https://doi.org/10.1080/14786419.2018.1530227>., Registrované v: WOS

2. [1.1] ZOU, Yucong - XIN, Xuan - XU, Haixia - YUAN, Hongwei - LI, Xiaofeng - YU, Yigang - ZHAO, Guanglei. Highly efficient bioconversion of flavonoid glycosides from citrus-processing wastes in solvent-buffer systems. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 10, pp. 3196-3207. Dostupné na: <https://doi.org/10.1039/d0gc00669f>., Registrované v: WOS

ADCA70

BIELY, Peter - BENEN, Jacques - HEINRICHOVÁ, Kvetoslava - KESTER, Harry C.M. - VISSER, Jaap. Inversion of configuration during hydrolysis of alfa-1,4-galacturonidic linkage by three *Aspergillus* polygalacturonases. In *FEBS Letters*, 1996, vol. 382, p. 249-255. ISSN 1873-3468.

Citácie:

1. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In *NATURE REVIEWS CHEMISTRY*, 2020, vol. 4, no. 3, pp. 114-126. Dostupné na:

<https://doi.org/10.1038/s41570-020-0163-6>., Registrované v: WOS

2. [1.1] SICHERT, Andreas - CORZETT, Christopher H. - SCHECHTER, Matthew S. - UNFRIED, Frank - MARKERT, Stephanie - BECHER, Dorte - FERNANDEZ-GUERRA, Antonio - LIEBEKE, Manuel - SCHWEDER, Thomas - POLZ, Martin F. - HEHEMANN, Jan-Hendrik. *Verrucomicrobia* use hundreds of enzymes to digest the algal polysaccharide fucoidan. In *NATURE MICROBIOLOGY*. ISSN 2058-5276, 2020, vol. 5, no. 8, pp. 1026-+. Dostupné na: <https://doi.org/10.1038/s41564-020-0720-2>., Registrované v: WOS

ADCA71

BIELY, Peter - MACKENZIE, Colin R. - PULS, Jurgen - SCHNEIDER, Henry. Cooperativity of esterases and xylanases in the enzymatic degradation of acetyl xylan. In *Biotechnology*, 1986, vol.4, p. 731-733. Dostupné na: <https://doi.org/10.1038/nbt0886-731>

Citácie:

1. [1.1] BETTACHE, Azzeddine - COPINET, Estelle - AZZOUZ, Zahra - BOUCHERBA, Nawel - BOUICHE, Cilia - HAMMA, Samir - MAIBECH, Rima - DUCHIRON, Francis - BENALLAOUA, Said. PURIFICATION AND CHARACTERIZATION OF AN ENDOGLUCANASE PRODUCED FROM *Streptomyces* sp. STRAINBPNG23. In *JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES*. ISSN 1338-5178, 2020, vol. 10, no. 2, pp. 284-288. Dostupné na: <https://doi.org/10.15414/jmbfs.2020.10.2.284-288>., Registrované v: WOS

2. [1.1] KMEZIK, Cathleen - BONZOM, Cyrielle - OLSSON, Lisbeth - MAZURKEWICH, Scott - LARSBRINK, Johan. Multimodular fused acetyl-feruloyl esterases from soil and gut *Bacteroidetes* improve xylanase depolymerization of recalcitrant biomass. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01698-9>., Registrované v: WOS

3. [1.1] LARSKAYA, Irina - GORSHKOV, Oleg - MOKSHINA, Natalia - TROFIMOVA, Oksana - MIKSHINA, Polina - KLEPIKOVA, Anna - GOGOLEVA,

- Natalia - GORSHKOVA, Tatyana. Stimulation of adventitious root formation by the oligosaccharin OSRG at the transcriptome level. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, 2020, vol. 15, no. 1, pp. Dostupné na: <https://doi.org/10.1080/15592324.2019.1703503>., Registrované v: WOS*
- 4. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAL, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS*
- 5. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS*
- 6. [1.1] SEO, Hyeongmin - NICELY, Preston N. - TRINH, Cong T. Endogenous carbohydrate esterases of Clostridium thermocellum are identified and disrupted for enhanced isobutyl acetate production from cellulose. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2020, vol. 117, no. 7, pp. 2223-2236. Dostupné na: <https://doi.org/10.1002/bit.27360>., Registrované v: WOS*
- 7. [1.1] SHRADHDHA, Sharma - MURTY, Duggirala Srinivas. Production of Lignolytic and Cellulolytic Enzymes by using Basidiomycetes Fungi in the Solid State Fermentation of Different Agro-Residues. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2020, vol. 15, no. 9, pp. 10-17., Registrované v: WOS*
- 8. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS*

ADCA72

BIELY, Peter - MALOVÍKOVÁ, Anna - HIRSCH, Ján - MORKEBERG KROGH, K. B. R. - EBRINGEROVÁ, Anna. The role of the glucuronoxylan carboxyl groups in the action of andoxylanases of three glycoside hydrolase families: A study with two substrate mutants. In Biochimica et Biophysica Acta : general subjects, 2015, vol. 1850, p. 2246-2255. (2014: 4.381 - IF, Q1 - JCR, 1.821 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2015.07.003>

Citácie:

- 1. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS*
- 2. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na:*

- <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS
3. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. Extraction, characterization of xylan from *Azadirachta indica* (neem) sawdust and production of antiproliferative xylooligosaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>., Registrované v: WOS
- ADCA73 BIELY, Peter - MACKENZIE, Colin R. - SCHNEIDER, Henry. Production of acetyl xylan esterase by *Trichoderma reesei* and *Schizophyllum commune*. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 1988, vol. 34, p. 767-772. ISSN 0008-4166.
- Citácie:
1. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. Optimization and Kinetic Evaluation of Acetylxylan Esterase and Xylanase Production by *Trichoderma reesei* Using Corn Cob Xylan. In *ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL*. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>., Registrované v: WOS
- ADCA74 BIELY, Peter - PULS, Jurgen - SCHNEIDER, Henry. Acetyl xylan esterases in fungal cellulolytic systems. In *FEBS Letters*, 1985, vol. 186, p. 80-84. ISSN 1873-3468. Dostupné na: [https://doi.org/10.1016/0014-5793\(85\)81343-0](https://doi.org/10.1016/0014-5793(85)81343-0)
- Citácie:
1. [1.1] COSCOLIN, Cristina - BARGIELA, Rafael - MARTINEZ-MARTINEZ, Monica - ALONSO, Sandra - BOLLINGER, Alexander - THIES, Stephan - CHERNIKOVA, Tatyana N. - HAI, Tran - GOLYSHINA, Olga V. - JAEGER, Karl-Erich - YAKIMOV, Michail M. - GOLYSHIN, Peter N. - FERRER, Manuel. Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. In *TAXONOMY, GENOMICS AND ECOPHYSIOLOGY OF HYDROCARBON-DEGRADING MICROBES*, 2019, vol., no., pp. 353-373. Dostupné na: https://doi.org/10.1007/978-3-030-14796-9_13., Registrované v: WOS
2. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS
- ADCA75 BIELY, Peter - VRŠANSKÁ, Mária - KRÁTKY, Z.. Mechanism of substrate digestion by endo-1,4-β-xylanase of *Cryptococcus albidus*. Lysozyme type pattern action. In *European Journal of Biochemistry*, 1981, vol. 119, p. 565-571. ISSN 0014-2956.
- Citácie:
1. [1.1] ENEYSKAYA, Elena V. - BOBROV, Kirill S. - KASHINA, Maria V. - BORISOVA, Anna S. - KULMINSKAYA, Anna A. A novel acid-tolerant beta-xylanase from *Scytalidium candidum* 3C for the synthesis of o-nitrophenyl xylooligosaccharides. In *JOURNAL OF BASIC MICROBIOLOGY*. ISSN 0233-111X, 2020, vol. 60, no. 11-12, pp. 971-982. Dostupné na: <https://doi.org/10.1002/jobm.202000303>., Registrované v: WOS
2. [1.1] MALLAKUNTALA, Mohan Krishna - VAIKUNTAPU, Papa Rao - BHUVANACHANDRA, Bhoopal - PODILE, Appa Rao. Selection and mutational analyses of the substrate interacting residues of a chitinase from *Enterobacter*

ADCA76

cloacae subsp. cloacae (EcChi2) to improve transglycosylation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2432-2441. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.125>., Registrované v: WOS

BIELY, Peter** - SINGH, Suren - **PUCHART, Vladimír**. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In *Biotechnology Advances*, 2016, vol. 34, p. 1260-1274. (2015: 9.848 - IF, Q1 - JCR, 2.915 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2016.09.001>

Citácie:

1. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - ALONSO, Jose Luis - SAEZ, Felicia - NEGRO, Maria Jose - GULLON, Beatriz. Xylooligosaccharides from steam-exploded barley straw: Structural features and assessment of bifidogenic properties. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 124, no., pp. 131-142. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.08.014>., Registrované v: WOS
2. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS
3. [1.1] BRENELLI, Livia B. - FIGUEIREDO, Fernanda L. - DAMASIO, Andre - FRANCO, Telma T. - RABELO, Sarita C. An integrated approach to obtain xylooligosaccharides from sugarcane straw: From lab to pilot scale. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 313, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123637>., Registrované v: WOS
4. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In *NATURE REVIEWS CHEMISTRY*, 2020, vol. 4, no. 3, pp. 114-126. Dostupné na: <https://doi.org/10.1038/s41570-020-0163-6>., Registrované v: WOS
5. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS
6. [1.1] DA FONSECA, Maria Joao Mauricio - ARMSTRONG, Zachary - WITHERS, Stephen G. - BRIERS, Yves. High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na: <https://doi.org/10.1128/AEM.01505-20>., Registrované v: WOS
7. [1.1] DERBA-MACELUCH, Marta - AMINI, Fariba - DONEV, Evgeniy N. - PAWAR, Prashant Mohan-Anupama - MICHAUD, Lisa - JOHANSSON, Ulf - ALBRECHTSEN, Benedicte R. - MELLEROWICZ, Ewa J. Cell Wall Acetylation in Hybrid Aspen Affects Field Performance, Foliar Phenolic Composition and Resistance to Biological Stress Factors in a Construct-Dependent Fashion. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00651>., Registrované v: WOS

8. [1.1] FARIA, Syd Pereira - DE MELO, Guilhermar Ramos - CINTRA, Lorena Cardoso - RAMOS, Luiz Pereira - AMORIM JESUINO, Rosalia Santos - ULHOA, Cirano Jose - DE FARIA, Fabricia Paula. Production of cellulases and xylanases by *Humicola grisea* var. *thermoidea* and application in sugarcane bagasse arabinoxylan hydrolysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112968>., Registrované v: WOS
9. [1.1] HAGIWARA, Yusuke - MIHARA, Yasuhiro - SAKAGAMI, Koichi - SAGARA, Ryuta - BAT-ERDENE, Undramaa - YATSUNAMI, Rie - NAKAMURA, Satoshi. Isolation of four xylanases capable of hydrolyzing corn fiber xylan from *Paenibacillus* sp. H2C. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2020, vol. 84, no. 3, pp. 640-650. Dostupné na: <https://doi.org/10.1080/09168451.2019.1693253>., Registrované v: WOS
10. [1.1] HORI, Chiaki - SONG, Ruopu - MATSUMOTO, Kazuki - MATSUMOTO, Ruy - MINKOFF, Benjamin B. - OITA, Shuzo - HARA, Hideho - TAKASUKA, Taichi E. Proteomic Characterization of Lignocellulolytic Enzymes Secreted by the Insect-Associated Fungus *Daldinia decipiens* oita, Isolated from a Forest in Northern Japan. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2020, vol. 86, no. 8, pp. Dostupné na: <https://doi.org/10.1128/AEM.02350-19>., Registrované v: WOS
11. [1.1] JIMENEZ-ORTEGA, Elena - VALENZUELA, Susana - RAMIREZ-ESCUADERO, Mercedes - PASTOR, Francisco Javier - SANZ-APARICIO, Julia. Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 deciphers its molecular specificity. In *FEBS JOURNAL*. ISSN 1742-464X, 2020, vol. 287, no. 24, pp. 5362-5374. Dostupné na: <https://doi.org/10.1111/febs.15332>., Registrované v: WOS
12. [1.1] MISHRA, Rashmi Ranjan - SAMANTARAY, Barsha - BEHERA, Bikash Chandra - PRADHAN, Biswa Ranjan - MOHAPATRA, Sonali. Process optimization for conversion of Waste Banana peels to biobutanol by A yeast Co-Culture fermentation system. In *RENEWABLE ENERGY*. ISSN 0960-1481, 2020, vol. 162, no., pp. 478-488. Dostupné na: <https://doi.org/10.1016/j.renene.2020.08.045>., Registrované v: WOS
13. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS
14. [1.1] POLETTTO, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.01.005>., Registrované v: WOS
15. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS
16. [1.1] ROMANO, Cecilia - JIANG, Hao - BOOS, Irene - CLAUSEN, Mads H. S-Glycosides: synthesis of S-linked arabinoxylan oligosaccharides. In *ORGANIC*

& BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 14, pp. 2696-2701. Dostupné na: <https://doi.org/10.1039/d0ob00470g>., Registrované v: WOS

17. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

18. [1.1] YAO, Qingqing - HUANG, Mei - BU, Zhigang - ZENG, Jiarui - WANG, Xiang - LIU, Zeyi - MA, Jiangshan - ZHANG, Keke - LIU, Xuanming - ZHU, Yonghua. Identification and characterization of a novel bacterial carbohydrate esterase from the bacterium *Pantoea ananatis* Sd-1 with potential for degradation of lignocellulose and pesticides. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1479-1488. Dostupné na:

<https://doi.org/10.1007/s10529-020-02855-8>., Registrované v: WOS

19. [1.1] ZERVA, Anastasia - PENTARI, Christina - GRISEL, Sacha - BERRIN, Jean-Guy - TOPAKAS, Evangelos. A new synergistic relationship between xylan-active LPMO and xylobiohydrolase to tackle recalcitrant xylan. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01777-x>., Registrované v: WOS

ADCA77 BIELY, Peter - VRŠANSKÁ, Mária - CLAEYSSENS, Marc. The endo-1,4-beta-glucanase-I from *Trichoderma reesei* - action on beta-1,4-oligomers and polymers derived from D-glucose and D-xylose. In European Journal of Biochemistry, 1991, vol.200, p. 157-163. ISSN 0014-2956. Dostupné na: <https://doi.org/10.1111/j.1432-1033.1991.tb21062.x>

Citácie:

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

ADCA78 BIELY, Peter - BAUER, Š. The formation of uridine diphosphate 2-deoxy-D-glucose in yeast. In Biochimica et Biophysica Acta, 1966, vol. 121, p. 213-214. Dostupné na: [https://doi.org/10.1016/0304-4165\(66\)90379-5](https://doi.org/10.1016/0304-4165(66)90379-5)

Citácie:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

ADCA79 BIELY, Peter - PUCHART, Vladimír. Recent progress in the assays of xylanolytic enzymes. In Journal of the Science of Food and Agriculture, 2006, vol. 86, p. 1636-1647. (2005: 0.996 - IF, Q1 - JCR, 0.570 - SJR, Q2 - SJR). ISSN 0022-5142. Dostupné na: <https://doi.org/10.1002/jsfa.2519>

Citácie:

1. [1.1] TERRONE, Carol Cabral - DE FREITAS NASCIMENTO, Juliana Montesino - FANCHINI TERRASAN, Cesar Rafael - BRIENZO, Michel - CARMONA, Eleonora Cano. Salt-tolerant alpha-arabinofuranosidase from a new specie *Aspergillus hortai* CRM1919: Production in acid conditions, purification, characterization and application on xylan hydrolysis. In BIOCATALYSIS AND

- AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 23, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2019.101460>., Registrované v: WOS
- ADCA80 BILKOVÁ, Andrea - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - POLÁKOVÁ, Monika. Antimicrobial activity of mannose-derived glycosides. In Monatshefte für Chemie, 2015, vol. 146, p. 1707-1714. (2014: 1.222 - IF, Q3 - JCR, 0.361 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-015-1530-8>
- Citácie:
1. [1.1] GHEDA, Saly F. - ISMAIL, Gehan A. Natural products from some soil cyanobacterial extracts with potent antimicrobial, antioxidant and cytotoxic activities. In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2020, vol. 92, no. 2, pp. Dostupné na: <https://doi.org/10.1590/0001-3765202020190934>., Registrované v: WOS
- ADCA81 BIRKHOLZ, Alysia - NEMČOVIČ, Marek - YU, Esther Dawen - GIRARDI, Enrico - WANG, Jing - KHURANA, Archana - PAUWELS, Nora - FARBER, Elisa - CHITALE, Sampada - FRANCK, Richard W. - TSUJI, Moriya - HOWELL, Amy - VAN CALENBERGH, Serge - KRONENBERG, Mitchell - ZAJONC, Dirk M. Lipid and carbohydrate modifications of α -galactosylceramide differently influence mouse and human type I natural killer T cell activation. In Journal of Biological Chemistry, 2015, vol. 290, p. 17206-17217. (2014: 4.573 - IF, Q1 - JCR, 3.258 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M115.654814>
- Citácie:
1. [1.1] DRIVER, John P. - DE CARVALHO MADRID, Darling Melany - GU, Weihong - ARTIAGA, Bianca L. - RICHT, Jurgen A. Modulation of Immune Responses to Influenza A Virus Vaccines by Natural Killer T Cells. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.02172>., Registrované v: WOS
2. [1.1] SAAVEDRA-AVILA, Noemi Alejandra - KESHIPEDDY, Santosh - GUBERMAN-PFEFFER, Matthew J. - PEREZ-GALLEGOS, Ayax - SAINI, Neeraj K. - SCHAFER, Carolina - CARRENO, Leandro J. - GASCON, Jose A. - PORCELLI, Steven A. - HOWELL, Amy R. Amide-Linked C4 '-;-Saccharide Modification of KRN7000 Provides Potent Stimulation of Human Invariant NKT Cells and Anti-Tumor Immunity in a Humanized Mouse Model. In ACS CHEMICAL BIOLOGY. ISSN 1554-8929, 2020, vol. 15, no. 12, pp. 3176-3186. Dostupné na: <https://doi.org/10.1021/acscchembio.0c00707>., Registrované v: WOS
- ADCA82 ŠEFCOVIČOVÁ, Jana - FILIP, Jaroslav - TOMČÍK, Peter - GEMEINER, Peter - BUČKO, Marek - MAGDOLEN, Peter - TKÁČ, Ján. A biopolymer-based carbon nanotube interface integrated with a redox shuttle and a D-sorbitol dehydrogenase for robust monitoring of D-sorbitol. In Microchimica Acta, 2011, vol. 175, p. 21-30. (2010: 2.578 - IF, Q2 - JCR, 0.965 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-011-0641-0>
- Citácie:
1. [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/1568026620666200306131416>., Registrované v: WOS
- ADCA83 ŠEFCOVIČOVÁ, Jana - VIKARTOVSKÁ, Alica - PÄTOPRSTÝ, Vladimír - MAGDOLEN, Peter - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter. Off-line FIA monitoring of D-dorbitol consumption during L-sorbose production using a

sorbitol biosensor. Vladimír Pätoprstý. In *Analytica Chimica Acta*, 2009, vol.644, pp. 68-71. Dostupné na: <https://doi.org/10.1016/j.aca.2009.04.012>

Citácie:

1. [1.1] *AZAR, Sepideh Alizad Derakhshi - ALEMZADEH, Iran. L-Sorbose Production by Gluconobacter oxydans using Submerged Fermentation in a Bench Scale Fermenter. In APPLIED FOOD BIOTECHNOLOGY. ISSN 2345-5357, 2020, vol. 7, no. 1, pp. 41-48. Dostupné na:*

<https://doi.org/10.22037/afb.v7i1.26582>, Registrované v: WOS

ADCA84 BLANCO, Noelia - SANZ, Ana B. - RODRIGUES-PENA, Jose M. - NOMBELA, César - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier. Structural and functional analysis of yeast Crh1 and Crh2 transglycosylases. In *FEBS Journal*, 2015, vol.282, p. 715-731. (2014: 4.001 - IF, Q2 - JCR, 2.259 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.13176>

Citácie:

1. [1.1] *STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>, Registrované v: WOS*

2. [1.1] *YANG, Jian - XU, Yuqun - MIYAKAWA, Takuya - LONG, Lijuan - TANOKURA, Masaru. Molecular Basis for Substrate Recognition and Catalysis by a Marine Bacterial Laminarinase. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na:*

<https://doi.org/10.1128/AEM.01796-20>, Registrované v: WOS

ADCA85 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - KASÁK, Peter - TKÁČ, Ján**. Antibodies against aberrant glycans as cancer biomarkers. In *Expert Review of Molecular Diagnostics*, 2019, vol. 19, p. 1057-1068. (2018: 3.099 - IF, Q2 - JCR, 1.171 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1473-7159. Dostupné na: <https://doi.org/10.1080/14737159.2020.1687295>

Citácie:

1. [1.1] *RAUF, Femina - ANDERSON, Karen S. - LABAER, Joshua. Autoantibodies in Early Detection of Breast Cancer. In CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION. ISSN 1055-9965, 2020, vol. 29, no. 12, pp. 2475-2485. Dostupné na: <https://doi.org/10.1158/1055-9965.EPI-20-0331>, Registrované v: WOS*

ADCA86 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi α -mannosidase II. In *Journal of molecular Graphics and Modelling*, 2016, vol. 66, p. 47-57. (2015: 1.674 - IF, Q2 - JCR, 0.467 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1093-3263. Dostupné na: <https://doi.org/10.1016/j.jmngm.2016.03.004>

Citácie:

1. [1.1] *KOTEV, Martin - SARRAT, Laurie - GONZALEZ, Constantino Diaz. User-Friendly Quantum Mechanics: Applications for Drug Discovery. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 231-255. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_15, Registrované v: WOS*

ADCA87 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Theoretical study of enzymatic catalysis explains why the trapped covalent intermediate in the E303C mutant of glycosyltransferase GTB was not detected in the wild-type enzyme. In *Glycobiology*, 2015, vol. 25, p. 3-7. (2014: 3.147 - IF, Q2 - JCR, 1.538 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0959-6658. Dostupné na:

<https://doi.org/10.1093/glycob/cwu085>

Citácie:

1. [1.1] YAN, Lijuan - LIU, Yongjun. *The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYLT1): a Quantum Mechanics/Molecular Mechanics Study*. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>, Registrované v: WOS

ADCA88 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining alfa-1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In *Organic and Biomolecular Chemistry*, 2014, vol. 12, p. 4201-4210. (2013: 3.487 - IF, Q1 - JCR, 1.481 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1477-0520. Dostupné na: <https://doi.org/10.1039/c4ob00286e>

Citácie:

1. [1.1] HIRA, Daisuke - ONOUE, Takuya - OKA, Takuji. *Structural basis for the core-mannan biosynthesis of cell wall fungal-type galactomannan in Aspergillus fumigatus*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2020, vol. 295, no. 45, pp. 15407-15417. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013742>, Registrované v: WOS

2. [1.1] YAN, Lijuan - LIU, Yongjun. *The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYLT1): a Quantum Mechanics/Molecular Mechanics Study*. In *JOURNAL OF CHEMICAL INFORMATION AND MODELING*. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>, Registrované v: WOS

ADCA89 BOKOR, Boris - SOUKUP, Milan - VACULÍK, Marek - VĎAČNÝ, P. - WEIDINGER, Marieluise - LICHTSCHEIDL, Irene - VÁVROVÁ, Silvia - ŠOLTYS, Katarína - SONAH, Humira - DESHMUKH, Rupesh - BÉLANGER, Richard - WHITE, Philip J. - EL-SEREHY, Hamed A. - LUX, Alexander**. Silicon Uptake and Localisation in Date Palm (*Phoenix dactylifera*) – A Unique Association With Sclerenchyma. In *Frontiers in Plant Science*, 2019, vol. 10, art. no. 988. (2018: 4.106 - IF, Q1 - JCR, 1.687 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1664-462X. Dostupné na: <https://doi.org/10.3389/fpls.2019.00988>

Citácie:

1. [1.1] GEORGE, N. - ANTONY, A. - RAMACHANDRAN, T. - HAMED, F. - KAMAL-ELDIN, A. *Microscopic Investigation of Silicification and Lignification Suggest Their Coexistence in Tracheary Phytoliths in Date Fruits (*Phoenix dactylifera* L.)*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, JUL 7 2020, vol. 11., Registrované v: WOS

2. [1.1] HODSON, M.J. - EVANS, D.E. *Aluminium-silicon interactions in higher plants: an update*. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6719-6729., Registrované v: WOS

3. [1.1] ZANCAJO, V.M.R. - LINDTNER, T. - EISELE, M. - HUBER, A.J. - ELBAUM, R. - KNEIPP, J. *FTIR Nanospectroscopy Shows Molecular Structures of Plant Biominerals and Cell Walls*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, OCT 20 2020, vol. 92, no. 20, p. 13694-13701., Registrované v: WOS

ADCA90 BRADBROOK, G.M. - GESSLER, K. - CÔTÉ, G.L. - MOMANY, F. - BIELY, Peter - BORDET, P. - PEREZ, S. - IMBERTY, A. X-ray structure determination and modeling of the cyclic tetrasaccharide cyclo-(-6)-alfa-D-Glcp-(1-3)-alfa-D-Glcp-(1-3)-alfa-D-Glcp-(1-). In *Carbohydrate Research*, 2000, vol. 329, p. 655-665. (1999: 1.252 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0008-6215.

Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)00212-3](https://doi.org/10.1016/S0008-6215(00)00212-3)

Citácie:

1. [1.1] FUJITA, Akihiro - KAWASHIMA, Akira - OTA, Hiromi - WATANABE, Hikaru - MORI, Tetsuya - NISHIMOTO, Tomoyuki - AGA, Hajime - USHIO, Shimpei. A cyclic tetrasaccharide, cycloisomaltotetraose, was enzymatically produced from dextran and its crystal structure was determined. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 496, no., pp.

Dostupné na: <https://doi.org/10.1016/j.carres.2020.108104>., Registrované v: WOS

2. [1.1] MATENCIO, Adrian - CALDERA, Fabrizio - CECONE, Claudio - MANUEL LOPEZ-NICOLAS, Jose - TROTTA, Francesco. Cyclic Oligosaccharides as Active Drugs, an Updated Review. In *PHARMACEUTICALS*, 2020, vol. 13, no. 10, pp. Dostupné na: <https://doi.org/10.3390/ph13100281>., Registrované v: WOS

ADCA91

BRAMBILLA, Davide - VERPILLOT, Romain - LE DROUMAGUET, Benjamin - NICOLAS, Julien - TAVERNA, Myriam - KÓŇA, Juraj - LETTIERO, Barbara - HASHEMI, Hossein - DE KIMPE, Line - CANOVI, Mara - GOBBI, Marco - NICOLAS, Valérie - SCHEPER, Wiep - MOGHIMI, Moein - TVAROŠKA, Igor - COUVREUR, Patrick - ANDRIEUX, Karine. PEGylated nanoparticles bind to and alter amyloid-beta peptide conformation: Toward engineering of functional nanomedicines for Alzheimer's disease. In *ACS Nano*, 2012, vol. 6, p. 5897-5908. (2011: 11.421 - IF, Q1 - JCR, 6.282 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1936-0851. Dostupné na:

<https://doi.org/10.1021/nn300489k>

Citácie:

1. [1.1] AYAZ, Muhammad - OVAIS, Muhammad - AHMAD, Irshad - SADIQ, Abdul - KHALIL, Ali Talha - ULLAH, Farhat. Biosynthesized metal nanoparticles as potential Alzheimer's disease therapeutics. In *METAL NANOPARTICLES FOR DRUG DELIVERY AND DIAGNOSTIC APPLICATIONS*, 2020, vol., no., pp. 31-42., Registrované v: WOS

2. [1.1] BARANOWSKA-WOJCIK, Ewa - SZWAJGIER, Dominik. Alzheimer's disease: review of current nanotechnological therapeutic strategies. In *EXPERT REVIEW OF NEUROTHERAPEUTICS*. ISSN 1473-7175, 2020, vol. 20, no. 3, pp. 271-279. Dostupné na: <https://doi.org/10.1080/14737175.2020.1719069>., Registrované v: WOS

3. [1.1] CAI, Jing - DAO, Pascal - CHEN, Huixiong - YAN, Longjia - LI, Yong Liang - ZHANG, Wanzheng - LI, Li - DU, Zhiyun - DONG, Chang-Zhi - MEUNIER, Bernard. Ultrasmall superparamagnetic iron oxide nanoparticles-bound NIR dyes: Novel theranostic agents for Alzheimer's disease. In *DYES AND PIGMENTS*. ISSN 0143-7208, 2020, vol. 173, no., pp. Dostupné na: <https://doi.org/10.1016/j.dyepig.2019.107968>., Registrované v: WOS

4. [1.1] CHEN, Pengyu - DING, Feng - CAI, Rong - JAVED, Ibrahim - YANG, Wen - ZHANG, Zhenzhen - LI, Yuhuan - DAVIS, Thomas P. - KE, Pu Chun - CHEN, Chunying. Amyloidosis inhibition, a new frontier of the protein corona. In *NANO TODAY*. ISSN 1748-0132, 2020, vol. 35, no., pp. Dostupné na: <https://doi.org/10.1016/j.nantod.2020.100937>., Registrované v: WOS

5. [1.1] DATTA, Lakshmi Priya - SAMANTA, Sourav - GOVINDARAJU, Thimmaiah. Polyampholyte-Based Synthetic Chaperone Modulate Amyloid Aggregation and Lithium Delivery. In *ACS CHEMICAL NEUROSCIENCE*. ISSN 1948-7193, 2020, vol. 11, no. 18, pp. 2812-2826. Dostupné na: <https://doi.org/10.1021/acchemneuro.0c00369>., Registrované v: WOS

6. [1.1] DOGRA, Anmol - NARANG, R. S. - NARANG, Jasjeet K. Recent

- Advances in Nanotherapeutic Interventions for the Treatment of Alzheimer's Disease. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 19, pp. 2257-2279. Dostupné na: <https://doi.org/10.2174/1381612826666200422092620>., Registrované v: WOS*
- 7. [1.1] GHOSH, Pooja - DE, Priyadarsi. Modulation of Amyloid Protein Fibrillation by Synthetic Polymers: Recent Advances in the Context of Neurodegenerative Diseases. In ACS APPLIED BIO MATERIALS. ISSN 2576-6422, 2020, vol. 3, no. 10, pp. 6598-6625. Dostupné na: <https://doi.org/10.1021/acsabm.0c01021>., Registrované v: WOS*
- 8. [1.1] JAHANBIN, Farnaz - BOZORGMEHR, Mohammad Reza - MORSALI, Ali - BEYRAMABADI, Safar Ali. The effect of Carbon nanotube on the most effective peptide in Alzheimer's disease in the presence of Dimethyl Sulfoxide: In Silico approach. In INTERNATIONAL JOURNAL OF NANO DIMENSION. ISSN 2008-8868, 2020, vol. 11, no. 1, pp. 50-57., Registrované v: WOS*
- 9. [1.1] JIN, Guang-Zhen - CHAKRABORTY, Atanu - LEE, Jung-Hwan - KNOWLES, Jonathan C. - KIM, Hae-Won. Targeting with nanoparticles for the therapeutic treatment of brain diseases. In JOURNAL OF TISSUE ENGINEERING. ISSN 2041-7314, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.1177/2041731419897460>., Registrované v: WOS*
- 10. [1.1] KELLER, Adrian - GRUNDMEIER, Guido. Amyloid aggregation at solid-liquid interfaces: Perspectives of studies using model surfaces. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 506, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2019.144991>., Registrované v: WOS*
- 11. [1.1] KRISHNA, Kowthavarapu Venkata - SAHA, Ranendra Narayan - DUBEY, Sunil Kumar. Biophysical, Biochemical, and Behavioral Implications of ApoE3 Conjugated Donepezil Nanomedicine in a A beta(1-42) Induced Alzheimer's Disease Rat Model. In ACS CHEMICAL NEUROSCIENCE. ISSN 1948-7193, 2020, vol. 11, no. 24, pp. 4139-4151. Dostupné na: <https://doi.org/10.1021/acscchemneuro.0c00430>., Registrované v: WOS*
- 12. [1.1] KUMAR, Rajesh - GULATI, Monica - SINGH, Sachin Kumar - SHARMA, Deepika - PORWAL, Omji. Road From Nose to Brain for Treatment of Alzheimer: The Bumps and Humps. In CNS & NEUROLOGICAL DISORDERS- DRUG TARGETS. ISSN 1871-5273, 2020, vol. 19, no. 9, pp. 663-675. Dostupné na: <https://doi.org/10.2174/1871527319666200708124726>., Registrované v: WOS*
- 13. [1.1] LI, Meng - LIU, Zhenqi - REN, Jinsong - QU, Xiaogang. Molecular crowding effects on the biochemical properties of amyloid beta-heme, A beta-Cu and A beta-heme-Cu complexes. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 28, pp. 7479-7486. Dostupné na: <https://doi.org/10.1039/d0sc01020k>., Registrované v: WOS*
- 14. [1.1] MA, Mengmeng - LIU, Zhenqi - GAO, Nan - PI, Zifeng - DU, Xiubo - REN, Jinsong - QU, Xiaogang. Self-Protecting Biomimetic Nanozyme for Selective and Synergistic Clearance of Peripheral Amyloid-beta in an Alzheimer's Disease Model. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 52, pp. 21702-21711. Dostupné na: <https://doi.org/10.1021/jacs.0c08395>., Registrované v: WOS*
- 15. [1.1] PARK, Sung Jean. Protein-Nanoparticle Interaction: Corona Formation and Conformational Changes in Proteins on Nanoparticles. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2020, vol. 15, no., pp. 5783-5802. Dostupné na: <https://doi.org/10.2147/IJN.S254808>., Registrované v: WOS*
- 16. [1.1] RAJPOOT, Kuldeep. Nanotechnology-based Targeting of Neurodegenerative Disorders: A Promising Tool for Efficient Delivery of Neuromedicines. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2020, vol. 21,*

no. 8, pp. 819-836. Dostupné na:

<https://doi.org/10.2174/1389450121666200106105633>., Registrované v: WOS
17. [1.1] SHAO, Jiang-Yang - WU, Si-Hai - MA, Junjie - GONG, Zhong-Liang - SUN, Tian-Ge - JIN, Yulong - YANG, Rong - SUN, Bin - ZHONG, Yu-Wu.

Ratiometric detection of amyloid-beta aggregation by a dual-emissive tris-heteroleptic ruthenium complex. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2020, vol. 56, no. 14, pp. 2087-2090. Dostupné na:

<https://doi.org/10.1039/c9cc08909h>., Registrované v: WOS

18. [1.1] VIMAL, Sunil Kumar - ZUO, Hua - WANG, Zhengwu - WANG, Hongrun - LONG, Zhiliang - BHATTACHARYYA, Sanjib. *Self-Therapeutic Nanoparticle That Alters Tau Protein and Ameliorates Tauopathy Toward a Functional Nanomedicine to Tackle Alzheimer's*. In *SMALL*. ISSN 1613-6810, 2020, vol. 16, no. 16, pp. Dostupné na: <https://doi.org/10.1002/sml.201906861>., Registrované v: WOS

19. [1.1] WILDER, Logan M. - HANDALI, Paul R. - WEBB, Lauren J. - CROOKS, Richard M. *Interactions between Oligoethylene Glycol-Capped AuNPs and Attached Peptides Control Peptide Structure.* In *BIOCONJUGATE CHEMISTRY*. ISSN 1043-1802, 2020, vol. 31, no. 10, pp. 2383-2391. Dostupné na: <https://doi.org/10.1021/acs.bioconjchem.0c00447>., Registrované v: WOS

20. [1.1] ZHAO, Jinhua - YIN, Fucheng - JI, Limei - WANG, Cheng - SHI, Cunjian - LIU, Xingchen - YANG, Huali - WANG, Xiaobing - KONG, Lingyi. *Development of a Tau-Targeted Drug Delivery System Using a Multifunctional Nanoscale Metal-Organic Framework for Alzheimer's Disease Therapy.* In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2020, vol. 12, no. 40, pp. 44447-44458. Dostupné na: <https://doi.org/10.1021/acsami.0c11064>., Registrované v: WOS

ADCA92

BREIEROVÁ, Emília - HROMÁDKOVÁ, Zdenka - STRATILOVÁ, Eva - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna. Effect of salt stress on the production and properties of extracellular polysaccharides produced by *Cryptococcus laurentii*. In *Zeitschrift für Naturforschung C*, 2005, vol. 60c, p. 444-450. ISSN 0939-5075. Dostupné na: <https://doi.org/10.1515/znc-2005-5-613>

Citácie:

1. [1.1] SEVEIRI, Rasool Mirzaei - HAMIDI, Masoud - DELATTRE, Cedric - SEDIGHIAN, Hamid - PIERRE, Guillaume - RAHMANI, Babak - DARZI, Sina - BRASSELET, Clement - KARIMITABAR, Fatemeh - RAZAGHPOOR, Ali - AMANI, Jafar. *Characterization and Prospective Applications of the Exopolysaccharides Produced by Rhodosporidium babjevae.* In *ADVANCED PHARMACEUTICAL BULLETIN*. ISSN 2228-5881, 2020, vol. 10, no. 2, pp. 254-263. Dostupné na: <https://doi.org/10.34172/apb.2020.030>., Registrované v: WOS

2. [1.1] XU, Dandan - WANG, Peng - ZHANG, Xin - ZHANG, Jian - SUN, Yong - GAO, Lihua - WANG, Wenping. *High-throughput sequencing approach to characterize dynamic changes of the fungal and bacterial communities during the production of sufu, a traditional Chinese fermented soybean food.* In *FOOD MICROBIOLOGY*. ISSN 0740-0020, 2020, vol. 86, no., pp. Dostupné na: <https://doi.org/10.1016/j.fm.2019.103340>., Registrované v: WOS

ADCA93

BREIEROVÁ, Emília - VAJCIKOVÁ, I. - SASINKOVÁ, Vlasta - STRATILOVÁ, Eva - FÍŠERA, M. - GREGOR, T. - ŠAJBIDOR, J. Biosorption of cadmium ions by different yeast species. In *Zeitschrift für Naturforschung C*, 2002, vol. 57, p. 634-639.

Citácie:

1. [1.1] RANA, Anu - YADAV, Krishna - JAGADEVAN, Sheeja. *A comprehensive review on green synthesis of nature-inspired metal nanoparticles: Mechanism,*

- application and toxicity. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 272, no., pp. Dostupné na: <https://doi.org/10.1016/j.jclepro.2020.122880>., Registrované v: WOS*
- ADCA94 BREIEROVÁ, Emília. Yeast exoglycoproteins produced under NaCl-stress conditions as efficient cryoprotective agents. In Letters in Applied Microbiology, 1997, vol. 25, pp. 254-256. (1996: 0.948 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0266-8254. Dostupné na: <https://doi.org/10.1251/bpo1>
- Citácie:
1. [1.1] SITEPU, Irnayuli - ENRIQUEZ, Lauren - NGUYEN, Valerie - FRY, Russell - SIMMONS, Blake - SINGER, Steve - SIMMONS, Christopher - BOUNDY-MILLS, Kyria L. Ionic Liquid Tolerance of Yeasts in Family Dipodascaceae and Genus Wickerhamomyces. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 191, no. 4, pp. 1580-1593. Dostupné na: <https://doi.org/10.1007/s12010-020-03293-y>., Registrované v: WOS
- ADCA95 BREIEROVÁ, Emília** - KOCKOVÁ-KRATOCHVÍLOVÁ, Anna. Cryoprotective effects of yeast extracellular polysaccharides and glycoproteins. In Cryobiology, 1992, vol. 29, p. 385-390. ISSN 0011-2240. Dostupné na: [https://doi.org/10.1016/0011-2240\(92\)90039-5](https://doi.org/10.1016/0011-2240(92)90039-5)
- Citácie:
1. [1.1] NAVARTA, Leonardo G. - CALVO, Juan - POSETTO, Paola - BENUZZI, Delia - SANZ, Maria. Freeze-drying of a mixture of bacterium and yeast for application in postharvest control of pathogenic fungi. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 7, pp. Dostupné na: <https://doi.org/10.1007/s42452-020-3049-9>., Registrované v: WOS
- ADCA96 BREŽNÝ, Robert - MIHÁLOV, Vincent - KOVÁČIK, Vladimír. Low-temperature thermolysis of lignin I. Reactions of beta-O-4 model compounds. In Holzforschung, 1983, vol. 37, p. 199-204. Dostupné na: <https://doi.org/10.1515/hfsg.1983.37.4.199>
- Citácie:
1. [1.1] HUDZIK, Jason M. - BAREKATI-GOUDARZI, Mohamad - KHACHATRYAN, Lavrent - BOZZELLI, Joseph W. - RUCKENSTEIN, Eli - ASATRYAN, Rubik. OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part II. Kinetic Analysis. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4875-4904. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b11894>., Registrované v: WOS
2. [1.1] HUDZIK, Jason M. - BOZZELLI, Joseph W. - ASATRYAN, Rubik - RUCKENSTEIN, Eli. OH-Initiated Reactions of para-Coumaryl Alcohol Relevant to the Lignin Pyrolysis. Part III. Kinetics of H-Abstraction by H, OH, and CH₃ Radicals. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4905-4915. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b11898>., Registrované v: WOS
3. [1.1] KOURIS, Panos D. - VAN OSCH, Dannie J. G. P. - CREMERS, Geert J. W. - BOOT, Michael D. - HENSEN, Emiel J. M. Mild thermolytic solvolysis of technical lignins in polar organic solvents to a crude lignin oil. In SUSTAINABLE ENERGY & FUELS. ISSN 2398-4902, 2020, vol. 4, no. 12, pp. 6212-6226. Dostupné na: <https://doi.org/10.1039/d0se01016b>., Registrované v: WOS
- ADCA97 BRISSENET, Yoan - LADEVOZE, Simon - TEZÉ, David - FABRE, Emeline - DENIAUD, David - DALIGAULT, Franck - TELLIER, Charles - ŠESTÁK, Sergej - REMAUD-SIMEON, Magali - POTOCKI-VERONESE, Gabrielle - GOUIN, Sébastien G. Polymeric iminosugars improve the activity of carbohydrate-processing enzymes. In Bioconjugate Chemistry, 2015, vol. 26, p. 766-772. (2014: 4.513 - IF, Q1 - JCR, 1.711 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1043-1802. Dostupné na: <https://doi.org/10.1021/acs.bioconjchem.5b00081>

Citácie:

1. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In *CHEMICAL RECORD*. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na: <https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS

2. [1.1] GONZALEZ-CUESTA, Manuel - MELLET, Carmen Ortiz - GARCIA FERNANDEZ, Jose M. Carbohydrate supramolecular chemistry: beyond the multivalent effect. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2020, vol. 56, no. 39, pp. 5207-5222. Dostupné na:

<https://doi.org/10.1039/d0cc01135e>., Registrované v: WOS

3. [1.1] PUET, Alejandro - DOMINGUEZ, Gema - JAVIER CANADA, F. - PEREZ-CASTELLS, Javier. Amino Acid-Based Synthesis and Glycosidase Inhibition of Cyclopropane-Containing Iminosugars. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 49, pp. 31821-31830. Dostupné na:

<https://doi.org/10.1021/acsomega.0c04589>., Registrované v: WOS

ADCA98

BRISSENET, Yoan - ORTIZ MELLET, Carmen - MORANDAT, Sandrine - GARCIA MORENO, Isabel - DENIAUD, David - MATTHEWS, Susan - VIDAL, Sébastien - ŠESTÁK, Sergej - EL KIRAT, Karim - GOUIN, Sébastien. Topological effects and binding modes operating with multivalent iminosugar-based glycoclusters and mannosidases. In *Journal of the American Chemical Society*, 2013, vol. 135, p. 18427-18435. (2012: 10.677 - IF, Q1 - JCR, 6.211 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/ja406931w>

Citácie:

1. [1.1] BOMMAGANI, Mohan Babu - MOKENAPELLI, Sudhakar - YERRABELLI, Jayaprakash Rao - BODA, Sathish Kumar - CHITNENI, Prasad Rao. Novel 4-(1H-1,2,3-triazol-4-yl)methoxy)cinnolines as potent antibacterial agents: Synthesis and molecular docking study. In *SYNTHETIC COMMUNICATIONS*. ISSN 0039-7911, 2020, vol. 50, no. 7, pp. 1016-1025. Dostupné na: <https://doi.org/10.1080/00397911.2020.1728333>., Registrované v: WOS

2. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In *CHEMICAL RECORD*. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na: <https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS

3. [1.1] SCHNEIDER, Jeremy P. - TOMMASONE, Stefano - DELLA SALA, Paolo - GAETA, Carmine - TALOTTA, Carmen - TARNUS, Celine - NERI, Placido - BODLENNER, Anne - COMPAIN, Philippe. Synthesis and Glycosidase Inhibition Properties of Calix[8]arene-Based Iminosugar Click Clusters. In *PHARMACEUTICALS*, 2020, vol. 13, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ph13110366>., Registrované v: WOS

ADCA99

BROADLEY, M.R. - WHITE, P.J. - HAMMOND, J.P. - ZELKO, Ivan - LUX, Alexander. Zinc in plants. In *New Phytologist*, 2007, vol. 173, p. 677-702. (2006: 4.245 - IF, Q1 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 0028-646X. Dostupné na: <https://doi.org/10.1111/j.1469-8137.2007.01996.x>

Citácie:

1. [1.1] ABDELGAWAD, Hamada - ZINTA, Gaurav - HAMED, Badreldin A. - SELIM, Samy - BEEMSTER, Gerrit - HOZZEIN, Wael N. - WADAAN, Mohammed A. M. - ASARD, Han - ABUELSOUD, Walid. Maize roots and shoots show distinct profiles of oxidative stress and antioxidant defense under heavy metal toxicity. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 258, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2019.113705>.,

Registrované v: WOS

2. [1.1] AFSHAR, Reza Keshavarz - CHEN, Chengci - ZHOU, Shuang - ETEMADI, Fatemeh - HE, Huaqin - LI, Zhaowei. *Agronomic and economic response of bread wheat to foliar zinc application. In AGRONOMY JOURNAL. ISSN 0002-1962, 2020, vol. 112, no. 5, pp. 4045-4056. Dostupné na: <https://doi.org/10.1002/agj2.20247>.*, Registrované v: WOS
3. [1.1] AKTER, Mousumi - ALAM, Md. Khairul - RASHID, Md. Harunur - AKHTER, S. - NASER, H. M. - SULTANA, S. - SHIL, N. C. - HOSSAIN, M. A. *Correction and standardization of critical limit of zinc for maize (Zea mays L.) crop: Bangladesh perspective. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2020, vol. 43, no. 3, pp. 371-383. Dostupné na: <https://doi.org/10.1080/01904167.2019.1676904>.*, Registrované v: WOS
4. [1.1] AMDOUN, Ryad - BENDIFALLAH, Nassim - SAHLI, Fatiha - MOUSTAFA, Khaled - HEFFERON, Kathleen - MAKHZOUM, Abdullah - KHELIFI, Lakhdar. *Improving zinc phytoremediation characteristics in Salix pedicellata with a new acclimation approach. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2020, vol. 22, no. 7, pp. 745-754. Dostupné na: <https://doi.org/10.1080/15226514.2019.1708862>.*, Registrované v: WOS
5. [1.1] BALAFREJ, Habiba - BOGUSZ, Didier - TRIQUI, Zine-El Abidine - GUEDIRA, Abdelkarim - BENDAOU, Najib - SMOUNI, Abdelaziz - FAHR, Mouna. *Zinc Hyperaccumulation in Plants: A Review. In PLANTS-BASEL, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/plants9050562>.*, Registrované v: WOS
6. [1.1] BATISTA BERNARDES, Rafaella Ferreira - QUINTAU LANA, Regina Maria - RODRIGUES OLIVEIRA, Laura Rayane - SEVERINO DE MENEZES FREITAS, Renato Aurelio - DE CAMARGO, Reginaldo - MARQUES PIRES, Danyela Cristina. *ACCUMULATION OF SODIUM AND HEAVY METALS IN SOIL CULTIVATED WITH Corymbia citriodora AFTER THE APPLICATION OF SWINE WASTEWATER. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2020, vol. 36, no. 3, pp. 992-1002. Dostupné na: <https://doi.org/10.14393/BJ-v36n3a2020-39509>.*, Registrované v: WOS
7. [1.1] BERNARDY, Katieli - FARIAS, Julia Gomes - PEREIRA, Aline Soares - SEVERO DORNELES, Athos Odin - BERNARDY, Daniele - TABALDI, Luciane Almeri - NEVES, Vinicius Machado - DRESSLER, Valderi Luiz - NICOLOSO, Fernando Teixeira. *Plants'; genetic variation approach applied to zinc contamination: secondary metabolites and enzymes of the antioxidant system in Pfaffia glomerata accessions. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 253, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.126692>.*, Registrované v: WOS
8. [1.1] BHATT, Rajan - HOSSAIN, Akbar - SHARMA, Pardeep. *Zinc biofortification as an innovative technology to alleviate the zinc deficiency in human health: a review. In OPEN AGRICULTURE. ISSN 2391-9531, 2020, vol. 5, no. 1, pp. 176-187. Dostupné na: <https://doi.org/10.1515/opag-2020-0018>.*, Registrované v: WOS
9. [1.1] BRACKX, Gwennhael - GUINOISEAU, Damien - DUPONCHEL, Ludovic - GELABERT, Alexandre - REICHEL, Victoria - ZRIG, Samia - DI MEGLIO, Jean-Marc - BENEDETTI, Marc F. - GAILLARDET, Jerome - CHARRON, Gaelle. *A frugal implementation of Surface Enhanced Raman Scattering for sensing Zn²⁺ in freshwaters In depth investigation of the analytical performances. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-58647-7>.*, Registrované v:

WOS

10. [1.1] CARILLO, Petronia - KYRATZIS, Angelos - KYRIACOU, Marios C. - DELL'; AVERSANA, Emilia - FUSCO, Giovanna Marta - CORRADO, Giandomenico - ROUPHAEL, Youssef. Biostimulatory Action of Arbuscular Mycorrhizal Fungi Enhances Productivity, Functional and Sensory Quality in 'Piennolo del Vesuvio'; Cherry Tomato Landraces. In *AGRONOMY-BASEL*, 2020, vol. 10, no. 6, pp. Dostupné na: <https://doi.org/10.3390/agronomy10060911>., Registrované v: WOS
11. [1.1] CHEAH, Zhong Xiang - KOPITKE, Peter M. - SCHECKEL, Kirk G. - NOERPEL, Matthew R. - BELL, Michael J. Comparison of Zn accumulation and speciation in kernels of sweetcorn and maize differing in maturity. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2020, vol. 125, no. 1, pp. 185-193. Dostupné na: <https://doi.org/10.1093/aob/mcz179>., Registrované v: WOS
12. [1.1] CHEN, Zhuang - LIU, Yang-yi - HE, Xiao-xiao - CHEN, Jin-quan. Ultrafast excited state dynamics of biliverdin dimethyl ester coordinate with zinc ions(dagger). In *CHINESE JOURNAL OF CHEMICAL PHYSICS*. ISSN 1674-0068, 2020, vol. 33, no. 1, pp. 69-74. Dostupné na: <https://doi.org/10.1063/1674-0068/cjcp1911193>., Registrované v: WOS
13. [1.1] CHENG, Li - ZHAO, Tong - WANG, Hai - ZHU, Yanfang - HU, Ya - WU, Yuxia - JIA, Xumei - ZHU, Zulei - WANG, Yan-xiu. Correlation of the expression of metal tolerance protein genes with zinc accumulation and distribution in *Malus halliana* seedlings under zinc toxicity stress. In *ARID LAND RESEARCH AND MANAGEMENT*. ISSN 1532-4982, 2020, vol. 34, no. 3, pp. 336-352. Dostupné na: <https://doi.org/10.1080/15324982.2019.1703060>., Registrované v: WOS
14. [1.1] CHENG, Li - ZHAO, Tong - WANG, Hai - ZHU, Yanfang - HU, Ya - WU, Yuxia - JIA, Xumei - ZHU, Zulei - WANG, Yan-xiu. Correlation of the expression of metal tolerance protein genes with zinc accumulation and distribution in *Malus halliana* seedlings under zinc toxicity stress. In *ARID LAND RESEARCH AND MANAGEMENT*. ISSN 1532-4982, 2020, vol. 34, no. 3, pp. 336-352., Registrované v: WOS
15. [1.1] CHIBOUB, Manel - JEBARA, Salwa Harzalli - ABID, Ghassen - JEBARA, Moez. Co-inoculation Effects of *Rhizobium sullae* and *Pseudomonas* sp. on Growth, Antioxidant Status, and Expression Pattern of Genes Associated with Heavy Metal Tolerance and Accumulation of Cadmium in *Sulla coronaria*. In *JOURNAL OF PLANT GROWTH REGULATION*. ISSN 0721-7595, 2020, vol. 39, no. 1, pp. 216-228. Dostupné na: <https://doi.org/10.1007/s00344-019-09976-z>., Registrované v: WOS
16. [1.1] CHOWDHURY, Tania - BERA, Kaushik - SAMANTA, Debabrata - DOLUI, Sandip - MAITY, Suvendu - MAITI, Nakul C. - GHOSH, Prasanta Kumar - DAS, Debasis. Unveiling the binding interaction of zinc (II) complexes of homologous Schiff-base ligands on the surface of BSA protein: A combined experimental and theoretical approach. In *APPLIED ORGANOMETALLIC CHEMISTRY*. ISSN 0268-2605, 2020, vol. 34, no. 4, pp. Dostupné na: <https://doi.org/10.1002/aoc.5556>., Registrované v: WOS
17. [1.1] COTA-RUIZ, Keni - YE, Yuqing - VALDES, Carolina - DENG, Chaoyi - WANG, Yi - HERNANDEZ-VIEZCAS, Jose A. - DUARTE-GARDEA, Maria - GARDEA-TORRESDEY, Jorge L. Copper nanowires as nanofertilizers for alfalfa plants: Understanding nano-bio systems interactions from microbial genomics, plant molecular responses and spectroscopic studies. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2020, vol. 742, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2020.140572>., Registrované v: WOS

18. [1.1] CRISTALDI, Antonio - COPAT, Chiara - CONTI, Gea Oliveri - ZUCCARELLO, Pietro - GRASSO, Alfina - FERRANTE, Margherita. *Phytoremediation. In HANDBOOK OF ENVIRONMENTAL REMEDIATION: CLASSIC AND MODERN TECHNIQUES*, 2020, vol., no., pp. 268-298., Registrované v: WOS
19. [1.1] CRUZ-JIMENEZ, G. - LOREDO-PORTALES, R. - DEL RIO-SALAS, R. - MORENO-RODRIGUEZ, V - CASTILLO-MICHEL, H. - RAMIRO-BAUTISTA, L. R. - AQUILANTI, G. - DE LA ROSA-ALVAREZ, Ma G. - ROCHA-AMADOR, D. O. *Multi-synchrotron techniques to constrain mobility and speciation of Zn associated with historical mine tailings. In CHEMICAL GEOLOGY. ISSN 0009-2541*, 2020, vol. 558, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemgeo.2020.119866>., Registrované v: WOS
20. [1.1] DE CARVALHO, Lais Pessanha - HELD, Jana - TENORIO DE MELO, Edesio Jose. *Essential and nonessential metal effects on extracellular Leishmania amazonensis in vitro. In EXPERIMENTAL PARASITOLOGY. ISSN 0014-4894*, 2020, vol. 209, no., pp. Dostupné na: <https://doi.org/10.1016/j.exppara.2019.107826>., Registrované v: WOS
21. [1.1] DHAKSHINAMOORTHY, Amarajothi - NAVALON, Sergio - ASIRI, Abdullah M. - GARCIA, Hermenegildo. *Gold-Nanoparticle-Decorated Metal-Organic Frameworks for Anticancer Therapy. In CHEMMEDCHEM. ISSN 1860-7179*, 2020, vol. 15, no. 23, pp. 2236-2256. Dostupné na: <https://doi.org/10.1002/cmdc.202000562>., Registrované v: WOS
22. [1.1] DOBRITZSCH, Dirk - GRANCHAROV, Konstantin - HERMSEN, Corinna - KRAUSS, Gerd-Joachim - SCHAUMLOFFEL, Dirk. *Inhibitory effect of metals on animal and plant glutathione transferases. In JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY. ISSN 0946-672X*, 2020, vol. 57, no., pp. 48-56. Dostupné na: <https://doi.org/10.1016/j.jtemb.2019.09.007>., Registrované v: WOS
23. [1.1] DU, Jie - ZENG, Jian - MING, Xiaoyu - HE, Qinglin - TAO, Qi - JIANG, Mingyan - GAO, Suping - LI, Xi - LEI, Ting - PAN, Yuanzhi - CHEN, Qibing - LIU, Shiliang - YU, Xiaofang. *The presence of zinc reduced cadmium uptake and translocation in Cosmos bipinnatus seedlings under cadmium/zinc combined stress. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428*, 2020, vol. 151, no., pp. 223-232. Dostupné na: <https://doi.org/10.1016/j.plaphy.2020.03.019>., Registrované v: WOS
24. [1.1] EID, Ebrahim M. - ALAMRI, Saad A. M. - SHALTOUT, Kamal H. - GALAL, Tarek M. - AHMED, Mohamed T. - BRIMA, Eid L. - SEWELAM, Nasser. *A sustainable food security approach: Controlled land application of sewage sludge recirculates nutrients to agricultural soils and enhances crop productivity. In FOOD AND ENERGY SECURITY. ISSN 2048-3694*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.1002/fes3.197>., Registrované v: WOS
25. [1.1] ELSHEERY, Nabil I. - HELALY, Mohamed N. - EL-HOSEINY, Hanan M. - ALAM-ELDEIN, Shamel M. *Zinc Oxide and Silicone Nanoparticles to Improve the Resistance Mechanism and Annual Productivity of Salt-Stressed Mango Trees. In AGRONOMY-BASEL*, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/agronomy10040558>., Registrované v: WOS
26. [1.1] EMILIANI, Julia - LLATANCE OYARCE, Wendi G. - DANIELA BERGARA, C. - SALVATIERRA, Lucas M. - NOVO, Luis A. B. - PEREZ, Leonardo M. *Variations in the Phytoremediation Efficiency of Metal-polluted Water with Salvinia biloba: Prospects and Toxicological Impacts. In WATER*, 2020, vol. 12, no. 6, pp. Dostupné na: <https://doi.org/10.3390/w12061737>., Registrované v: WOS

27. [1.1] FAIZAN, Mohammad - FARAZ, Ahmad - HAYAT, Shamsul. Effective use of zinc oxide nanoparticles through root dipping on the performance of growth, quality, photosynthesis and antioxidant system in tomato. In *JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0971-7811, 2020, vol. 29, no. 3, pp. 553-567. Dostupné na: <https://doi.org/10.1007/s13562-019-00525-z>, Registrované v: WOS
28. [1.1] FARAHZADI, Helal Nemat - ARBABIAN, Sedigheh - MAID, Ahamd - TAJADOD, Golnaz. Long-term Effect Different Concentrations of Zn (NO₃)(2) on the Development of Male and Female Gametophytes of *Capsicum annuum* L. var California Wonder. In *CARYOLOGIA*. ISSN 0008-7114, 2020, vol. 73, no. 1, pp. 145-154. Dostupné na: <https://doi.org/10.13128/caryologia-174>, Registrované v: WOS
29. [1.1] FATEMI, Hamideh - ZAGHDOUD, Chokri - NORTES, Pedro A. - CARVAJAL, Micaela - DEL CARMEN MARTINEZ-BALLESTA, Maria. Differential Aquaporin Response to Distinct Effects of Two Zn Concentrations after Foliar Application in Pak Choi (*Brassica rapa* L.) Plants. In *AGRONOMY-BASEL*, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/agronomy10030450>, Registrované v: WOS
30. [1.1] GRASSI, Chiara - CECCHI, Stefano - BALDI, Ada - ZANCHI, Camillo A. - ORLANDINI, Simone - PARDINI, Andrea - NAPOLI, Marco. Crop suitability assessment in remediation of Zn contaminated soil. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125706>, Registrované v: WOS
31. [1.1] GUARINO, Francesco - IMPROTA, Giovanni - TRIASSI, Maria - CICALATELLI, Angela - CASTIGLIONE, Stefano. Effects of Zinc Pollution and Compost Amendment on the Root Microbiome of a Metal Tolerant Poplar Clone. In *FRONTIERS IN MICROBIOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01677>, Registrované v: WOS
32. [1.1] HACISALIHOGU, Gokhan. Zinc (Zn): The Last Nutrient in the Alphabet and Shedding Light on Zn Efficiency for the Future of Crop Production under Suboptimal Zn. In *PLANTS-BASEL*, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/plants9111471>, Registrované v: WOS
33. [1.1] HAGHIGHATJOU, Maryam - SHIRVANI, Mehran. Sugarcane Bagasse Biochar: Preparation, Characterization, and Its Effects on Soil Properties and Zinc Sorption-desorption. In *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*. ISSN 0010-3624, 2020, vol. 51, no. 10, pp. 1391-1405. Dostupné na: <https://doi.org/10.1080/00103624.2020.1763383>, Registrované v: WOS
34. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Optimizing zinc seed priming for improving the growth, yield and grain biofortification of mungbean (*Vigna radiata* (L.) wilczek). In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2020, vol. 43, no. 10, pp. 1438-1446. Dostupné na: <https://doi.org/10.1080/01904167.2020.1730895>, Registrované v: WOS
35. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Zinc Nutrition for Improving the Productivity and Grain Biofortification of Mungbean. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9508, 2020, vol. 20, no. 3, pp. 1321-1335. Dostupné na: <https://doi.org/10.1007/s42729-020-00215-z>, Registrované v: WOS
36. [1.1] HONG, Kibeom - SONG, Daesun - JUNG, Yongwon. Behavior control of membrane-less protein liquid condensates with metal ion-induced phase separation. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11,

- no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-19391-8>,
Registrované v: WOS
37. [1.1] HUANG, Sheng - MA, Jian Feng. Silicon suppresses zinc uptake through down-regulating zinc transporter gene in rice. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2020, vol. 170, no. 4, pp. 580-591. Dostupné na: <https://doi.org/10.1111/ppl.13196>, Registrované v: WOS
38. [1.1] JIA, Xumei - ZHU, Yanfang - ZHANG, Rui - ZHU, Zulei - ZHAO, Tong - CHENG, Li - GAO, Liyang - LIU, Bing - ZHANG, Xiayi - WANG, Yanxiu. Ionomic and metabolomic analyses reveal the resistance response mechanism to saline-alkali stress in *Malus halliana* seedlings. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2020, vol. 147, no., pp. 77-90. Dostupné na: <https://doi.org/10.1016/j.plaphy.2019.12.001>, Registrované v: WOS
39. [1.1] JIMENEZ-ROSADO, Mercedes - PEREZ-PUYANA, Victor - RUBIO-VALLE, Jose Fernando - GUERRERO, Antonio - ROMERO, Alberto. Evaluation of Superabsorbent Capacity of Soy Protein-Based Bioplastic Matrices with Incorporated Fertilizer for Crops. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2020, vol. 28, no. 10, pp. 2661-2668. Dostupné na: <https://doi.org/10.1007/s10924-020-01811-x>, Registrované v: WOS
40. [1.1] JIMENEZ-ROSADO, Mercedes - PEREZ-PUYANA, Victor - RUBIO-VALLE, Jose Fernando - GUERRERO, Antonio - ROMERO, Alberto. Processing of biodegradable and multifunctional protein-based polymer materials for the potential controlled release of zinc and water in horticulture. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2020, vol. 137, no. 46, pp. Dostupné na: <https://doi.org/10.1002/app.49419>, Registrované v: WOS
41. [1.1] KAYA, Muammer - HUSSAINI, Shokrullah - KURSUNOGLU, Sait. Critical review on secondary zinc resources and their recycling technologies. In *HYDROMETALLURGY*. ISSN 0304-386X, 2020, vol. 195, no., pp. Dostupné na: <https://doi.org/10.1016/j.hydromet.2020.105362>, Registrované v: WOS
42. [1.1] KOMISSAROV, A. A. - SHCHEKA, O. L. - TIKHONOV, S. A. - KOROCHENTSEV, V. V. - SAMOILOV, I. S. - VOVNA, V. Electronic structure and nature of the metal-ligand chemical bond of Be, Mg, and Zn beta-diketonates by quantum chemistry methods. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2020, vol. 1204, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2019.127540>, Registrované v: WOS
43. [1.1] KUTLU, Imren - GULMEZOGLU, Nurdilek. Morpho-agronomic characters of oat growing with humic acid and zinc application in different sowing times. In *PLANT SCIENCE TODAY*. ISSN 2348-1900, 2020, vol. 7, no. 4, pp. 594-600. Dostupné na: <https://doi.org/10.14719/pst.2020.7.4.861>, Registrované v: WOS
44. [1.1] LAL, Banwari - GAUTAM, Priyanka - NAYAK, Amaresh Kumar - MAHARANA, Sanghamitra - TRIPATHI, Rahul - SHAHID, Mohammad - BAIG, Mirza Jaynul - RAJA, Rajagounder - KATO, Yoichiro - KUMAR SRIVASTAVA, Ashish - SINGH, Sudhanshu. Tolerant varieties and exogenous application of nutrients can effectively manage drought stress in rice. In *ARCHIVES OF AGRONOMY AND SOIL SCIENCE*. ISSN 0365-0340, 2020, vol. 66, no. 1, pp. 13-32. Dostupné na: <https://doi.org/10.1080/03650340.2019.1587749>, Registrované v: WOS
45. [1.1] LEIBAR-PORCEL, Estibaliz - MCAINSH, Martin R. - DODD, Ian C. Elevated Root-Zone Dissolved Inorganic Carbon Alters Plant Nutrition of Lettuce and Pepper Grown Hydroponically and Aeroponically. In *AGRONOMY-BASEL*, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/agronomy10030403>, Registrované v: WOS

46. [1.1] LI, Guangxin - LI, Chang - RENGEL, Zed - LIU, Hongen - ZHAO, Peng. Title: Excess Zn-induced changes in physiological parameters and expression levels of TaZips in two wheat genotypes. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 177, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104133>., Registrované v: WOS
47. [1.1] LI, Shi-Zhen - ZHU, Xiang-Kun - WU, Long-Hua - LUO, Yong-Ming. Zinc, iron, and copper isotopic fractionation in *Elsholtzia splendens* Nakai: A study of elemental uptake and (re)translocation mechanisms. In JOURNAL OF ASIAN EARTH SCIENCES. ISSN 1367-9120, 2020, vol. 192, no., pp. Dostupné na: <https://doi.org/10.1016/j.jseas.2020.104227>., Registrované v: WOS
48. [1.1] LI, X. B. - SUO, H. C. - LIU, J. T. - WANG, L. - LI, C. C. - LIU, W. Genome-wide identification and expression analysis of the potato ZIP gene family under Zn-deficiency. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2020, vol. 64, no., pp. 845-855. Dostupné na: <https://doi.org/10.32615/bp.2020.125>., Registrované v: WOS
49. [1.1] LI, Xiao Shuang - SONG, Li Li. The role of ABA in the responses of wild-type and abscisic acid mutants of *Arabidopsis thaliana* to excess zinc. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, 2020, vol. 42, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03067-3>., Registrované v: WOS
50. [1.1] LITTON, Creighton M. - GIARDINA, Christian P. - FREEMAN, Kristen R. - SELMANTS, Paul C. - SPARKS, Jed P. Impact of Mean Annual Temperature on Nutrient Availability in a Tropical Montane Wet Forest. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00784>., Registrované v: WOS
51. [1.1] LOPEZ-BERGES, Manuel S. ZafA-mediated regulation of zinc homeostasis is required for virulence in the plant pathogen *Fusarium oxysporum*. In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, 2020, vol. 21, no. 2, pp. 244-249. Dostupné na: <https://doi.org/10.1111/mpp.12891>., Registrované v: WOS
52. [1.1] MANARA, Anna - FASANI, Elisa - FURINI, Antonella - DALCORSO, Giovanni. Evolution of the metal hyperaccumulation and hypertolerance traits. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2020, vol. 43, no. 12, pp. 2969-2986. Dostupné na: <https://doi.org/10.1111/pce.13821>., Registrované v: WOS
53. [1.1] MISHRA, Bhoopesh - MCDONALD, Louis M. - ROY, Mimi - LANZIROTTI, Antonio - MYNENI, Satish C. B. Uptake and speciation of zinc in edible plants grown in smelter contaminated soils. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 4, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0226180>., Registrované v: WOS
54. [1.1] MONTOYA, Monica - VALLEJO, Antonio - RECIO, Jaime - GUARDIA, Guillermo - MANUEL ALVAREZ, Jose. Zinc-nitrogen interaction effect on wheat biofortification and nutrient use efficiency. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2020, vol. 183, no. 2, pp. 169-179. Dostupné na: <https://doi.org/10.1002/jpln.201900339>., Registrované v: WOS
55. [1.1] MORENO-LORA, Aurora - DELGADO, Antonio. Factors determining Zn availability and uptake by plants in soils developed under Mediterranean climate. In GEODERMA. ISSN 0016-7061, 2020, vol. 376, no., pp. Dostupné na: <https://doi.org/10.1016/j.geoderma.2020.114509>., Registrované v: WOS
56. [1.1] MORINA, Filis - MISHRA, Archana - MIJOVILOVICH, Ana - MATOUSKOVA, Sarka - BRUECKNER, Dennis - SPAK, Josef - KUPPER, Hendrik. Interaction Between Zn Deficiency, Toxicity and Turnip Yellow Mosaic Virus Infection in *Nocca ochroleuca*. In FRONTIERS IN PLANT SCIENCE.

- ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na:
<https://doi.org/10.3389/fpls.2020.00739>., Registrované v: WOS
57. [1.1] NADEEM, Faisal - AZHAR, Muhammad - ANWAR-UL-HAQ, Muhammad - SABIR, Muhammad - SAMREEN, Tayyaba - TUFAIL, Abdullah - AWAN, Hafiz Umair Masood - JUAN, Wu. Comparative Response of Two Rice (*Oryza sativa* L.) Cultivars to Applied Zinc and Manganese for Mitigation of Salt Stress. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9508, 2020, vol. 20, no. 4, pp. 2059-2072. Dostupné na:
<https://doi.org/10.1007/s42729-020-00275-1>., Registrované v: WOS
58. [1.1] NDOUR, Papa Mamadou Sitor - HEULIN, Thierry - ACHOUAK, Wafa - LAPLAZE, Laurent - COURNAC, Laurent. The rhizosheath: from desert plants adaptation to crop breeding. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 456, no. 1-2, pp. 1-13. Dostupné na: <https://doi.org/10.1007/s11104-020-04700-3>., Registrované v: WOS
59. [1.1] OLUWADARE, David A. - CARNEY, Helen E. - SARKER, Mosharraf H. - ENNIS, Christopher J. Kinetics of water-extractable zinc release from seaweed (*Fucus serratus*) as soil amendment. In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2020, vol. 183, no. 2, pp. 136-143. Dostupné na: <https://doi.org/10.1002/jpln.201900398>., Registrované v: WOS
60. [1.1] OPOKU, Philipa - GIKUNOO, Emmanuel - ARTHUR, Emmanuel Kwesi - FOLI, Gordon. Removal of selected heavy metals and metalloids from an artisanal gold mining site in Ghana using indigenous plant species. In *COGENT ENVIRONMENTAL SCIENCE*. ISSN 2331-1843, 2020, vol. 6, no. 1, pp. Dostupné na: <https://doi.org/10.1080/23311843.2020.1840863>., Registrované v: WOS
61. [1.1] OTLEWSKA, Anna - MIGLIORE, Melania - DYBKA-STEPIEN, Katarzyna - MANFREDINI, Andrea - STRUSZCZYK-SWITA, Katarzyna - NAPOLI, Rosario - BIALKOWSKA, Aneta - CANFORA, Loredana - PINZARI, Flavia. When Salt Meddles Between Plant, Soil, and Microorganisms. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.553087>., Registrované v: WOS
62. [1.1] PACZKA, Grzegorz - MAZUR-PACZKA, Anna - GARCZYNSKA, Mariola - KOSTECKA, Joanna - BUTT, Kevin R. Effects of Vermireactor Modifications on the Welfare of Earthworms *Eisenia fetida* (Sav.) and Properties of Vermicomposts. In *AGRICULTURE-BASEL*, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/agriculture10100481>., Registrované v: WOS
63. [1.1] PALUSINSKA, Malgorzata - BARABASZ, Anna - KOZAK, Katarzyna - PAPIERNIAK, Anna - MASLINSKA, Karolina - ANTOSIEWICZ, Danuta Maria. Zn/Cd status-dependent accumulation of Zn and Cd in root parts in tobacco is accompanied by specific expression of ZIP genes. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2020, vol. 20, no. 1, pp. Dostupné na:
<https://doi.org/10.1186/s12870-020-2255-3>., Registrované v: WOS
64. [1.1] PHUPHONG, Piyawan - CAKMAK, Ismail - YAZICI, Atilla - RERKASEM, Benjavan - PROM-U-THAI, Chanakan. Shoot and root growth of rice seedlings as affected by soil and foliar zinc applications. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2020, vol. 43, no. 9, pp. 1259-1267. Dostupné na: <https://doi.org/10.1080/01904167.2020.1730900>., Registrované v: WOS
65. [1.1] PRAHARAJ, Subhashisa - SINGH, Rohitashv - SINGH, V. K. - GOUDA, Himansu Sekhar - SINGH, R. K. Effect of zinc fertilization on growth, yield attributes and yield of wheat (*Triticum aestivum*) crop under irrigated mollisol. In *INDIAN JOURNAL OF AGRICULTURAL SCIENCES*. ISSN 0019-

- 5022, 2020, vol. 90, no. 11, pp. 2108-2112., Registrované v: WOS
66. [1.1] RAJPUT, Vishnu - MINKINA, Tatiana - SUSHKOVA, Svetlana - BEHAL, Arvind - MAKSIMOV, Alexey - BLICHARSKA, Eliza - GHAZARYAN, Karen - MOVSESYAN, Hasmik - BARSOVA, Natalia. ZnO and CuO nanoparticles: a threat to soil organisms, plants, and human health. In *ENVIRONMENTAL GEOCHEMISTRY AND HEALTH*. ISSN 0269-4042, 2020, vol. 42, no. 1, pp. 147-158. Dostupné na: <https://doi.org/10.1007/s10653-019-00317-3>., Registrované v: WOS
67. [1.1] RAY, R. - DUTTA, B. - MANDAL, S. K. - GONZALEZ, A. G. - POKROVSKY, O. S. - JANA, T. K. Bioaccumulation of vanadium (V), niobium (Nb) and tantalum (Ta) in diverse mangroves of the Indian Sundarbans. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 448, no. 1-2, pp. 553-564. Dostupné na: <https://doi.org/10.1007/s11104-020-04450-2>., Registrované v: WOS
68. [1.1] RIBEIRO, Paula Godinho - MARTINS, Gabriel Caixeta - MOREIRA, Cristiano Goncalves - DE OLIVEIRA, Cynthia - ANDRADE, Maria Luiza de Carvalho - SALES, Thais Silva - CHAGAS, Wantuir Filipe Teixeira - LABORY, Claudia Regina Gontijo - DE CARVALHO, Teotonio Soares - GUILHERME, Luiz Roberto Guimaraes. Interactions of cadmium and zinc in high zinc tolerant native species *Andropogon gayanus* cultivated in hydroponics: growth endpoints, metal bioaccumulation, and ultrastructural analysis. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2020, vol. 27, no. 36, pp. 45513-45526. Dostupné na: <https://doi.org/10.1007/s11356-020-10183-7>., Registrované v: WOS
69. [1.1] RILEY, Christa L. - NEZAT, Carmen A. Controls on major ion chemistry and metals in a suburban pond fed by municipal water and treated stormwater. In *APPLIED GEOCHEMISTRY*. ISSN 0883-2927, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.apgeochem.2020.104576>., Registrované v: WOS
70. [1.1] SAITO, Shunya - UOZUMI, Nobuyuki. Calcium-Regulated Phosphorylation Systems Controlling Uptake and Balance of Plant Nutrients. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00044>., Registrované v: WOS
71. [1.1] SAMI, A. - SHAH, F. A. - ABDULLAH, M. - ZHOU, X. - YAN, Y. - ZHU, Z. - ZHOU, K. Melatonin mitigates cadmium and aluminium toxicity through modulation of antioxidant potential in *Brassica napus* L. In *PLANT BIOLOGY*. ISSN 1435-8603, 2020, vol. 22, no. 4, pp. 679-690. Dostupné na: <https://doi.org/10.1111/plb.13093>., Registrované v: WOS
72. [1.1] SAYER, Emma J. - RODTASSANA, Chadtip - SHELDRAKE, Merlin - BRECHET, Laetitia M. - ASHFORD, Oliver S. - LOPEZ-SANGIL, Luis - KERDRAON-BYRNE, Deirdre - CASTRO, Biancolini - TURNER, Benjamin L. - WRIGHT, S. Joseph - TANNER, Edmund V. J. Revisiting nutrient cycling by litterfall-Insights from 15 years of litter manipulation in old-growth lowland tropical forest. In *TROPICAL ECOSYSTEMS IN THE 21ST CENTURY*. ISSN 0065-2504, 2020, vol. 62, no., pp. 173-223. Dostupné na: <https://doi.org/10.1016/bs.aecr.2020.01.002>., Registrované v: WOS
73. [1.1] SCHEEPERS, Maxime - SPIELMANN, Julien - BOULANGER, Madeleine - CARNOL, Monique - BOSMAN, Bernard - DE PAUW, Edwin - GOORMAGHTIGH, Erik - MOTTE, Patrick - HANIKENNE, Marc. Intertwined metal homeostasis, oxidative and biotic stress responses in the *Arabidopsis frd3* mutant. In *PLANT JOURNAL*. ISSN 0960-7412, 2020, vol. 102, no. 1, pp. 34-52. Dostupné na: <https://doi.org/10.1111/tpj.14610>., Registrované v: WOS
74. [1.1] SHAFIQ, Sarfraz - ALI, Asim - SAJJAD, Yasar - ZEB, Qudsia - SHAHZAD, Muhammad - KHAN, Abdul Rehman - NAZIR, Rashid - WIDEMANN,

- Emilie. The Interplay between Toxic and Essential Metals for Their Uptake and Translocation Is Likely Governed by DNA Methylation and Histone Deacetylation in Maize. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 18, pp. Dostupné na: <https://doi.org/10.3390/ijms21186959>., Registrované v: WOS*
75. [1.1] SHARMA, Anket - SOARES, Cristiano - SOUSA, Bruno - MARTINS, Maria - KUMAR, Vinod - SHAHZAD, Babar - SIDHU, Gagan P. S. - BALI, Aditi S. - ASGHER, Mohd - BHARDWAJ, Renu - THUKRAL, Ashwani K. - FIDALGO, Fernanda - ZHENG, Bingsong. Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2020, vol. 168, no. 2, pp. 318-344. Dostupné na: <https://doi.org/10.1111/ppl.13004>., Registrované v: WOS
76. [1.1] SHI, Zuokun - WANG, Shasha - PAN, Biying - LIU, Yongkang - LI, Yan - WANG, Shigui - WANG, Su - TANG, Bin. Effects of zinc acquired through the plant-aphid-ladybug food chain on the growth, development and fertility of *Harmonia axyridis*. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 259, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2020.127497>., Registrované v: WOS
77. [1.1] SIDHU, Gagan Preet Singh - BALI, Aditi Shreeya - SINGH, Harminder Pal - BATISH, Daizy R. - KOHLI, Ravinder Kumar. Insights into the tolerance and phytoremediation potential of *Coronopus didymus* L. (Sm) grown under zinc stress. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 244, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125350>., Registrované v: WOS
78. [1.1] SKIBA, Elzbieta - MICHLEWSKA, Sylwia - PIETRZAK, Monika - WOLF, Wojciech M. Additive interactions of nanoparticulate ZnO with copper, manganese and iron in *Pisum sativum* L., a hydroponic study. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-70303-8>., Registrované v: WOS
79. [1.1] SOLEIMANNEJAD, Zahra - SADEGHIPOUR, Hamid Reza - ABDOLZADEH, Ahmad - GOLALIPOUR, Masoud. Physiological responses of white mustard grown in Zn-contaminated soils. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2020, vol. 42, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03119-8>., Registrované v: WOS
80. [1.1] SOUSA, Bruno - SOARES, Cristiano - OLIVEIRA, Francisca - MARTINS, Maria - BRANCO-NEVES, Simao - BARBOSA, Beatriz - ATAIDE, Ines - TEIXEIRA, Jorge - AZENHA, Manuel - AZEVEDO, Ricardo Antunes - FIDALGO, Fernanda. Foliar application of 24-epibrassinolide improves *Solanum nigrum* L. tolerance to high levels of Zn without affecting its remediation potential. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 244, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.125579>., Registrované v: WOS
81. [1.1] SUN, Yafei - SONG, Ke - SUN, Lijuan - QIN, Qin - JIANG, Tingting - JIANG, Qiaoming - XUE, Yong. Morpho-physiological and transcriptome analysis provide insights into the effects of zinc application on nitrogen accumulation and metabolism in wheat (*Triticum aestivum* L.). In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2020, vol. 149, no., pp. 111-120. Dostupné na: <https://doi.org/10.1016/j.plaphy.2020.01.038>., Registrované v: WOS
82. [1.1] ULLAH, Aman - FAROOQ, Muhammad - HUSSAIN, Mubshar. Improving the productivity, profitability and grain quality of kabuli chickpea with co-application of zinc and endophyte bacteria *Enterobacter* sp. MN17. In

- ARCHIVES OF AGRONOMY AND SOIL SCIENCE*. ISSN 0365-0340, 2020, vol. 66, no. 7, pp. 897-912. Dostupné na: <https://doi.org/10.1080/03650340.2019.1644501>., Registrované v: WOS
83. [1.1] ULLAH, Aman - FAROOQ, Muhammad - REHMAN, Abdul - HUSSAIN, Mubshar - SIDDIQUE, Kadambot H. M. Zinc nutrition in chickpea (*Cicer arietinum*): a review. In *CROP & PASTURE SCIENCE*. ISSN 1836-0947, 2020, vol. 71, no. 3, pp. 199-218. Dostupné na: <https://doi.org/10.1071/CP19357>., Registrované v: WOS
84. [1.1] WANG, Min - KONG, Fanmei - LIU, Rui - FAN, Qingqi - ZHANG, Xiaocun. Zinc in Wheat Grain, Processing, and Food. In *FRONTIERS IN NUTRITION*. ISSN 2296-861X, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.3389/fnut.2020.00124>., Registrované v: WOS
85. [1.1] WANG, Yanli - SEVERING, Edouard I. - KOORNNEEF, Maarten - AARTS, Mark G. M. FLC and SVP Are Key Regulators of Flowering Time in the Biennial/Perennial Species *Nocca caerulea*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.582577>., Registrované v: WOS
86. [1.1] WANG, Yuqing - HEEREMA, Richard J. - WALWORTH, James L. - DUNGAN, Barry - VANLEEUEWEN, Dawn - HOLGUIN, F. Omar. Nutraceutical Properties of Pecan Kernels Are Affected by Soil Zinc Fertilizer Application. In *HORTSCIENCE*. ISSN 0018-5345, 2020, vol. 55, no. 12, pp. 2001-2007. Dostupné na: <https://doi.org/10.21273/HORTSCI15314-20>., Registrované v: WOS
87. [1.1] WEREMCZUK, Aleksandra - PAPIERNIAK, Anna - KOZAK, Katarzyna - WILLATS, William G. T. - ANTOSIEWICZ, Danuta Maria. Contribution of NtZIP1-like, NtZIP11 and a WAK-pectin based mechanism to the formation of Zn-related lesions in tobacco leaves. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2020, vol. 176, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104074>., Registrované v: WOS
88. [1.1] WORTHY, Samantha J. - LAUGHLIN, Daniel C. - ZAMBRANO, Jenny - UMANA, Maria N. - ZHANG, Caicai - LIN, Luxiang - CAO, Min - SWENSON, Nathan G. Alternative designs and tropical tree seedling growth performance landscapes. In *ECOLOGY*. ISSN 0012-9658, 2020, vol. 101, no. 6, pp. Dostupné na: <https://doi.org/10.1002/ecy.3007>., Registrované v: WOS
89. [1.1] XIE, Ruohan - ZHAO, Jianqi - LU, Lingli - BROWN, Patrick - GUO, Jiansheng - TIAN, Shengke. Penetration of foliar-applied Zn and its impact on apple plant nutrition status: in vivo evaluation by synchrotron-based X-ray fluorescence microscopy. In *HORTICULTURE RESEARCH*. ISSN 2662-6810, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41438-020-00369-y>., Registrované v: WOS
90. [1.1] XIE, Ruohan - ZHAO, Jianqi - LU, Lingli - BROWN, Patrick - LIN, Xianyong - WEBB, Samuel M. - GE, Jun - ANTIPOVA, Olga - LI, Luxi - TIAN, Shengke. Seasonal Zinc Storage and a Strategy for Its Use in Buds of Fruit Trees(1)([OPEN]). In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2020, vol. 183, no. 3, pp. 1200-1212. Dostupné na: <https://doi.org/10.1104/pp.19.01563>., Registrované v: WOS
91. [1.1] YAN, Bofang - ISAURE, Marie-Pierre - MOUNICOU, Sandra - CASTILLO-MICHEL, Hiram - DE NOLF, Wout - NGUYEN, Christophe - CORNU, Jean-Yves. Cadmium distribution in mature durum wheat grains using dissection, laser ablation-ICP-MS and synchrotron techniques. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.113987>., Registrované v: WOS

92. [1.1] YAO, Bao-Min - CHEN, Peng - SUN, Guo-Xin. Distribution of elements and their correlation in bran, polished rice, and whole grain. In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, 2020, vol. 8, no. 2, pp. 982-992. Dostupné na: <https://doi.org/10.1002/fsn3.1379>., Registrované v: WOS

93. [1.1] ZHANG, Huihui - XU, Zisong - GUO, Kaiwen - HUO, Yuze - HE, Guoqiang - SUN, Hongwei - GUAN, Yupeng - XU, Nan - YANG, Wei - SUN, Guangyu. Toxic effects of heavy metal Cd and Zn on chlorophyll, carotenoid metabolism and photosynthetic function in tobacco leaves revealed by physiological and proteomics analysis. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2020, vol. 202, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2020.110856>., Registrované v: WOS

94. [1.1] ZHANG, Li - YAN, Minfei - LI, Hongbing - REN, Yuanyuan - SIDDIQUE, Kadambot H. M. - CHEN, Yinglong - ZHANG, Suiqi. Effects of zinc fertilizer on maize yield and water-use efficiency under different soil water conditions. In *FIELD CROPS RESEARCH*. ISSN 0378-4290, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.fcr.2020.107718>., Registrované v: WOS

95. [1.1] ZINICOVSCAIA, Inga - GUNDORINA, Svetlana - VERGEL, Konstantin - GROZDOV, Dmitrii - CIOCARLAN, Alexandru - ARICU, Aculina - DRAGALIN, Ion - CIOCARLAN, Nina. Elemental analysis of Lamiaceae medicinal and aromatic plants growing in the Republic of Moldova using neutron activation analysis. In *PHYTOCHEMISTRY LETTERS*. ISSN 1874-3900, 2020, vol. 35, no., pp. 119-127. Dostupné na: <https://doi.org/10.1016/j.phytol.2019.10.009>., Registrované v: WOS

96. [1.2] ZHANG, Wei - XUE, Yan-Fang - CHEN, Xin-Ping - ZHANG, Fu-Suo - ZOU, Chun-Qin. Zinc nutrition for high productivity and human health in intensive production of wheat. In *ADVANCES IN AGRONOMY, VOL 163*. ISSN 0065-2113, 2020, vol. 163, no., pp. 179-217. Dostupné na: <https://doi.org/10.1016/bs.agron.2020.05.004>., Registrované v: WOS

ADCA100 BRÜLL, L.P. - HEERMA, W. - THOMAS-OATES, J.E. - HAVERKAMP, J. - KOVACIK, Vladimir - KOVÁČ, P. Loss of internal 1-6 substituted monosaccharide residues from underivatized and per-O-methylated trisaccharides. In *Journal of the American Society for Mass Spectrometry*, 1997, vol. 8, p. 43.

Citácie:

1. [1.1] CHANDLER, Kevin Brown - ALAMOUD, Khalid A. - STAHL, Vanessa L. - NGUYEN, Bach-Cuc - KARTHA, Vinay K. - BAIS, Manish - NOMOTO, Kenichi - OWA, Takashi - MONTI, Stefano - KUKURUZINSKA, Maria A. - COSTELLO, Catherine E. beta-Catenin/CBP inhibition alters epidermal growth factor receptor fucosylation status in oral squamous cell carcinoma. In *MOLECULAR OMICS*, 2020, vol. 16, no. 3, pp. 195-209. Dostupné na: <https://doi.org/10.1039/d0mo00009d>., Registrované v: WOS

2. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. New strategies for profiling and characterization of human milk oligosaccharides. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786. Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>., Registrované v: WOS

ADCA101 BRÜLL, L.P. - KOVÁČIK, Vladimír - THOMAS-OATES, J.E. - HEERMA, W. - HAVERKAMP, J. Sodium-cationized oligosaccharides do not appear to undergo "internal residue loss" rearrangement processes on tandem mass spectrometry. In *Rapid Communications in Mass Spectrometry*, 1998, vol. 12, p. 1520-1532.

Citácie:

1. [1.1] CHIZHOV, A. O. - FILATOV, A. V. - PEREPELOV, A. V. - KNIREL, Y. A. *A New Example of Rearrangement Observed in the Tandem Mass Spectra of Oligosaccharides. In JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 1061-9348, 2020, vol. 75, no. 14, pp. 1842-1845. Dostupné na: <https://doi.org/10.1134/S1061934820140075>, Registrované v: WOS*
 2. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. *New strategies for profiling and characterization of human milk oligosaccharides. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786. Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>, Registrované v: WOS*
- ADCA102 BUCOVÁ, Mária - SUCHÁNKOVÁ, Magda - DZURILLA, Martin - VRLÍK, Mojmir - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - URBAN, Štefan - HORNÁKOVÁ, Edita - ŠELIGOVÁ, Marianna - DURMANOVÁ, Vladimíra - PENZ, Peter - JAVOR, Juraj - PAULOVÍČOVÁ, Ema. *Inflammatory marker sTREM-1 reflects the clinical stage and respiratory tract obstruction in allergic asthma bronchiale patients and correlates with number of neutrophils. In Mediators of Inflammation, 2012, article ID 628754, 8 p. (2011: 3.263 - IF, Q2 - JCR, 1.238 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0962-9351. Dostupné na: <https://doi.org/10.1155/2012/628754>*
- Citácie:
1. [1.1] UPCHURCH, Katherine - WIEST, Matthew - CARDENAS, Jacob - SKINNER, Jason - NATTAMI, Durgha - LANIER, Bobby - MILLARD, Mark - JOO, HyeMee - TURNER, Jacob - OH, SangKon. *Whole blood transcriptional variations between responders and non-responders in asthma patients receiving omalizumab. In CLINICAL AND EXPERIMENTAL ALLERGY. ISSN 0954-7894, 2020, vol. 50, no. 9, pp. 1017-1034. Dostupné na: <https://doi.org/10.1111/cea.13671>, Registrované v: WOS*
- ADCA103 BUČEKOVÁ, Marcela - JARDEKOVÁ, Lucia - JURICOVÁ, Valéria - BUGÁROVÁ, Veronika - DI MARCO, Gabriele - GISMONDI, Angelo - LEONARDI, Donatella - FARKAŠOVSKÁ, Jarmila - GODOČÍKOVÁ, Jana - LAHO, Maroš - KLAUDINY, Jaroslav - MAJTÁN, Viktor - CANINI, Antonella - MAJTÁN, Juraj**. *Antibacterial activity of different blossom honeys: New findings. In Molecules, 2019, vol. 24, no. 8, no. 1573. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules24081573>*
- Citácie:
1. [1.1] CEBRERO, G. - SANHUEZA, O. - PEZOA, M. - BAEZ, M.E. - MARTINEZ, J. - BAEZ, M. - FUENTES, E. *Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In FOOD CHEMISTRY. ISSN 0308-8146, JUN 15 2020, vol. 315., Registrované v: WOS*
 2. [1.1] CILIA, G. - FRATINI, F. - MARCHI, M. - SAGONA, S. - TURCHI, B. - ADAMCHUK, L. - FELICOLI, A. - KACANIOVA, M. *Antibacterial Activity of Honey Samples from Ukraine. In VETERINARY SCIENCES. DEC 2020, vol. 7, no. 4., Registrované v: WOS*
 3. [1.1] COMBARROS-FUERTE, P. - ESTEVINHO, L.M. - TEIXEIRA-SANTOS, R. - RODRIGUES, A.G. - PINA-VAZ, C. - FRESNO, J.M. - TORNADIJO, M.E. *Antibacterial Action Mechanisms of Honey: Physiological Effects of Avocado, Chestnut, and Polyfloral Honey upon Staphylococcus aureus and Escherichia coli. In MOLECULES. MAR 1 2020, vol. 25, no. 5., Registrované v: WOS*
 4. [1.1] COMBARROS-FUERTE, P. - FRESNO, J.M. - ESTEVINHO, M.M. -

SOUSA-PIMENTA, M. - TORNADIJO, M.E. - ESTEVINHO, L.M. Honey: Another Alternative in the Fight against Antibiotic-Resistant Bacteria?. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

5. [1.1] GREEN, K.J. - DODS, K. - HAMMER, K.A. Development and validation of a new microplate assay that utilises optical density to quantify the antibacterial activity of honeys including Jarrah, Marri and Manuka. In *PLOS ONE*. ISSN 1932-6203, DEC 9 2020, vol. 15, no. 12., Registrované v: WOS

6. [1.1] HBIBI, A. - SIKKOU, K. - KHEDID, K. - EL HAMZAOU, S. - BOUZIANE, A. - BENAZZA, D. Antimicrobial activity of honey in periodontal disease: a systematic review. In *JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY*. ISSN 0305-7453, APR 2020, vol. 75, no. 4, p. 807-826., Registrované v: WOS

7. [1.1] KARAPETSAS, A. - VOULGARIDOU, G.P. - ILIADI, D. - TSOCHANTARIDIS, I. - MICHAIL, P. - KYNIGOPOULOS, S. - LAMBROPOULOU, M. - STAVROPOULOU, M.I. - STATHOPOULOU, K. - KARABOURNIOTI, S. - ALIGIANNIS, N. - GARDIKIS, K. - GALANIS, A. - PANAYIOTIDIS, M.I. - PAPPA, A. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In *ANTIOXIDANTS*. JUL 2020, vol. 9, no. 7., Registrované v: WOS

8. [1.1] MARTINENGHI, L.D. - JONSSON, R. - LUND, T. - JENSSEN, H. Isolation, Purification, and Antimicrobial Characterization of Cannabidiolic Acid and Cannabidiol from *Cannabis sativa* L.. In *BIOMOLECULES*. JUN 2020, vol. 10, no. 6., Registrované v: WOS

9. [1.1] MASOURA, M. - PASSARETTI, P. - OVERTON, T.W. - LUND, P.A. - GKATZIONIS, K. Use of a model to understand the synergies underlying the antibacterial mechanism of H₂O₂-producing honeys. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, OCT 19 2020, vol. 10, no. 1., Registrované v: WOS

10. [1.1] NOLAN, V.C. - HARRISON, J. - WRIGHT, J.E.E. - COX, J.A.G. Clinical Significance of Manuka and Medical-Grade Honey for Antibiotic-Resistant Infections: A Systematic Review. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

11. [1.1] SAHIN, H. - KOLAYLI, S. - BEYKAYA, M. Investigation of Variations of Invertase and Glucose Oxidase Degrees against Heating and Timing Options in Raw Honeys. In *JOURNAL OF CHEMISTRY*. ISSN 2090-9063, MAR 27 2020, vol. 2020., Registrované v: WOS

12. [1.2] ZHANG, Xin - TANG, Xiangyou - SONG, Huali - SHI, Peng - HAO, Yuhui. Research progress on radioprotective effects of bee products. In *Chinese Journal of Radiological Medicine and Protection*. ISSN 02545098, 2020-08-25, 40, 8, pp. 648-652., Registrované v: SCOPUS

13. [1.2] ČEKŠTERYTĚ, Violeta - KURTINAITIENĖ, Bogumila - JAŠKŪNĖ, Kristina - KRETAVIČIUS, Justinas. The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In *Journal of Apicultural Research*. ISSN 00218839, 2020-10-19, 59, 5, pp. 862-875., Registrované v: SCOPUS

ADCA104 BUČEKOVÁ, Marcela - SOJKA, Martin - VALACHOVÁ, Ivana - MARTINOTTI, S. - RANZATO, E. - SZEP, Z. - MAJTAN, V. - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Bee-derived antibacterial peptide, defensin-1, promotes wound re-epithelialisation in vitro and in vivo. In *Scientific Reports*, 2017, vol. 7, no. 1, art. no. 7340. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-017-07494-0>

Citácie:

1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. *New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2., Registrované v: WOS*
2. [1.1] KUREK-GORECKA, A. - GORECKI, M. - RZEPECKA-STOJKO, A. - BALWIERZ, R. - STOJKO, J. *Bee Products in Dermatology and Skin Care. In MOLECULES. FEB 1 2020, vol. 25, no. 3., Registrované v: WOS*
3. [1.1] LIN, Y. - ZHANG, M. - WANG, L.Y. - LIN, T.X. - WANG, G.G. - PENG, J.H. - SU, S.K. *The in vitro and in vivo wound-healing effects of royal jelly derived from Apis mellifera L. during blossom seasons of Castanea mollissima Bl. and Brassica napus L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES. NOV 23 2020, vol. 20, no. 1., Registrované v: WOS*
4. [1.1] LIN, Yan - ZHANG, Meng - WANG, Luying - LIN, Tianxing - WANG, Guangao - PENG, Jianhua - SU, Songkun. *The in vitro and in vivo wound-healing effects of royal jelly derived from Apis mellifera L. during blossom seasons of Castanea mollissima Bl. and Brassica napus L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12906-020-03138-5>, Registrované v: WOS*
5. [1.1] MONTAZER, M. - NAVAELI, T. - RAD, M.M. *Preparation of a naturally driven cotton wound dressing via honey, Tragacanth and Sumac. In INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH. ISSN 0971-0426, SEP 2020, vol. 45, no. 3, p. 260-266., Registrované v: WOS*
6. [1.1] PENG, Y.Y. - LI, L.H. - YUAN, Q.Y. - GU, P. - YOU, Z.W. - ZHUANG, A. - BI, X.P. *Effect of Bifunctional beta Defensin 2-Modified Scaffold on Bone Defect Reconstruction. In ACS OMEGA. ISSN 2470-1343, MAR 3 2020, vol. 5, no. 8, p. 4302-4312., Registrované v: WOS*

ADCA105

BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - KOHÚTOVÁ, Lenka - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav - MAJTÁN, Juraj. *Honeybee glucose oxidase-its expression in honeybee workers and comparative analyses of its content and H₂O₂-mediated antibacterial activity in natural honeys. In Naturwissenschaften, 2014, vol. 101, no. 8, p. 661-670. (2013: 1.971 - IF, Q1 - JCR, 0.920 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0028-1042. Dostupné na: <https://doi.org/10.1007/s00114-014-1205-z> (Projekt: ITMS 26240220030 : Výskum a vývoj nových bioterapeutických metód pri liečbe niektorých závažných ochorení. VEGA 2/0178/12 : Výskum molekulárnych faktorov obrany včelstiev voči niektorým mikrobiálnym patogénom)*

Citácie:

1. [1.1] BLACKMAN, Lewis D. - OO, Zay Y. - QU, Yue - GUNATILLAKE, Pathiraja A. - CASS, Peter - LOCOCK, Katherine E. S. *Antimicrobial Honey-Inspired Glucose-Responsive Nanoreactors by Polymerization-Induced Self-Assembly. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 10, pp. 11353-11362. Dostupné na: <https://doi.org/10.1021/acsami.9b22386>, Registrované v: WOS*
2. [1.1] BRUDZYNSKI, Katrina. *A current perspective on hydrogen peroxide production in honey. A review. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 332, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127229>, Registrované v: WOS*
3. [1.1] CEBRERO, Gonzalo - SANHUEZA, Oscar - PEZOA, Matias - BAEZ, Maria E. - MARTINEZ, Jessica - BAEZ, Mauricio - FUENTES, Edwar.

- Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 315, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126296>., Registrované v: WOS*
4. [1.1] CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - JASKUNE, Kristina - KRETAVICIUS, Justinas. *The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 862-875. Dostupné na: <https://doi.org/10.1080/00218839.2020.1804118>., Registrované v: WOS*
5. [1.1] KORNECKI, Jakub F. - CARBALLARES, Diego - TARDIOLI, Paulo W. - RODRIGUES, Rafael C. - BERENGUER-MURCIA, Angel - ALCANTARA, Andres R. - FERNANDEZ-LAFUENTE, Roberto. *Enzyme production of d-gluconic acid and glucose oxidase: successful tales of cascade reactions. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2020, vol. 10, no. 17, pp. 5740-5771. Dostupné na: <https://doi.org/10.1039/d0cy00819b>., Registrované v: WOS*
6. [1.1] LIANG, Yanyan - ZHANG, Lin - QU, Yang - LI, Hui - SHI, Ben. *Antibacterial activity of buckwheat honey added with ferrous lactate against Pseudomonas aeruginosa. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2019.108624>., Registrované v: WOS*
7. [1.1] LOPEZ-URIBE, Margarita M. - RICIGLIANO, Vincent A. - SIMONE-FINSTROM, Michael. *Defining Pollinator Health: A Holistic Approach Based on Ecological, Genetic, and Physiological Factors. In ANNUAL REVIEW OF ANIMAL BIOSCIENCES, VOL 8, 2020. ISSN 2165-8102, 2020, vol. 8, no., pp. 269-294. Dostupné na: <https://doi.org/10.1146/annurev-animal-020518-115045>., Registrované v: WOS*
8. [1.1] MASOURA, Maria - PASSARETTI, Paolo - OVERTON, Tim W. - LUND, Pete A. - GKATZIONIS, Konstantinos. *Use of a model to understand the synergies underlying the antibacterial mechanism of H₂O₂-producing honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74937-6>., Registrované v: WOS*
9. [1.1] MUKHOPADHYAY, Anurup - RAJPUT, Monika - BARUI, Ananya - CHATTERJEE, Shiv Sekhar - PAL, Nishith Kumar - CHATTERJEE, Jyotirmoy - MUKHERJEE, Rabibrata. *Dual cross-linked honey coupled 3D antimicrobial alginate hydrogels for cutaneous wound healing. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 116, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.111218>., Registrované v: WOS*
10. [1.1] ZHANG, Tiffany - QU, Yue - GUNATILLAKE, Pathiraja A. - CASS, Peter - LOCOCK, Katherine E. S. - BLACKMAN, Lewis D. *Honey-inspired antimicrobial hydrogels resist bacterial colonization through twin synergistic mechanisms. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-72478-6>., Registrované v: WOS*

ADCA106 BUČKO, Marek - GEMEINER, Peter - SCHENKMAYEROVÁ, Andrea - KRAJČOVIČ, Tomáš - RUDROFF, Florian - MIHOVILOVIČ, Marko. Baeyer-Villiger oxidations: biotechnological approach. In Applied Microbiology and Biotechnology, 2016, vol. 100, p. 6585-6599. (2015: 3.376 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-016-7670-x>

Citácie:

1. [1.1] GRIMM, Christopher - LAZZAROTTO, Mattia - POMPEI, Simona - SCHICHLER, Johanna - RICHTER, Nina - FARNBERGER, Judith E. - FUCHS, Michael - KROUTIL, Wolfgang. Oxygen-Free Regioselective Biocatalytic Demethylation of Methyl-phenyl Ethers via Methyltransfer Employing Veratrol-O-demethylase. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 18, pp. 10375-10380. Dostupné na: <https://doi.org/10.1021/acscatal.0c02790>., Registrované v: WOS

2. [1.1] SHELDON, Roger A. A. - BRADY, Dean - BODE, Moira L. L. The Hitchhiker's guide to biocatalysis: recent advances in the use of enzymes in organic synthesis. In CHEMICAL SCIENCE. ISSN 2041-6520, 2020, vol. 11, no. 10, pp. 2587-2605. Dostupné na: <https://doi.org/10.1039/c9sc05746c>., Registrované v: WOS

3. [1.1] SILVA, Andre Leonardo Patricio - DA SILVA CARIDADE, Taiza Nayara - MAGALHAES, Renata Rodrigues - DE SOUSA, Kelly Teotônio - DE SOUSA, Christian Carlos - VALE, Juliana Alves. Biocatalytic production of ϵ -caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8887-8895. Dostupné na: <https://doi.org/10.1007/s00253-020-10875-7>., Registrované v: WOS

4. [1.1] SONG, Ji-Won - SEO, Joo-Hyun - OH, Doek-Kun - BORNSCHEUER, Uwe T. - PARK, Jin-Byung. Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. In CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-4753, 2020, vol. 10, no. 1, pp. 46-64. Dostupné na: <https://doi.org/10.1039/c9cy01802f>., Registrované v: WOS

ADCA107

BUČKO, Marek - VIKARTOVSKÁ, Alica - LACÍK, Igor - KOLLÁRIKOVÁ, Gabriela - GEMEINER, Peter - PĀTOPRSTÝ, Vladimír - BRYGIN, Michal. Immobilization of a whole-cell epoxide-hydrolyzing biocatalyst in sodium alginate-cellulose sulfate-poly(methylene-co-guanidine) capsules using a controlled encapsulation process. In Enzyme and Microbial Technology. - New York : Elsevier, 2005, vol. 36, p.118-126. ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2004.07.006>

Citácie:

1. [1.1] BAO, W.N. - LIAO, H.X. - CHEN, Y. - HUANG, Q.Q. - HUANG, W.D. - FANG, R. - LIU, S.W. Isolation of a novel strain *Aspergillus niger* WH-2 for production of l(+)-tartaric acid under acidic condition. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, APR 2020, vol. 42, no. 4, p. 605-612., Registrované v: WOS

2. [1.1] YOUNES, M. - AQUILINA, G. - CASTLE, L. - ENGEL, K.H. - FOWLER, P. - FERNANDEZ, M.J.F. - FURST, P. - GURTLER, R. - GUNDERT-REMY, U. - HUSOY, T. - MENNES, W. - SHAH, R. - WAALKENS-BERENDSEN, I. - WOLFLE, D. - BOON, P. - TOBBACK, P. - WRIGHT, M.C. - AGUILERA, J. - RINCON, A.M. - TARD, A. - MOLDEUS, P. Re-evaluation of L(+)-tartaric acid (E 334), sodium tartrates (E 335), potassium tartrates (E 336), potassium sodium tartrate (E 337) and calcium tartrate (E 354) as food additives. In EFSA JOURNAL. MAR 2020, vol. 18, no. 3., Registrované v: WOS

ADCA108

BUJDÁKOVÁ, H. - PAULOVIČOVÁ, Ema - PAULOVIČOVÁ, Lucia - ŠÍMOVÁ, Z. Participation of the *Candida albicans* surface antigen in adhesion, the first phase of biofilm development. In FEMS Immunology and medical microbiology, 2010, vol. 59, p. 485-492. (2009: 2.335 - IF, Q3 - JCR, karentované - CCC). (2010 - Current Contents). ISSN 0928-8244. Dostupné na: <https://doi.org/10.1111/j.1574-695X.2010.00713.x>

Citácie:

1. [1.1] HARPF, Verena - RAMBACH, Guenter - WUERZNER, Reinhard - LASS-FLOERL, Cornelia - SPETH, Cornelia. *Candida and Complement: New Aspects in an Old Battle*. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.01471>., Registrované v: WOS
- ADCA109 BURYI, Maksym** - BABIN, Vladimír - CHANG, Yu Ying - REMEŠ, Zdeněk - MIČOVÁ, Júlia - ŠIMEK, Daniel. Influence of precursor age on defect states in ZnO nanorods. In *Applied Surface Science*, 2020, vol. 525, art. no. 146448 [8] p. (2019: 6.182 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146448>
Citácie:
1. [1.1] CRAPANZANO, Roberta - VILLA, Irene - MOSTONI, Silvia - D'ARIENZO, Massimiliano - DI CREDICO, Barbara - FASOLI, Mauro - SCOTTI, Roberto - VEDDA, Anna. *Morphology Related Defectiveness in ZnO Luminescence: From Bulk to Nano-Size*. In *NANOMATERIALS*, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/nano10101983>., Registrované v: WOS
- ADCA110 BYSTRICKÝ, Slavomír - MALOVÍKOVÁ, Anna - STICZAY, T. Interaction of acidic polysaccharides with polylysine enantiomers. Conformation probe in solution. In *Carbohydrate Polymers*, 1991, vol. 15, p. 299-308. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(91\)90044-D](https://doi.org/10.1016/0144-8617(91)90044-D)
Citácie:
1. [1.1] VERMA, Madan L. - DHANYA, B. S. - SUKRITI - RANI, Varsha - THAKUR, Meenu - JESLIN, J. - KUSHWAHA, Rekha. *Carbohydrate and protein based biopolymeric nanoparticles: Current status and biotechnological applications*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 390-412. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.105>., Registrované v: WOS
- ADCA111 BYSTRICKÝ, Slavomír - MALOVÍKOVÁ, Anna - STICZAY, T.. Interaction of alginates and pectins with cationic polypeptides. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1990, vol. 13, p. 283-294. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(90\)90060-6](https://doi.org/10.1016/0144-8617(90)90060-6)
Citácie:
1. [1.1] KUPIKOWSKA-STOBBA, Barbara - LEWINSKA, Dorota. *Polymer microcapsules and microbeads as cell carriers for in vivo biomedical applications*. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 6, pp. 1536-1574. Dostupné na: <https://doi.org/10.1039/c9bm01337g>., Registrované v: WOS
- ADCA112 BYSTRICKÝ, Slavomír - MEDOVARSKÁ, Izabela - MACHOVÁ, Eva. Separation of different types of monosaccharides by polyacrylamide column chromatography. In *Zeitschrift für Naturforschung Section B - A Journal of Chemical Sciences*, 2011, vol. 66, p. 295-298. (2010: 0.816 - IF, Q4 - JCR, 0.317 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0932-0776.
Citácie:
1. [1.1] HUANG, Shiyu - YANG, Wenjian - HUANG, Gangliang. *Preparation and activities of selenium polysaccharide from plant such as Grifola frondosa*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 242, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116409>., Registrované v: WOS

- ADCA113 BYSTRICKÝ, Slavomír - PAVLIAK, V. - SZU, S.C. Characterization of colominic acid by circular dichroism and viscosity analysis. In *Biophysical Chemistry*, 1997, vol. 63, p. 147-152. Dostupné na: [https://doi.org/10.1016/S0301-4622\(96\)02242-9](https://doi.org/10.1016/S0301-4622(96)02242-9)
Citácie:
1. [1.1] LEI, Yanli - WU, Miaosen - WANG, Junyi - ZHANG, Hongtao - ZHAN, Xiaobei - SUN, Zhenglong - WU, Jianrong. Preparation and property of a biantenna macromolecule based on polysialic acid. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1342-1349. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.107>., Registrované v: WOS
- ADCA114 CABIB, E. - FARKAŠ, Vladimír - KOSÍK, Ondřej - BLANCO, N. - ARROYO, J. - MCPHEE, P. Assembly of the yeast cell wall: Crh1p and Crh2p act as transglycosylases in vivo and in vitro. In *Journal of Biological Chemistry*, 2008, vol. 283, p. 29859-29872. (2007: 5.581 - IF, Q1 - JCR, 4.338 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M804274200>
Citácie:
1. [1.1] BLATZER, Michael - BEAUVAIS, Anne - HENRISSAT, Bernard - LATGE, Jean-Paul. Revisiting Old Questions and New Approaches to Investigate the Fungal Cell Wall Construction. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 331-369. Dostupné na: https://doi.org/10.1007/82_2020_209., Registrované v: WOS
2. [1.1] KAPPEL, Lisa - MUNSTERKOTTER, Martin - SIPOS, Gyorgy - ESCOBAR RODRIGUEZ, Carolina - GRUBER, Sabine. Chitin and chitosan remodeling defines vegetative development and *Trichoderma* biocontrol. In *PLOS PATHOGENS*. ISSN 1553-7366, 2020, vol. 16, no. 2, pp. Dostupné na: <https://doi.org/10.1371/journal.ppat.1008320>., Registrované v: WOS
3. [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike - BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNIA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207., Registrované v: WOS
4. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In *MOLECULES*, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS
- ADCA115 CAPEK, Peter - MATULOVÁ, Mária. An arabino(glucurono)xylan isolated from immunomodulatory active hemicellulose fraction of *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2013, vol. 59, p. 396-401. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
Citácie:
1. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS
- ADCA116 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Molecular heterogeneity of arabinogalactan-protein from *Coffea arabica* instant coffee. In *International Journal of Biological Macromolecules*, 2013, vol. 59,

p. 402-407. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2013.04.077>

Citácie:

1. [1.1] RONG, A. - ZHANG, Meili - LU, Yu - ZHANG, Huijie - BAI, Xue. *The structural studies of a polysaccharide purified from Oat Lao-Chao. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2020, vol. 55, no. 12, pp. 3563-3573. Dostupné na: <https://doi.org/10.1111/ijfs.14690>., Registrované v: WOS*

ADCA117 CAPEK, Peter - PAULOVIČOVÁ, Ema - MATULOVÁ, Mária - MISLOVIČOVÁ, Danica - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. *Coffea arabica instant coffee- Chemical view and immunomodulating properties. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2014, vol. 103, p. 418-426. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.12.068>*

Citácie:

1. [1.1] LOPES, Guido R. - PASSOS, Claudia P. - RODRIGUES, Carla - TEIXEIRA, Jose A. - COIMBRA, Manuel A. *Impact of microwave-assisted extraction on roasted coffee carbohydrates, caffeine, chlorogenic acids and coloured compounds. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 129, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108864>., Registrované v: WOS*

ADCA118 CAPEK, Peter - MACHOVÁ, Eva - TURJAN, Jozef. *Scavenging, antioxidant activities of immunomodulating polysaccharides isolated from Salvia officinalis L. In International Journal of Biological Macromolecules, 2009, vol. 44, p. 75-80. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2008.10.007>*

Citácie:

1. [1.1] ALIABADI, Bahareh Ghorbani - GILANI, Neda - PASIKHANI, Javad Vahabzade - PIRBAZARI, Azadeh Ebrahimian. *Boosting the photoconversion efficiency of TiO2 nanotubes using UV radiation-assisted anodization as a prospective method: An efficient photocatalyst for eliminating resistant organic pollutants. In CERAMICS INTERNATIONAL. ISSN 0272-8842, 2020, vol. 46, no. 12, pp. 19942-19951. Dostupné na: <https://doi.org/10.1016/j.ceramint.2020.05.061>., Registrované v: WOS*

2. [1.1] DANANJAYA, S. H. S. - THAO, N. T. Thu - WIJERATHNA, H. M. S. M. - LEE, Jisoo - EDUSSURIYA, M. - CHOI, Dongrack - KUMAR, R. Saravana. *In vitro and in vivo anticandidal efficacy of green synthesized gold nanoparticles using Spirulina maxima polysaccharide. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 92, no., pp. 138-148. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.03.003>., Registrované v: WOS*

3. [1.1] POULIOS, Efthymios - VASIOS, Georgios K. *Current State of the Art on the Antioxidant Activity of Sage (Salvia spp.) and Its Bioactive Components. In PLANTA MEDICA. ISSN 0032-0943, 2020, vol. 86, no. 4, pp. 224-238. Dostupné na: <https://doi.org/10.1055/a-1087-8276>., Registrované v: WOS*

4. [1.1] TANG, Zizhong - ZHOU, Caixia - CAI, Yi - TANG, Yujia - SUN, Wenjun - YAO, Huipeng - ZHENG, Tianrun - CHEN, Hui - XIAO, Yirong - SHAN, Zhi - BU, Tongliang - WANG, Xiaoli - HUANG, Lin - GOU, Lin. *Purification, characterization and antioxidant activities in vitro of polysaccharides from Amaranthus hybridus L. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp.*

Dostupné na: <https://doi.org/10.7717/peerj.9077>., Registrované v: WOS
 5. [1.1] YANG, Ying - JI, Jing - DI, Liuqing - LI, Junsong - HU, Lihong - QIAO, Hongzhi - WANG, Lingchong - FENG, Yibin. Resource, chemical structure and activity of natural polysaccharides against alcoholic liver damages. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp.
 Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116355>., Registrované v: WOS

ADCA119 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Structural features of an arabinogalactan-protein isolated from instant coffee powder of Coffea arabica beans. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2010, vol. 80, p. 180-185. (2009: 3.167 - IF, 1.426 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2009.11.016>

Citácie:

1. [1.1] BANERJEE, Pallabi - JANA, Subrata - MUKHERJEE, Shuvam - BERA, Kaushik - MAJEE, Sujay Kumar - ALI, Imran - PAL, Saikat - RAY, Bimalendu - RAY, Sayani. The heteropolysaccharide of Mangifera indica fruit: Isolation, chemical profile, complexation with beta-lactoglobulin and antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 93-99. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.09.161>., Registrované v: WOS

2. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

3. [1.1] JANA, Subrata - MUKHERJEE, Shuvam - ALI, Imran - RAY, Bimalendu - RAY, Sayani. Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with beta-lactoglobulin of a polysaccharide from Borassus flabellifer fruit. In HELIYON, 2020, vol. 6, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e05499>., Registrované v: WOS

4. [1.1] SINGH, Baljit - KUMAR, Ajay. Exploration of arabinogalactan of gum polysaccharide potential in hydrogel formation and controlled drug delivery applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 147, no., pp. 482-492.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.087>., Registrované v: WOS

5. [1.1] SINGH, Baljit - KUMAR, Ajay. Graft and crosslinked polymerization of polysaccharide gum to form hydrogel wound dressings for drug delivery applications. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 489, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107949>., Registrované v: WOS

6. [1.1] ZHANG, Shaojie - AN, Lijun - LI, Zhengguo - WANG, Honglin - SHI, Lijuan - ZHANG, Jie - LI, Yuhao - JIN, Da-Qing - TUE RHONG, Muhetaer - OHIZUMI, Yasushi - SHUAI, Ling - XU, Jing - GUO, Yuanqiang. An active heteropolysaccharide from the rinds of Garcinia mangostana Linn.: Structural characterization and immunomodulation activity evaluation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp.

- Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115929>, Registrované v: WOS*
7. [1.1] ZHANG, Shaojie - LI, Zhengguo - WANG, Xuelian - AN, Lijun - BAO, Jiahe - ZHANG, Jie - CUI, Jianlin - LI, Yuhao - JIN, Da-Qing - TUERHONG, Muhetaer - ABUDUKEREMU, Munira - OHIZUMI, Yasushi - XU, Jing - GUO, Yuanqiang. Isolation, structural elucidation, and immunoregulation properties of an arabinofuranan from the rinds of *Garcinia mangostana*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. *Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116567>, Registrované v: WOS*
- ADCA120 CAPEK, Peter. An arabinogalactan containing 3-O-methyl-D-galactose residues isolated from the aerial parts of *Salvia officinalis* L. In *Carbohydrate Research*, 2008, vol.343, p. 1390-1393. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0008-6215. *Dostupné na: <https://doi.org/10.1016/j.carres.2008.03.026>*
- Citácie:*
1. [1.1] PFEIFER, Lukas - CLASSEN, Birgit. Validation of a Rapid GC-MS Procedure for Quantitative Distinction between 3-O-Methyl- and 4-O-Methyl-Hexoses and Its Application to a Complex Carbohydrate Sample. In *SEPARATIONS*, 2020, vol. 7, no. 3, pp. *Dostupné na: <https://doi.org/10.3390/separations7030042>, Registrované v: WOS*
- ADCA121 CAPEK, Peter. A water soluble glucomannan isolated from an immunomodulatory active polysaccharide of *Salvia Officinalis* L. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol.75, s.356-359. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617. *Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.07.017>*
- Citácie:*
1. [1.1] SHI, Xiao-Dan - YIN, Jun-Yi - CUI, Steve W. - WANG, Qi - WANG, Shao-Yun - NIE, Shao-Ping. Plant-derived glucomannans: Sources, preparation methods, structural features, and biological properties. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 99, no., pp. 101-116. *Dostupné na: <https://doi.org/10.1016/j.tifs.2020.02.016>, Registrované v: WOS*
2. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO, Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from *Salvia miltiorrhiza*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. *Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.113>, Registrované v: WOS*
- ADCA122 CAPEK, Peter - ŠUTOVSKÁ, Martina - KOČMÁLOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Chemical and pharmacological profiles of *Echinacea* complex. In *International Journal of Biological Macromolecules*, 2015, vol. 79, p. 388-391. (2014: 2.858 - IF, Q2 - JCR, 0.864 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0141-8130. *Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2015.05.010>*
- Citácie:*
1. [1.1] HOU, Ranran - XU, Tianli - LI, Qiu - YANG, Fengfang - WANG, Chunyuan - HUANG, Tingting - HAO, Zhihui. Polysaccharide from *Echinacea purpurea* reduce the oxidant stress in vitro and in vivo. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 149, no., pp. 41-50. *Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.129>, Registrované v: WOS*
- ADCA123 CAPEK, Peter - HRIBALOVA, V. - ŠVANDOVÁ, E. - EBRINGEROVÁ, Anna -

SASINKOVÁ, Vlasta - MASÁROVÁ, Jana. Characterization of immunomodulatory polysaccharides from *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2003, vol.33, p.113-119. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(03\)00075-8](https://doi.org/10.1016/S0141-8130(03)00075-8)

Citácie:

1. [1.1] TANG, Wei - LIU, Dan - YIN, Jun-Yi - NIE, Shao-Ping. Consecutive and progressive purification of food-derived natural polysaccharide: Based on material, extraction process and crude polysaccharide. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 99, no., pp. 76-87. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.02.015>., Registrované v: WOS
2. [1.1] ZHANG, Tao - SHUAI, Ming - MA, Pengcheng - HUANG, Jian - SUN, Chengxin - YAO, Xiaodong - CHEN, Zehui - MIN, Xun - YAN, Shengkai. Purification, chemical analysis and antioxidative activity of polysaccharides from pH-modified citrus pectin after dialyzation. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 128, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109513>., Registrované v: WOS

ADCA124 CAPEK, Peter - HŘÍBALOVÁ, W. Water-soluble polysaccharides from *Salvia officinalis* L. possessing immunomodulatory activity. In *Phytochemistry*, 2004, vol. 65, p. 1983-1992. ISSN 0031-9422. Dostupné na: <https://doi.org/10.1016/j.phytochem.2004.05.020>

Citácie:

1. [1.1] FARHADI, M. - HEDAYATI, M. - MANAFI, M. - KHALAJI, S. Influence of Using Sage Powder (*Salvia officinalis*) on Performance, Blood Cells, Immunity Titers, Biochemical Parameters and Small Intestine Morphology in Broiler Chickens. In *IRANIAN JOURNAL OF APPLIED ANIMAL SCIENCE*. ISSN 2251-628X, 2020, vol. 10, no. 3, pp. 509-516., Registrované v: WOS
2. [1.1] KHARE, Ruchi - UPMANYU, Neeraj - SHUKLA, Tripti - JAIN, Vishal - JHA, Megha. Compendium of *Salvia officinalis*: An Overview. In *CURRENT TRADITIONAL MEDICINE*. ISSN 2215-0838, 2020, vol. 6, no. 4, pp. 300-311. Dostupné na: <https://doi.org/10.2174/2215083805666190723095043>., Registrované v: WOS
3. [1.1] SU, Chia-Hung - THI THANH TRUC PHAM - CHENG, Hsien-Hao. Aqueous enzymatic extraction of rosmarinic acid from *Salvia officinalis*: optimisation using response surface methodology. In *PHYTOCHEMICAL ANALYSIS*. ISSN 0958-0344, 2020, vol. 31, no. 5, pp. 575-582. Dostupné na: <https://doi.org/10.1002/pca.2922>., Registrované v: WOS

ADCA125 CAPEK, Peter - KUBAČKOVÁ, M. - ALFOLDI, Juraj - BILISICS, Ladislav - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela. Galactoglucomannan from the secondary cell wall of *Picea abies* L. Karst. In *Carbohydrate Research*, 2000, vol. 329, p. 635-645. (1999: 1.252 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(00\)00210-X](https://doi.org/10.1016/S0008-6215(00)00210-X)

Citácie:

1. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - DESOBRY, Stephane - BROSSE, Nicolas. Elaboration of hemicellulose-based films: Impact of the extraction process from spruce wood on the film properties. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108111>., Registrované v: WOS
2. [1.1] FRANCILLON, Juliette - CHIRAT, Christine - BOISSET, Claire - BUON, Laurine. Multi-step purification method of water-soluble oligosaccharides produced from hardwood and softwood. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2020, vol. 74, no. 6, pp. 615-623. Dostupné na: <https://doi.org/10.1515/hf->

2019-0273., Registrované v: WOS

3. [1.1] YOPI - RAHMANI, Nanik - AMANAH, Siti - SANTOSO, Pugoh - LISDIYANTI, Puspita. The production of beta-mannanase from *Kitasatospora* sp. strain using submerged fermentation: Purification, characterization and its potential in mannoooligosaccharides production. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 24, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101532>., Registrované v: WOS

ADCA126 CAPEK, Peter - HLAVONOVÁ, E. - MATULOVÁ, Mária - MISLOVIČOVÁ, Danica - RUŽIČKA, J. - KOUTNÝ, M. - KEPRDOVÁ, L. Isolation and characterization of an extracellular glucan produced by *Leuconostoc garlicum* PR. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 83, p. 88-93. (2010: 3.463 - IF, Q1 - JCR, 1.370 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] AMARETTI, Alberto - BOTTARI, Benedetta - MORREALE, Federico - SARDARO, Maria Luisa Savo - ANGELINO, Donato - RAIMONDI, Stefano - ROSSI, Maddalena - PELLEGRINI, Nicoletta. Potential prebiotic effect of a long-chain dextran produced by *Weissella cibaria*: an in vitro evaluation. In *INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION*. ISSN 0963-7486, 2020, vol. 71, no. 5, pp. 563-571. Dostupné na: <https://doi.org/10.1080/09637486.2019.1711026>., Registrované v: WOS

2. [1.1] BARUAH, Rwivoo - GOYAL, Arun. Exopolysaccharides from Genus *Weissella* and their Functional Applications. In *MICROBIAL EXOPOLYSACCHARIDES: CURRENT RESEARCH AND DEVELOPMENTS*, 2019, vol., no., pp. 165-182. Dostupné na: <https://doi.org/10.21775/9781912530267.07>., Registrované v: WOS

3. [1.1] LI, Yang - LIU, Yiming - CAO, Chengxu - ZHU, XinYuan - WANG, Cong - WU, Rina - WU, Junrui. Extraction and biological activity of exopolysaccharide produced by *Leuconostoc mesenteroides* SN-8. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 36-44. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.150>., Registrované v: WOS

ADCA127 CAPEK, Peter - DRÁBIK, Milan - TURJAN, Jozef. Characterization of starch and its mono and hybrid derivatives by thermal analysis and FT-IR spectroscopy. In *Journal of Thermal Analysis and Calorimetry*, 2010, vol. 99, no. 2, p. 667-673. (2009: 1.587 - IF, Q3 - JCR, 0.529 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-009-0194-1>

Citácie:

1. [1.1] ABDULLAH, Ummi Habibah - AHMAD, Ishak - HAMZAH, Ainon - ROSLI, Noor Afizah. Effectiveness of Starch/Cinnamon Oil Film as Food Packaging with Antimicrobial Properties. In *SAINS MALAYSIANA*. ISSN 0126-6039, 2020, vol. 49, no. 8, pp. 1935-1945. Dostupné na: <https://doi.org/10.17576/jsm-2020-4908-15>., Registrované v: WOS

2. [1.1] QUEIROZ, Vanessa M. - KLING, Isabelle C. S. - ELTOM, Amal E. - ARCHANJO, Bráulio S. - PRADO, Maira - SIMAO, Renata Antoun. Corn starch films as a long-term drug delivery system for chlorhexidine gluconate. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2020, vol. 112, no., pp. Dostupné na: <https://doi.org/10.1016/j.msec.2020.110852>., Registrované v: WOS

3. [1.1] REQUE, Priscilla Magro - PINILLA, Cristian Mauricio Barreto -

- TINELLO, Federica - CORICH, Viviana - LANTE, Anna - GIACOMINI, Alessio - BRANDELLI, Adriano. Biochemical and functional properties of wheat middlings bioprocessed by lactic acid bacteria. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 7, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13262>., Registrované v: WOS*
- ADCA128 CAPEK, Peter** - MATULOVÁ, Mária - ŠUTOVSKÁ, Martina - BARBORÍKOVÁ, Jana - MOLITORISOVÁ, Miroslava - KAZIMIEROVÁ, Ivana. Chlorella vulgaris α -L-arabino- α -L-rhamno- α , β -D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. In International Journal of Biological Macromolecules, 2020, vol. 162, p. 188-198. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.151>
- Citácie:*
1. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. Isolation, structures and biological activities of polysaccharides from Chlorella: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>., Registrované v: WOS
- ADCA129 CLAEYSSSENS, M. - VANTILBEURGH, H. - KAMERLING, J.P. - BERG, J. - VRŠANSKÁ, Mária - BIELY, Peter. Studies of the cellulolytic system of the filamentous fungus Trichoderma reesei QM 9414 - substrate specificity and transfer activity of endoglucanase-I. In Biochemical Journal, 1990, vol.270, p. 251-256. ISSN 0264-6021.
- Citácie:*
1. [1.1] BARBOSA, Fernando Cesar - KENDRICK, Emanuele - BRENELLI, Livia Beatriz - ARRUDA, Henrique Silvano - PASTORE, Glaucia Maria - RABELO, Sarita Candida - DAMASIO, Andre - FRANCO, Telma Teixeira - LEAK, David - GOLDBECK, Rosana. Optimization of cello-oligosaccharides production by enzymatic hydrolysis of hydrothermally pretreated sugarcane straw using cellulolytic and oxidative enzymes. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 141, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105697>., Registrované v: WOS
- ADCA130 COLE, C.L. - HANSEN, S.U. - BARÁTH, Marek - RUSHTON, G. - GARDINER, J.M. - AVIZIENYTE, E. - JAYSON, G.C. Synthetic heparan sulfate oligosaccharides inhibit endothelial cell functions essential for angiogenesis. In PLoS ONE, 2010, vol. 5, art.no.e11644 (15pages. Dostupné na: <https://doi.org/10.1371/journal.pone.0011644>
- Citácie:*
1. [1.1] GULBERTI, Sandrine - MAO, Xianqing - BUI, Catherine - FOURNEL-GIGLEUX, Sylvie. The role of heparan sulfate maturation in cancer: A focus on the 3O-sulfation and the enigmatic 3O-sulfotransferases (HS3STs). In SEMINARS IN CANCER BIOLOGY. ISSN 1044-579X, 2020, vol. 62, no., pp. 68-85. Dostupné na: <https://doi.org/10.1016/j.semcancer.2019.10.009>., Registrované v: WOS
2. [1.1] KUMAR, Archana Vijaya - BREZILLON, Stephane - UNTEREINER, Valerie - SOCKALINGUM, Ganesh Dhruvananda - KATAKAM, Sampath Kumar - MOHAMED, Hossam Taha - KEMPER, Bjoern - GREVE, Burkhard - MOHR, Benedikt - IBRAHIM, Sherif Abdelaziz - GOYCOOLEA, Francisco M. - KIESEL, Ludwig - PAVAO, Mauro S. G. - MOTTA, Juliana M. - GOETTE, Martin. HS2ST1-dependent signaling pathways determine breast cancer cell viability, matrix interactions, and invasive behavior. In CANCER SCIENCE. ISSN 1347-

- 9032, 2020, vol. 111, no. 8, pp. 2907-2922. Dostupné na: <https://doi.org/10.1111/cas.14539>, Registrované v: WOS
3. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Receptor tyrosine kinases and heparan sulfate proteoglycans: Interplay providing anticancer targeting strategies and new therapeutic opportunities. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 178, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114084>, Registrované v: WOS
- ADCA131 COTÉ, G.L. - BIELY, Peter. Enzymatically produced cyclic alfa-1,3-linked and alfa-1,6-linked oligosaccharides of D-glucose. In *European Journal of Biochemistry*, 1994, vol.226, p. 641-648. ISSN 0014-2956.
- Citácie:
1. [1.1] KOHNO, Masaki - ARAKAWA, Takatoshi - SUNAGAWA, Naoki - MORI, Tetsuya - IGARASHI, Kiyohiko - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. Molecular analysis of cyclic alpha-maltosyl-(1> 6)-maltose binding protein in the bacterial metabolic pathway. In *PLOS ONE*. ISSN 1932-6203, 2020, vol. 15, no. 11, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0241912>, Registrované v: WOS
- ADCA132 ČERNÁKOVÁ, M. - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ŠUTÝ, L. - ZEMEK, Juraj - KUNIAK, Ľudovít. Biochemical similarities among strains of *Aureobasidium pullulans* (de Bary) Arnaud. In *Folia Microbiologica*, 1980, vol. 25, p. 68-73. ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02876399>
- Citácie:
1. [1.1] CAO, Weifeng - CAO, Weilei - SHEN, Fei - LUO, Jianquan - YIN, Junxiang - QIAO, Changsheng - WAN, Yinhua. Membrane-assisted beta-poly(L-malic acid) production from bagasse hydrolysates by *Aureobasidium pullulans* ipe-1. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122260>, Registrované v: WOS
- ADCA133 ČERTÍK, M. - BREIEROVÁ, Emília - JURŠÍKOVÁ, P. Effect of Cadmium on lipid composition of *Aureobasidium pullulans* grown with added extracellular polysaccharides. In *International Biodeterioration & Biodegradation*, 2005, vol. 55, p. 195-202. ISSN 0964-8305. Dostupné na: <https://doi.org/10.1016/j.ibiod.2004.11.005>
- Citácie:
1. [1.1] SEENA, Sahadevan - SOBRAL, Olimpia - CANO, Ainara. Metabolomic, functional, and ecologic responses of the common freshwater fungus *Neonectria lugdunensis* to mine drainage stress. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2020, vol. 718, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2020.137359>, Registrované v: WOS
2. [1.1] SONG, Wenjuan - YANG, Yuyi - LIANG, Xinjin - LIU, Feixue - GADD, Geoffrey Michael. Influence of metals and metalloids on the composition and fluorescence quenching of the extracellular polymeric substances produced by the polymorphic fungus *Aureobasidium pullulans*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 16, pp. 7155-7164. Dostupné na: <https://doi.org/10.1007/s00253-020-10732-7>, Registrované v: WOS
- ADCA134 ČÍPÁK, Ľuboš - MIADOKOVÁ, Eva - RAUKO, Peter - NOVOTNÝ, Ladislav - KOGAN, Grigorij - DINGOVÁ, Hana. Comparative DNA protectivity and antimutagenicity studies using DNA-topology and Ames assays. In *Toxicology in vitro*, 2001, vol. 15, p. 677-681. (2001 - Current Contents). ISSN 0887-2333. Dostupné na: [https://doi.org/10.1016/S0887-2333\(01\)00080-7](https://doi.org/10.1016/S0887-2333(01)00080-7)
[https://doi.org/10.1016/S0887-2333\(01\)00080-7](https://doi.org/10.1016/S0887-2333(01)00080-7)

Citácie:

1. [1.1] HRICOVINIOVA, J. - SEVCOVICOVA, A. - HRICOVINIOVA, Z. *Evaluation of the genotoxic, DNA-protective and antioxidant profile of synthetic alkyl gallates and gallotannins using in vitro assays. In TOXICOLOGY IN VITRO. ISSN 0887-2333, JUN 2020, vol. 65., Registrované v: WOS*

ADCA135 ČÍŽOVÁ, A. - SROKOVÁ, I. - SASINKOVÁ, Vlasta - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna. Carboxymethyl starch octenylsuccinate: Microwave- and ultrasound-assisted synthesis and properties. In *Starch-Starke*, 2008, vol. 60, p. 389-397. (2007: 1.064 - IF, Q2 - JCR, 0.672 - SJR, Q1 - SJR). ISSN 0038-9056.

Dostupné na: <https://doi.org/10.1002/star.200800221>

Citácie:

1. [1.1] FU, Xizhe - BELWAL, Tarun - CRAVOTTO, Giancarlo - LUO, Zisheng. *Sono-physical and sono-chemical effects of ultrasound: Primary applications in extraction and freezing operations and influence on food components. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2020, vol. 60, no., pp.*

Dostupné na: https://doi.org/10.1016/j.ultsonch.2019.104726., Registrované v: WOS

2. [1.1] LU, Kai - ZHU, Jian - BAO, Xianyang - LIU, Hongsheng - YU, Long - CHEN, Ling. *Effect of starch microstructure on microwave-assisted esterification. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 2550-2557. Dostupné na:*

https://doi.org/10.1016/j.ijbiomac.2020.08.099., Registrované v: WOS

3. [1.1] MAGALLANES LOPEZ, Ana M. - MANTHEY, Frank A. - SIMSEK, Senay. *Wet milling of deoxynivalenol-contaminated wheat: Effect on physicochemical properties of starch. In CEREAL CHEMISTRY. ISSN 0009-0352, 2020, vol. 97, no. 2, pp. 293-303. Dostupné na:*

https://doi.org/10.1002/cche.10245., Registrované v: WOS

ADCA136 ČÍŽOVÁ, A. - KOSCHELLA, A. - HEINZE, T. - EBRINGEROVÁ, Anna - SROKOVÁ, I. Octenylsuccinate derivatives of carboxymethyl starch - synthesis and properties. In *Starch-Starke*, 2007, vol. 59, p. 482-492. (2006: 1.136 - IF, Q2 - JCR, 0.583 - SJR, Q2 - SJR). ISSN 0038-9056. Dostupné na:

<https://doi.org/10.1002/star.200700651>

Citácie:

1. [1.1] WANG, Jinwei - REN, Fei - YU, Jinglin - WANG, Shuo - COPELAND, Les - WANG, Shujun. *Novel Green Synthesis of Octenyl Succinic Anhydride Esters of Granular Starch. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 44, pp. 16503-16514.*

Dostupné na: https://doi.org/10.1021/acssuschemeng.0c05472., Registrované v: WOS

2. [1.1] WANG, Yingjie - XIE, Zhengfei - WU, Qian - SONG, Wanying - LIU, Liang - WU, Yongning - GONG, Zhiyong. *Preparation and characterization of carboxymethyl starch from cadmium-contaminated rice. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 308, no., pp. Dostupné na:*

https://doi.org/10.1016/j.foodchem.2019.125674., Registrované v: WOS

ADCA137 ČÍŽOVÁ, Alžbeta - NEŠČÁKOVÁ, Zuzana - MALOVÍKOVÁ, Anna - BYSTRICKÝ, Slavomír. Preparation and characterization of cationic and amphoteric mannans from *Candida albicans*. In *Carbohydrate Polymers*, 2016, vol. 149, p. 1-7. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2016.04.083>

Citácie:

1. [1.1] CHANG, Ranran - TIAN, Yaoqi - YU, Zhiwei - SUN, Chunrui - JIN,

Zhengyu. Preparation and characterization of zwitterionic functionalized starch nanoparticles. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 142, no., pp. 395-403.

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.110>., Registrované v: WOS

2. [1.1] CHENG, Junwen - SONG, Jiling - LIU, Yu - LU, Na - WANG, Yanbin - HU, Chuanjiu - HE, Liang - WEI, Hailong - LV, Guoying - YANG, Saorong - ZHANG, Zuofa. Conformational properties and biological activities of alpha-D-mannan from *Sanghuangporus sanghuang* in liquid culture. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 3568-3579. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.08.112>., Registrované v: WOS

ADCA138

DAMBORSKÁ, Dominika - KASÁK, Peter - KUBÁNIKOVÁ, Petra - SOKOL, Roman - TKÁČ, Ján. Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. In *Analytica Chimica Acta*, 2016, vol. 934, p. 72-79. (2015: 4.712 - IF, Q1 - JCR, 1.469 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2016.06.043>

Citácie:

1. [1.1] CLARK, David J. - SCHNAUBELT, Michael - HOTI, Naseruddin - HU, Yingwei - ZHOU, Yangying - GOOYA, Mahta - ZHANG, Hui. Impact of Increased FUT8 Expression on the Extracellular Vesicle Proteome in Prostate Cancer Cells. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2020, vol. 19, no. 6, pp. 2195-2205. Dostupné na:

<https://doi.org/10.1021/acs.jproteome.9b00578>., Registrované v: WOS

2. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis. In *CHEMPLUSCHEM*. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>., Registrované v: WOS

3. [1.1] LENYK, Bohdan - FIGUEROA-MIRANDA, Gabriela - PAVLUSHKO, Ivan - LO, Young - TANNER, Julian A. - OFFENHAEUSSER, Andreas - MAYER, Dirk. Dual-Transducer Malaria Aptasensor Combining Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2020, vol. 7, no. 22, pp. 4594-4600. Dostupné na: <https://doi.org/10.1002/celc.202001212>., Registrované v: WOS

4. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS

5. [1.1] RAMACHANDRAN, Bini - YANG, Charles T. - DOWNS, Melanie L. Parallel Reaction Monitoring Mass Spectrometry Method for Detection of Both Casein and Whey Milk Allergens from a Baked Food Matrix. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2020, vol. 19, no. 8, pp. 2964-2976. Dostupné na: <https://doi.org/10.1021/acs.jproteome.9b00844>., Registrované v: WOS

6. [1.1] SHIPMAN, Joshua T. - NGUYEN, Hanna T. - DESAIRE, Heather. So You Discovered a Potential Glycan-Based Biomarker; Now What? We Developed a High-Throughput Method for Quantitative Clinical Glycan Biomarker Validation. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 12, pp. 6270-6276. Dostupné na: <https://doi.org/10.1021/acsomega.9b03334>., Registrované v: WOS

7. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS

8. [1.1] TRAYNOR, Sarah M. - WANG, Guan A. - PANDEY, Richa - LI, Feng - SOLEYMANI, Leyla. Dynamic Bio-Barcode Assay Enables Electrochemical Detection of a Cancer Biomarker in Undiluted Human Plasma: A Sample-In-Answer-Out Approach. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2020, vol. 59, no. 50, pp. 22617-22622. Dostupné na: <https://doi.org/10.1002/anie.202009664>., Registrované v: WOS

ADCA139 DAMBORSKÁ, Dominika - BELICKÝ, Štefan - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. In Analyst, 2016, vol. 141, p. 1044-1051. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c5an02322j>

Citácie:

1. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

ADCA140 DAMBORSKÁ, Dominika - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In Proteomics, 2016, vol. 16, p. 3085-3095. (2015: 4.079 - IF, Q1 - JCR, 1.480 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1615-9853. Dostupné na: <https://doi.org/10.1002/pmic.201500463>

Citácie:

1. [1.1] BELICKA, Ludmila. Introduction to Glycomics and Glycan Analysis. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 33-64., Registrované v: WOS

ADCA141 DAMBORSKÁ, Dominika - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - HOLAZOVÁ, Alena - LORENCOVÁ, Lenka - KASÁK, Peter - TKÁČ, Ján. Nanomaterial-based biosensors for detection of prostate specific antigen. In Microchimica Acta, 2017, vol. 184, p. 3049-3067. (2016: 4.580 - IF, Q1 - JCR, 1.111 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-017-2410-1>

Citácie:

1. [1.1] CHEN, Mingjian - TANG, Zhenwei - MA, Changbei - YAN, Ying. A fluorometric aptamer based assay for prostate specific antigen based on enzyme-assisted target recycling. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 302, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2019.127178>., Registrované v: WOS

2. [1.1] DAI, Yuxue - WANG, Xueming - ZHU, Xiaodong - LIU, Hao - WANG, Pengfei - WANG, Ximei - ZHANG, Shaohua - SUN, Yuanling - GAO, Dandan - HAN, Rui - LUO, Chuannan. Electrochemical assays for determination of H(2)O(2) and prostate-specific antigen based on a nanocomposite consisting of CeO(2)nanoparticle-decorated MnO(2)nanospheres. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na:

- <https://doi.org/10.1007/s00604-020-04403-7>, Registrované v: WOS
3. [1.1] FATTAHI, Zahra - KHOSROUSHAHI, Ahmad Yari - HASANZADEH, Mohammad. Recent progress on developing of plasmon biosensing of tumor biomarkers: Efficient method towards early stage recognition of cancer. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110850>, Registrované v: WOS
 4. [1.1] GU, Deqiang - ZHANG, Quansuo - GUO, Jingyang - MA, Tao - LI, Hongmei - JI, Juan - GOPINATH, Subash C. B. - LAKSHMIPRIYA, Thangavel - LI, Song - SHEN, Dan. Gold Nanomaterial Hybrid on PEGylated Metal Oxide Interdigitated Mini-electrode Surface to Diagnose Prostate Cancer. In *NANO*. ISSN 1793-2920, 2020, vol. 15, no. 12, pp. Dostupné na: <https://doi.org/10.1142/S1793292020501544>, Registrované v: WOS
 5. [1.1] LI, Xiaomeng - KONG, Weisu - QIN, Xia - QU, Fengli - LU, Limin. Self-powered cathodic photoelectrochemical aptasensor based on in situ-synthesized CuO-Cu₂O nanowire array for detecting prostate-specific antigen. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 6, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04277-9>, Registrované v: WOS
 6. [1.1] LIU, Juanjuan - JALALI, Mahsa - MAHSHID, Sara - WACHSMANN-HOGIU, Sebastian. Are plasmonic optical biosensors ready for use in point-of-need applications? In *ANALYST*. ISSN 0003-2654, 2020, vol. 145, no. 2, pp. 364-384. Dostupné na: <https://doi.org/10.1039/c9an02149c>, Registrované v: WOS
 7. [1.1] ORTIZ-RIANO, Edwin J. - AVILA-HUERTA, Mariana D. - MANCERA-ZAPATA, Diana L. - MORALES-NARVAEZ, Eden. Microwell plates coated with graphene oxide enable advantageous real-time immunosensing platform. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112319>, Registrované v: WOS
 8. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. In *FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING*. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>, Registrované v: WOS
 9. [1.1] REDDY, K. Koteswara - BANDAL, Harshad - SATYANARAYANA, Moru - GOUD, Kotagiri Yugender - GOBI, Kauveri Vengatajalabathy - JAYARAMUDU, Tippabattini - AMALRAJ, John - KIM, Hern. Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. In *ADVANCED SCIENCE*, 2020, vol. 7, no. 13, pp. Dostupné na: <https://doi.org/10.1002/advs.201902980>, Registrované v: WOS
 10. [1.1] SUN, Ting - XIA, Ning - YUAN, Fang - LIU, Xiaoman - CHANG, Yong - LIU, Shudi - LIU, Lin. A colorimetric method for determination of the prostate specific antigen based on enzyme-free cascaded signal amplification via peptide-copper(II) nanoparticles. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4074-5>, Registrované v: WOS
 11. [1.1] SUN, Ting - ZHANG, Yintang - ZHAO, Feng - XIA, Ning - LIU, Lin. Self-assembled biotin-phenylalanine nanoparticles for the signal amplification of surface plasmon resonance biosensors. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04461-x>, Registrované v: WOS
 12. [1.1] XIA, Ning - HUANG, Yaliang - ZHAO, Yize - WANG, Fanglin - LIU, Lin - SUN, Zhifang. Electrochemical biosensors by in situ dissolution of self-assembled nanolabels into small monomers on electrode surface. In *SENSORS*

- AND ACTUATORS B-CHEMICAL*, 2020, vol. 325, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128777>., Registrované v: WOS
- ADCA142 DAMBORSKÝ, Pavel - KOCZULA, Katarzyna M. - GALLOTA, Andrea - KATRLÍK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In *Analyst*, 2016, vol. 141, p. 6444-6448. (2015: 4.033 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/c6an01746k>
- Citácie:
- [1.1] *BAKER, Alexander N. - RICHARDS, Sarah-Jane - GUY, Collette S. - CONGDON, Thomas R. - HASAN, Muhammad - ZWETSLOOT, Alexander J. - GALLO, Angelo - LEWANDOWSKI, Jozef R. - STANSFELD, Phillip J. - STRAUBE, Anne - WALKER, Marc - CHESSA, Simona - PERGOLIZZI, Giulia - DEDOLA, Simone - FIELD, Robert A. - GIBSON, Matthew. The SARS-COV-2 Spike Protein Binds Sialic Acids and Enables Rapid Detection in a Lateral Flow Point of Care Diagnostic Device. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2020, vol. 6, no. 11, pp. 2046-2052. Dostupné na: <https://doi.org/10.1021/acscentsci.0c00855>., Registrované v: WOS*
 - [1.1] *CALABRETTA, Maria Maddalena - ZANGHERI, Martina - LOPRESIDE, Antonia - MARCHEGIANI, Elisa - MONTALI, Laura - SIMONI, Patrizia - RODA, Aldo. Precision medicine, bioanalytics and nanomaterials: toward a new generation of personalized portable diagnostics. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 8, pp. 2841-2853. Dostupné na: <https://doi.org/10.1039/c9an02041a>., Registrované v: WOS*
 - [1.2] *MAHATO, Kuldeep - PUROHIT, Buddhadev - KUMAR, Ashutosh - CHANDRA, Pranjali. Paper-based biosensors for clinical and biomedical applications: Emerging engineering concepts and challenges. In Comprehensive Analytical Chemistry. ISSN 0166526X, 2020-01-01, 89, pp. 163-188. Dostupné na: <https://doi.org/10.1016/bs.coac.2020.02.001>., Registrované v: SCOPUS*
- ADCA143 DANKO, Martin - KRONEKOVÁ, Zuzana - MRLÍK, Miroslav - OSICKA, Josef - YOUSAF, Ammar bin - MIHÁLOVÁ, Andrea - TKÁČ, Ján - KASÁK, Peter**. Sulfobetaines meet carboxybetaines: Modulation of thermo- and ion-responsivity, water structure, mechanical properties, and cell adhesion. In *Langmuir*, 2019, vol. 35, no. 5, p. 1391-1403. (2018: 3.683 - IF, Q2 - JCR, 1.209 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.8b01592>
- Citácie:
- [1.1] *ERFANI, A. - SEABERG, J. - AICHELE, C.P. - RAMSEY, J.D. Interactions between Biomolecules and Zwitterionic Moieties: A Review. In BIOMACROMOLECULES. ISSN 1525-7797, JUL 2020, vol. 21, no. 7, p. 2557-2573., Registrované v: WOS*
 - [1.1] *ISHIHARA, K. - ITO, M. - FUKAZAWA, K. - INOUE, Y. Interface of Phospholipid Polymer Grafting Layers to Analyze Functions of Immobilized Oligopeptides Involved in Cell Adhesion. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JUL 2020, vol. 6, no. 7, p. 3984-3993., Registrované v: WOS*
 - [1.1] *ISHIHARA, K. - ODA, H. - KONNO, T. Spontaneously and reversibly forming phospholipid polymer hydrogels as a matrix for cell engineering. In BIOMATERIALS. ISSN 0142-9612, FEB 2020, vol. 230., Registrované v: WOS*
 - [1.1] *TAIPALEENMAKI, E. - BRODSZKI, E. - STADLER, B. Mucopenetrating Zwitterionic Micelles. In CHEMNANOMAT. ISSN 2199-692X, MAY 2020, vol. 6, no. 5, p. 744-750., Registrované v: WOS*
- ADCA144 DAVIS, J.J. - TKÁČ, Ján - LAURENSEN, S. - FERRIGNO, P.K. Peptide aptamers

in label-free protein detection: 1. Characterization of the immobilized scaffold. In *Analytical Chemistry*, 2007, vol. 79, p. 1089-1096. (2006: 5.646 - IF, Q1 - JCR, 2.589 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac061863z>

Citácie:

1. [1.1] PARKULA, Vitaliy - BERTO, Marcello - DIACCI, Chiara - PATRAHAU, Bianca - DI LAURO, Michele - KOVTUN, Alessandro - LISCIO, Andrea - SENSI, Matteo - SAMORI, Paolo - GRECO, Pierpaolo - BORTOLOTTI, Carlo A. - BISCARINI, Fabio. *Harnessing Selectivity and Sensitivity in Electronic Biosensing: A Novel Lab-on-Chip Multigate Organic Transistor*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 13, pp. 9330-9337. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c01655>, Registrované v: WOS
2. [1.1] TANS, Roel - VAN RIJSWIJCK, Danique M. H. - DAVIDSON, Alex - HANNAM, Ryan - RICKETTS, Bryon - TACK, Cees J. - WESSELS, Hans J. C. T. - GLOERICH, Jolein - VAN GOOL, Alain J. *Affimers as an alternative to antibodies for protein biomarker enrichment*. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2020, vol. 174, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105677>, Registrované v: WOS

ADCA145 DAVIS, Jason J. - TKÁČ, Ján - HUMPHREYS, Rachel - BUXTON, Anthony T. - FERRINGO, Paul Ko - LEE, Tracy A. Peptide aptamers in label-free protein detection: 2. chemical optimization and detection of distinct protein isoforms. Rachel Humphreys, Anthony T. Buxton, Tracy A. Lee, Paul Ko Ferringo. In *Analytical Chemistry*, 2009, vol.81, p.3314-3320. (2008: 5.712 - IF, Q1 - JCR, 2.608 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac802513n>

Citácie:

1. [1.1] PARKULA, Vitaliy - BERTO, Marcello - DIACCI, Chiara - PATRAHAU, Bianca - DI LAURO, Michele - KOVTUN, Alessandro - LISCIO, Andrea - SENSI, Matteo - SAMORI, Paolo - GRECO, Pierpaolo - BORTOLOTTI, Carlo A. - BISCARINI, Fabio. *Harnessing Selectivity and Sensitivity in Electronic Biosensing: A Novel Lab-on-Chip Multigate Organic Transistor*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 13, pp. 9330-9337. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c01655>, Registrované v: WOS
2. [1.1] TANS, Roel - VAN RIJSWIJCK, Danique M. H. - DAVIDSON, Alex - HANNAM, Ryan - RICKETTS, Bryon - TACK, Cees J. - WESSELS, Hans J. C. T. - GLOERICH, Jolein - VAN GOOL, Alain J. *Affimers as an alternative to antibodies for protein biomarker enrichment*. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2020, vol. 174, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105677>, Registrované v: WOS

ADCA146 DOVINOVÁ, Ima** - HRABÁROVÁ, Eva - JANSEN, Eugene - KVANDOVÁ, Miroslava - MAJZÚNOVÁ, Miroslava - BERÉNYIOVÁ, Andrea - BARANČÍK, Miroslav**. ADMA, homocysteine and redox status improvement by 7-nitroindazole in spontaneously hypertensive rats. In *Biomedicine & Pharmacotherapy*, 2018, vol. 106, p. 1478-1483. (2017: 3.457 - IF, Q2 - JCR, 0.951 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0753-3322. Dostupné na: <https://doi.org/10.1016/j.biopha.2018.07.096> (APVV-15-0565 : Nové regulačné účinky oxidu dusnatého a ich úloha v rozvoji esenciálnej hypertenzie. APVV-0348-12 : Štúdium regulácie radikálovej a bunkovej signalizácie v hypertenzii a vplyv nových terapií na túto signalizáciu.. VEGA č. 2/0148/17 : Sledovanie kritických endogénnych biomarkerov a signálnych dráh v hypertenzii a pri kardiovaskulárnych ochoreniach. VEGA č. 2/0160/18 : Úloha Nrf2 signálnej dráhy v odpovediach srdcových buniek na patologické podnety. VEGA č. 2/0058/17

: Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov)

Citácie:

1. [1.1] HU, W.Q. - WANG, W.Y. - MA, Q. - LIU, T. - ZHANG, J.F. - ZHANG, J.C. *Blueberry anthocyanin-enriched extract ameliorates transverse aortic constriction-induced myocardial dysfunction via the DDAH1/ADMA/NO signaling pathway in mice. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, JAN 2020, vol. 21, no. 1, p. 454-462., Registrované v: WOS*

- ADCA147 DRÁFI, František - BAUEROVÁ, Katarína - VALACHOVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JURÁNEK, Ivo - BOLDYREV, A. - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Carnosine inhibits degradation of hyaluronan induced by free radical processes in vitro and improves the redox imbalance in adjuvant arthritis in vivo. In *Neuroendocrinology Letters*, 2010, vol. 31, suppl. 2, p. 96-100. (2009: 1.047 - IF, Q4 - JCR, 0.440 - SJR, Q2 - SJR). ISSN 0172-780X. (VEGA č. 2/0083/09 : Energetický metabolismus mozgu sledovaný pomocou magnetickej rezonancie ako podklad pre štúdium mechanizmov hypoxicko-ischemického poškodenia mozgu novorodenca. VEGA č. 2/0056/10 : Štúdium využitia patogén-hostiteľ glykoproteínových interakcií v boji so samotným patogénom. VEGA č. 2/0011/11 : Štúdium pôsobenia reaktívnych foriem kyslíka a dusíka na vysokomolekulový hyalurónan, synoviocyty a chondrocyty. VEGA č. 2/0045/11 : Štúdium kombinácie imunopresívnej liečby a ovplyvnenia redoxnej rovnováhy organizmu na zvieracích modeloch reumatoidnej artritídy. APVV-51-017905 : Molekulové mechanizmy pôsobenia nových liečiv ovplyvňujúcich oxidačný stres - významný etiopatogenetický faktor početných chorôb. RAMS-SAV 2010 : Regulácia syntézy cytokínov počas rozvoja zápalu v mozgu a iných tkanivách)

Citácie:

1. [1.1] IMPELLIZZERI, D. - SIRACUSA, R. - CORDARO, M. - PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. *Protective effect of a new hyaluronic acid -carnosine conjugate on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 125, art. no. 110023., Registrované v: WOS*

- ADCA148 DRUZHININA, T.N. - KUSOV, Y.Y. - SHIBAEV, V.N. - KOCHETKOV, N.K. - BIELY, Peter - KUČÁR, Štefan - BAUER, Štefan. Uridine diphosphate of 2-deoxyglucose. Chemical synthesis, enzymatic oxidation and epimerization. In *Biochimica et Biophysica Acta*, 1975, vol. 381, p. 301-307.

Citácie:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. *Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp.*

Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>, Registrované v: WOS

- ADCA149 DŘÍMALOVÁ, E. - VELEBNÝ, V. - SASINKOVÁ, Vlasta - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Degradation of hyaluronan by ultrasonication in comparison to microwave and conventional heating. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2005, vol. 61, s. 420-426. (2004: 1.710 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2005.05.035>

Citácie:

1. [1.1] AIDA, Taku Michael - OSHIMA, Minori - SHARMIN, Tanjina -

- MISHIMA, Kenji - SMITH, Richard L. Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104638>., Registrované v: WOS*
2. [1.1] *HUANG, Hao - LIANG, Qixing - WANG, Yang - CHEN, Jian - KANG, Zhen. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant Pichia pastoris. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, pp. 1621-1632. Dostupné na: <https://doi.org/10.1007/s00253-019-10282-7>., Registrované v: WOS*
- ADCA150 *ĐURANOVÁ, Miroslava, Krupalová - HIRSCH, Ján - KOLENOVÁ, Katarína - BIELY, Peter. Fungal Glucuronoyl Esterases and Substrate Uronic Acid Recognition. Katarína Kolenová, Peter Biely. In Bioscience Biotechnology and Biochemistry, 2009, vol.73, no.11, pp.2483-2487. Dostupné na: <https://doi.org/10.1271/bbb.90486>*
- Citácie:*
1. [1.1] *MENG, Qing-Shan - ZHANG, Fei - WANG, Wei - LIU, Chen-Guang - ZHAO, Xin-Qing - BAI, Feng-Wu. Engineering the Effector Domain of the Artificial Transcription Factor to Improve Cellulase Production by Trichoderma reesei. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00675>., Registrované v: WOS*
- ADCA151 *DURUKSU, G. - OZTURK, B. - BIELY, Peter - BAKIR, U. - OGEL, Z.B. Cloning, expression and characterization of endo- β -1,4-mannanase from Aspergillus fumigatus in Aspergillus sojae and Pichia pastoris. In Biotechnology Progress, 2009, vol. 25, p. 271-276. (2008: 2.108 - IF, Q1 - JCR, 0.895 - SJR, Q2 - SJR). ISSN 8756-7938. Dostupné na: <https://doi.org/10.1002/btpr.104>*
- Citácie:*
1. [1.1] *KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN, Irfan. Partial purification and characterization of a recombinant beta-mannanase from Aspergillus fumigatus expressed in Aspergillus sojae grown on carob extract. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na: <https://doi.org/10.1007/s13399-019-00487-1>., Registrované v: WOS*
2. [1.1] *LIU, Zhemin - NING, Chen - YUAN, Mingxue - YANG, Suxiao - WEI, Xinyi - XIAO, Mengshi - FU, Xiaodan - ZHU, Changliang - MOU, Haijin. High-level expression of a thermophilic and acidophilic beta-mannanase from Aspergillus kawachii IFO 4308 with significant potential in mannoooligosaccharide preparation. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122257>., Registrované v: WOS*
3. [1.1] *YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>., Registrované v: WOS*
- ADCA152 *DŽUBÁK, Petr - GURSKÁ, Soňa - BOGDANOVÁ, Kateřina - UHRÍKOVÁ, Daniela - KANJAKOVÁ, Nina - COMBET, Sophie - KLUNDA, Tomáš - KOLÁŘ, Milan - HAJDÚCH, Marian** - POLÁKOVÁ, Monika**. Antimicrobial and cytotoxic activity of (thio)alkyl hexopyranosides, nonionic glycolipid mimetics. In Carbohydrate Research, 2020, vol. 488, art. no. 107905 [11] p. (2019: 1.841 - IF, Q2*

- JCR, 0.501 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2019.107905>

Citácie:

1. [1.1] ISILAR, Ozer - BULUT, Adnan - YAGLIOGLU, Ayse Sahin - DEMIRTAS, Ibrahim - ARAT, Esra - TURK, Mustafa. *Synthesis and biological evaluation of novel urea, thiourea and squaramide diastereomers possessing sugar backbone. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107991>., Registrované v: WOS*

ADCA153 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. An overview on the application of ultrasound in extraction, separation and purification of plant polysaccharides. In *Central European Journal of Chemistry*, 2010, vol. 8, no. 2, p. 243-257. (2009: 1.065 - IF, Q3 - JCR, 0.317 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1895-1066. Dostupné na: <https://doi.org/10.2478/s11532-010-0006-2>

Citácie:

1. [1.1] FENG, Yuqin - ZHANG, Jixian - WEN, Chaoting - DZAH, Courage Sedem - JULIET, Igbokwe Chidimma - DUAN, Yuqing - ZHANG, Haihui. *Recent advances in Agaricus bisporus polysaccharides: Extraction, purification, physicochemical characterization and bioactivities. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 94, no., pp. 39-50. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.010>., Registrované v: WOS*
2. [1.1] LIN, Yuan - QI, Xingsi - LIU, Hengjian - XUE, Kuijin - XU, Shan - TIAN, Zibin. *The anti-cancer effects of fucoidan: a review of both in vivo and in vitro investigations. In CANCER CELL INTERNATIONAL, 2020, vol. 20, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12935-020-01233-8>., Registrované v: WOS*
3. [1.1] MEDLEJ, Mohammad Kazem - CHERRI, Batoul - NASSER, Ghassan - ZAVISKA, Francois - HIJAZI, Akram - LI, Suming - POCHAT-BOHATIER, Celine. *Optimization of polysaccharides extraction from a wild species of Ornithogalum combining ultrasound and maceration and their anti-oxidant properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 958-968. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.021>., Registrované v: WOS*
4. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. *Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS*
5. [1.1] POON, Jia Jun - TAN, Mei Ching - KIEW, Peck Loo. *ULTRASOUND-ASSISTED EXTRACTION IN DELIGNIFICATION PROCESS TO OBTAIN HIGH PURITY CELLULOSE. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2020, vol. 54, no. 7-8, pp. 725-734., Registrované v: WOS*
6. [1.1] SABATER, Carlos - SABATER, Victor - OLANO, Agustin - MONTILLA, Antonia - CORZO, Nieves. *Ultrasound-assisted extraction of pectin from artichoke by-products. An artificial neural network approach to pectin characterisation. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 98, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105238>., Registrované v: WOS*
7. [1.1] TRISANT, Prida Novarita - GUNARDI, Ignatius - SUMARNO. *The Influence of Hydrolysis Time in Hydrothermal Process of Cellulose from Sengon*

Wood Sawdust. In MACROMOLECULAR SYMPOSIA. ISSN 1022-1360, 2020, vol. 391, no. 1, pp. Dostupné na: <https://doi.org/10.1002/masy.202000016>., Registrované v: WOS

8. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS

ADCA154 EBRINGEROVÁ, Anna - HEINZE, T. Xylan and xylan derivatives - biopolymers with valuable properties, 1 - Naturally occurring xylans structures, procedures and properties. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2000, vol. 21, s. 542-556. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1002/1521-3927\(20000601\)21:9<542::AID-MARC542>3.0.CO;2-7](https://doi.org/10.1002/1521-3927(20000601)21:9<542::AID-MARC542>3.0.CO;2-7)

Citácie:

1. [1.1] ADSTEDT, Katarina - POPENOV, Elizabeth A. - PIERCE, Kellina J. - XIONG, Rui - GERYAK, Ren - CHERPAK, Vladyslav - NEPAL, Dhriti - BUNNING, Timothy J. - TSUKRUK, Vladimir V. Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 49, pp. Dostupné na: <https://doi.org/10.1002/adfm.202003597>., Registrované v: WOS

2. [1.1] ALTGEN, Michael - KYIRO, Suvi - PAAJANEN, Olli - RAUTKARI, Lauri. Resistance of thermally modified and pressurized hot water extracted Scots pine sapwood against decay by the brown-rot fungus *Rhodonia placenta*. In EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS. ISSN 0018-3768, 2020, vol. 78, no. 1, pp. 161-171. Dostupné na: <https://doi.org/10.1007/s00107-019-01482-z>., Registrované v: WOS

3. [1.1] ASHADUZZAMAN, Md - HALE, Michael D. - ORMONDROYD, Graham A. - SPEAR, Morwenna J. Dynamic mechanical analysis of Scots pine and three tropical hardwoods. In INTERNATIONAL WOOD PRODUCTS JOURNAL. ISSN 2042-6445, 2020, vol. 11, no. 4, pp. 189-203. Dostupné na: <https://doi.org/10.1080/20426445.2020.1799910>., Registrované v: WOS

4. [1.1] BARHOUM, Ahmed - JEEVANANDAM, Jaison - RASTOGI, Amit - SAMYN, Pieter - BOLUK, Yaman - DUFRESNE, Alain - DANQUAH, Michael K. - BECHELANY, Mikhael. Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. In NANOSCALE. ISSN 2040-3364, 2020, vol. 12, no. 45, pp. 22845-22890. Dostupné na: <https://doi.org/10.1039/d0nr04795c>., Registrované v: WOS

5. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS

6. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana -

- KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS
7. [1.1] CHEN, Hongyu - ZHANG, Shihai - KIM, Sung Woo. Effects of supplemental xylanase on health of the small intestine in nursery pigs fed diets with corn distillers'; dried grains with solubles. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2020, vol. 98, no. 6, pp. Dostupné na: <https://doi.org/10.1093/jas/skaa185>., Registrované v: WOS
8. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS
9. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aureole. Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
10. [1.1] DING, Sai-sai - ZHU, Jin-peng - WANG, Yang - WU, Bin - ZHAO, Zongpei. Immobilization of the extracellular recombinant Lucky9 xylanase from *Bacillus subtilis* enhances activity at high temperature and pH. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 12, pp. 2733-2739. Dostupné na: <https://doi.org/10.1002/2211-5463.13010>., Registrované v: WOS
11. [1.1] FORTUNATO, Moustapha - GIMBERT, Yves - ROUSSET, Elodie - LAMEIRAS, Pedro - MARTINEZ, Agathe - GATARD, Sylvain - PLANTIER-ROYON, Richard - JAROSCHIK, Florian. Diastereoselective Synthesis of Axially Chiral Xylose-Derived 1,3-Disubstituted Alkoxyallenes: Scope, Structure, and Mechanism. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2020, vol. 85, no. 16, pp. 10681-10694. Dostupné na: <https://doi.org/10.1021/acs.joc.0c01240>., Registrované v: WOS
12. [1.1] FU, Gen-Que - ZHANG, Sheng-Chun - CHEN, Ge-Gu - HAO, Xiang - BIAN, Jing - PENG, Feng. Xylan-based hydrogels for potential skin care application. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 158, no., pp. 244-250. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.235>., Registrované v: WOS
13. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (*Populus grandidentata*) and its potential in water-soluble oxygen barrier films. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na: <https://doi.org/10.1007/s10570-020-02993-2>., Registrované v: WOS
14. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na:

- <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS
15. [1.1] HU, Bin - ZHANG, Bing - XIE, Wen-luan - JIANG, Xiao-yan - LIU, Ji - LU, Qiang. Recent Progress in Quantum Chemistry Modeling on the Pyrolysis Mechanisms of Lignocellulosic Biomass. In *ENERGY & FUELS*. ISSN 0887-0624, 2020, vol. 34, no. 9, pp. 10384-10440. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.0c01948>., Registrované v: WOS
16. [1.1] HYVAKKO, Uula - MALTARI, Riku - KAKKO, Tia - KONTRO, Jussi - MIKKILA, Joona - KILPELAINEN, Petri - ENQVIST, Eric - TIKKA, Panu - HILDEN, Kristiina - NOUSIAINEN, Paula - SIPILA, Jussi. On the Effect of Hot-Water Pretreatment in Sulfur-Free Pulp of Aspen and Wheat Straw. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 1, pp. 265-273. Dostupné na: <https://doi.org/10.1021/acsomega.9b02619>., Registrované v: WOS
17. [1.1] MAMO, Gashaw. Alkaline Active Hemicellulases. In *ALKALIPHILES IN BIOTECHNOLOGY*. ISSN 0724-6145, 2020, vol. 172, no., pp. 245-291. Dostupné na: https://doi.org/10.1007/10_2019_101., Registrované v: WOS
18. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - ANCA-COUCÉ, Andres - PEREZ, Denilson da Silva - BOISSONNET, Guillaume - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 2: Torrefaction model. In *ENERGY*. ISSN 0360-5442, 2020, vol. 210, no., pp. Dostupné na: <https://doi.org/10.1016/j.energy.2020.118451>., Registrované v: WOS
19. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109647>., Registrované v: WOS
20. [1.1] MEHTA, Siddhi - JHA, Swarn - LIANG, Hong. Lignocellulose materials for supercapacitor and battery electrodes: A review. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2020.110345>., Registrované v: WOS
21. [1.1] MENG, Yan - LYU, Fengzhi - XU, Xiaojuan - ZHANG, Lina. Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2020, vol. 21, no. 5, pp. 1653-1677. Dostupné na: <https://doi.org/10.1021/acs.biomac.9b01644>., Registrované v: WOS
22. [1.1] MNICH, Ewelina - BJARNHOLT, Nanna - EUDES, Aymerick - HARHOLT, Jesper - HOLLAND, Claire - JORGENSEN, Bodil - LARSEN, Flemming Hofmann - LIU, Ming - MANAT, Renil - MEYER, Anne S. - MIKKELSEN, Jorn Dalgaard - MOTAWIA, Mohammed Saddik - MUSCHIOL, Jan - MOLLER, Birger Lindberg - MOLLER, Svenning Rune - PERZON, Alixander - PETERSEN, Bent Larsen - RAVN, Jonas Laukkonen - ULVSKOV, Peter. Phenolic cross-links: building and de-constructing the plant cell wall. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2020, vol. 37, no. 7, pp. 919-961. Dostupné na: <https://doi.org/10.1039/c9np00028c>., Registrované v: WOS
23. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In *MOLECULES*, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS
24. [1.1] NESIC, Aleksandra - CABRERA-BARJAS, Gustavo - DIMITRIJEVIC-

- BRANKOVIC, Suzana - DAVIDOVIC, Sladjana - RADOVANOVIC, Neda - DELATTRE, Cedric. Prospect of Polysaccharide-Based Materials as Advanced Food Packaging. In *MOLECULES*, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010135>., Registrované v: WOS
25. [1.1] PARK, Saerom - OH, Yujin - YUN, Jeongchel - YOO, Eunjin - JUNG, Dahun - PARK, Ki Soo - OH, Kyeong Keun - LEE, Sang Hyun. Characterization of blended cellulose/biopolymer films prepared using ionic liquid. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5101-5119. Dostupné na: <https://doi.org/10.1007/s10570-020-03152-3>., Registrované v: WOS
26. [1.1] PONTIGGIA, Daniela - BENEDETTI, Manuel - COSTANTINI, Sara - DE LORENZO, Giulia - CERVONE, Felice. Dampening the DAMPs: How Plants Maintain the Homeostasis of Cell Wall Molecular Patterns and Avoid Hyper-Immunity. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.613259>., Registrované v: WOS
27. [1.1] RANQUE, Christopher L. - STROBLE, Carol - AMICUCCI, Matthew J. - TU, Diane - DIANA, Aly - RAHMANNIA, Sofa - SURYANTO, Aghnia Husnayiani - GIBSON, Rosalind S. - SHENG, Ying - TENA, Jennyfer - HOUGHTON, Lisa A. - LEBRILLA, Carlito B. Examination of Carbohydrate Products in Feces Reveals Potential Biomarkers Distinguishing Exclusive and Nonexclusive Breastfeeding Practices in Infants. In *JOURNAL OF NUTRITION*. ISSN 0022-3166, 2020, vol. 150, no. 5, pp. 1051-1057. Dostupné na: <https://doi.org/10.1093/jn/nxaa028>., Registrované v: WOS
28. [1.1] RUTHES, Andrea C. - RUDJITO, Reskandi C. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Joseprime C. - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco. Comparative Recalcitrance and Extractability of Cell Wall Polysaccharides from Cereal (Wheat, Rye, and Barley) Brans Using Subcritical Water. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 18, pp. 7192-7204. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01764>., Registrované v: WOS
29. [1.1] SEPULCHRO, Ana Gabriela Veiga - PELLEGRINI, Vanessa O. A. - BRIGANTI, Lorenzo - DE ARAUJO, Evandro A. - DE ARAUJO, Simara S. - POLIKARPOV, Igor. Transformation of xylan into value-added biocommodities using *Thermobacillus composti* GH10 xylanase. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 247, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116714>., Registrované v: WOS
30. [1.1] SMITH, Peter J. - ORTIZ-SOTO, Maria Elena - ROTH, Christian - BARNES, William J. - SEIBEL, Juergen - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Enzymatic Synthesis of Artificial Polysaccharides. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 32, pp. 11853-11871. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c03622>., Registrované v: WOS
31. [1.1] SOMBOON, Chollada - BOONRUNG, Santhaya - KATEKAEW, Somporn - EKPRASERT, Jindarat - AIMI, Tadanori - BOONLUE, Sophon. Purification and characterization of low molecular weight alkali stable xylanase from *Neosartorya spinosa* UZ-2-11. In *MYCOSCIENCE*. ISSN 1340-3540, 2020, vol. 61, no. 3, pp. 128-135. Dostupné na: <https://doi.org/10.1016/j.myc.2020.01.004>., Registrované v: WOS
32. [1.1] THUVANDER, Johan - JONSSON, Ann-Sofi. Techno-economic impact of air sparging prior to purification of alkaline extracted wheat bran hemicelluloses by membrane filtration. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2020, vol. 253, no., pp. Dostupné na:

- <https://doi.org/10.1016/j.seppur.2020.117498>., Registrované v: WOS
33. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
34. [1.1] VILARO, Pilar - SAMPL, Carina - TEICHERT, Gundula - SCHLEMMER, Werner - HOBISCH, Mathias - WEISS, Michael - PANIZZOLO, Luis - FERREIRA, Fernando - SPIRK, Stefan. Interactions and Dissociation Constants of Galactomannan Rendered Cellulose Films with Concavalin A by SPR Spectroscopy. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123040>., Registrované v: WOS
35. [1.1] WANG, Lei - QIN, Xiangxiang - MIAO, Xueyan - CHEN, Haishan - ZHOU, Yuheng - CAI, Aihua. Synthesis and nondestructive detailed structure characterization of carboxymethyl xylan from bagasse. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2020, vol. 39, no. 4, pp. 131-144. Dostupné na: <https://doi.org/10.1080/07328303.2020.1748643>., Registrované v: WOS
36. [1.1] XIANG, Zhouyang - JIN, Xuchen - HUANG, Caoxing - LI, Lian - WU, Wanhua - QI, Haisong - NISHIYAMA, Yoshiharu. Water cast film formability of sugarcane bagasse xylans favored by side groups. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 13, pp. 7307-7320. Dostupné na: <https://doi.org/10.1007/s10570-020-03291-7>., Registrované v: WOS
37. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against Escherichia coli Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS
38. [1.1] YILMAZ-TURAN, Secil - JIMENEZ-QUERO, Amparo - MORIANA, Rosana - ARTE, Elisa - KATINA, Kati - VILAPLANA, Francisco. Cascade extraction of proteins and feruloylated arabinoxylans from wheat bran. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 333, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127491>., Registrované v: WOS
39. [1.1] ZHA, Zhengqi - LV, Yang - TANG, Huiling - LI, Tingting - MIAO, Yinghua - CHENG, Junwei - WANG, Guoqing - TAN, Yanfang - ZHU, Yan - XING, Xiao - DING, Kang - WANG, Ying - YIN, Hongping. An orally administered butyrate-releasing xylan derivative reduces inflammation in dextran sulphate sodium-induced murine colitis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 156, no., pp. 1217-1233. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.159>., Registrované v: WOS

ADCA155 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj - BERTH, G. Structural and solution properties of corn cob heteroxylans. In Carbohydrate Polymers, 1992, vol. 19, p. 99-105. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(92\)90119-B](https://doi.org/10.1016/0144-8617(92)90119-B)

Citácie:

1. [1.1] HU, Lifang - PENG, Hong - XIA, Qi - ZHANG, Yu - RUAN, Roger - ZHOU, Wenguang. Effect of ionic liquid pretreatment on the physicochemical properties of hemicellulose from bamboo. In JOURNAL OF MOLECULAR

STRUCTURE. ISSN 0022-2860, 2020, vol. 1210, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2020.128067>, Registrované v: WOS
 2. [1.1] YAN, Jipeng - OYEDEJI, Oluwafemi - LEAL, Juan H. - DONOHOE, Bryon S. - SEMELSBARGER, Troy A. - LI, Chenlin - HOOVER, Amber N. - WEBB, Erin - BOSE, Elizabeth A. - ZENG, Yining - WILLIAMS, C. Luke - SCHALLER, Kastli D. - SUN, Ning - RAY, Allison E. - TANJORE, Deepti. *Characterizing Variability in Lignocellulosic Biomass: A Review. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8059-8085. Dostupné na: <https://doi.org/10.1021/acssuschemeng.9b06263>, Registrované v: WOS*

- ADCA156 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. The effect of ultrasound on the structure and properties of the water-soluble corn hull heteroxylan. In *Ultrasonics Sonochemistry*, 1997, vol. 4, p.305-309. (1996: 1.373 - IF, karentované - CCC). (1997 - Current Contents). ISSN 1350-4177.

Citácie:

1. [1.1] LANDIM NEVES, Maria Isabel - STRIEDER, Monique Martins - VARDANEGA, Renata - SILVA, Eric Keven - MEIRELES, M. Angela A. *Biorefinery of turmeric (Curcuma longa L.) using non-thermal and clean emerging technologies: an update on the curcumin recovery step. In RSC ADVANCES, 2020, vol. 10, no. 1, pp. 112-121. Dostupné na: <https://doi.org/10.1039/c9ra08265d>, Registrované v: WOS*
 2. [1.1] LANDIM NEVES, Maria Isabel - STRIEDER, Monique Martins - VARDANEGA, Renata - SILVA, Eric Keven - MEIRELES, M. Angela A. *Biorefinery of turmeric (Curcuma longa L.) using non-thermal and clean emerging technologies: an update on the curcumin recovery step. In RSC ADVANCES, 2020, vol. 10, no. 1, pp. 112-121., Registrované v: WOS*

- ADCA157 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Effect of ultrasound on the extractibility of corn bran hemicelluloses. In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 225-229. ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(01\)00124-9](https://doi.org/10.1016/S1350-4177(01)00124-9)

Citácie:

1. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquiao Eleamen. *Xylan in drug delivery: A review of its engineered structures and biomedical applications. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208. Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>, Registrované v: WOS*
 2. [1.1] MTETWA, Michelle Dorcas - QIAN, LiSun - ZHU, HongAn - CUI, FengJie - ZAN, XinYi - SUN, WenJing - WU, Di - YANG, Yan. *Ultrasound-assisted extraction and antioxidant activity of polysaccharides from Acanthus ilicifolius. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2020, vol. 14, no. 3, pp. 1223-1235. Dostupné na: <https://doi.org/10.1007/s11694-019-00371-6>, Registrované v: WOS*
 3. [1.1] ROYE, Chiara - BULCKAEN, Karen - DE BONDT, Yamina - LIBERLOO, Inge - VAN DE WALLE, Davy - DEWETTINCK, Koen - COURTIN, Christophe M. *Side-by-side comparison of composition and structural properties of wheat, rye, oat, and maize bran and their impact on in vitro fermentability. In CEREAL CHEMISTRY. ISSN 0009-0352, 2020, vol. 97, no. 1, pp. 20-33. Dostupné na: <https://doi.org/10.1002/cche.10213>, Registrované v: WOS*

- ADCA158 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - BUCHARD, W. - DOLEGA, R. - VORWEG, W. Solution properties of water-insoluble rye-bran arabinoxylan. In *Carbohydrate Polymers : scientific and technological aspects of industrially*

important polysaccharides, 1994, vol. 24, s. 161-169. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90126-0](https://doi.org/10.1016/0144-8617(94)90126-0)

Citácie:

1. [1.1] BHATTARAI, Mamata - VALOPPI, Fabio - HIRVONEN, Sami-Pekka - HIETALA, Sami - KILPELAINEN, Petri - ASEYEV, Vladimir - MIKKONEN, Kirsi S. Time-dependent self-association of spruce galactoglucomannans depends on pH and mechanical shearing. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 102, no., pp. Dostupné na:

<https://doi.org/10.1016/j.foodhyd.2019.105607>., Registrované v: WOS

ADCA159 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - EREMEEVA, T.E.

Alternative Verfahren zur Gewinnung von Hemicellulosen des D-Xylantyps aus Laubholzer. In *Holz als Roh- und Werkstoff*, 1989, vol. 47, p. 355-358. ISSN 0018-3768. Dostupné na: <https://doi.org/10.1007/BF02606031>

Citácie:

1. [1.1] VIELL, Joern - SZEKELY, Noemi K. - MANGIAPIA, Gaetano - HOEVELMANN, Claas - MARKS, Caroline - FRIELINGHAUS, Henrich. In *operando monitoring of wood transformation during pretreatment with ionic liquids*. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 4889-4907.

Dostupné na: <https://doi.org/10.1007/s10570-020-03119-4>., Registrované v: WOS

ADCA160 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj -

HŘÍBALOVÁ, V. The immunologically active xylan from ultrasound-treated corn cobs: extractability, structure and properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1998, vol. 37, p. 231-239. (1997: 0.956 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(98\)00065-4](https://doi.org/10.1016/S0144-8617(98)00065-4)

Citácie:

1. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS

2. [1.1] DA COSTA URTIGA, Silvana Cartaxo - MARCELINO, Henrique Rodrigues - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Xylan in drug delivery: A review of its engineered structures and biomedical applications. In *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*. ISSN 0939-6411, 2020, vol. 151, no., pp. 199-208.

Dostupné na: <https://doi.org/10.1016/j.ejpb.2020.04.016>., Registrované v: WOS

3. [1.1] SILVA VIANA, Rony Lucas - PEREIRA FIDELIS, Gabriel - JANE CAMPOS MEDEIROS, Mayara - ANTONIO MORGANO, Marcelo - GABRIELA CHAGAS FAUSTINO ALVES, Monique - DOMINGUES PASSERO, Luiz Felipe - LIMA PONTES, Daniel - CORDEIRO THEODORO, Raquel - DOMINGOS ARANTES, Thales - ARAUJO SABRY, Diego - LANZI SASSAKI, Guilherme - FAGUNDES MELO-SILVEIRA, Raniere - ROCHA, Hugo Alexandre Oliveira. Green Synthesis of Antileishmanial and Antifungal Silver Nanoparticles Using Corn Cob Xylan as a Reducing and Stabilizing Agent. In *BIOMOLECULES*, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/biom10091235>., Registrované v: WOS

4. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA,

Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS

- ADCA161 EBRINGEROVÁ, Anna - ALFOLDI, Juraj - HROMÁDKOVÁ, Zdenka - PAVLOV, G.M. - HARDING, S.E. Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2000, vol. 42, p. 123-131. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(99\)00150-2](https://doi.org/10.1016/S0144-8617(99)00150-2)

Citácie:

1. [1.1] NAHUN SOLIER, Yamil - NATALI SCHNELL, Carla - NOEL CABRERA, Maria - ANGEL ZANUTTINI, Miguel - CRISTINA INALBON, Maria. Alkali-peroxide extraction of xylan from sugar cane bagasse. Characteristics and film forming capacity. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 145, no., pp. Dostupné na:

<https://doi.org/10.1016/j.indcrop.2019.112056>., Registrované v: WOS

- ADCA162 EBRINGEROVÁ, Anna. Structural diversity and application potential of hemicelluloses. In Macromolecular Symposia, 2006, vol. 232, p. 1-12. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551401>

Citácie:

1. [1.1] BERI, Dhananjay - YORK, William S. - LYND, Lee R. - PENA, Maria J. - HERRING, Christopher D. Development of a thermophilic coculture for corn fiber conversion to ethanol. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-15704-z>., Registrované v: WOS

2. [1.1] BUDTOVA, Tatiana - AGUILERA, Daniel Antonio - BELUNS, Sergejs - BERGLUND, Linn - CHARTIER, Coraline - ESPINOSA, Eduardo - GAIDUKOV, Sergejs - KLIMEK-KOPYRA, Agnieszka - KMITA, Angelika - LACHOWICZ, Dorota - LIEBNER, Falk - PLATNIEKS, Oskars - RODRIGUEZ, Alejandro - TINOCO NAVARRO, Lizeth Katherine - ZOU, Fangxin - BUWALDA, Sytze J. Biorefinery Approach for Aerogels. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12122779>., Registrované v: WOS

3. [1.1] CHADNI, Morad - GRIMI, Nabil - BALS, Olivier - ZIEGLER-DEVIN, Isabelle - DESOBRY, Stephane - BROSSE, Nicolas. Elaboration of hemicellulose-based films: Impact of the extraction process from spruce wood on the film properties. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108111>., Registrované v: WOS

4. [1.1] DE BENEDETTI, Stefano - GALANTI, Elisabetta - CAPRARO, Jessica - MAGNI, Chiara - SCARAFONI, Alessio. Lupinus albus gamma-Conglutin, a Protein Structurally Related to GH12 Xyloglucan-Specific Endo-Glucanase Inhibitor Proteins (XEGIPs), Shows Inhibitory Activity against GH2 beta-Mannosidase. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 19, pp. Dostupné na: <https://doi.org/10.3390/ijms21197305>., Registrované v: WOS

5. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. Fractionation and Structural

- Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>, Registrované v: WOS*
6. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (*Populus grandidentata*) and its potential in water-soluble oxygen barrier films. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na: <https://doi.org/10.1007/s10570-020-02993-2>, Registrované v: WOS
7. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - DE ASSIS, Tiago - GONZALEZ, Ronalds W. - PHILLIPS, Richard B. - CHANG, Hou-min. Techno-economic analysis of hemicellulose extraction from different types of lignocellulosic feedstocks and strategies for cost optimization. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 225-241. Dostupné na: <https://doi.org/10.1002/bbb.2054>, Registrované v: WOS
8. [1.1] GIGLI-BISCEGLIA, Nora - ENGELSDORF, Timo - HAMANN, Thorsten. Plant cell wall integrity maintenance in model plants and crop species-relevant cell wall components and underlying guiding principles. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, 2020, vol. 77, no. 11, pp. 2049-2077. Dostupné na: <https://doi.org/10.1007/s00018-019-03388-8>, Registrované v: WOS
9. [1.1] GOMES, Teresa M. P. - MENDES DE SOUSA, Antonio R. - BELENKIY, Yuri - EVTUGUIN, Dmitry. Xylan accessibility of bleached eucalypt pulp in alkaline solutions. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 141-148. Dostupné na: <https://doi.org/10.1515/hf-2019-0023>, Registrované v: WOS
10. [1.1] KARPPI, Johanna - ZHAO, Hongbo - CHONG, Sun-Li - KOISTINEN, Antti E. - TENKANEN, Maija - MASTER, Emma. Quantitative Comparison of Pyranose Dehydrogenase Action on Diverse Xylooligosaccharides. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.00011>, Registrované v: WOS
11. [1.1] KHALAJI, Akram - SEDIGHI, Mahsa - VAHABZADEH, Farzaneh. Optimization and Kinetic Evaluation of Acetylxylan Esterase and Xylanase Production by *Trichoderma reesei* Using Corn Cob Xylan. In ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL. ISSN 2198-7491, 2020, vol. 7, no. 3, pp. 885-909. Dostupné na: <https://doi.org/10.1007/s40710-020-00451-6>, Registrované v: WOS
12. [1.1] KORKALO, Pasi - KORPINEN, Risto - BEUKER, Egbert - SARJALA, Tytti - HELLSTROM, Jarkko - KASEVA, Janne - LASSI, Ulla - JYSKE, Tuula. Clonal Variation in the Bark Chemical Properties of Hybrid Aspen: Potential for Added Value Chemicals. In MOLECULES, 2020, vol. 25, no. 19, pp. Dostupné na: <https://doi.org/10.3390/molecules25194403>, Registrované v: WOS
13. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D. Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>, Registrované v: WOS
14. [1.1] NESIC, Aleksandra - CABRERA-BARJAS, Gustavo - DIMITRIJEVIC-BRANKOVIC, Suzana - DAVIDOVIC, Sladjana - RADOVANOVIC, Neda -

- DELATTRE, Cedric. Prospect of Polysaccharide-Based Materials as Advanced Food Packaging. In *MOLECULES*, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010135>., Registrované v: WOS
15. [1.1] RAZALI, Siti Aisyah - SHAMSIR, Mohd Shahir. Characterisation of a catalytic triad and reaction selectivity in the dual mechanism of the catalyse hydride transfer in xylitol phosphate dehydrogenase. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2020, vol. 97, no., pp. Dostupné na: <https://doi.org/10.1016/j.jmglm.2020.107548>., Registrované v: WOS
16. [1.1] ROSLAN, Abdullah Munir - KAMIL, Afifah Mustafa - CHANDRAN, Carumathy - SONG, Adelene Ai-Lian - YUSOFF, Khatijah - RAHIM, Raha Abdul. Secretion of recombinant xylanase in *Lactococcus lactis* using signal peptides *Usp45* and *Spk1*. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 9, pp. 1727-1733. Dostupné na: <https://doi.org/10.1007/s10529-020-02894-1>., Registrované v: WOS
17. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953. Dostupné na: <https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS
18. [1.1] TAYLOR, Lewis - PHIPPS, Jonathan - BLACKBURN, Stuart - GREENWOOD, Richard - SKUSE, David. Using fibre property measurements to predict the tensile index of microfibrillated cellulose nanopaper. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 11, pp. 6149-6162. Dostupné na: <https://doi.org/10.1007/s10570-020-03226-2>., Registrované v: WOS
19. [1.1] TROLANO, D. - ORSAT, V. - DUMONT, M. J. Status of filamentous fungi in integrated biorefineries. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2019.109472>., Registrované v: WOS

ADCA163 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HRÍBALOVÁ, V. Structure and mitogenic activities of corn cob heteroxylans. In *International Journal of Biological Macromolecules*, 1995, vol. 17, p. 327-331. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/0141-8130\(96\)81840-X](https://doi.org/10.1016/0141-8130(96)81840-X)

Citácie:

1. [1.1] ADSTEDT, Katarina - POPENOV, Elizabeth A. - PIERCE, Kellina J. - XIONG, Rui - GERYAK, Ren - CHERPAK, Vladyslav - NEPAL, Dhriti - BUNNING, Timothy J. - TSUKRUK, Vladimir V. Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, 2020, vol. 30, no. 49, pp. Dostupné na: <https://doi.org/10.1002/adfm.202003597>., Registrované v: WOS
2. [1.1] BRITO, Talita Katiane - SILVA VIANA, Rony Lucas - GONCALVES MORENO, Claudia Jassica - BARBOSA, Jefferson da Silva - DE SOUSA JUNIOR, Francimar Lopes - CAMPOS DE MEDEIROS, Mayara Jane - MELO-SILVEIRA, Raniere Fagundes - ALMEIDA-LIMA, Jailma - PONTES, Daniel de Lima - SILVA, Marcelo Sousa - OLIVEIRA ROCHA, Hugo Alexandre. Synthesis of Silver Nanoparticle Employing Corn Cob Xylan as a Reducing Agent with Anti-Trypanosoma cruzi Activity. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2020, vol. 15, no., pp. 965-979. Dostupné na: <https://doi.org/10.2147/IJN.S216386>., Registrované v: WOS
3. [1.1] MORAIS, Eduarda S. - DA COSTA LOPES, Andre M. - FREIRE, Mara G. - FREIRE, Carmen S. R. - COUTINHO, Joao A. P. - SILVESTRE, Armando J. D.

- ADCA164 *Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. In MOLECULES*, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163652>., Registrované v: WOS
4. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. *Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS*, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
- EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HRÍBALOVÁ, V. - XU, C. - HOLMBOM, B. - SUNDBERG, A. - WILLFOR, S. Norway spruce galactoglucomannans exhibiting immunomodulating and radical-scavenging activities. *In International Journal of Biological Macromolecules*, 2008, vol. 42, p. 1-5. (2007: 1.578 - IF, Q4 - JCR, 0.643 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomic.2007.08.001>
- Citácie:
1. [1.1] MIKKONEN, Kirsi S. *Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS
2. [1.1] NAIDJONOKA, Polina - HERNANDEZ, Monica Arcos - PALSSON, Gunnar K. - HEINRICH, Frank - STALBRAND, Henrik - NYLANDER, Tommy. *On the interaction of softwood hemicellulose with cellulose surfaces in relation to molecular structure and physicochemical properties of hemicellulose. In SOFT MATTER*. ISSN 1744-683X, 2020, vol. 16, no. 30, pp. 7063-7076. Dostupné na: <https://doi.org/10.1039/d0sm00264j>., Registrované v: WOS
3. [1.1] ZHAO, Hongbo - MIKKONEN, Kirsi S. - KILPELAINEN, Petri O. - LEHTONEN, Mari I. *Spruce Galactoglucomannan-Stabilized Emulsions Enhance Bioaccessibility of Bioactive Compounds. In FOODS*, 2020, vol. 9, no. 5, pp. Dostupné na: <https://doi.org/10.3390/foods9050672>., Registrované v: WOS
- ADCA165 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - SASINKOVÁ, Vlasta. Chemical valorization of agricultural by-products: isolation and characterization of xylan-based antioxidants from almond shell biomass. *In BioResources*, 2008, vol. 3, p. 60-70. ISSN 1930-2126.
- Citácie:
1. [1.1] DYSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. *Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b05459>., Registrované v: WOS
2. [1.1] KAMMOUN, Maroua - AYEB, Haitham - BETTAIEB, Taoufik - RICHEL, Aurore. *Chemical characterisation and technical assessment of agri-food residues, marine matrices, and wild grasses in the South Mediterranean area: A considerable inflow for biorefineries. In WASTE MANAGEMENT*. ISSN 0956-053X, 2020, vol. 118, no., pp. 247-257. Dostupné na: <https://doi.org/10.1016/j.wasman.2020.08.032>., Registrované v: WOS
3. [1.1] KAUR, Manpreet - KUMAR, Manoj - SACHDEVA, Sarita - PURI, S. K. *An efficient multiphase bioprocess for enhancing the renewable energy production from almond shells. In ENERGY CONVERSION AND MANAGEMENT*. ISSN 0196-8904, 2020, vol. 203, no., pp. Dostupné na:

- <https://doi.org/10.1016/j.enconman.2019.112235>., Registrované v: WOS
4. [1.1] MATIN, Narges Hemati - JALALI, Mohsen - ANTONIADIS, Vasileios - SHAHEEN, Sabry M. - WANG, Jianxu - ZHANG, Tao - WANG, Hailong - RINKLEBE, Joerg. Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. In *CHEMOSPHERE*. ISSN 0045-6535, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.124888>., Registrované v: WOS
5. [1.1] RIVAS, Sandra - RIGUAL, Victoria - CARLOS DOMINGUEZ, Juan - VIRGINIA ALONSO, M. - OLIET, Mercedes - CARLOS PARAJO, Juan - RODRIGUEZ, Francisco. A biorefinery strategy for the manufacture and characterization of oligosaccharides and antioxidants from poplar hemicelluloses. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 123, no., pp. 398-408. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.07.018>., Registrované v: WOS
- ADCA166 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KAČURÁKOVÁ, Marta - ANTAL, Miroslav. Quaternized xylans - synthesis and structural characterization. In *Carbohydrate Polymers*, 1994, vol. 24, no. 4, p. 301-308. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(94\)90075-2](https://doi.org/10.1016/0144-8617(94)90075-2)
- Citácie:
1. [1.1] CHANDIKA, Pathum - HEO, Seong-Yeong - KIM, Tae-Hee - OH, Gun-Woo - KIM, Geun-Hyeong - KIM, Min-Sung - JUNG, Won-Kyo. Recent advances in biological macromolecule based tissue-engineered composite scaffolds for cardiac tissue regeneration applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 2329-2357. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.054>., Registrované v: WOS
2. [1.1] PEIL, S. - BECKERS, S. J. - FISCHER, J. - WURM, F. R. Biodegradable, lignin-based encapsulation enables delivery of *Trichoderma reesei* with programmed enzymatic release against grapevine trunk diseases. In *MATERIALS TODAY BIO*. ISSN 2590-0064, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.1016/j.mtbio.2020.100061>., Registrované v: WOS
3. [1.1] SARKER, Niloy C. - RAY, Priyanka - PFAU, Creighton - KALAVACHARLA, Venu - HOSSAIN, Khwaja - QUADIR, Mohiuddin. Development of Functional Nanomaterials from Wheat Bran Derived Arabinoxylan for Nucleic Acid Delivery. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 15, pp. 4367-4373. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c00029>., Registrované v: WOS
4. [1.1] ZHANG, Ruichi - LEIVISKA, Tiina. Surface modification of pine bark with quaternary ammonium groups and its use for vanadium removal. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2020, vol. 385, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2019.123967>., Registrované v: WOS
- ADCA167 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HEINZE, T. Hemicellulose. In *Advances in polymer science*, 2005, vol.186, p. 1-67. (2004: 7.320 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0065-3195.
- Citácie:
1. [1.1] ARELLANO-SANDOVAL, L. - DELGADO, E. - CAMACHO-VILLEGAS, T. A. - BRAVO-MADRIGAL, J. - MANRIQUEZ-GONZALEZ, R. - LUGO-FABRES, P. H. - TORIZ, G. - GARCIA-URIOSTEGUI, L. Development of thermosensitive hybrid hydrogels based on xylan-type hemicellulose from agave bagasse: characterization and antibacterial activity. In *MRS COMMUNICATIONS*. ISSN 2159-6859, 2020, vol. 10, no. 1, pp. 147-154.

- Dostupné na: <https://doi.org/10.1557/mrc.2019.165.>, Registrované v: WOS
2. [1.1] BERGLUND, Jennie - KISHANI, Saina - DE CARVALHO, Danila Morais - LAWOKO, Martin - WOHLERT, Jakob - HENRIKSSON, Gunnar - LINDSTROM, Mikael E. - WAGBERG, Lars - VILAPLANA, Francisco. *Acetylation and Sugar Composition Influence the (In)Solubility of Plant beta-Mannans and Their Interaction with Cellulose Surfaces*. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 27, pp. 10027-10040. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01716.>, Registrované v: WOS
3. [1.1] BERGLUND, Jennie - MIKKELSEN, Deirdre - FLANAGAN, Bernadine M. - DHITAL, Sushil - GAUNITZ, Stefan - HENRIKSSON, Gunnar - LINDSTROM, Mikael E. - YAKUBOV, Gleb E. - GIDLEY, Michael J. - VILAPLANA, Francisco. *Wood hemicelluloses exert distinct biomechanical contributions to cellulose fibrillar networks*. In NATURE COMMUNICATIONS, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18390-z.>, Registrované v: WOS
4. [1.1] BHATTARAI, Mamata - SULAEVA, Irina - PITKANEN, Leena - KONTRO, Inkeri - TENKANEN, Maija - POTTHAST, Antje - MIKKONEN, Kirsi S. *Colloidal features of softwood galactoglucomannans-rich extract*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116368.>, Registrované v: WOS
5. [1.1] BHATTARAI, Mamata - VALOPPI, Fabio - HIRVONEN, Sami-Pekka - HIETALA, Sami - KILPELAINEN, Petri - ASEYEV, Vladimir - MIKKONEN, Kirsi S. *Time-dependent self-association of spruce galactoglucomannans depends on pH and mechanical shearing*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 102, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105607.>, Registrované v: WOS
6. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. *Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of Rudbeckia fulgida*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246.>, Registrované v: WOS
7. [1.1] CHEN, Yanjun - SUN, Xiangxiang - SHAN, Junqiang - TANG, Chenglun - HU, Ruijia - SHEN, Tao - QIAO, Hongqun - LI, Ming - ZHUANG, Wei - ZHU, Chenjie - YING, Hanjie. *Flow synthesis, characterization, anticoagulant activity of xylan sulfate from sugarcane bagasse*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1460-1467. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.124.>, Registrované v: WOS
8. [1.1] CROITORU, Catalin - ROATA, Ionut Claudiu. *Ionic Liquids as Antifungal Agents for Wood Preservation*. In MOLECULES, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184289.>, Registrované v: WOS
9. [1.1] DE CARVALHO, Danila Morais - MARCHAND, Celia - BERGLUND, Jennie - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. *Impact of birch xylan composition and structure on film formation and properties*. In HOLZFORSCHUNG. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 184-196. Dostupné na: <https://doi.org/10.1515/hf-2018-0224.>, Registrované v: WOS

10. [1.1] DIEZ, David - URUENA, Ana - PINERO, Raul - BARRIO, Aitor - TAMMINEN, Tarja. Determination of Hemicellulose, Cellulose, and Lignin Content in Different Types of Biomasses by Thermogravimetric Analysis and Pseudocomponent Kinetic Model (TGA-PKM Method). In PROCESSES, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091048>., Registrované v: WOS
11. [1.1] DYSSVIK, Anna - LA ROSA, Sabina Leanti - BUFFETTO, Fanny - LILAND, Kristian Hovde - MYHRER, Kristine S. - RUKKE, Elling-Olav - WICKLUND, Trude - WESTERENG, Bjorge. Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 301-314. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b05459>., Registrované v: WOS
12. [1.1] HARDELIN, Linda - BERNIN, Diana - BORJESSON, Mikaela - STROM, Anna - LARSSON, Anette. Altered Thermal and Mechanical Properties of Spruce Galactoglucomannan Films Modified with an Etherification Reaction. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 5, pp. 1832-1840. Dostupné na: <https://doi.org/10.1021/acs.biomac.9b01730>., Registrované v: WOS
13. [1.1] HERO, Johan S. - MORALES, Andres H. - PEROTTI, Nora - ROMERO, Cintia M. - ALEJANDRA MARTINEZ, M. Improved development in magnetic Xyl-CLEAs technology for biotransformation of agro-industrial by-products through the use of a novel macromolecular cross-linker. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2020, vol. 154, no., pp. Dostupné na: <https://doi.org/10.1016/j.reactfunctpolym.2020.104676>., Registrované v: WOS
14. [1.1] HOLMES, Ashleigh - ROSSEZ, Yannick - WRIGHT, Kathryn Mary - HEDLEY, Pete Edward - MORRIS, Jenny - WILLATS, William George Tycho - HOLDEN, Nicola Jean. Escherichia coli O157:H7 F9 Fimbriae Recognize Plant Xyloglucan and Elicit a Response in Arabidopsis thaliana. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 24, pp. Dostupné na: <https://doi.org/10.3390/ijms21249720>., Registrované v: WOS
15. [1.1] HUY, Nguyen Duc - SARAVANAKUMAR, Thiyagarajan - HA, Sang Hoon - PARK, Seung-Moon. Enhanced Enzymatic Saccharification of Wheat Flour Arabinoxylan and Barley Straw Using Recombinant Hemicellulases. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2020, vol. 25, no. 3, pp. 431-441. Dostupné na: <https://doi.org/10.1007/s12257-019-0231-2>., Registrované v: WOS
16. [1.1] KAMAL-ELDIN, Afaf - GEORGE, Navomy - SOBTI, Bhawna - ALRASHIDI, Nouf - GHNIMI, Sami - ALI, Abdul Aziz - ANDERSSON, Annica A. M. - ANDERSSON, Roger - ANTONY, Asha - HAMED, Fathalla. Dietary fiber components, microstructure, and texture of date fruits (Phoenix dactylifera, L.). In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-78713-4>., Registrované v: WOS
17. [1.1] KILIC PEKGOZLU, Ayben - TAS, Muhsin - CEYLAN, Esra - HEMMING, Jarl. Effect of the height of the stem on the polysaccharide composition of Pinus brutia (Ten) wood and kraft-pulp. In TURKISH JOURNAL OF AGRICULTURE AND FORESTRY. ISSN 1300-011X, 2020, vol. 44, no. 3, pp. 243-249. Dostupné na: <https://doi.org/10.3906/tar-1905-16>., Registrované v: WOS
18. [1.1] KOBAYASHI, Manami - KUMAGAI, Yuya - YAMAMOTO, Yohei - YASUI, Hajime - KISHIMURA, Hideki. Identification of a Key Enzyme for the Hydrolysis of beta-(1> 3)-Xylosyl Linkage in Red Alga Dulce

- Xylooligosaccharide from Bifidobacterium Adolescentis. In MARINE DRUGS, 2020, vol. 18, no. 3, pp. Dostupné na: <https://doi.org/10.3390/md18030174>, Registrované v: WOS*
19. [1.1] KUMLA, Jaturong - SUWANNARACH, Nakarin - SUJARIT, Kanaporn - PENKHRUE, Watsana - KAKUMYAN, Pattana - JATUWONG, Kritsana - VADTHANARAT, Santhiti - LUMYONG, Saisamorn. Cultivation of Mushrooms and Their Lignocellulolytic Enzyme Production Through the Utilization of Agro-Industrial Waste. In MOLECULES, 2020, vol. 25, no. 12, pp. Dostupné na: <https://doi.org/10.3390/molecules25122811>, Registrované v: WOS
20. [1.1] LOPEZ, Mar - SANTOS, Valentin - PARAJO, Juan Carlos. Autocatalytic Fractionation of Wood Hemicelluloses: Modeling of Multistage Operation. In CATALYSTS, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/catal10030337>, Registrované v: WOS
21. [1.1] LOPEZ, Mar - VILA, Carlos - SANTOS, Valentin - CARLOS PARAJO, Juan. Manufacture of Platform Chemicals from Pine Wood Polysaccharides in Media Containing Acidic Ionic Liquids. In POLYMERS, 2020, vol. 12, no. 6, pp. Dostupné na: <https://doi.org/10.3390/polym12061215>, Registrované v: WOS
22. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - ANCA-COUCÉ, Andres - PEREZ, Denilson da Silva - BOISSONNET, Guillaume - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 2: Torrefaction model. In ENERGY. ISSN 0360-5442, 2020, vol. 210, no., pp. Dostupné na: <https://doi.org/10.1016/j.energy.2020.118451>, Registrované v: WOS
23. [1.1] MARTINEZ, Maria Gonzalez - DUPONT, Capucine - PEREZ, Denilson da Silva - MORTHA, Gerard - THIERY, Sebastien - MEYER, Xuan-mi - GOURDON, Christophe. Understanding the torrefaction of woody and agricultural biomasses through their extracted macromolecular components. Part 1: Experimental thermogravimetric solid mass loss. In ENERGY. ISSN 0360-5442, 2020, vol. 205, no., pp. Dostupné na: <https://doi.org/10.1016/j.energy.2020.118067>, Registrované v: WOS
24. [1.1] MARTINEZ, Maria Gonzalez - FLOQUET, Pascal - DUPONT, Capucine - PEREZ, Denilson da Silva - MEYER, Xuan-mi. Assessing the impact of woody and agricultural biomass variability on its behaviour in torrefaction through Principal Component Analysis. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105474>, Registrované v: WOS
25. [1.1] MARTINS, Manoela - DINAMARCO, Taisa Magnani - GOLDBECK, Rosana. Recombinant chimeric enzymes for lignocellulosic biomass hydrolysis. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 140, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2020.109647>, Registrované v: WOS
26. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>, Registrované v: WOS
27. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>, Registrované v: WOS
28. [1.1] RUTHES, Andrea C. - RUDJITO, Reskandi C. - RENCORET, Jorge -

- GUTIERREZ, Ana - DEL RIO, Joseprime C. - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco. Comparative Recalcitrance and Extractability of Cell Wall Polysaccharides from Cereal (Wheat, Rye, and Barley) Brans Using Subcritical Water. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 18, pp. 7192-7204. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01764>., Registrované v: WOS
29. [1.1] SAHAY, Sanjay. Impact of Pretreatment Technologies for Biomass to Biofuel Production. In SUBSTRATE ANALYSIS FOR EFFECTIVE BIOFUELS PRODUCTION. ISSN 2662-6861, 2020, vol., no., pp. 173-216. Dostupné na: https://doi.org/10.1007/978-981-32-9607-7_7., Registrované v: WOS
30. [1.1] SHIMOTORI, Yasutaka - WATANABE, Takumi - KOHARI, Yoshihito - CHIOU, Tai-Ying - OHTSU, Naofumi - NAGATA, Yuichi - MURATA, Miki. Enzyme-assisted Extraction of Bioactive Phytochemicals from Japanese Peppermint (*Mentha arvensis* L. cv. 'Hokuto'). In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2020, vol. 69, no. 6, pp. 635-642. Dostupné na: <https://doi.org/10.5650/jos.ess19181>., Registrované v: WOS
31. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS
32. [1.1] TUNCIL, Yunus E. Dietary fibre profiles of Turkish Tombul hazelnut (*Corylus avellana* L.) and hazelnut skin. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 316, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126338>., Registrované v: WOS
33. [1.1] VILASECA, Fabiola - SERRA, Albert - KOCHUMALAYIL, Joby J. Xyloglucan coating for enhanced strength and toughness in wood fibre networks. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115540>., Registrované v: WOS
34. [1.1] ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS
35. [1.1] ZHANG, Jingzhi - CAI, Di - QIN, Yanlin - LIU, Dehua - ZHAO, Xuebing. High value-added monomer chemicals and functional bio-based materials derived from polymeric components of lignocellulose by organosolv fractionation. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, 2020, vol. 14, no. 2, pp. 371-401. Dostupné na: <https://doi.org/10.1002/bbb.2057>., Registrované v: WOS

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EBRINGEROVÁ, Anna - KARDOŠOVÁ, Alžbeta - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - HŘÍBALOVÁ, V. Immunomodulatory activity of acidic xylans in relation to their structural and molecular properties. In International Journal of Biological Macromolecules, 2002, vol. 30, p. 1-6. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(01\)00186-6](https://doi.org/10.1016/S0141-8130(01)00186-6)

Citácie:

- [1.1] JI, Min Gun - LEE, Yeong Ro - NAM, Youn Hee - CASTANEDA, Rodrigo - HONG, Bin Na - KANG, Tong Ho. Immunostimulatory Action of High-Content Active Arabinoxylan in Rice Bran. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 41, pp. 26374-26381. Dostupné na: <https://doi.org/10.1021/acsomega.0c02472>., Registrované v: WOS
- [1.1] LI, Nan - HU, Ya-jie - BIAN, Jing - LI, Ming-fei - HAO, Xiang - PENG,

Feng - SUN, Run-Cang. Enhanced mechanical performance of xylan-based composite hydrogel via chain extension and semi-interpenetrating networks. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 8, pp. 4407-4416. Dostupné na: <https://doi.org/10.1007/s10570-020-03080-2>, Registrované v: WOS

3. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>, Registrované v: WOS

4. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. Extraction, characterization of xylan from *Azadirachta indica* (neem) sawdust and production of antiproliferative xylooligosaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>, Registrované v: WOS

5. [1.1] SILVA VIANA, Rony Lucas - PEREIRA FIDELIS, Gabriel - JANE CAMPOS MEDEIROS, Mayara - ANTONIO MORGANO, Marcelo - GABRIELA CHAGAS FAUSTINO ALVES, Monique - DOMINGUES PASSERO, Luiz Felipe - LIMA PONTES, Daniel - CORDEIRO THEODORO, Raquel - DOMINGOS ARANTES, Thales - ARAUJO SABRY, Diego - LANZI SASSAKI, Guilherme - FAGUNDES MELO-SILVEIRA, Ranieri - ROCHA, Hugo Alexandre Oliveira. Green Synthesis of Antileishmanial and Antifungal Silver Nanoparticles Using Corn Cob Xylan as a Reducing and Stabilizing Agent. In *BIOMOLECULES*, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/biom10091235>, Registrované v: WOS

ADCA169 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - PETRÁKOVÁ, Eva - HRICOVÍNI, Miloš. Structural features of a water-soluble L-arabino-D-xylan from rye bran. In *Carbohydrate Research*, 1990, vol. 198, p. 57-66. (1990 - Current Contents, SCOPUS). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(90\)84276-Z](https://doi.org/10.1016/0008-6215(90)84276-Z)

Citácie:

1. [1.1] GUAN, Ying - RAO, Jun - WU, Yule - GAO, Hui - LIU, Shengquan - CHEN, Gegu - PENG, Feng. Hemicelluloses-based magnetic aerogel as an efficient adsorbent for Congo red. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 369-375. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.231>, Registrované v: WOS

ADCA170 EBRINGEROVÁ, Anna - KARDOŠOVÁ, Alžbeta - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. Mitogenic and comitogenic activities of polysaccharides from some European herbaceous plants. In *Fitoterapia*, 2003, vol. 74, p. 52-61. ISSN 0367-326X. Dostupné na: [https://doi.org/10.1016/S0367-326X\(02\)00295-2](https://doi.org/10.1016/S0367-326X(02)00295-2)

Citácie:

1. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of *Rudbeckia fulgida*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>, Registrované v: WOS

ADCA171 EBRINGEROVÁ, Anna - SROKOVÁ, Iva - TALÁBA, P. - KAČURÁKOVÁ,

Marta - HROMÁDKOVÁ, Zdenka. Amphiphilic beechwood glucuronoxylan derivatives. In Journal of Applied Polymer Science, 1998, vol. 67, p. 1523-1530. (1997: 0.841 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] GABRIEL, Lars - KOSCHELLA, Andreas - TIED, Antje - PFEIFER, Annett - HEINZE, Thomas. Sulfoethylation of polysaccharides-A comparative study. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116533>., Registrované v: WOS

2. [1.1] MIKKONEN, Kirsi S. Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>., Registrované v: WOS

ADCA172 EBRINGEROVÁ, Anna - KRAMÁR, A. - RENDOS, F. - DOMANSKÝ, R.. Stepwise extraction of hemicellulose from wood of white beech (*Carpinus betulus*). In Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood, 1967, vol. 21, pp. 74-77. ISSN 0018-3830.

Citácie:

1. [1.1] SUCHOVA, Katarina - PUCHART, Vladimir - SPODSBERG, Nikolaj - KROGH, Kristian B. R. Morkeberg - BIELY, Peter. A novel GH30 xylobiohydrolase from *Acremonium alcalophilum* releasing xylobiose from the non-reducing end. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 134, no., pp. Dostupné na:

<https://doi.org/10.1016/j.enzmictec.2019.109484>., Registrované v: WOS

ADCA173 EBRINGEROVÁ, Anna** - EREMEEVA, T.E. - KHINOVEROVA, O.E. - ERSHOV, B.G. 4-O-Methyl-D-glucurono-D-xylan degradation by γ -irradiation. Part 1. Dose effects on the macromolecular properties. In Carbohydrate Polymers, 1991, vol. 15, p. 255 -. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(91\)90040-J](https://doi.org/10.1016/0144-8617(91)90040-J)

Citácie:

1. [1.1] KHAWORY, Muhammad Hidhir - SAIN, Amyra Amat - ROSLI, Mohamad Afiq Aizuddin - ISHAK, Muhammad Syafiq - NOORDIN, Mohamed Ibrahim - WAHAB, Habibah A. Effects of gamma radiation treatment on three different medicinal plants: Microbial limit test, total phenolic content, in vitro cytotoxicity effect and antioxidant assay. In APPLIED RADIATION AND ISOTOPES. ISSN 0969-8043, 2020, vol. 157, no., pp. Dostupné na:

<https://doi.org/10.1016/j.apradiso.2019.109013>., Registrované v: WOS

ADCA174 EKHOLM, Filip mS. - POLÁKOVÁ, Monika - PAWLOWICZ, Agnieszka J. - LEINO, Reko. Synthesis of divalent 2,2'-linked mannose derivatives by homodimerization. In Synthesis, 2009, no. 4, pp. 567-576. (2008: 2.470 - IF, Q2 - JCR, 1.325 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0039-7881. Dostupné na: <https://doi.org/10.1055/s-0028-1083283>

Citácie:

1. [1.1] HUSSAIN, Hidayat - ALI, Iftikhar - ELIZBIT, Hussain, Wahid - MAMADALIEVA, Nilufar Z. - HUSSAIN, Amjad - ALI, Maroof - AHMED, Ishtiaq - ULLAH, Izhar - GREEN, Ivan R. Synthetic Studies Towards Fungal Glycosides: An Overview. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2020, vol. 24, no. 24, pp. 2865-2901. Dostupné na:

<https://doi.org/10.2174/1385272824999201105160034>., Registrované v: WOS

2. [1.1] TANZI, Lisa - ROBESCU, Marina Simona - MARZATICO, Sara - RECCA, Teresa - ZHANG, Yongmin - TERRENI, Marco - BAVARO, Teodora. Developing a Library of Mannose-Based Mono- and Disaccharides: A General

- Chemoenzymatic Approach to Monohydroxylated Building Blocks. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235764>, Registrované v: WOS*
- ADCA175 FANG, Wenxia - SANZ, Ana Belén - BARTUAL, Sergio Galán - WANG, Bin - FERENBACH, Andrew T. - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier** - VAN AALTEN, Daan M.F.**. Mechanisms of redundancy and specificity of the *Aspergillus fumigatus* Crh transglycosylases. In *Nature Communications*, 2019, vol. 10, art. no. 1669. (2018: 11.878 - IF, Q1 - JCR, 5.992 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2041-1723. Dostupné na: <https://doi.org/10.1038/s41467-019-09674-0>
- Citácie:
- [1.1] BLATZER, Michael - BEAUVAIS, Anne - HENRISSAT, Bernard - LATGE, Jean-Paul. Revisiting Old Questions and New Approaches to Investigate the Fungal Cell Wall Construction. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 331-369. Dostupné na: https://doi.org/10.1007/82_2020_209, Registrované v: WOS
 - [1.1] SAMALOVA, Marketa - CARR, Paul - BROMLEY, Mike - BLATZER, Michael - MOYA-NILGES, Maryse - LATGE, Jean-Paul - MOUYNA, Isabelle. GPI Anchored Proteins in *Aspergillus fumigatus* and Cell Wall Morphogenesis. In *FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS*. ISSN 0070-217X, 2020, vol. 425, no., pp. 167-186. Dostupné na: https://doi.org/10.1007/82_2020_207, Registrované v: WOS
- ADCA176 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír. One-pot preparation of labelled mannan-peptide conjugate, model for immune cell processing. In *Glycoconjugate Journal*, 2016, vol. 33, no. 1, p. 113-120. (2015: 1.828 - IF, Q3 - JCR, 0.722 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-015-9644-0>
- Citácie:
- [1.1] SARKAR, Biswajit - JAYARAMAN, Narayanaswamy. Glycoconjugations of Biomolecules by Chemical Methods. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.570185>, Registrované v: WOS
- ADCA177 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Efficient activation of carboxyl polysaccharides for the preparation of conjugates. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 68, p. 187-190. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2006.07.013>
- Citácie:
- [1.1] HEIDA, Thomas - OTTO, Oliver - BIEDENWEG, Doreen - HAUCK, Nicolas - THIELE, Julian. Microfluidic Fabrication of Click Chemistry-Mediated Hyaluronic Acid Microgels: A Bottom-Up Material Guide to Tailor a Microgel's Physicochemical and Mechanical Properties. In *POLYMERS*, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081760>, Registrované v: WOS
- ADCA178 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - BYSTRICKÝ, Slavomír. Comparison of EDC and DMTMM efficiency in glycoconjugate. In *International Journal of Biological Macromolecules*, 2013, vol. 60, p. 325-327. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2013.06.014>
- Citácie:

1. [1.1] XIE, Yalun - WANG, Yafen - HE, Zhiyong - YANG, Wei - FU, Boshi - ZOU, Guangrong - ZHANG, Xiong - HUANG, Jinguo - ZHOU, Xiang. *Selective Chemical Labeling and Sequencing of 5-Carboxylcytosine in DNA at Single-Base Resolution*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 18, pp. 12710-12715. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c03201>., Registrované v: WOS
- ADCA179 FARKAŠ, Pavol - KORCOVÁ, Jana, Vráblová - KRONEK, Juraj - BYSTRICKÝ, Slavomír. Preparation of synthetic polyoxazoline based carrier and *Vibrio cholerae* O-specific polysaccharide conjugate vaccine. In *European Journal of Medicinal Chemistry*, 2010, vol.45, p. 795-799. (2009: 3.269 - IF, 0.964 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0223-5234. Dostupné na: <https://doi.org/10.1016/j.ejmech.2009.11.002>
- Citácie:
1. [1.1] SEDLACEK, O. - DE LA ROSA, V.R. - HOOGENBOOM, R. *Poly(2-oxazoline)-protein conjugates*. In *POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION AND BEYOND*. 2020, p. 407-420., Registrované v: WOS
- ADCA180 FARKAŠ, Vladimír - SVOBODA, A. - BAUER, Štefan. Inhibitory effect of 2-deoxy-D-glucose on the formation of the cell wall in yeast protoplasts. In *Journal of Bacteriology*, 1969, vol.98, p. 744-748. ISSN 0021-9193.
- Citácie:
1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. *Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms*. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS
- ADCA181 FARKAŠ, Vladimír. Biosynthesis of cell walls in fungi. In *Microbiological Reviews*, 1979, vol.43, p. 117-144. ISSN 0146-0749. Dostupné na: <https://doi.org/10.1002/yea.1486>
- Citácie:
1. [1.1] DUY QUANG PHAM - BRYANT, Saffron J. - CHEESEMAN, Samuel - HUANG, Louisa Z. Y. - BRYANT, Gary - DUPONT, Madeleine F. - CHAPMAN, James - BERNDT, Christopher C. - VONGSVIVUT, Jitraporn (Pimm) - CRAWFORD, Russell J. - TRUONG, Vi Khanh - ANG, Andrew S. M. - ELBOURNE, Aaron. *Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms*. In *NANOSCALE*. ISSN 2040-3364, 2020, vol. 12, no. 38, pp. 19888-19904. Dostupné na: <https://doi.org/10.1039/d0nr05617k>., Registrované v: WOS
- ADCA182 FARKAŠ, Vladimír - ŠESTÁK, Sergej - GREŠÍK, Miroslav - KOLAROVA, Nadežda - LABUDOVA, Ivica - BAUER, Štefan. Induction of cellulase in *Trichoderma reesei* grown on lactose. In *Acta Biotechnologica*, 1987, vol. 7, p. 425-429. Dostupné na: <https://doi.org/10.1002/abio.370070510>
- Citácie:
1. [1.1] PIRAYRE, Aurelie - DUVAL, Laurent - BLUGEON, Corinne - FIRMO, Cyril - PERRIN, Sandrine - JOURDIER, Etienne - MARGEOT, Antoine - BIDARD, Frederique. *Glucose-lactose mixture feeds in industry-like conditions: a gene regulatory network analysis on the hyperproducing *Trichoderma reesei* strain Rut-C30*. In *BMC GENOMICS*. ISSN 1471-2164, 2020, vol. 21, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s12864-020-07281-8>., Registrované v: WOS
- ADCA183 FARKAŠ, Vladimír - AIT-MOHAND, Fairouz - STRATILOVÁ, Eva. Sensitive detection of transglycosylating activity of xyloglucan endotransglycosylase/hydrolase (XTH) after isoelectric focusing in polyacrylamide gels. In *Plant Physiology and Biochemistry : an official journal of the Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant*

Biology (Société Française de Biologie Végétale (SFBV)), 2005, vol.43, p. 431-435. ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2005.03.006>

Citácie:

1. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>., Registrované v: WOS

ADCA184 FILIP, Jaroslav - ZAVAHIR, Sifani - LORENCOVÁ, Lenka - BERTÓK, Tomáš - YOUSAF, Ammar Bin - MAHMOUD, Khaled A. - TKÁČ, Ján - KASÁK, Peter**. Tailoring electrocatalytic properties of Pt nanoparticles grown on Ti3C2TX MXene surface. In Journal of the Electrochemical Society, 2019, vol. 166, p. H54-H62. (2018: 3.120 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0013-4651. Dostupné na: <https://doi.org/10.1149/2.0991902jes>

Citácie:

1. [1.1] LU, Ming - HAN, Wenjuan - LI, Haibo - ZHANG, Wei - ZHANG, Bingsen. There is plenty of space in the MXene layers: The confinement and fillings. In JOURNAL OF ENERGY CHEMISTRY. ISSN 2095-4956, 2020, vol. 48, no., pp. 344-363. Dostupné na: <https://doi.org/10.1016/j.jechem.2020.02.032>., Registrované v: WOS

2. [1.1] WANG, Hao - LEE, Jong-Min. Recent advances in structural engineering of MXene electrocatalysts. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2020, vol. 8, no. 21, pp. 10604-10624. Dostupné na: <https://doi.org/10.1039/d0ta03271a>., Registrované v: WOS

3. [1.1] ZHANG, Chuang - MA, Ben - ZHOU, Yingke - WANG, Cheng. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 865, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114142>., Registrované v: WOS

4. [1.1] ZHANG, Xiaobao - SHAO, Baiyi - SUN, Zemin - GAO, Zhe - QIN, Yong - ZHANG, Ce - CUI, Fangming - YANG, Xiaojing. Platinum Nanoparticle-Deposited Ti3C2Tx MXene for Hydrogen Evolution Reaction. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 5, pp. 1822-1828. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b05046>., Registrované v: WOS

ADCA185 FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In Electrochemistry Communications, 2014, vol. 49, p. 70-74. (2013: 4.287 - IF, Q1 - JCR, 1.811 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1388-2481. Dostupné na: <https://doi.org/10.1016/j.elecom.2014.10.012>

Citácie:

1. [1.1] FIRDAUS, Rabita Mohd - BERRADA, Nawal - DESFORGES, Alexandre - MOHAMED, Abdul Rahman - VIGOLO, Brigitte. From 2D Graphene Nanosheets to 3D Graphene-based Macrostructures. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, 2020, vol. 15, no. 19, pp. 2902-2924. Dostupné na: <https://doi.org/10.1002/asia.202000747>., Registrované v: WOS

2. [1.1] TANG, Jing - YAN, Xiaomei - ENGELBREKT, Christian - ULSTRUP, Jens - MAGNER, Edmond - XIAO, Xinxin - ZHANG, Jingdong. Development of graphene-based enzymatic biofuel cells: A minireview. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné

- ADCA186 *na: <https://doi.org/10.1016/j.bioelechem.2020.107537>., Registrované v: WOS*
FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells? In *Electrochimica Acta*, 2014, vol. 136, p. 340-354. (2013: 4.086 - IF, Q1 - JCR, 1.435 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2014.05.119>
- Citácie:*
1. [1.1] *BAEK, Inchul - CHOI, Hyunsung - YOON, Seongho - NA, Sungsoo. Effects of the Hydrophobicity of Key Residues on the Characteristics and Stability of Glucose Oxidase on a Graphene Surface. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2020, vol. 6, no. 4, pp. 1899-1908. Dostupné na: <https://doi.org/10.1021/acsbiomaterials.9b01763>., Registrované v: WOS*
 2. [1.1] *JIA, Yun - MA, Dong - WANG, Xuyun. Electrochemical preparation and application of PANI/MWNT and PPy/MWNT composite anodes for anaerobic fluidized bed microbial fuel cell. In 3 BIOTECH. ISSN 2190-572X, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s13205-019-1950-y>., Registrované v: WOS*
 3. [1.1] *LI, Yunfei - LIU, Jia - CHEN, Xuepeng - YUAN, Xiaole - LI, Nan - HE, Weihua - FENG, Yujie. Enhanced electricity generation and extracellular electron transfer by polydopamine-reduced graphene oxide (PDA-rGO) modification for high-performance anode in microbial fuel cell. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, 2020, vol. 387, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2019.123408>., Registrované v: WOS*
 4. [1.1] *LITVIN, Aleksandr P. - ZHANG, Xiaoyu - BERWICK, Kevin - FEDOROV, Anatoly - ZHENG, Weitao - BARANOV, Alexander. Carbon-based interlayers in perovskite solar cells. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.rser.2020.109774>., Registrované v: WOS*
 5. [1.1] *ROY, Ekta - NAGAR, Achala - CHAUDHARY, Sandeep - PAL, Souvik. Advanced Properties and Applications of AIEgens-Inspired Smart Materials. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 23, pp. 10721-10736. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c01869>., Registrované v: WOS*
 6. [1.1] *TANG, Jing - YAN, Xiaomei - ENGELBREKT, Christian - ULSTRUP, Jens - MAGNER, Edmond - XIAO, Xinxin - ZHANG, Jingdong. Development of graphene-based enzymatic biofuel cells: A minireview. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107537>., Registrované v: WOS*
 7. [1.1] *TROGADAS, Panagiotis - COPPENS, Marc-Olivier. Nature-inspired electrocatalysts and devices for energy conversion. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2020, vol. 49, no. 10, pp. 3107-3141. Dostupné na: <https://doi.org/10.1039/c8cs00797g>., Registrované v: WOS*
 8. [1.1] *YOON, Taeyoung - BAEK, Inchul - LEE, Seonwoo - CHOI, Hyunsung - YOON, Seongho - LEE, Howon - KIM, Sun Ung - NA, Sungsoo. Immobilization of laccase on a graphene interface: Direct electron transfer and molecular dynamics study. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 521, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146378>., Registrované v: WOS*
- ADCA187 FILIP, Jaroslav - TKÁČ, Ján. Enzýmové biopalivové články. In *Chemické listy*, 2014, vol. 108, p. 442-450. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Citácie:

1. [1.1] *YAGHOUBI, Mona - RAHIMI, Fereshteh - NEGAHDARI, Babak -*

- REZAYAN, Ali Hossein - SHAFIEKHANI, Azizollah. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-72457-x>, Registrované v: WOS*
- ADCA188 FILIP, Jaroslav - ŠEĎČOVIČOVÁ, Jana - TOMČÍK, Peter - GEMEINER, Peter - TKÁČ, Ján. A hyaluronic acid dispersed carbon nanotube electrode used for a mediatorless NADH sensing and biosensing. In *Talanta*, 2011, vol. 84, p. 355-361. (2010: 3.722 - IF, Q1 - JCR, 1.466 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0039-9140. Dostupné na: <https://doi.org/10.1016/j.talanta.2011.01.004>
- Citácie:
- [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In *CURRENT TOPICS IN MEDICINAL CHEMISTRY*. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/1568026620666200306131416>, Registrované v: WOS
 - [1.1] ZHENG, Ting - WANG, Xiaodong - LIU, Yingyi - BAYANIAHANGAR, Rasoul - LI, Hongbin - LU, Chunrui - XU, Nuo - YAO, Zhaoding - QIAO, Yingjie - ZHANG, Dongxing - ABADI, Parisa Pour Shahid Saeed. Polyaniline-decorated hyaluronic acid-carbon nanotube hybrid microfiber as a flexible supercapacitor electrode material. In *CARBON*. ISSN 0008-6223, 2020, vol. 159, no., pp. 65-73. Dostupné na: <https://doi.org/10.1016/j.carbon.2019.11.074>, Registrované v: WOS
- ADCA189 FILIP, Jaroslav - MONOSÍK, Rastislav - TKÁČ, Ján. Poly(lactic-acid)-based nanocomposite for construction of efficient bilirubin oxidase-based biocathodes and stable biofuel cells. In *International Journal of Electrochemical Science*, 2014, vol. 9, p. 2491-2560. (2013: 1.956 - IF, Q3 - JCR, 0.522 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1452-3981.
- Citácie:
- [1.1] PIRO, Benoit - TRAN, Hoang Vinh - THU, Vu Thi. Sensors Made of Natural Renewable Materials: Efficiency, Recyclability or Biodegradability-The Green Electronics. In *SENSORS*, 2020, vol. 20, no. 20, pp. Dostupné na: <https://doi.org/10.3390/s20205898>, Registrované v: WOS
- ADCA190 FILIP, Jaroslav - TKÁČ, Ján. The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. In *Bioelectrochemistry*, 2014, vol. 96, p. 14-20. (2013: 3.870 - IF, Q1 - JCR, 0.947 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2013.11.007>
- Citácie:
- [1.1] NAZEMI, Zahra - PRASAD, Pallavi - CHAKRABORTY, Saumen. Kinetics of Oxygen Reduction by a Beta Barrel Heme Protein on Hybrid Bioelectrodes. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2020, vol. 7, no. 4, pp. 1029-1037. Dostupné na: <https://doi.org/10.1002/celc.201901945>, Registrované v: WOS
 - [1.1] VALLES, Morgane - KAMARUDDIN, Amirah F. - WONG, Lu Shin - BLANFORD, Christopher F. Inhibition in multicopper oxidases: a critical review. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2020, vol. 10, no. 16, pp. 5386-5410. Dostupné na: <https://doi.org/10.1039/d0cy00724b>, Registrované v: WOS
- ADCA191 FILIP, Jaroslav - ECKSTEIN ANDICSOVÁ, Anita - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Immobilization of bilirubin oxidase on graphene oxide flakes with different negative charge density for oxygen reduction. The effect of GO charge density on enzyme coverage, electron transfer rate and current density. In *Biosensors*

& Bioelectronics, 2017, vol. 89, p. 384-389. (2016: 7.780 - IF, Q1 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2016.06.006>

Citácie:

1. [1.2] FADILLAH, G.- WICAKSONO, W.P.- FATIMAH, I.- SALEH, T.A. A sensitive electrochemical sensor based on functionalized graphene oxide/SnO₂ for the determination of eugenol. (2020) *Microchemical Journal*, 159, art. no. 105353, Registrované v: Scopus
2. [1.2] XIA, H.- ZENG, J. Rational surface modification of carbon nanomaterials for improved direct electron transfer-type bioelectrocatalysis of redox enzymes. (2020) *Catalysts*, 10 (12), art. no. 1447, p. 1-16., Registrované v: Scopus

ADCA192 FILIP, Jaroslav - POPELKA, Anton - BERTÓK, Tomáš - HOLAZOVÁ, Alena - OSIČKA, Jozef - KOLLÁR, Jozef - ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. pH-switchable interaction of a carboxybetaine ester-based SAM with DNA and gold nanoparticles. In *Langmuir*, 2017, vol. 33, p. 6657-6666. (2016: 3.833 - IF, Q1 - JCR, 1.559 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.7b00568>

Citácie:

1. [1.1] HOANG, J. - PARK, C.S. - MARQUEZ, M.D. - GUNARATNE, P.H. - LEE, T.R. DNA Binding on Self-Assembled Monolayers Terminated with Mixtures of Ammonium and Trimethylammonium Groups: Toward a Gene-Delivery Platform. In *ACS APPLIED NANO MATERIALS*. ISSN 2574-0970, JUL 24 2020, vol. 3, no. 7, p. 6621-6628., Registrované v: WOS

ADCA193 FRINGANT, C. - TVAROŠKA, Igor - MAZEAU, K. - RINAUDO, M. - DESBRIERES, J. Hydration of α -maltose and amylose: Molecular modelling and thermodynamics study. In *Carbohydrate Research*, 1995, vol. 278, p. 27-41. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(95\)00232-1](https://doi.org/10.1016/0008-6215(95)00232-1)

Citácie:

1. [1.1] LI, Rui - TANG, Ning - JIA, Xin - NIRASAWA, Satoru - BIAN, Xiaojia - ZHANG, Peifeng - CHENG, Yongqiang. Isolation, physical, structural characterization and in vitro prebiotic activity of a galactomannan extracted from endosperm splits of Chinese *Sesbania cannabina* seeds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 1217-1226. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.177>., Registrované v: WOS
2. [1.1] WEI, Peng - GUO, Kaidi - PU, Wanfen - XIE, Yahong - HUANG, Xueli - ZHANG, Junlan. Aqueous Foam Stabilized by an in Situ Hydrophobic Polymer via Interaction with Alkyl Polyglycoside for Enhancing Oil Recovery. In *ENERGY & FUELS*. ISSN 0887-0624, 2020, vol. 34, no. 2, pp. 1639-1652. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b03977>., Registrované v: WOS

ADCA194 FUSKA, J. - UHRÍN, Dušan - PROKSA, Bohumil - VOTICKÝ, Zdeno - RUPPELDT, J. The structure of vermistatin a new metabolite from *Penicillium vermiculatum*. In *Journal of Antibiotics*, 1986, vol. 39, p. 1605-1608. ISSN 0021-8820.

Citácie:

1. [1.1] AWASTHI, Amardeep - SINGH, Mandeep - RATHEE, Garima - CHANDRA, Ramesh. Recent advancements in synthetic methodologies of 3-substituted phthalides and their application in the total synthesis of biologically active natural products. In *RSC ADVANCES*, 2020, vol. 10, no. 21, pp. 12626-12652. Dostupné na: <https://doi.org/10.1039/d0ra00701c>., Registrované v: WOS
2. [1.1] WANG, Rui - XU, Hongyan - LI, Tingting - ZHANG, Ying - WANG,

Shoufeng - CHEN, Guozhu - LI, Cuncheng - ZHAO, Huaqing. Iridium/Copper-Catalyzed Oxidative C-H/O-H Annulation of Benzoic Acids with Saturated Ketones for Accessing 3-Substituted Phthalides. In CHEMCATCHEM. ISSN 1867-3880, 2020, vol. 12, no. 23, pp. 5907-5911. Dostupné na: <https://doi.org/10.1002/cctc.202001214>., Registrované v: WOS

ADCA195 GARAJOVÁ, Soňa - MATHIEU, Yann - BECCIA, Maria Rosa - BENNATI-GRANIER, Chloé - BIASO, Frédéric - FANUEL, Mathieu - ROPARTZ, David - GUIGLIARELLI, Bruno - RECORD, Eric - ROGNIAUX, Hélène - HENRISSAT, Bernard - BERRIN, Jean-Guy. Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. In Scientific Reports, 2016, vol. 6, art. no. 28276. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/srep28276>

Citácie:

1. [1.1] HADDAD MOMENI, Majid - LETH, Maria Louise - STERNBERG, Claus - SCHOOF, Erwin - NIELSEN, Maike Wennekers - HOLCK, Jesper - WORKMAN, Christopher T. - HOOFF, Jakob Blaesbjerg - ABOU HACHEM, Maher. Loss of AA13 LPMOs impairs degradation of resistant starch and reduces the growth of *Aspergillus nidulans*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01775-z>., Registrované v: WOS

2. [1.1] KOJIMA, Yuka - VARNAI, Aniko - EIJSINK, Vincent G. H. - YOSHIDA, Makoto. The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, 2020, vol. 32, no. 188, pp. E135-E143. Dostupné na: <https://doi.org/10.4052/tigg.2020.7E>., Registrované v: WOS

3. [1.1] KRACHER, Daniel - FORSBERG, Zarah - BISSARO, Bastien - GANGL, Sonja - PREIMS, Marita - SYGMUND, Christoph - EIJSINK, Vincent G. H. - LUDWIG, Roland. Polysaccharide oxidation by lytic polysaccharide monooxygenase is enhanced by engineered cellobiose dehydrogenase. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 5, pp. 897-908. Dostupné na: <https://doi.org/10.1111/febs.15067>., Registrované v: WOS

4. [1.1] LI, Xin - HAN, Chao - LI, Weiguang - CHEN, GuanJun - WANG, Lushan. Insights into the cellulose degradation mechanism of the thermophilic fungus *Chaetomium thermophilum* based on integrated functional omics. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01783-z>., Registrované v: WOS

5. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS

6. [1.1] PETERBAUER, Clemens K. Pyranose dehydrogenases: Rare enzymes for electrochemistry and biocatalysis. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2019.107399>., Registrované v: WOS

7. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. - PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian - DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Evidence for ligninolytic activity of the ascomycete fungus *Podospora anserina*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s13068-020-01713-z>, Registrované v: WOS

8. [1.1] XU, Rong - LIU, Xiaochen - PENG, Bing - LIU, Peibin - LI, Zhuang - DAI, Yueting - XIAO, Shijun. Genomic Features of *Cladobotryum dendroides*, Which Causes Cobweb Disease in Edible Mushrooms, and Identification of Genes Related to Pathogenicity and Mycoparasitism. In *PATHOGENS*, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/pathogens9030232>, Registrované v: WOS

9. [1.1] ZHANG, Ruiqin. Functional characterization of cellulose-degrading AA9 lytic polysaccharide monooxygenases and their potential exploitation. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 8, pp. 3229-3243. Dostupné na: <https://doi.org/10.1007/s00253-020-10467-5>, Registrované v: WOS

10. [1.1] ZHOU, Xiaoli - ZHU, Honghui. Current understanding of substrate specificity and regioselectivity of LPMOs. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-0300-6>, Registrované v: WOS

ADCA196 GEMEINER, Peter - MISLOVIČOVÁ, Danica - TKÁČ, Ján - ŠVITEL, Juraj - PÄTOPRSTÝ, Vladimír - HRABÁROVÁ, Eva - KOGAN, Grigorij - KOŽÁR, Tibor. Lectinomics II. A highway to biomedical/clinical diagnostics. In *Biotechnology Advances*, 2009, vol. 27, no. 1, p. 1-15. (2008: 6.110 - IF, Q1 - JCR, 2.267 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2008.07.003>

Citácie:

1. [1.1] CAVADA, Benildo Sousa - PINTO-JUNIOR, Vanir Reis - OSTERNE, Vinicius Jose Silva - OLIVEIRA, Messias Vital - LOSSIO, Claudia Figueiredo - SILVA, Mayara Torquato Lima - BARI, Alfa Umara - LIMA, Lara Dias - SOUZA-FILHO, Claudio Henrique Dahne - NASCIMENTO, Kyria Santiago.

Comprehensive review on Caelsalpinioideae lectins: From purification to biological activities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 333-348. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.161>, Registrované v: WOS

2. [1.1] CORDINA, Nicole M. - ZHANG, Wei - PACKER, Nicolle H. - WANG, Yuling. Rapid and sensitive glycan targeting by lectin-SERS assay. In *MOLECULAR OMICS*, 2020, vol. 16, no. 4, pp. 339-344. Dostupné na: <https://doi.org/10.1039/c9mo00181f>, Registrované v: WOS

3. [1.1] DUARTE, Christiane Eliza Motta - ALAMILLO, Josefa M. - KOEHLER, Andrea Dias - PINEDA, Manuel - OTONI, Wagner Campos - DE OLIVEIRA, Leandro Licursi. Molecular and biochemical analyses of a novel lectin with MATH domains from *Brassica oleracea*. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2020, vol. 42, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11738-020-03070-8>, Registrované v: WOS

ADCA197 GEMEINER, Peter** - DROBNICA, Ľ. Selective and reversible modification of essential thiol groups of D-glyceraldehyde-3-phosphate dehydrogenase by isothiocyanates. In *Experientia : interdisciplinary journal of life sciences*, 1979, vol. 35, p. 857-859. ISSN 0014-4754. Dostupné na: <https://doi.org/10.1007/BF01955110>

Citácie:

1. [1.1] KONTAR, Szilvia - IMRICHÓVA, Denisa - BERTOVA, Anna - MACKOVÁ, Katarina - POTURNAYOVA, Alexandra - SULOVA, Zdena - BREIER, Albert. Cell Death Effects Induced by Sulforaphane and Allyl Isothiocyanate on P-Glycoprotein Positive and Negative Variants in L1210 Cells.

- In MOLECULES, 2020, vol. 25, no. 9, pp. Dostupné na:*
<https://doi.org/10.3390/molecules25092093>., Registrované v: WOS
- ADCA198 GHOSH, Debjani - BANDYOPADHYAY, Shruti S. - CHATTERJEE, Udipta R. - CAPEK, Peter - RAY, Bimalendu. Carbohydrate polymers of chirata (Swertia chirata) leaves: Structural features, in vitro anti-oxidant activity and fluorescence quenching study. In Food Science and Technology, 2012, vol. 21, p. 409-417. (2011: 0.493 - IF, Q4 - JCR, 0.279 - SJR, Q3 - SJR). ISSN 1226-7708. Dostupné na: <https://doi.org/10.1007/s10068-012-0052-y>
- Citácie:
 1. [1.1] DEY, Pinaki - SINGH, Joginder - SULUVOY, Jagadish Kumar - DILIP, Kevin Joseph - NAYAK, Jayato. Utilization of Swertia chirayita Plant Extracts for Management of Diabetes and Associated Disorders: Present Status, Future Prospects and Limitations. In NATURAL PRODUCTS AND BIOPROSPECTING. ISSN 2192-2195, 2020, vol. 10, no. 6, pp. 431-443. Dostupné na: <https://doi.org/10.1007/s13659-020-00277-7>., Registrované v: WOS
- ADCA199 GILLIS, Richard B. - ADAMS, Gary G. - BESONG, David T.M. - MACHOVÁ, Eva - EBRINGEROVÁ, Anna - ROWE, Arthur J. - HARDING, Stephen E. - PATEL, Trushar R. Application of novel analytical ultracentrifuge analysis to solutions of fungal mannans. In European Biophysics Journal, 2017, vol. 46, p. 235-245. (2016: 1.472 - IF, Q4 - JCR, 0.681 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents, WOS). ISSN 0175-7571. Dostupné na: <https://doi.org/10.1007/s00249-016-1159-5>
- Citácie:
 1. [1.1] GRUBE, Mandy - CINAR, Gizem - SCHUBERT, Ulrich S. - NISCHANG, Ivo. Incentives of Using the Hydrodynamic Invariant and Sedimentation Parameter for the Study of Naturally- and Synthetically-Based Macromolecules in Solution. In POLYMERS, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/polym12020277>., Registrované v: WOS
 2. [1.1] SILVA, Aurora - SILVA, Sofia A. - LOURENCO-LOPES, C. - JIMENEZ-LOPEZ, C. - CARPENA, M. - GULLON, P. - FRAGA-CORRAL, M. - DOMINGUES, V. F. - BARROSO, M. Fatima - SIMAL-GANDARA, J. - PRIETO, M. A. Antibacterial Use of Macroalgae Compounds against Foodborne Pathogens. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9100712>., Registrované v: WOS
- ADCA200 GIMÉNEZ-MASCARELL, P. - MAJTÁN, T. - OYENARTE, I. - EREÑO-ORBEA, J. - MAJTÁN, Juraj - KLAUDINY, Jaroslav - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A.**. Crystal structure of cystathionine β -synthase from honeybee Apis mellifera. In Journal of Structural Biology, 2018, vol. 202, p. 82-93. (2017: 3.433 - IF, Q2 - JCR, 3.948 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1047-8477. Dostupné na: <https://doi.org/10.1016/j.jsb.2017.12.008>
- Citácie:
 1. [1.2] LAN, Jiafu - LIANG, Ye - LI, Jindu - ZENG, Dechuang - LI, Tianzi - PAN, Xingshou. Mutation of cystathionine gene in patients with carotid plaque and its correlation with clinic. In Chinese Journal of Clinical Nutrition. ISSN 1674635X, 2020-10-30, 28, 5, pp. 283-289., Registrované v: SCOPUS
 2. [1.2] MOHAMMED, Ammar A. - ALI, Bushra H. CORRELATION STUDY BETWEEN METHIONINE SYNTHASE, CYSTATHIONINE B SYNTHASE WITH CLASSIC PARAMETERS AFTER TREATED WITH JANUVIA IN IRAQI DIABETIC PATIENT'S TYPE 2 AND COMPLICATION. In Biochemical and Cellular Archives. ISSN 09725075, 2020-10-01, 20, 2, pp. 6623-6628., Registrované v: SCOPUS
- ADCA201 GLIGORIJEVIĆ, Nikola** - MINIĆ, Simeon - KRIŽÁKOVÁ, Martina, Zámorová -

KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural changes of fibrinogen as a consequence of cirrhosis. In *Thrombosis Research*, 2018, vol. 166, p. 43-49. (2017: 2.779 - IF, Q2 - JCR, 1.096 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0049-3848. Dostupné na: <https://doi.org/10.1016/j.thromres.2018.04.005>

Citácie:

1. [1.1] ZERMATTEN, Maxime G. - FRAGA, Montserrat - MORADPOUR, Darius - BERTAGLIA CALDERARA, Debora - ALIOTTA, Alessandro - STIRNIMANN, Guido - DE GOTTARDI, Andrea - ALBERIO, Lorenzo. Hemostatic Alterations in Patients With Cirrhosis: From Primary Hemostasis to Fibrinolysis. In *HEPATOLOGY*. ISSN 0270-9139, 2020, vol. 71, no. 6, pp. 2135-2148. Dostupné na: <https://doi.org/10.1002/hep.31201>., Registrované v: WOS

ADCA202

GLIGORIJEVIĆ, Nikola** - KRIŽAKOVÁ, Martina, Zámorová - PENEZIĆ, Ana - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural and functional changes of fibrinogen due to aging. In *International Journal of Biological Macromolecules*, 2018, vol. 108, p. 1028-1034. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.11.016>

Citácie:

1. [1.1] DE VRIES, Judith J. - SNOEK, Charlotte J. M. - RIJKEN, Dingeman C. - DE MAAT, Moniek P. M. Effects of Post-Translational Modifications of Fibrinogen on Clot Formation, Clot Structure, and Fibrinolysis A Systematic Review. In *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*. ISSN 1079-5642, 2020, vol. 40, no. 3, pp. 554-569. Dostupné na: <https://doi.org/10.1161/ATVBAHA.119.313626>., Registrované v: WOS

2. [1.1] TAVASOLI, Behnaz - SAFA, Majid - DORGALALEH, Akbar - GHASEMI, Jahan B. - MAKHOURI, Farahnaz Rezaei - REZVANI, Mohammad R. - AHMADI, Abbas - TABIBIAN, Shadi - JAZEBI, Mohammad - BAGHAIPOR, Mohammad R. - ZAKER, Farhad. Molecular and clinical profile of congenital fibrinogen disorders in Iran, identification of two novel mutations. In *INTERNATIONAL JOURNAL OF LABORATORY HEMATOLOGY*. ISSN 1751-5521, 2020, vol. 42, no. 5, pp. 619-627. Dostupné na: <https://doi.org/10.1111/ijlh.13258>., Registrované v: WOS

3. [1.2] PASTUSHKOVA, L. H. - KASHIRINA, D. N. - GONCHAROVA, A. G. - ZAKHAROVA, N. B. - TIYS, E. S. - GONCHAROV, I. N. - LARINA, I. M. Characteristics of age-dependent changes in the urine's proteom composition of the of the healthy persons (experimental and theoretical study). In *Advances in gerontology = Uspekhi gerontologii*. ISSN 15619125, 2020-01-01, 33, 4, pp. 735-740., Registrované v: SCOPUS

ADCA203

GREGOROVÁ, Adriana - CIBULKOVÁ, Z. - KOŠÍKOVÁ, Božena - ŠIMON, P. Stabilization effect of lignin in polypropylene and recycled polypropylene. In *Polymer Degradation and Stability*, 2005, vol.89, p. 553-558. (2004: 1.685 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0141-3910. Dostupné na: <https://doi.org/10.1016/j.polymdegradstab.2005.02.007>

Citácie:

1. [1.1] DE RESENDE, Thalita Mendonca - DA COSTA, Marcelo Moreira. Biopolymers of sugarcane. In *SUGARCANE BIOREFINERY, TECHNOLOGY AND PERSPECTIVES*, 2020, vol., no., pp. 229-254., Registrované v: WOS

ADCA204

GREŠÁKOVÁ, Lubomíra - BOŘUTOVÁ, Radka - FAIX, Štefan - PLACHÁ, Iveta - ČOBANOVÁ, Klaudia - KOŠÍKOVÁ, Božena - LENG, Lubomír. Effect of lignin on oxidative stress in chicken fed a diet contaminated with zearalenone. In *Acta Veterinaria Hungarica*, 2012, vol. 60, no. 1, p. 103-114. (2011: 0.673 - IF, Q3 - JCR,

0.420 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0236-6290. Dostupné na: <https://doi.org/10.1556/AVet.2012.009>

Citácie:

1. [1.1] EGRESI, Anna - SULE, Krisztina - SZENTMIHALYI, Klara - BLAZOVICS, Anna - FEHER, Erzsebet - HAGYMASI, Krisztina - FEBEL, Hedvig. *Impact of milk thistle (Silybum marianum) on the mycotoxin caused redox-homeostasis imbalance of ducks liver. In TOXICON. ISSN 0041-0101, 2020, vol. 187, no., pp. 181-187. Dostupné na: <https://doi.org/10.1016/j.toxicon.2020.09.002>., Registrované v: WOS*
2. [1.1] KARMANOV, Anatoly P. - KANARSKY, Albert V. - KANARSKAYA, Zosya A. - KOICHEVA, Ludmila S. - SEMENOV, Eduard I. - BOGDANOVICH, Nikolai I. - BELYI, Vladimir A. *In vitro adsorption-desorption of aflatoxin B1 on Pepper's lignins isolated from grassy plants. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 144, no., pp. 111-117. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.081>., Registrované v: WOS*

ADCA205 GREŠÍK, Miroslav - KOLAROVA, Nadežda - FARKAŠ, Vladimír. *Membrane-potential, ATP, and cyclic-AMP changes induced by light in Trichoderma viride. In Experimental Mycology, 1988, vol.12, p. 295-301. Dostupné na: [https://doi.org/10.1016/0147-5975\(88\)90021-7](https://doi.org/10.1016/0147-5975(88)90021-7)*

Citácie:

1. [1.1] MORENO-RUIZ, Dubraska - FUCHS, Alessandro - MISSBACH, Kristina - SCHUHMACHER, Rainer - ZEILINGER, Susanne. *Influence of Different Light Regimes on the Mycoparasitic Activity and 6-Pentyl-alpha-pyrone Biosynthesis in Two Strains of Trichoderma atroviride. In PATHOGENS, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/pathogens9100860>., Registrované v: WOS*

ADCA206 GUERRINI, M. - AGULLES, T. - BISIO, A. - HRICOVÍNI, Miloš - LAY, L. - NAGGI, A. - POLETTI, L. - STURIALE, L. - TORRI, G. - CASU, B. *Minimal heparin/heparan sulfate sequences for binding to fibroblast growth factor-1. In Biochemical and biophysical research communications, 2002, vol. 292, p. 222-230. ISSN 0006-291X. Dostupné na: <https://doi.org/10.1006/bbrc.2002.6634>*

Citácie:

1. [1.1] ARNOLD, Katelyn - LIAO, Yi-En - LIU, Jian. *Potential Use of Anti-Inflammatory Synthetic Heparan Sulfate to Attenuate Liver Damage. In BIOMEDICINES, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/biomedicines8110503>., Registrované v: WOS*
2. [1.1] BEURSKENS, Danielle M. H. - HUCKRIEDE, Joram P. - SCHRIJVER, Roy - HEMKER, H. Coenraad - REUTELINGSPERGER, Chris P. - NICOLAES, Gerry A. F. *The Anticoagulant and Nonanticoagulant Properties of Heparin. In THROMBOSIS AND HAEMOSTASIS. ISSN 0340-6245, 2020, vol. 120, no. 10, pp. 1371-1383. Dostupné na: <https://doi.org/10.1055/s-0040-1715460>., Registrované v: WOS*
3. [1.1] JIN, Weihua - HE, Xinyue - WU, Wanli - BAO, Yizhong - WANG, Sanying - CAI, Min - ZHANG, Wenjing - WANG, Chunyu - ZHANG, Fuming - LINHARDT, Robert J. - MAO, Genxiang - ZHONG, Weihong. *Structural analysis of a glucoglucuronan derived from laminarin and the mechanisms of its anti-lung cancer activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 776-787. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.069>., Registrované v: WOS*
4. [1.1] ZHAO, Yunlong - KALTASHOV, Igor A. *Evaluation of top-down mass spectrometry and ion-mobility spectroscopy as a means of mapping protein-*

- binding motifs within heparin chains. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 8, pp. 3090-3099. Dostupné na: <https://doi.org/10.1039/d0an00097c>., Registrované v: WOS*
- ADCA207 GUERRINI, M. - HRICOVÍNI, Miloš - TORRI, G. Interaction of heparins with fibroblast growth factors. Conformational aspects. In Current Pharmaceutical Design, 2007, vol.13, p. 2045-2056. (2006: 5.270 - IF, Q1 - JCR, 1.801 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1381-6128. Dostupné na: <https://doi.org/10.2174/138161207781039733>
Citácie:
1. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Receptor tyrosine kinases and heparan sulfate proteoglycans: Interplay providing anticancer targeting strategies and new therapeutic opportunities. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 178, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114084>., Registrované v: WOS
- ADCA208 GUGLIERI, S. - HRICOVÍNI, Miloš - RAMAN, R. - POLITO, L. - TORRI, G. - CASU, B. - SASISEKHARAN, R. - GUERRINI, M. Minimum FGF2 binding structural requirements of heparin and heparan sulfate oligosaccharides as determined by NMR spectroscopy. In Biochemistry, 2008, vol.47, p. 13862-13869. (2007: 3.368 - IF, Q2 - JCR, 2.441 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0006-2960. Dostupné na: <https://doi.org/10.1021/bi801007p>
Citácie:
1. [1.1] ARNOLD, Katelyn - LIAO, Yi-En - LIU, Jian. Potential Use of Anti-Inflammatory Synthetic Heparan Sulfate to Attenuate Liver Damage. In BIOMEDICINES, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/biomedicines8110503>., Registrované v: WOS
2. [1.1] LINDSAY, Susan L. - MCCANNEY, George A. - WILLISON, Alice G. - BARNETT, Susan C. Multi-target approaches to CNS repair: olfactory mucosa-derived cells and heparan sulfates. In NATURE REVIEWS NEUROLOGY. ISSN 1759-4758, 2020, vol. 16, no. 4, pp. 229-240. Dostupné na: <https://doi.org/10.1038/s41582-020-0311-0>., Registrované v: WOS
3. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. Rigorous analysis of free solution glycosaminoglycan dynamics using simple, new tools. In GLYCOBIOLOGY. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 516-527. Dostupné na: <https://doi.org/10.1093/glycob/cwaa015>., Registrované v: WOS
- ADCA209 GULLÓN, P. - GONZALEZ-MUÑOZ, M.J. - VAN GOOL, M.P. - SCHOLS, H.A. - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, J.C. Production, refining, structural characterization and fermentability of rice husk xylooligosaccharides. In Journal of agricultural and food chemistry, 2010, vol. 58, p. 3632-3641. (2009: 2.469 - IF, 1.330 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf904508g>
Citácie:
1. [1.1] WANG, Fengqin - DONG, Hongli - HASSANPOUR, Morteza - ZHANG, Ke - XIE, Hui - ZHANG, Hongsen - SONG, Andong - ZHANG, Zhanying. Glycerol-assisted one-step instant catapult steam explosion enhances enzymatic digestibility of corn stover. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 157, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112907>., Registrované v: WOS
- ADCA210 GULLÓN, Patricia - GONZALEZ-MUNOZ, Maria Jesús - VAN GOOL, Martine Paula - SCHOLS, Henk Arie - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, Juan Carlos. Structural features and properties of soluble products derived from

Eucalyptus globulus hemicelluloses. In Food chemistry, 2011, vol. 129, p. 1798-1807. (2010: 3.458 - IF, Q1 - JCR, 1.981 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2011.02.066>

Citácie:

1. [1.1] GHOSHAL, Gargi - SINGH, Deepinderjot. *Synthesis and characterization of starch nanocellulosic films incorporated with Eucalyptus globulus leaf extract*. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2020, vol. 332, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijfoodmicro.2020.108765>., Registrované v: WOS

ADCA211 GUO, Boyang - SATO, Nobuaki - BIELY, Peter - AMANO, Yoshihiko - NOZAKI, Kouichi. Comparison of catalytic properties of multiple beta-glucosidases of *Trichoderma reesei*. In Applied Microbiology and Biotechnology, 2016, vol. 100, p. 4959-4968. (2015: 3.376 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-016-7342-x>

Citácie:

1. [1.1] HAVUKAINEN, Sami - VALKONEN, Mari - KOIVURANTA, Kari - LANDOWSKI, Christopher P. *Studies on sugar transporter CRT1 reveal new characteristics that are critical for cellulase induction in Trichoderma reesei*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01797-7>., Registrované v: WOS

2. [1.1] LENZ, Florian - ZUREK, Paul - UMLAUF, Martina - TOZAKIDIS, Iasson E. P. - JOSE, Joachim. *Tailor-made beta-glucosidase with increased activity at lower temperature without loss of stability and glucose tolerance*. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 7, pp. 2234-2243. Dostupné na: <https://doi.org/10.1039/c9gc04166d>., Registrované v: WOS

3. [1.1] SOBRI, Mohamad Farhan Mohamad - ABD-AZIZ, Suraini - ABU BAKAR, Farah Diba - RAMLI, Norhayati. *In-Silico Characterization of Glycosyl Hydrolase Family 1 beta-Glucosidase from Trichoderma asperellum UPM1*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21114035>., Registrované v: WOS

4. [1.1] WANG, Hao - LIN, Xiangna - LI, Shuang - LIN, Jianlin - XIE, Chunfang - LIU, Daling - YAO, Dongsheng. *Rational molecular design for improving digestive enzyme resistance of beta-glucosidase from Trichoderma viride based on inhibition of bound state formation*. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmtec.2019.109465>., Registrované v: WOS

5. [1.1] ZHAO, Jun - SHI, Dingchen - YANG, Sen - LIN, Hui - CHEN, Hongge. *Identification of an intracellular beta-glucosidase in Aspergillus niger with transglycosylation activity*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 19, pp. 8367-8380. Dostupné na: <https://doi.org/10.1007/s00253-020-10840-4>., Registrované v: WOS

ADCA212 GURKOK, S. - SOYLER, B. - BIELY, Peter - OGEL, Z.B. Cloning and heterologous expression of the extracellular alpha-galactosidase from *Aspergillus fumigatus* in *Aspergillus sojae* under the control of *gpdA* promoter. In Journal of Molecular Catalysis B: Enzymatic, 2010, vol. 64, p.146-149. Dostupné na: <https://doi.org/10.1016/j.molcatb.2009.09.012>

Citácie:

1. [1.1] ASCI, FerruhS - AYDIN, Busra - AKKUS, Gulderen Uysal - UNAL, Arzu - ERDOGMUS, Sevim Feyza - KORCAN, Safiye Elif - JAHAN, Israt. *Fatty acid*

methyl ester analysis of Aspergillus fumigatus isolated from fruit pulps for biodiesel production using GC-MS spectrometry. In BIOENGINEERED. ISSN 2165-5979, 2020, vol. 11, no. 1, pp. 408-415. Dostupné na: <https://doi.org/10.1080/21655979.2020.1739379>., Registrované v: WOS

2. [1.1] BHATIA, Sonu - SINGH, Abhinashi - BATRA, Navneet - SINGH, Jagtar. *Microbial production and biotechnological applications of alpha-galactosidase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1294-1313. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.140>., Registrované v: WOS*

3. [1.1] BONNIN, Estelle - LESSIRE, Michel - WACRENIER, Nathaele - ALLEMAN, Fabien. *Mannose-based polymers in livestock production : the glucomannan-degrading enzymes in swine and poultry feeds. In INRA PRODUCTIONS ANIMALES. ISSN 2273-774X, 2020, vol. 33, no. 4, pp. 295-305. Dostupné na: <https://doi.org/10.20870/productions-animales.2020.33.4.4634>., Registrované v: WOS*

ADCA213 HALAJ, Michal - MATULOVÁ, Mária - ŠUTOVSKÁ, Martina** - BARBORÍKOVÁ, Jana - KAZIMIEROVÁ, Ivana - FRAŇOVÁ, Soňa - PŘIBYL, Pavel - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. *Chemico-physical and pharmacodynamic properties of extracellular Dictyosphaerium chlorelloides biopolymer. In Carbohydrate Polymers, 2018, vol. 198, p. 215-224. (2017: 5.158 - IF, Q1 - JCR, 1.428 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.06.018>*

Citácie:

1. [1.1] LU, Xiaoxing - XIE, Shaoxia - WANG, Lihong - XIE, Hujun - LEI, Qunfang - FANG, Wenjun. *Electrostatic-driven structural transformation in the complexation of lysozyme and kappa-carrageenan. In CHEMICAL PHYSICS. ISSN 0301-0104, 2020, vol. 538, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemphys.2020.110910>., Registrované v: WOS*

2. [1.1] LU, Zhizhuo - WANG, Lihong - XIE, Hujun - LEI, Qunfang - FANG, Wenjun - LU, Xiaoxing. *Structural transitions of ovalbumin/kappa-carrageenan complexes under the effects of pH and composition. In CHEMICAL PHYSICS. ISSN 0301-0104, 2020, vol. 533, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemphys.2020.110733>., Registrované v: WOS*

ADCA214 HALAJ, Michal - PAULOVIČOVÁ, Ema - PAULOVIČOVÁ, Lucia - JANTOVÁ, Soňa - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. *Extracellular biopolymers produced by Dictyosphaerium family - Chemical and immunomodulative properties. In International Journal of Biological Macromolecules, 2019, vol. 121, p. 1254-1263. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.10.116>*

Citácie:

1. [1.1] NAZOS, Theocharis T. - KOKARAKIS, Emmanuel J. - VALSAMI, Eleftheria-Angeliki - STRATIGAKIS, Napoleon-Christoforos - POLONIATAKI, Eleni G. - SFENDOURAKIS, Georgios P. - GHANOTAKIS, Demetrios F. *Characterization of a novel herbicide and antibiotic-resistant Chlorella sp. with an extensive extracellular matrix. In PHOTOSYNTHESIS RESEARCH. ISSN 0166-8595, 2020, vol. 143, no. 3, pp. 315-334. Dostupné na: <https://doi.org/10.1007/s11120-020-00710-5>., Registrované v: WOS*

ADCA215 HALAJ, Michal - PAULOVIČOVÁ, Ema - PAULOVIČOVÁ, Lucia - JANTOVÁ, Soňa - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. *Biopolymer of dictyosphaerium chlorelloides - chemical characterization and biological effects.*

In International Journal of Biological Macromolecules, 2018, vol. 113, p. 1248-1257. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.03.052>

Citácie:

1. [1.1] CHEN, Shan - LI, Jiayuan - FENG, Wenbo - YUAN, Mingzhe - ZHANG, Wei - XU, Houtao - ZHENG, Xiaoyan - WANG, Liqing. Biochemical responses of the freshwater microalga *Dictyosphaerium* sp. upon exposure to three sulfonamides. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2020, vol. 97, no., pp. 141-148. Dostupné na: <https://doi.org/10.1016/j.jes.2020.05.018>., Registrované v: WOS

ADCA216 HANES, J. - VON DER KAMMER, H. - KLAUDINY, Jaroslav - SCHEIT, K.H. Characterization by CDNA cloning of 2 new human protein kinases - evidence by sequence comparison of a new family of mamalian protein kinases. In Journal of Molecular Biology, 1994, vol.244, p. 665-672. ISSN 0022-2836.

Citácie:

1. [1.1] DEKEL, Noa - EISENBERG-DOMOVICH, Yael - KARLAS, Alexander - MEYER, Thomas F. - BRACHER, Franz - LEBENDIKER, Mario - DANIELI, Tsafi - LIVNAH, Oded. Expression, purification and crystallization of CLK1 kinase A potential target for antiviral therapy. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2020, vol. 176, no., pp. Dostupné na: <https://doi.org/10.1016/j.pep.2020.105742>., Registrované v: WOS

2. [1.1] MARTIN MOYANO, Paula - NEMEC, Vaclav - PARUCH, Kamil. Cdc-Like Kinases (CLKs): Biology, Chemical Probes, and Therapeutic Potential. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207549>., Registrované v: WOS

ADCA217 HANSEN, Steen U. - MILLER, Gavin J. - BARÁTH, Marek - BROBERG, Karl R. - AVIZIENYTE, Egle - HELLIWELL, Madeleine - RAFTERY, James - JAYSON, Gordon C. - GARDINER, John M. Synthesis and scalable conversion of L-iduronamides to heparin-related di- and tetrasaccharides. In Journal of Organic Chemistry, 2012, vol. 77, p. 7823-7843. (2011: 4.450 - IF, Q1 - JCR, 2.265 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-3263. Dostupné na: <https://doi.org/10.1021/jo300722y>

Citácie:

1. [1.1] WANG, Liming - ZHANG, Yongzhen - OVERKLEEF, Herman S. - VAN DER MAREL, Gijsbert A. - CODEE, Jeroen D. C. Reagent Controlled Glycosylations for the Assembly of Well-Defined Pel Oligosaccharides. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15872-15884. Dostupné na: <https://doi.org/10.1021/acs.joc.0c00703>., Registrované v: WOS

ADCA218 HANSEN, Steen Uldall - DALTON, Charlotte E. - BARÁTH, Marek - KWAN, Glenn - RAFTERY, James - JAYSON, Gordon Charles - MILLER, Gavin John - GARDINER, John Michael. Synthesis of L-iduronic acid derivatives via [3.2.1] and [2.2.2] L-iduronic lactones from bulk glucose-derived cyanohydrin hydrolysis: A reversible conformationally-switched super-disarmed/re-armed lactone route to heparin disaccharides. In Journal of Organic Chemistry, 2015, vol. 80, p. 3777-3789. (2014: 4.721 - IF, Q1 - JCR, 2.007 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0022-3263. Dostupné na: <https://doi.org/10.1021/jo502776f>

Citácie:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited:

How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052.>, Registrované v: WOS

2. [1.1] JEANNERET, Robin A. - JOHNSON, Simon E. - GALAN, M. Carmen. *Conformationally Constrained Glycosyl Donors as Tools to Control Glycosylation Outcomes. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15801-15826. Dostupné na: <https://doi.org/10.1021/acs.joc.0c02045.>, Registrované v: WOS*

3. [1.1] SHEPPARD, Daniel J. - CAMERON, Scott A. - TYLER, Peter C. - SCHWORER, Ralf. *Comparison of disaccharide donors for heparan sulfate synthesis: uronic acids vs. their pyranose equivalents. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 25, pp. 4728-4733. Dostupné na: <https://doi.org/10.1039/d0ob00671h.>, Registrované v: WOS*

ADCA219 HEASOVÁ, Zuzana - KOŠÍK, Ivan - ONDREJOVIČ, Miroslav - MIERTUŠ, Stanislav - KATRLÍK, Jaroslav**. *Methods and current trends in determination of neuraminidase activity and evaluation of neuraminidase inhibitors. In Critical Reviews in Analytical Chemistry, 2019, vol. 49, p. 350-367. (2018: 4.325 - IF, Q1 - JCR, 0.852 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1040-8347. Dostupné na: <https://doi.org/10.1080/10408347.2018.1531692>*

Citácie:

1. [1.1] YUAN, Lei - ZHAO, Yu - SUN, Xue-Long. *Sialidase substrates for Sialidase assays-activity, specificity, quantification and inhibition. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2020, vol. 37, no. 5, pp. 513-531. Dostupné na: <https://doi.org/10.1007/s10719-020-09940-0.>, Registrované v: WOS*

ADCA220 HORVÁTHOVÁ, Eva** - MASTIHUBOVÁ, Mária - KARNÍŠOVÁ POTOCKÁ, Elena - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - Klapáková, Martina - HUNÁKOVÁ, Ľuba - MASTIHUBA, Vladimír. *Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells culture in vitro. In Toxicology in vitro : the official journal of the European Society for Toxicology in Vitro, 2019, vol. 61, art.no. 104646. (2018: 3.067 - IF, Q2 - JCR, 0.895 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0887-2333. Dostupné na: <https://doi.org/10.1016/j.tiv.2019.104646> (VEGA 2/0084/16 : Štúdium protektívneho potenciálu syntetizovaných fenyletanoidných glykozidov v systémoch cicavčích buniek a plazmidovej DNA. TRANSMED 1 e.č. 26240120008 : Centrum excelentnosti pre translačný výskum v molekulárnej medicíne (TRANSMED1). ITMS 26240220071 KC UK : Vybudovanie Kompetenčného centra pre výskum a vývoj v oblasti molekulárnej medicíny)*

Citácie:

1. [1.1] SHU, P.H. - ZHANG, L.X. - LIU, A.Q. - LI, J.P. - LIU, Q. - SUN, N. - ZHANG, Y.L. - WEI, X.L. - CUI, M.Y. - JU, Z.Y. - XU, Z.H. *Six Natural Phenylethanoid Glycosides: Total Synthesis, Antioxidant and Tyrosinase Inhibitory Activities. In CHEMISTRYSELECT. ISSN 2365-6549, SEP 22 2020, vol. 5, no. 35, p. 10817-10820., Registrované v: WOS*

2. [1.1] SHU, Penghua - ZHANG, Lingxiang - LIU, Anqi - LI, Junping - LIU, Qing - SUN, Na - ZHANG, Yanling - WEI, Xialan - CUI, Mengyao - JU, Zhiyu - XU, Zhihong. *Six Natural Phenylethanoid Glycosides: Total Synthesis, Antioxidant and Tyrosinase Inhibitory Activities. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 35, pp. 10817-10820. Dostupné na:*

- <https://doi.org/10.1002/slct.202002608>., Registrované v: WOS
- ADCA221 HORVÁTHOVÁ, Marta - MISLOVIČOVÁ, Danica - ŠOLTÉS, Ladislav - TUZAR, Z. - GEMEINER, Peter - ŽÚBOR, V. Preparation and molecular characterization of carboxymethylglucan fractions. In Carbohydrate Polymers, 1991, vol. 15, no.1, p. 79-87. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/0144-8617\(91\)90021-4](https://doi.org/10.1016/0144-8617(91)90021-4)
- Citácie:
1. [1.1] TAUBNER, T. - MAROUNEK, M. - SYNYTSYA, A. Preparation and characterization of hydrophobic and hydrophilic amidated derivatives of carboxymethyl chitosan and carboxymethyl beta-glucan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 1433-1443., Registrované v: WOS
- ADCA222 HORVÁTHOVÁ, Marta - ŠOLTÉS, Ladislav - MISLOVIČOVÁ, Danica - ŽÚBOR, V. - FUGEDI, A. High-performance gel permeation chromatography of water-soluble β -1,3-glucans. In Journal of Chromatography A : international Journal on Chromatography, Electrophoresis and Related Methods, 1990, vol.509, no.1, p.213-218. ISSN 0021-9673. Dostupné na: [https://doi.org/10.1016/S0021-9673\(01\)93255-8](https://doi.org/10.1016/S0021-9673(01)93255-8)
- Citácie:
1. [1.1] SHOAIB, M. - QUADRI, S.M.R. - WANI, O.B. - BOBICKI, E. - GARRIDO, G.I. - ELKAMEL, A. - ABDALA, A. Adsorption of enhanced oil recovery polymer, schizophyllan, over carbonate minerals. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, art. no. 116263., Registrované v: WOS
- ADCA223 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RAPTA, P. - ŠOLTÉS, Ladislav. Alternative standard for TEAC estimation based on thiol antioxidants. Comparative ABTS decolorization and rotational viscometry study regarding hyaluronan degradation. In Chemistry and Biodiversity, 2010, vol. 7, p. 2191-2200. (2009: 1.926 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [1.1] ANKAMAH, Emmanuel - SEBAG, J. - NG, Eugene - NOLAN, John M. Vitreous Antioxidants, Degeneration, and Vitreo-Retinopathy: Exploring the Links. In ANTIOXIDANTS, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/antiox9010007>., Registrované v: WOS
- ADCA224 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RAPTA, Peter - ŠOLTÉS, Ladislav. An alternative standard for Trolox-equivalent antioxidant-capacity estimation base on thiol antioxidants. Comparative 2,2'-azinobis[3-ethylbenzothiazoline-6-sulfonic acid] decolorization and rotational viscometry study regarding hyaluronan degradation. In Chemistry & biodiversity, 2010, vol. 7, no. 9, p. 2191-2200. (2009: 1.926 - IF, Q2 - JCR, 0.671 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.201000019>
- Citácie:
1. [1.1] ANKAMAH, E. - SEBAG, J. - NG, E. - NOLAN, J.M. Vitreous Antioxidants, Degeneration, and Vitreo-Retinopathy: Exploring the Links. In ANTIOXIDANTS. eISSN: 2076-3921, 2020, vol. 9, no. 1, art. no. 7., Registrované v: WOS
- ADCA225 HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTÉS, Ladislav. Peroxynitrite: in vivo and in vitro synthesis and oxidant degradative action on biological systems regarding biomolecular injury and inflammatory processes. In Chemical papers, 2007, vol. 61, no. 6, p. 417-437. (2006: 0.360 - IF, Q4 - JCR, 0.186 - SJR, Q2 - SJR,

karentované - CCC). (2007 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-007-0058-8>

Citácie:

1. [1.2] *ABALENIKHINA, Yu V. - KOSMACHEVSKAYA, O. V. - TOPUNOV, A. F. Peroxynitrite: Toxic Agent and Signaling Molecule (Review). In Applied Biochemistry and Microbiology. ISSN 00036838, 2020-11-01, 56, 6, pp. 611-623., Registrované v: SCOPUS*

- ADCA226 HRADILOVÁ, Ludmila - POLÁKOVÁ, Monika - DVOŘÁKOVÁ, Barbora - HAJDÚCH, Marián - PETRUŠ, Ladislav. Synthesis and cytotoxicity of some D-mannose click conjugates with aminobenzoic acid derivatives. In Carbohydrate Research, 2012, vol. 361, p. 1-6. (2011: 2.332 - IF, Q2 - JCR, 0.762 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2012.08.001>

Citácie:

1. [1.1] *KRATKY, Martin - KONECNA, Klara - JANOUSEK, Jiri - BRABLIKOVA, Michaela - JAND', OUREK, Ondrej - TREJTAR, Frantisek - STOLARIKOVA, Jirina - VINSOVA, Jarmila. 4-Aminobenzoic Acid Derivatives: Converting Folate Precursor to Antimicrobial and Cytotoxic Agents. In BIOMOLECULES, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.3390/biom10010009>., Registrované v: WOS*

- ADCA227 HRICOVÍNI, Michal - DVORANOVÁ, Dana - BARBIERIKOVÁ, Zuzana - JANTOVÁ, Soňa - BELLA, Maroš - ŠORAL, Michal - BREZOVÁ, Vlasta. 6-Nitroquinolones in dimethylsulfoxide: Spectroscopic characterization and photoactivation of molecular oxygen. In Journal of Photochemistry and Photobiology. A: Chemistry, 2017, vol. 332, p. 112-121. (2016: 2.625 - IF, Q2 - JCR, 0.749 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1010-6030. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2016.08.016>

Citácie:

1. [1.1] *GONCALVES, Pablo J. - BEZZERRA, Fabio C. - TELES, Amanda - MENEZES, Lucas B. - ALVES, Kamilla M. - ALONSO, Lais - ALONSO, Antonio - ANDRADE, Maria A. - BORISSEVITCH, Iouri E. - SOUZA, Guilherme R. L. - IGLESIAS, Bernardo A. Photoinactivation of Salmonella enterica (serovar Typhimurium) by tetra-cationic porphyrins containing peripheral [Ru(bpy)(2)Cl](+) units. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2020, vol. 391, no., pp. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2020.112375>., Registrované v: WOS*

- ADCA228 HRICOVÍNI, Michal** - MAZUR, Milan - SIRBU, Angela - PALMARCIUC, Oleg - ARION, Vladimír - BREZOVÁ, Vlasta. Copper(II) Thiosemicarbazone Complexes and Their Proligands upon UVA Irradiation: An EPR and Spectrophotometric Steady-State Study. In Molecules, 2018, vol. 23, art. no. 721, [17] p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules23040721>

Citácie:

1. [1.1] *EL-SAWAF, Ayman K. - ANOUAR, El Hassane. Nano-synthesis, spectroscopic characterization, quantum chemical calculations, thermal properties and antimicrobial activity of (E)-N'-(2-hydroxybenzylidene)morpholine-4-carbothiohydrazide ligand and its metal complexes. In INORGANICA CHIMICA ACTA. ISSN 0020-1693, 2020, vol. 500, no., pp. Dostupné na: <https://doi.org/10.1016/j.ica.2019.119221>., Registrované v: WOS*

2. [1.1] ELAMATHI, C. - FRONCZEK, Frank R. - MADANKUMAR, A. - PRABHAKARAN, R. *Synthesis and spectral characterizations of water soluble Cu(II) complexes containing N-heterocyclic chelates: cell-proliferation, antioxidant and nucleic acid/serum albumin interactions.* In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2020, vol. 44, no. 10, pp. 4158-4170. Dostupné na: <https://doi.org/10.1039/c9nj04136b>., Registrované v: WOS
3. [1.1] MURINOV, Yu. I. - GRABOVSKII, S. A. - KABAL', NOVA, N. N. *Pro- and antioxidant properties of uracil derivatives.* In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2019, vol. 68, no. 5, pp. 946-954. Dostupné na: <https://doi.org/10.1007/s11172-019-2505-4>., Registrované v: WOS
4. [1.2] OHUI, Kateryna - BABAK, Maria V. - DARVASIOVA, Denisa - ROLLER, Alexander - VEGH, Daniel - RAPTA, Peter - GUAN, Grace Rui Shi - OU, Yi Hsuan - PASTORIN, Giorgia - ARION, Vladimir B. *Redox-Active Organoruthenium(II)- and Organoosmium(II)-Copper(II) Complexes, with an Amidrazone-Morpholine Hybrid and [Cu^ICl[∞]]⁻ as Counteranion and Their Antiproliferative Activity.* In *Organometallics*. ISSN 02767333, 2019-05-28, 38, 10, pp. 2307-2318. Dostupné na: <https://doi.org/10.1021/acs.organomet.9b00229>., Registrované v: SCOPUS
5. [1.2] WAHEED, Enass J. - JAAFAR, Wurood A. - AHMED, Awf A.R. *VARIOUS APPLICATIONS OF CARBAZONE DERIVATIVES AND THEIR METAL COMPLEXES : A REVIEW.* In *Biochemical and Cellular Archives*. ISSN 09725075, 2019-10-01, 19, 2, pp. 4365-4377. Dostupné na: <https://doi.org/10.35124/bca.2019.19.2.4365>., Registrované v: SCOPUS

ADCA229 HRICOVÍNI, Miloš - GUERRINI, M. - BISIO, O. - TORRI, G. - PETITOU, M. - CASU, B. *Conformation of heparin pentasaccharide bound to antithrombin III.* In *Biochemical Journal*, 2001, vol. 359, p. 265-272. ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/0264-6021:3590265>

Citácie:

1. [1.1] GULBERTI, Sandrine - MAO, Xianqing - BUI, Catherine - FOURNEL-GIGLEUX, Sylvie. *The role of heparan sulfate maturation in cancer: A focus on the 3O-sulfation and the enigmatic 3O-sulfotransferases (HS3STs).* In *SEMINARS IN CANCER BIOLOGY*. ISSN 1044-579X, 2020, vol. 62, no., pp. 68-85. Dostupné na: <https://doi.org/10.1016/j.semcancer.2019.10.009>., Registrované v: WOS
2. [1.1] QIAO, Meng - LIN, Lei - XIA, Ke - LI, Jun - ZHANG, Xing - LINHARDT, Robert J. *Recent advances in biotechnology for heparin and heparan sulfate analysis.* In *TALANTA*. ISSN 0039-9140, 2020, vol. 219, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121270>., Registrované v: WOS
3. [1.1] SCHWARZ, Markus - SKRINJAR, Philipp - FINK, Michael J. - KRONISTER, Stefan - MECHTLER, Thomas - KOUKOS, Panagiotis - BONVIN, Alexandre M. J. J. - KASPER, David C. - MIKULA, Hannes. *A click-flipped enzyme substrate boosts the performance of the diagnostic screening for Hunter syndrome.* In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2020, vol. 11, no. 47, pp. Dostupné na: <https://doi.org/10.1039/d0sc04696e>., Registrované v: WOS

ADCA230 HRICOVÍNI, Miloš - BÍZIK, F. *Relationship between structure and three-bond proton-proton coupling constants in glycosaminoglycans.* In *Carbohydrate Research*, 2007, vol.342, p.779-783. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.01.003>

Citácie:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOLIJMAN, Huub - KELLENBACH, Edwin R. *The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR*

- coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS*
- ADCA231 HRICOVÍNI, Miloš. Structural aspects of carbohydrates and the relation with their biological properties. In Current Medicinal Chemistry, 2004, vol. 11, p. 2565-2583. ISSN 0929-8673. Dostupné na: <https://doi.org/10.2174/0929867043364414>
Citácie:
1. [1.1] *SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>., Registrované v: WOS*
2. [1.1] *STROYLOV, Victor - PANOVA, Maria - TOUKACH, Philip. Comparison of Methods for Bulk Automated Simulation of Glycosidic Bond Conformations. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207626>., Registrované v: WOS*
- ADCA232 HRICOVÍNI, Miloš** - HRICOVÍNI, Michal. Solution conformation of heparin tetrasaccharide. DFT analysis of structure and spin-spin Coupling constants. In Molecules, 2018, vol. 23, art. no. 3042, 12s. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules23113042>
Citácie:
1. [1.1] *TOWNSEND, David - FULLWOOD, Nigel J. - YATES, Edwin A. - MIDDLETON, David A. Aggregation Kinetics and Filament Structure of a Tau Fragment Are Influenced by the Sulfation Pattern of the Cofactor Heparin. In BIOCHEMISTRY. ISSN 0006-2960, 2020, vol. 59, no. 41, pp. 4003-4014. Dostupné na: <https://doi.org/10.1021/acs.biochem.0c00443>., Registrované v: WOS*
- ADCA233 HRICOVÍNI, Miloš - TORRI, G. Dynamics in aqueous solutions of pentasaccharide corresponding to the binding site of heparin for antithrombin III studied by NMR relaxation measurement. In Carbohydrate Research, 1995, vol. 268, p. 159-175. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00334-C](https://doi.org/10.1016/0008-6215(94)00334-C)
Citácie:
1. [1.1] *ELLI, Stefano - STANCANELLI, Eduardo - WANG, Zhangjie - PETITOU, Maurice - LIU, Jian - GUERRINI, Marco. Degeneracy of the Antithrombin Binding Sequence in Heparin: 2-O-Sulfated Iduronic Acid Can Replace the Critical Glucuronic Acid. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2020, vol. 26, no. 51, pp. 11814-11818. Dostupné na: <https://doi.org/10.1002/chem.202001346>., Registrované v: WOS*
2. [1.1] *SCHNUR, Einat - RUDD, Timothy R. The interaction between oxytocin and heparin. In RSC ADVANCES, 2020, vol. 10, no. 47, pp. 28300-28313. Dostupné na: <https://doi.org/10.1039/d0ra04204h>., Registrované v: WOS*
- ADCA234 HRICOVÍNI, Miloš. B3LYP/6-311++G** study of structure and spin-spin constant in methyl 2-O-sulfo-alfa-L-iduronate. In Carbohydrate Research, 2006, vol. 341, p. 2575-2580. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.07.010>
Citácie:
1. [1.1] *HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOLIJMAN, Huub - KELLENBACH, Edwin R. The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR*

coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS

- ADCA235 HRICOVÍNIOVÁ, Jana - ŠEVČOVIČOVÁ, Andrea - HRICOVÍNIOVÁ, Zuzana**. Evaluation of the genotoxic, DNA-protective and antioxidant profile of synthetic alkyl gallates and gallotannins using in vitro assays. In Toxicology in Vitro : the official journal of the European Society for Toxicology in Vitro, 2020, vol. 65, art. no. 104789 [11] p. (2019: 2.959 - IF, Q2 - JCR, 0.799 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0887-2333. Dostupné na: <https://doi.org/10.1016/j.tiv.2020.104789> (VEGA 2/0022/18 : Nové prekursorzy pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou)

Citácie:

1. [1.1] KOSTYUK, Svetlana V. - PROSKURNINA, Elena V. - SAVINOVA, Ekaterina A. - ERSHOVA, Elizaveta S. - KRAEVAYA, Olga A. - KAMENEVA, Larisa V. - UMYUKHIN, Pavel E. - DOLGIKH, Olga A. - KUTSEV, Sergey I. - TROSHIN, Pavel A. - VEIKO, Natalia N. Effects of Functionalized Fullerenes on ROS Homeostasis Determine Their Cytoprotective or Cytotoxic Properties. In NANOMATERIALS, 2020, vol. 10, no. 7, pp. 1405, Registrované v: WOS
2. [1.2] AL ZHRANI, Nourah A. - EL-SHISHTAWY, Reda M. - ASIRI, Abdullah M. Recent developments of gallic acid derivatives and their hybrids in medicinal chemistry: A review. In European Journal of Medicinal Chemistry. ISSN 02235234, 2020-10-15, 204, pp., Registrované v: SCOPUS

- ADCA236 HRICOVÍNIOVÁ, Zuzana - HRICOVÍN, Miloš. An efficient of novel L-rhamnose based non-ionic surfactants under controlled microwave irradiation. In Tetrahedron : Asymmetry, 2014, vol. 25, p. 1008-1014. (2013: 2.165 - IF, Q2 - JCR, 0.965 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2014.05.012>

Citácie:

1. [1.1] ROBINEAU, Mathilde - LE GUENIC, Sarah - SANCHEZ, Lisa - CHAVERIAT, Ludovic - LEQUART, Vincent - JOLY, Nicolas - CALONNE, Maryline - JACQUARD, Cedric - DECLERCK, Stephane - MARTIN, Patrick - DOREY, Stephan - BARKA, Essaid Ait. Synthetic Mono-Rhamnolipids Display Direct Antifungal Effects and Trigger an Innate Immune Response in Tomato against Botrytis Cinerea. In MOLECULES, 2020, vol. 25, no. 14, pp. Dostupné na: <https://doi.org/10.3390/molecules25143108>., Registrované v: WOS

- ADCA237 HRICOVÍNIOVÁ, Zuzana - HRICOVÍN, Michal - BREZOVÁ, Vlasta - MAGDOLEN, Peter. New series of N-aryl- and N-heteroaryl-D-glucuronamides as potential anticancer agents: synthesis and spectroscopic analysis. In Tetrahedron : Asymmetry, 2016, vol. 27, p. 361-368. (2015: 2.108 - IF, Q2 - JCR, 0.769 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0957-4166. Dostupné na: <https://doi.org/10.1016/j.tetasy.2016.02.015>

Citácie:

1. [1.1] HAO, Shuang - LIN, Shuai - WANG, Xin - AN, Ran - GUO, Mengbi - WANG, Yuanxin - CHENG, Xue - XU, Hang - YANG, Xiaoguang - HOU, Zhuang - GUO, Chun. Sequential one-pot synthesis of (1> 6) amide-linked oligosaccharide mimetics under mild conditions. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2020, vol. 39, no. 5-6, pp. 267-287. Dostupné na: <https://doi.org/10.1080/07328303.2020.1798456>., Registrované v: WOS

- ADCA238 HRICOVÍNIOVÁ, Zuzana. Xylans are a valuable alternative resource: Production of D-xylose, D-lyxose and furfural under microwave irradiation. In Carbohydrate

Polymers : scientific and technological aspects of industrially important polysaccharides, 2013, vol. 98, p. 1416-1421. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.07.066>

Citácie:

1. [1.1] PADILLA-RASCON, Carmen - ROMERO-GARCIA, Juan Miguel - RUIZ, Encarnacion - CASTRO, Eulogio. Optimization with Response Surface Methodology of Microwave-Assisted Conversion of Xylose to Furfural. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163574>., Registrované v: WOS

2. [1.1] XU, C. - PAONE, E. - RODRIGUEZ-PADRON, D. - LUQUE, R. - MAURIELLO, F. Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2020, vol. 49, no. 13, pp. 4273-4306. Dostupné na: <https://doi.org/10.1039/d0cs00041h>., Registrované v: WOS

ADCA239 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária - PETRÁKOVÁ, Eva. Induction of cellulose- and xylan-degrading enzyme complex in the yeast Trichosporon cutaneum. In Archives of Microbiology, 1984, vol. 138, p. 371-376. ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/BF00410906>

Citácie:

1. [1.1] CHATTOPADHYAY, Atrayee - MAITI, Mrinal K. Efficient xylose utilization leads to highest lipid productivity in Candida tropicalis SY005 among six yeast strains grown in mixed sugar medium. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 7, pp. 3133-3144. Dostupné na: <https://doi.org/10.1007/s00253-020-10443-z>., Registrované v: WOS

2. [1.1] NAJJARZADEH, Nasim - MATSAKAS, Leonidas - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Effect of Oligosaccharide Degree of Polymerization on the Induction of Xylan-Degrading Enzymes by Fusarium oxysporum f. sp. Lycopersici. In MOLECULES, 2020, vol. 25, no. 24, pp. Dostupné na: <https://doi.org/10.3390/molecules25245849>., Registrované v: WOS

ADCA240 HRMOVÁ, Mária - PETRÁKOVÁ, Eva - BIELY, Peter. Induction of cellulose-degrading and xylan-degrading enzyme systems in Aspergillus terreus by homodisaccharides and heterodisaccharides composed of glucose and xylose. In Journal of General Microbiology, 1991, vol. 137, p. 541-547.

Citácie:

1. [1.1] IDDER-IGHILI, H. - AGUSTIAN, A. - IDDER, M. A. - GUILLAUMIN, J. J. - WIPF, D. - BOTTON, B. Production of beta-glucosidases by European Armillaria species. In FOREST PATHOLOGY. ISSN 1437-4781, 2020, vol. 50, no. 5, pp. Dostupné na: <https://doi.org/10.1111/efp.12624>., Registrované v: WOS

ADCA241 HRMOVÁ, Mária - MACGREGOR, E.A. - BIELY, Peter - STEWART, R.J. - FINCHER, G.B. Substrate binding and catalytic mechanism of a barley beta-D-glucosidase/(1,4)-D-glucan exohydrolase. In Journal of Biological Chemistry, 1998, vol. 273, p. 11134-11143. (1997: 6.963 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.273.18.11134>

Citácie:

1. [1.1] CHUKHCHIN, Dmitry G. - BOLOTOVA, Ksenia - SINELNIKOV, Igor - CHURILOV, Dmitry - NOVOZHILOV, Evgeniy. Exosomes in the phloem and xylem of woody plants. In PLANTA. ISSN 0032-0935, 2020, vol. 251, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00425-019-03315-y>., Registrované v: WOS

ADCA242 HRMOVÁ, Mária - FARKAŠ, Vladimír - LAHNSTEIN, J. - FINCHER, G.B. A barley xyloglucan xyloglucosyl transferase covalently links xyloglucan, cellulosic

substrates, and (1,3/1,4)-beta-D-glucans. In *Journal of Biological Chemistry*, 2007, vol. 282, p. 12951-12962. (2006: 5.808 - IF, Q1 - JCR, 4.352 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M611487200>

Citácie:

1. [1.1] DECOU, R. - LABROUSSE, P. - BERE, E. - FLEURAT-LESSARD, P. - KRAUSZ, P. *Structural features in tension wood and distribution of wall polymers in the G-layer of in vitro grown poplars. In PROTOPLASMA. ISSN 0033-183X, JAN 2020, vol. 257, no. 1, p. 13-29., Registrované v: WOS*
2. [1.1] FRANKOVA, L. - FRY, S.C. *Activity and Action of Cell-Wall Transglycanases. In PLANT CELL WALL, 2 EDITION: Methods and Protocols. ISSN 1064-3745, 2020, vol. 2149, p. 165-192., Registrované v: WOS*
3. [1.1] HERBURGER, K. - FRANKOVA, L. - PICMANOVA, M. - LOH, J.W. - VALENZUELA-ORTEGA, M. - MEULEWAETER, F. - HUDSON, A.D. - FRENCH, C.E. - FRY, S.C. *Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In MOLECULAR PLANT. ISSN 1674-2052, JUL 6 2020, vol. 13, no. 7, p. 1047-1062., Registrované v: WOS*
4. [1.1] HERBURGER, K. - FRANKOVA, L. - SANHUEZA, D. - ROIG-SANCHEZ, S. - MEULEWAETER, F. - HUDSON, A. - THOMSON, A. - LAROMAIN, A. - BUDTOVA, T. - FRY, S.C. *Enzymically attaching oligosaccharide-linked 'cargoes' to cellulose and other commercial polysaccharides via stable covalent bonds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 4359-4369., Registrované v: WOS*
5. [1.1] HOLLAND, C. - SIMMONS, T.J. - MEULEWAETER, F. - HUDSON, A. - FRY, S.C. *Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, AUG 2020, vol. 251., Registrované v: WOS*
6. [1.1] KUSHWAH, S. - BANASIAK, A. - NISHIKUBO, N. - DERBA-MACELUCH, M. - MAJDA, M. - ENDO, S. - KUMAR, V. - GOMEZ, L. - GORZSAS, A. - MCQUEEN-MASON, S. - BRAAM, J. - SUNDBERG, B. - MELLEROWICZ, E.J. *Arabidopsis XTH4 and XTH9 Contribute to Wood Cell Expansion and Secondary Wall Formation(1)([OPEN]). In PLANT PHYSIOLOGY. ISSN 0032-0889, APR 2020, vol. 182, no. 4, p. 1946-1965., Registrované v: WOS*
7. [1.1] SINGH, M. - PAHAL, V. - AHUJA, D. *Isolation and characterization of microfibrillated cellulose and nanofibrillated cellulose with "biomechanical hotspots". In CARBOHYDRATE POLYMERS. ISSN 0144-8617, APR 15 2020, vol. 234., Registrované v: WOS*
8. [1.1] YOKOYAMA, R. *A Genomic Perspective on the Evolutionary Diversity of the Plant Cell Wall. In PLANTS-BASEL. SEP 2020, vol. 9, no. 9., Registrované v: WOS*

ADCA243 HRMOVÁ, Mária - BURTON, R.A. - BIELY, Peter - LAHNSTEIN, J. - FINCHER, G.B. *Hydrolysis of (1,4)-beta-D-mannans in barley (Hordeum vulgare L.) is mediated by the connected action of (1,4)-beta-mannan endohydrolase and beta-D-mannosidase. In Biochemical Journal, 2006, vol. 399, p. 77-90. (2005: 4.224 - IF, Q1 - JCR, 2.607 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20060170>*

Citácie:

1. [1.1] IGLESIAS-FERNANDEZ, Raquel - PASTOR-MORA, Elena - VICENTE-

CARBAJOSA, Jesus - CARBONERO, Pilar. *A Possible Role of the Aleurone Expressed Gene HvMAN1 in the Hydrolysis of the Cell Wall Mannans of the Starchy Endosperm in Germinating Hordeum vulgare L. Seeds.* In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2019.01706>., Registrované v: WOS
2. [1.1] WANG, Bo - ZHANG, Weimin - BAI, Xinpeng - LI, Congfa - XIANG, Dong. *Rheological and physicochemical properties of polysaccharides extracted from stems of Dendrobium officinale.* In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105706>., Registrované v: WOS

ADCA244

HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - ŠANDULA, Jozef - HŘÍBALOVÁ, V. - OMELKOVÁ, Jiřina. Influence of the drying method on the physical properties and immunomodulatory activity of the particulate (1-3)-beta-D-glucan from *Saccharomyces cerevisiae*. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2003, vol. 51, p. 9-15. (2002: 1.655 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] ROTREKL, Dominik - DEVRIENDT, Bert - COX, Eric - KAVANOVA, Lenka - FALDYNA, Martin - SALAMUNOVA, Petra - BAD'Ů, Zuzana - PROKOPEC, Vadym - STEPANEK, Frantisek - HANUS, Jaroslav - HOSEK, Jan. *Glucan particles as suitable carriers for the natural anti-inflammatory compounds curcumin and diplacone Evaluation in an ex vivo model.* In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2020, vol. 582, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2020.119318>., Registrované v: WOS
2. [1.1] RUPHUY, Gabriela - SALON, Ivan - TOMAS, Jan - SALAMUNOVA, Petra - HANUS, Jaroslav - STEPANEK, Frantisek. *Encapsulation of poorly soluble drugs in yeast glucan particles by spray drying improves dispersion and dissolution properties.* In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2020, vol. 576, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijpharm.2019.118990>., Registrované v: WOS
3. [1.1] TAKALLOO, Zeinab - NIKKHAH, Mohsen - NEMATİ, Robabeh - JALILIAN, Nezam - SAJEDI, Reza H. *Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (*Saccharomyces cerevisiae*): a comparative study.* In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02840-3>., Registrované v: WOS
4. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. *Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith.* In *POLYMERS*, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
5. [1.1] YOON, S. A. - CHA, S. H. - JUN, S. W. - PARK, S. J. - PARK, J-Y - LEE, S. - KIM, H. S. - AHN, Y. H. *Identifying different types of microorganisms with terahertz spectroscopy.* In *BIOMEDICAL OPTICS EXPRESS*. ISSN 2156-7085, 2020, vol. 11, no. 1, pp. 406-416. Dostupné na: <https://doi.org/10.1364/BOE.376584>., Registrované v: WOS

ADCA245

HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Comparison of conventional and ultrasound-assisted extraction of phenolics-rich heteroxylans from wheat bran. In *Ultrasonics Sonochemistry*, 2008, vol.15, p. 1062-1068. (2007: 2.434 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). ISSN 1350-4177. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2008.04.008>

Citácie:

1. [1.1] ABORAGAH, Ahmed - EMBABY, Mohammed - GUNAL, Mevlut - ABUGHAZALEH, Amer. *Effect of alkaline and sonication pretreatments on the rumen degradability of date palm seeds. In TROPICAL ANIMAL HEALTH AND PRODUCTION. ISSN 0049-4747, 2020, vol. 52, no. 2, pp. 771-776. Dostupné na: <https://doi.org/10.1007/s11250-019-02068-w>, Registrované v: WOS*
2. [1.1] ALVARADO-MARTINEZ, Zabdiel - ADITYA, Arpita - BISWAS, Debabrata. *Plant antioxidants, extraction strategies, and their application in meat. In MEAT QUALITY ANALYSIS: ADVANCED EVALUATION METHODS, TECHNIQUES, AND TECHNOLOGIES, 2020, vol., no., pp. 241-264. Dostupné na: <https://doi.org/10.1016/B978-0-12-819233-7.00014-8>, Registrované v: WOS*
3. [1.1] ALVARADO-MARTINEZ, Zabdiel - ADITYA, Arpita - BISWAS, Debabrata. *Plant antioxidants, extraction strategies, and their application in meat. In MEAT QUALITY ANALYSIS: ADVANCED EVALUATION METHODS, TECHNIQUES, AND TECHNOLOGIES, 2020, vol., no., pp. 241-264., Registrované v: WOS*
4. [1.1] CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi - PALANISAMY, Subramanian - TALAPPHET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. *Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>, Registrované v: WOS*
5. [1.1] KHOSRAVI, Azin - RAZAVI, Seyed Hadi - FADDA, Anna Maria. *Advanced assessments on innovative methods to improve the bioaccessibility of polyphenols in wheat. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 88, no., pp. 1-14. Dostupné na: <https://doi.org/10.1016/j.procbio.2019.09.005>, Registrované v: WOS*
6. [1.1] OBAROAKPO, Joy Ujiroghene - LIU, Lu - ZHANG, Shuwen - LU, Jing - LIU, Liu - PANG, Xiaoyang - LV, Jiaping. *In vitro modulation of glucagon-like peptide release by DPP-IV inhibitory polyphenol-polysaccharide conjugates of sprouted quinoa yoghurt. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 324, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.126857>, Registrované v: WOS*
7. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. *Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>, Registrované v: WOS*
8. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. *Pectins as a universal medicine. In FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>, Registrované v: WOS*

ADCA246

HROMÁDKOVÁ, Zdenka - KOVÁČIKOVÁ, J. - EBRINGEROVÁ, Anna. Study of the classical and ultrasound-assisted extraction of the corn cob xylan. In *Industrial crops and products : An international journal*, 1999, vol. 9, p. 101-109. ISSN 0926-6690. Dostupné na: [https://doi.org/10.1016/S0926-6690\(98\)00020-X](https://doi.org/10.1016/S0926-6690(98)00020-X)

Citácie:

1. [1.1] DREVELEGKA, Ioanna - GOULA, Athanasia M. *Recovery of grape pomace phenolic compounds through optimized extraction and adsorption processes. In CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION. ISSN 0255-2701, 2020, vol. 149, no., pp. Dostupné na:*

- <https://doi.org/10.1016/j.cep.2020.107845>., Registrované v: WOS
2. [1.1] LOUIS, Antony Catherine Flora - VENKATACHALAM, Sivakumar. Energy efficient process for valorization of corn cob as a source for nanocrystalline cellulose and hemicellulose production. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 260-269. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.276>., Registrované v: WOS
3. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS
4. [1.1] WANG, Baobin - RAN, Miao - FANG, Guigan - WU, Ting - NI, Yonghao. Biochars from Lignin-rich Residue of Furfural Manufacturing Process for Heavy Metal Ions Remediation. In MATERIALS, 2020, vol. 13, no. 5, pp. Dostupné na: <https://doi.org/10.3390/ma13051037>., Registrované v: WOS
5. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against Escherichia coli Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS

ADCA247 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - VRCHOTOVÁ, Nadežda - EBRINGEROVÁ, Anna. Non- cellulosic polysaccharides from the leaves of small balsam (*Impatiens parviflora* DC.). In Carbohydrate Research, 2014, vol. 389, p. 147-153. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] GRABOWSKA, Karolina - WROBEL, Dagmara - ZMUDZKI, Pawel - PODOLAK, Irma. Anti-inflammatory activity of saponins from roots of *Impatiens parviflora* DC. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2020, vol. 34, no. 11, pp. 1581-1585. Dostupné na: <https://doi.org/10.1080/14786419.2018.1519708>., Registrované v: WOS
2. [1.1] SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the *Cercidium praecox* exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115388>., Registrované v: WOS
3. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W. Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS
4. [1.1] ZOU, Yuan-Feng - ZHANG, Yan-Yun - PAULSEN, Berit Smestad - RISE, Frode - CHEN, Zheng-Li - JIA, Ren-Yong - LI, Li-Xia - SONG, Xu - FENG, Bin - TANG, Hua-Qiao - HUANG, Chao - YIN, Zhong-Qiong. Structural features of pectic polysaccharides from stems of two species of *Radix Codonopsis* and their antioxidant activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 704-713. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.083>., Registrované v:

WOS

- ADCA248 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna. The structural, molecular and functional properties of lignin-containing beechwood glucuronoxylan. In *Macromolecular Symposia*, 2006, vol. 232, p. 19-26. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551403>

Citácie:

1. [1.1] MIKKONEN, Kirsi S. *Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1019-1037. Dostupné na: <https://doi.org/10.1039/c9gc04457d>, Registrované v: WOS*

- ADCA249 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Ultrasonic extraction of plant materials-investigation of hemicellulose release from buckwheat hulls. In *Ultrasonics Sonochemistry*, 2003, vol.10, p. 127-133. ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(03\)00094-4](https://doi.org/10.1016/S1350-4177(03)00094-4)

Citácie:

1. [1.1] BURLINI, Ilaria - SACCHETTI, Gianni. *Secondary Bioactive Metabolites from Plant-Derived Food Byproducts through Ecopharmacognostic Approaches: A Bound Phenolic Case Study. In PLANTS-BASEL, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091060>, Registrované v: WOS*
2. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. *Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>, Registrované v: WOS*
3. [1.1] DZAH, Courage Sedem - DUAN, Yuqing - ZHANG, Haihui - GOLLY, Moses Kwaku - MA, Haile. *Enhanced screening of key ultrasonication parameters: total phenol content and antioxidant activity assessment of Tartary buckwheat (Fagopyrum tataricum) water extract. In SEPARATION SCIENCE AND TECHNOLOGY. ISSN 0149-6395, 2020, vol. 55, no. 17, pp. 3242-3251. Dostupné na: <https://doi.org/10.1080/01496395.2019.1675704>, Registrované v: WOS*
4. [1.1] LEE, Han-Saem - HUR, Jin - SHIN, Hyun-Sang. *Enhancing the total organic carbon measurement efficiency for water samples containing suspended solids using alkaline and ultrasonic pretreatment methods. In JOURNAL OF ENVIRONMENTAL SCIENCES. ISSN 1001-0742, 2020, vol. 90, no., pp. 20-28. Dostupné na: <https://doi.org/10.1016/j.jes.2019.11.010>, Registrované v: WOS*
5. [1.1] LIU, Mengpei - LU, Wang - KU, Kang-mo - ZHANG, Lihua - LEI, Lili - ZONG, Wei. *Ultrasonic-assisted extraction and antioxidant activity of polysaccharides from Eucommia ulmoides leaf. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2020, vol. 33, no. 2, pp. 581-588. Dostupné na: <https://doi.org/10.36721/PJPS.2020.33.2.REG.581-588.1>, Registrované v: WOS*
6. [1.1] MEDLEJ, Mohammad Kazem - CHERRI, Batoul - NASSER, Ghassan - ZAVISKA, Francois - HIJAZI, Akram - LI, Suming - POCHAT-BOHATIER, Celine. *Optimization of polysaccharides extraction from a wild species of Ornithogalum combining ultrasound and maceration and their anti-oxidant properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 958-968. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.021>, Registrované v:*

WOS

7. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. *Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith*. In *POLYMERS*, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
8. [1.1] ZHANG, Wei - YAO, Jiming - HUANG, Peng - XING, Shuai. *Aqueous extraction of buckwheat hull and its functional application in eco-friendly dyeing for wool fabric*. In *TEXTILE RESEARCH JOURNAL*. ISSN 0040-5175, 2020, vol. 90, no. 5-6, pp. 641-654. Dostupné na: <https://doi.org/10.1177/0040517519877465>., Registrované v: WOS
9. [1.1] ZHU, Fan. *Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116819>., Registrované v: WOS

- ADCA250 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P.
Ultrasound-assisted extraction of water-soluble polysaccharides from the roots of valerian (*Valeriana officinalis* L.). In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 37-44. ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(01\)00093-1](https://doi.org/10.1016/S1350-4177(01)00093-1)
Citácie:

1. [1.1] FENG, Yuqin - ZHANG, Jixian - WEN, Chaoting - DZAH, Courage Sedem - JULIET, Igbokwe Chidimma - DUAN, Yuqing - ZHANG, Haihui. *Recent advances in Agaricus bisporus polysaccharides: Extraction, purification, physicochemical characterization and bioactivities*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 94, no., pp. 39-50. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.010>., Registrované v: WOS
2. [1.1] GE, Rui Hong - WANG, Hui. *Nutrient components and bioactive compounds in tartary buckwheat bran and flour as affected by thermal processing*. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2020, vol. 23, no. 1, pp. 127-137. Dostupné na: <https://doi.org/10.1080/10942912.2020.1713151>., Registrované v: WOS
3. [1.1] LIU, Chao - JI, Hai-yu - WU, Peng - YU, Juan - LIU, An-jun. *The preparation of a cold-water soluble polysaccharide from Grifola frondosa and its inhibitory effects on MKN-45 cells*. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 4, pp. 413-422. Dostupné na: <https://doi.org/10.1007/s10719-020-09932-0>., Registrované v: WOS

- ADCA251 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P.
Comparison of classical and ultrasound-assisted extraction of polysaccharides from *Salvia officinalis* L. In *Ultrasonics Sonochemistry*, 1999, vol. 5, p. 163-168. (1998: 1.000 - IF, karentované - CCC). (1999 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(98\)00046-7](https://doi.org/10.1016/S1350-4177(98)00046-7)

Citácie:

1. [1.1] DEUMAGA, Mathias Florian Tiappi - JACQUET, Nicolas - VANDERGHEM, Caroline - AGUEDO, Mario - THOMAS, Happi Guy - GERIN, Patrick - DELEU, Magali - RICHEL, Aurore. *Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2183-2192. Dostupné na: <https://doi.org/10.1007/s12649-018-0457-9>., Registrované v: WOS
2. [1.1] HASHEMINYA, Seyedeh-Maryam - DEHGHANNYA, Jalal. *Novel ultrasound-assisted extraction of kefiran biomaterial, a prebiotic exopolysaccharide, and investigation of its physicochemical, antioxidant and*

antimicrobial properties. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2020, vol. 243, no., pp. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2020.122645>., Registrované v: WOS

3. [1.1] LE THAO MY, Phan - VAN LUC, Tran - DO DAT, Tran - HOAI THANH, Vuong - KHANH DUY, Huynh - THANH PHONG, Mai - MINH NAM, Hoang - HUU HIEU, Nguyen. *Optimization of Flavonoids Extraction from Vietnamese Male Papaya (Carica papaya, L.) Flowers by Ultrasound-Assisted Method and Testing Bioactivities of the Extract. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 42, pp. 13407-13416. Dostupné na: <https://doi.org/10.1002/slct.202002723>., Registrované v: WOS*

4. [1.1] SHEN, Shuang-Fei - ZHU, Li-Fang - WU, Zijing - WANG, Guangkun - AHMAD, Zeeshan - CHANG, Ming-Wei. *Production of triterpenoid compounds from Ganoderma lucidum spore powder using ultrasound-assisted extraction. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2020, vol. 50, no. 3, pp. 302-315. Dostupné na: <https://doi.org/10.1080/10826068.2019.1692218>., Registrované v: WOS*

ADCA252

HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - POLOVKA, Martin - KOŠTÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. *Structural features of two heteroxylan polysaccharide fractions from wheat bran with anti-complementary and antioxidant activities. In Carbohydrate Polymers, 2013, vol. 93, p. 22-30. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.05.021>*

Citácie:

1. [1.1] CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi - PALANISAMY, Subramanian - TALAPPHET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. *Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>., Registrované v: WOS*
2. [1.1] HERRERA-BALANDRANO, Daniela D. - BAEZ-GONZALEZ, Juan G. - CARVAJAL-MILLAN, Elizabeth - MUY-RANGEL, Dolores - URIAS-ORONA, Vania - MARTINEZ-LOPEZ, Ana L. - MARQUEZ-ESCALANTE, Jorge A. - HEREDIA, Jose B. - BETA, Trust - NINO-MEDINA, Guillermo. *Alkali-Extracted Feruloylated Arabinoxylans from Nixtamalized Maize Bran Byproduct: A Synonymous with Soluble Antioxidant Dietary Fiber. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 2, pp. 403-409. Dostupné na: <https://doi.org/10.1007/s12649-018-0462-z>., Registrované v: WOS*
3. [1.1] HUO, Jiangyan - LU, Yan - JIAO, Yukun - CHEN, Daofeng. *Structural characterization and anticomplement activity of an acidic polysaccharide from Hedyotis diffusa. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1553-1560. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.132>., Registrované v: WOS*
4. [1.1] JABLONSKY, Michal - MAJOVA, Veronika - STRIZINCOVA, Petra - SIMA, Jozef - JABLONSKY, Jozef. *Investigation of Total Phenolic Content and Antioxidant Activities of Spruce Bark Extracts Isolated by Deep Eutectic Solvents. In CRYSTALS. ISSN 2073-4352, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/cryst10050402>., Registrované v: WOS*
5. [1.1] LI, Lin-Yan - WANG, Yu-Xiao - ZHANG, Ting - ZHANG, Jian-Fang - PAN, Meng - HUANG, Xiao-Jun - YIN, Jun-Yi - NIE, Shao-Ping. *Structural characteristics and rheological properties of alkali-extracted arabinoxylan from*

- dehulled barley kernel. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 249, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116813>., Registrované v: WOS
6. [1.1] LI, Wenmei - WANG, Yajun - WEI, Hailian - ZHANG, Yubao - GUO, Zhihong - QIU, Yang - WEN, Lingrong - XIE, Zhongkui. Structural characterization of Lanzhou lily (*Lilium davidiivar. unicolor*) polysaccharides and determination of their associated antioxidant activity. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2020, vol. 100, no. 15, pp. 5603-5616. Dostupné na: <https://doi.org/10.1002/jsfa.10613>., Registrované v: WOS
7. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS
8. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - ORTEGA-GARCIA, Jesus - SANTIAGO-GOMEZ, Lubitza B. - DE ANDA-FLORES, Yubia - MARTINEZ-ROBINSON, Karla G. - VALENCIA-RIVERA, Dora E. Effect of Ultrasound-Treated Arabinoxylans on the Oxidative Stability of Soybean Oil. In *ANTIOXIDANTS*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/antiox9020147>., Registrované v: WOS
9. [1.1] SONG, Juyi - CHEN, Hui - WEI, Yafeng - LIU, Jian. Synthesis of carboxymethylated beta-glucan from naked barley bran and its antibacterial activity and mechanism against *Staphylococcus aureus*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 242, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116418>., Registrované v: WOS
10. [1.1] SRINIVASAN, Aswini - EKAMBARAM, Sanmuga Priya - PERUMAL, Senthamil Selvan - ARULDHAS, Jenifer - ERUSAPPAN, Thamizharasi. Chemical characterization and immunostimulatory activity of phenolic acid bound arabinoxylans derived from foxtail and barnyard millets. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2020, vol. 44, no. 2, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13116>., Registrované v: WOS
11. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953. Dostupné na: <https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS
12. [1.1] WANG, Yuan - WANG, Ruifang - HAO, Xiran - HU, Yuchao - GUO, Tao - ZHANG, Jia - WANG, Wenwen - SHI, Xinyu - AN, Xiaoping - QI, Jingwei. Growth performance, nutrient digestibility, immune responses and antioxidant status of lambs supplemented with humic acids and fermented wheat bran polysaccharides. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2020, vol. 269, no., pp. Dostupné na: <https://doi.org/10.1016/j.anifeedsci.2020.114644>., Registrované v: WOS
- ADCA253 HRONSKÁ, Helena - MASTIHUBA, Vladimír - TOKOŠOVÁ, Silvia - ROSENBERG, Michal. Semicontinual synthesis of alkyl galactosides using β -galactosidase entrapped in polyvinylalcohol hydrogel. In *Biocatalysis and Biotransformation*, 2016, vol. 34, p. 219-225. (2015: 0.892 - IF, Q4 - JCR, 0.296 - SJR, Q3 - SJR). ISSN 1024-2422. Dostupné na: <https://doi.org/10.1080/10242422.2016.1247827>

Citácie:

1. [1.1] AHUMADA, Diego - ARENAS, Felipe - MARTINEZ-GOMEZ, Fabian - GUERRERO, Cecilia - ILLANES, Andres - VERA, Carlos. *Synthesis of Butyl-beta-D-Galactoside in the Ternary System: Acetone/1-Butanol/Aqueous Solution. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00859>, Registrované v: WOS*
2. [1.1] BABAVATAN, Ece Ozdemir - YILDIRIM, Deniz - PEKSEL, Aysegul - BINAY, Baris. *Immobilization of Rhizomucor miehei lipase onto montmorillonite K-10 and polyvinyl alcohol gel. In BIOCATALYSIS AND BIOTRANSFORMATION. ISSN 1024-2422, 2020, vol. 38, no. 4, pp. 274-282. Dostupné na: <https://doi.org/10.1080/10242422.2019.1701660>, Registrované v: WOS*
3. [1.1] CHEN, Hanchi - JIN, Xiao - ZHU, Linjiang - LU, Yuele - MA, Zhi - LIU, Shijie - CHEN, Xiaolong. *Glycosyl hydrolase catalyzed glycosylation in unconventional media. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 22, pp. 9523-9534. Dostupné na: <https://doi.org/10.1007/s00253-020-10924-1>, Registrované v: WOS*
4. [1.1] TODEA, Anamaria - BOERIU, Carmen G. - PETER, Francisc - BIRO, Emese. *IMMOBILIZED beta-D-GALACTOSIDASES FOR IMPROVED SYNTHESIS OF SHORT-CHAIN GALACTO-OLIGOSACCHARIDES. In BIOTECHNOLOGICAL PROGRESS AND BEVERAGE CONSUMPTION, 2020, vol. 19, no., pp. 71-110. Dostupné na: <https://doi.org/10.1016/B978-0-12-816678-9.00003-5>, Registrované v: WOS*
5. [1.1] VERA, Carlos - GUERRERO, Cecilia - ABURTO, Carla - CORDOVA, Andres - ILLANES, Andres. *Conventional and non-conventional applications of beta-galactosidases. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2020, vol. 1868, no. 1, pp. Dostupné na: <https://doi.org/10.1016/j.bbapap.2019.140271>, Registrované v: WOS*

ADCA254

HUSÁROVÁ, Slavomíra - VAITILINGOM, Mickael - DEGUILLAUME, Laurent - TRAIKIA, Mounir - VINATIER, Virginie - SANCELME, Martine - AMATO, Pierre - MATULOVÁ, Mária - DELORT, Anne-Marie. *Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. In Atmospheric Environment, 2011, vol. 45, p. 6093-6102. (2010: 3.226 - IF, Q1 - JCR, 1.907 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1352-2310. Dostupné na: <https://doi.org/10.1016/j.atmosenv.2011.06.035>*

Citácie:

1. [1.1] CHINH NHU BAO NGUYEN - HIEN TO THI - FUJII, Yusuke - TAKENAKA, Norimichi. *Formaldehyde in Rainwater in Sakai City, Japan: Continuous Observation, Concentration, and Aqueous Photoproduction. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2020, vol. 231, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s11270-020-4444-y>, Registrované v: WOS*
2. [1.1] MIURA, Karin - IDE, Sachiko - NAITO, Toyohiro - SHIMADA, Taisuke - YASUI, Takao - BABA, Yoshinobu - KAJI, Noritada. *Analysis and Survey of PM2.5 from a Biological Viewpoint at Kyushu University Ito Campus. In BUNSEKI KAGAKU. ISSN 0525-1931, 2020, vol. 69, no. 12, pp. 741-746., Registrované v: WOS*
3. [1.1] XU, Yu - XIAO, Huayun - WU, Daishe - LONG, Chaojun. *Abiotic and Biological Degradation of Atmospheric Proteinaceous Matter Can Contribute Significantly to Dissolved Amino Acids in Wet Deposition. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2020, vol. 54, no. 11, pp. 6551-*

6561. Dostupné na: <https://doi.org/10.1021/acs.est.0c00421>., Registrované v: WOS

ADCA255 HUSHEGYI, András - DAMBORSKÁ, Dominika - BERTÓK, Tomáš - ADAM, Vojtech - KIZEK, René - TKÁČ, Ján. Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. In *Biosensors and Bioelectronic*, 2016, vol. 79, p. 644-649. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2015.12.102>

Citácie:

1. [1.1] ALHALAILI, Badriyah - POPESCU, Ileana Nicoleta - KAMOUN, Olfa - ALZUBI, Feras - ALAWADHIA, Sami - VIDU, Ruxandra. Nanobiosensors for the Detection of Novel Coronavirus 2019-nCoV and Other Pandemic/Epidemic Respiratory Viruses: A Review. In *SENSORS*, 2020, vol. 20, no. 22, pp. Dostupné na: <https://doi.org/10.3390/s20226591>., Registrované v: WOS
2. [1.1] CESEWSKI, Ellen - JOHNSON, Blake N. Electrochemical biosensors for pathogen detection. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112214>., Registrované v: WOS
3. [1.1] KUMAR, Naveen - BHATIA, Sandeep - PATERIYA, Atul Kumar - SOOD, Richa - NAGARAJAN, S. - MURUGKAR, Harshad V. - KUMAR, Satish - SINGH, Praveen - SINGH, Vijendra Pal. Label-free peptide nucleic acid biosensor for visual detection of multiple strains of influenza A virus suitable for field applications. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1093, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.aca.2019.09.060>., Registrované v: WOS
4. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 109-167., Registrované v: WOS
5. [1.1] MATSUBARA, Teruhiko - UJIE, Michiko - YAMAMOTO, Takashi - EINAGA, Yasuaki - DAIDOJI, Tomo - NAKAYA, Takaaki - SATO, Toshinori. Avian Influenza Virus Detection by Optimized Peptide Termination on a Boron-Doped Diamond Electrode. In *ACS SENSORS*. ISSN 2379-3694, 2020, vol. 5, no. 2, pp. 431-439. Dostupné na: <https://doi.org/10.1021/acssensors.9b02126>., Registrované v: WOS
6. [1.1] NASRIN, Fahmida - CHOWDHURY, Ankan Dutta - TAKEMURA, Kenshin - KOZAKI, Ikko - HONDA, Hiroyuki - ADEGOKE, Oluwasesan - PARK, Enoch Y. Fluorometric virus detection platform using quantum dots-gold nanocomposites optimizing the linker length variation. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1109, no., pp. 148-157. Dostupné na: <https://doi.org/10.1016/j.aca.2020.02.039>., Registrované v: WOS
7. [1.1] SOLER, Maria - ESTEVEZ, Maria Carmen - CARDENOSA-RUBIO, Maria - ASTUA, Alejandro - LECHUGA, Laura M. How Nanophotonic Label-Free Biosensors Can Contribute to Rapid and Massive Diagnostics of Respiratory Virus Infections: COVID-19 Case. In *ACS SENSORS*. ISSN 2379-3694, 2020, vol. 5, no. 9, pp. 2663-2678. Dostupné na: <https://doi.org/10.1021/acssensors.0c01180>., Registrované v: WOS
8. [1.1] YI, Jiecan - XIAO, Wen - LI, Guiyin - WU, Pian - HE, Yayuan - CHEN, Cuimei - HE, Yafei - DING, Ping - KAI, Tianhan. The research of aptamer biosensor technologies for detection of microorganism. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 23, pp. 9877-9890. Dostupné na: <https://doi.org/10.1007/s00253-020-10940>

1., Registrované v: WOS

9. [1.1] ZHANG, Rui - WANG, Shan - HUANG, Xiaoming - YANG, Yihang - FAN, Haitao - YANG, Fan - LI, Jie - DONG, Xushuai - FENG, Shaobin - ANBU, Periasamy - GOPINATH, Subash C. B. - XIN, Tao. Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1094, no., pp. 142-150. Dostupné na:

<https://doi.org/10.1016/j.aca.2019.10.012>, Registrované v: WOS

ADCA256

HUSHEGYI, András - TKÁČ, Ján. Are glycan biosensors an alternative to glycan microarrays? In *Analytical Methods*, 2014, vol. 6, p. 6610-6620. (2013: 1.938 - IF, Q2 - JCR, 0.614 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c4ay00692e>

Citácie:

1. [1.1] ECHEVERRI, Danilo - GARG, Monika - SILVA, Daniel Varon - OROZCO, Jahir. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. In *TALANTA*. ISSN 0039-9140, 2020, vol. 217, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121117>, Registrované v: WOS

ADCA257

HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. An ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In *Chemical Communication*, 2015, vol. 51, p. 7474-7477. (2014: 6.834 - IF, Q1 - JCR, 2.692 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/c5cc00922g>

Citácie:

1. [1.1] CHIADO, Alessandro - PALMARA, Gianluca - CHIAPPONE, Annalisa - TANZANU, Claudia - PIRRI, Candido Fabrizio - ROPPOLO, Ignazio - FRASCELLA, Francesca. A modular 3D printed lab-on-a-chip for early cancer detection. In *LAB ON A CHIP*. ISSN 1473-0197, 2020, vol. 20, no. 3, pp. 665-674. Dostupné na: <https://doi.org/10.1039/c9lc01108k>, Registrované v: WOS

2. [1.1] D'AURELIO, Roberta - CHIANELLA, Iva - GOODE, Jack A. - TOTHILL, Ibtisam E. Molecularly Imprinted Nanoparticles Based Sensor for Cocaine Detection. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.3390/bios10030022>, Registrované v: WOS

3. [1.1] DI IORIO, Daniele - HUSKENS, Jurriaan. Surface Modification with Control over Ligand Density for the Study of Multivalent Biological Systems. In *CHEMISTRYOPEN*. ISSN 2191-1363, 2020, vol. 9, no. 1, pp. 53-66. Dostupné na: <https://doi.org/10.1002/open.201900290>, Registrované v: WOS

4. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>, Registrované v: WOS

5. [1.1] HASSAN, Sammer-ul - DONIA, Ahmed - SIAL, Usman - ZHANG, Xunli - BOKHARI, Habib. Glycoprotein- and Lectin-Based Approaches for Detection of Pathogens. In *PATHOGENS*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pathogens9090694>, Registrované v: WOS

6. [1.1] JODAT, Yasamin A. - KIAEE, Kiavash - JARQUIN, Daniel Vela - DE LA GARZA HERNANDEZ, Rosakaren Ludivina - WANG, Ting - JOSHI, Sudeep - REZAEI, Zahra - DE MELO, Bruna Alice Gomes - GE, David - MANNOOR,

Manu S. - SHIN, Su Ryon. A 3D-Printed Hybrid Nasal Cartilage with Functional Electronic Olfaction. In ADVANCED SCIENCE, 2020, vol. 7, no. 5, pp. Dostupné na: <https://doi.org/10.1002/advs.201901878>., Registrované v: WOS

7. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS

8. [1.1] MATSUBARA, Teruhiko - UJIE, Michiko - YAMAMOTO, Takashi - EINAGA, Yasuaki - DAIDOJI, Tomo - NAKAYA, Takaaki - SATO, Toshinori. Avian Influenza Virus Detection by Optimized Peptide Termination on a Boron-Doped Diamond Electrode. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 2, pp. 431-439. Dostupné na: <https://doi.org/10.1021/acssensors.9b02126>., Registrované v: WOS

9. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS

10. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS

11. [1.1] WADHWA, Shikha - JOHN, Alishba T. - NAGABOOSHANAM, Shalini - MATHUR, Ashish - NARANG, Jagriti. Graphene quantum dot-gold hybrid nanoparticles integrated aptasensor for ultra-sensitive detection of vitamin D-3 towards point-of-care application. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2020, vol. 521, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsusc.2020.146427>., Registrované v: WOS

ADCA258 HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Glycan immobilization in construction of biochips and biosensors.Imobilizácia glykánov pre konštrukciu biočipov a biosenzorov. In Chemické listy, 2014, vol. 108, p. 831-837. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Citácie:

1. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS

ADCA259 HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Detekčné metódy pre štúdium glykán proteínových interakcií. In Chemické listy, 2014, vol. 108, p. 451-456. (2013: 0.196 - IF, Q4 - JCR, 0.201 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Citácie:

1. [1.1] GAL, Miroslav - DUNAJOVA, Aneta Anna - TOMCIKOVA, Kornelia. Impedimetric Biosensor for the Detection of Protein Virus Residues. In PROCEEDINGS OF INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXIX, 2019, vol., no., pp. 74-76.,

Registrované v: WOS

- ADCA260 HUSZÁR, Stanislav - SINGH, Vinayak - POLČICOVÁ, Alica - BARÁTH, Peter - BARRIO, María Belén - LAGRANGE, Sophie - LEBLANC, Véronique - NACY, Carol A. - MIZRAHI, Valerie - MIKUŠOVÁ, Katarína. N-Acetylglucosamine-1-phosphate transferase, WecA, as a validated drug target in Mycobacterium tuberculosis. In Antimicrobial Agents and Chemotherapy, 2017, vol. 61, p. e01310-17. (2016: 4.302 - IF, Q1 - JCR, 2.275 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0066-4804. Dostupné na: <https://doi.org/10.1128/AAC.01310-17>

Citácie:

1. [1.1] SHAKU, Moagi - EALAND, Christopher - KANA, Bavesh D. Cell Surface Biosynthesis and Remodeling Pathways in Mycobacteria Reveal New Drug Targets. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fcimb.2020.603382>., Registrované v: WOS

2. [1.1] VILCHEZE, Catherine. Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/app10072278>., Registrované v: WOS

- ADCA261 CHOCHOLOVÁ, Erika - BERTÓK, Tomáš** - LORENCOVÁ, Lenka - ŠEDIVÁ, Alena - FARKAŠ, Pavol - VIKARTOVSKÁ, Alica - BELLA, Vladimír - VELICOVÁ, Darina - KASÁK, Peter - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - HAŠKO, Daniel - TKÁČ, Ján**. Advanced antifouling zwitterionic layer based impedimetric HER2 biosensing in human serum: Glycoprofiling as a novel approach for breast cancer diagnostics. In Sensors and Actuators B, 2018, vol. 272, p. 626-633. (2017: 5.667 - IF, Q1 - JCR, 1.406 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2018.07.029>

Citácie:

1. [1.1] FREITAS, M. - NEVES, M.M.P.S. - NOUWS, H.P.A. - DELERUE-MATOS, C. Quantum dots as nanolabels for breast cancer biomarker HER2-ECD analysis in human serum. In TALANTA. ISSN 0039-9140, FEB 1 2020, vol. 208., Registrované v: WOS

2. [1.1] FREITAS, M. - NOUWS, H.P.A. - KEATING, E. - DELERUE-MATOS, C. High-performance electrochemical immunomagnetic assay for breast cancer analysis. In SENSORS AND ACTUATORS B-CHEMICAL. APR 1 2020, vol. 308., Registrované v: WOS

3. [1.1] FREITAS, M. - NOUWS, H.P.A. - KEATING, E. - FERNANDES, V.C. - DELERUE-MATOS, C. Immunomagnetic bead-based bioassay for the voltammetric analysis of the breast cancer biomarker HER2-ECD and tumour cells using quantum dots as detection labels. In MICROCHIMICA ACTA. ISSN 0026-3672, FEB 22 2020, vol. 187, no. 3., Registrované v: WOS

4. [1.1] LASTOVICKOVA, M. - STROUHALOVA, D. - BOBALOVA, J. Use of Lectin-based Affinity Techniques in Breast Cancer Glycoproteomics: A Review. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, MAY 1 2020, vol. 19, no. 5, p. 1885-1899., Registrované v: WOS

5. [1.1] LIU, J.Y. - XIONG, Z.J. - SHEN, M.W. - BANYAI, I. - SHI, X.Y. Characterization of zwitterion-modified poly(amidoamine) dendrimers in aqueous solution via a thorough NMR investigation. In EUROPEAN PHYSICAL JOURNAL E. ISSN 1292-8941, FEB 4 2020, vol. 43, no. 2., Registrované v: WOS

6. [1.1] OZCELIKAY, G. - KARADURMUS, L. - KAYA, S.I. - BAKIRHAN, N.K. - OZKAN, S.A. A Review: New Trends in Electrode Systems for Sensitive Drug and

Biomolecule Analysis. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, MAY 3 2020, vol. 50, no. 3, p. 212-225., Registrované v: WOS 7. [1.1] SONG, Z. - LI, Y. - TENG, H. - DING, C.F. - XU, G.Y. - LUO, X.L. Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. In SENSORS AND ACTUATORS B-CHEMICAL. FEB 15 2020, vol. 305., Registrované v: WOS

ADCA262 CHOCHOLOVÁ, Erika - FILIP, Jaroslav - BERTÓK, Tomáš - BOTH, Peter - KASÁK, Peter - TKÁČ, Ján. Nanotechnology in glycomics: Applications in diagnostics, therapy, imaging, and separation precesses. In Medicinal Research Reviews, 2017, vol. 37, p. 514-626. (2016: 8.763 - IF, Q1 - JCR, 2.701 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0198-6325. Dostupné na: <https://doi.org/10.1002/med.21420>

Citácie:

1. [1.1] GHOSH, Shyamasree. Nanotechnology and sialic acid biology. In SIALIC ACIDS AND SIALOGLYCOCONJUGATES IN THE BIOLOGY OF LIFE, HEALTH AND DISEASE, 2020, vol., no., pp. 297-325. Dostupné na: <https://doi.org/10.1016/B978-0-12-816126-5.00011-1>, Registrované v: WOS
2. [1.1] GUCCHAIT, Arin - GHOSH, Sritin - MISRA, Anup Kumar. Synthesis of Novel Glycosyl Carbamo(dithioperoxo)thioate Derivatives. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2020, vol. 52, no. 10, pp. 1523-1530. Dostupné na: <https://doi.org/10.1055/s-0037-1610754>, Registrované v: WOS
3. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis. In CHEMPLUSCHEM. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>, Registrované v: WOS
4. [1.1] RUSSO, Laura. Glycans in nanomedicine: where are we now? In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 24, pp. 2325-2328. Dostupné na: <https://doi.org/10.2217/nnm-2020-0228>, Registrované v: WOS
5. [1.1] ZHAO XINGYUN - ZHANG HONGYAN - ZHOU XIAOYU - WANG LI - WAN LIHONG - WU REN';AN. Preparation of core-shell silica-carbon composite microspheres stationary phase and application in saccharide separation. In CHINESE JOURNAL OF CHROMATOGRAPHY. ISSN 1000-8713, 2020, vol. 38, no. 12, pp. 1357-1362. Dostupné na: <https://doi.org/10.3724/SP.J.1123.2020.08016>, Registrované v: WOS

ADCA263 CHOCHOLOVÁ, Erika - BERTÓK, Tomáš** - JÁNE, Eduard - LORENCOVÁ, Lenka - ŠEDIVÁ, Alena - BELICKÁ, Ľudmila, Kľuková - BELICKÝ, Štefan - MISLOVIČOVÁ, Danica - VIKARTOVSKÁ, Alica - IMRICH, Richard - KASÁK, Peter - TKÁČ, Ján**. Glycomics meets artificial intelligence - Potential of glycan analysis for identification of seropositive and seronegative rheumatoid arthritis patients revealed. In Clinica Chimica Acta, 2018, vol. 481, p. 49-55. (2017: 2.926 - IF, Q2 - JCR, 1.102 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0009-8981. Dostupné na: <https://doi.org/10.1016/j.cca.2018.02.031>

Citácie:

1. [1.1] KEDRA, Joanna - GOSSEC, Laure. Big Data and artificial intelligence: Will they change our practice? In JOINT BONE SPINE. ISSN 1297-319X, 2020, vol. 87, no. 2, pp. 107-109. Dostupné na: <https://doi.org/10.1016/j.jbspin.2019.09.001>, Registrované v: WOS
2. [1.1] LIM, Si Ying - NG, Bao Hui - LI, Sam F. Y. Glycans in blood as biomarkers for forensic applications. In TRAC-TRENDS IN ANALYTICAL

CHEMISTRY. ISSN 0165-9936, 2020, vol. 133, no., pp. Dostupné na:

<https://doi.org/10.1016/j.trac.2020.116084>., Registrované v: WOS

3. [1.1] MAHLER, Michael - MARTINEZ-PRAT, Laura - SPARKS, Jeffrey A. - DEANE, Kevin D. Precision medicine in the care of rheumatoid arthritis: Focus on prediction and prevention of future clinically-apparent disease. In

AUTOIMMUNITY REVIEWS. ISSN 1568-9972, 2020, vol. 19, no. 5, pp. Dostupné na: <https://doi.org/10.1016/j.autrev.2020.102506>., Registrované v: WOS

4. [1.1] STAFFORD, I. S. - KELLERMANN, M. - MOSSOTTO, E. - BEATTIE, R. M. - MACARTHUR, B. D. - ENNIS, S. A systematic review of the applications of artificial intelligence and machine learning in autoimmune diseases. In NPJ DIGITAL MEDICINE. ISSN 2398-6352, 2020, vol. 3, no. 1, pp. Dostupné na:

<https://doi.org/10.1038/s41746-020-0229-3>., Registrované v: WOS

ADCA264

CHOI, Ji Won - SYNYTSYA, Andriy - CAPEK, Peter - BLEHA, Roman - POHL, Radek - PARK, Yong Il. Structural analysis and anti-obesity effect of a pectic polysaccharide isolated from Korean mulberry fruit Oddi (*Morus alba* L.). In Carbohydrate Polymers, 2016, vol. 146, p. 187-196. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] CHENG, Xiang - SHI, Songsan - SU, Juan - XU, Yongbin - JUAN ORDAZ-ORTIZ, Jose - LI, Ning - WU, Jianjun - WANG, Huijun - WANG, Shunchun. Structural characterization of a heteropolysaccharide from fruit of *Chaenomeles speciosa* (Sweet) Nakai and its antitumor activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116065>., Registrované v: WOS

2. [1.1] GUO, Ciliang - ZHANG, Shihai - WANG, Yeqing - LI, Meixia - DING, Kan. Isolation and structure characterization of a polysaccharide from *Crataegus pinnatifida* and its bioactivity on gut microbiota. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 154, no., pp. 82-91. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.058>., Registrované v: WOS

3. [1.1] HU, Dongwen - BAO, Tao - LU, Yang - SU, Hongming - KE, Huihui - CHEN, Wei. Polysaccharide from Mulberry Fruit (*Morus alba* L.) Protects against Palmitic-Acid-Induced Hepatocyte Lipotoxicity by Activating the Nrf2/ARE Signaling Pathway. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 46, pp. 13016-13024. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b03335>., Registrované v: WOS

4. [1.1] JIAO, Lili - LI, Hui - LI, Junming - BO, Li - ZHANG, Xiaoyu - WU, Wei - CHEN, ChangBao. Study on structure characterization of pectin from the steamed ginseng and the inhibition activity of lipid accumulation in oleic acid-induced HepG2 cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 57-65. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.167>., Registrované v: WOS

5. [1.1] LEE, Mak-Soon - KIM, Yangha. Mulberry Fruit Extract Ameliorates Adipogenesis via Increasing AMPK Activity and Downregulating MicroRNA-21/143 in 3T3-L1 Adipocytes. In JOURNAL OF MEDICINAL FOOD. ISSN 1096-620X, 2020, vol. 23, no. 3, pp. 266-272. Dostupné na: <https://doi.org/10.1089/jmf.2019.4654>., Registrované v: WOS

6. [1.1] LIN, Shang - LI, Hong-Yi - YUAN, Qin - NIE, Xi-Rui - ZHOU, Jia - WEI, Si-Yu - DU, Gang - ZHAO, Li - WANG, Sheng-Peng - ZHANG, Qing - CHEN, Hong - QIN, Wen - WU, Ding-Tao. Structural characterization, antioxidant

activity, and immunomodulatory activity of non-starch polysaccharides from *Chuanminshen violaceum* collected from different regions. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 143, no., pp. 902-912. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.09.151>., Registrované v: WOS

7. [1.1] MOHAN, Kannan - MURALISANKAR, Thirunavukkarasu - UTHAYAKUMAR, Venkatachalam - CHANDIRASEKAR, Ramachandran - REVATHI, Nagarajan - GANESAN, Abirami Ramu - VELMURUGAN, Kalamani - SATHISHKUMAR, Palanivel - JAYAKUMAR, Rajarajeswaran - SEEDEVI, Palaniappan. Trends in the extraction, purification, characterisation and biological activities of polysaccharides from tropical and sub-tropical fruits A comprehensive review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 238, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116185>., Registrované v: WOS

8. [1.1] ROHELA, Gulab Khan - SHUKLA, Pawan - MUTTANNA - KUMAR, Rajesh - CHOWDHURY, Sukhen Roy. Mulberry (*Morus spp.*): An ideal plant for sustainable development. In *TREES FORESTS AND PEOPLE*, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.tfp.2020.100011>., Registrované v: WOS

9. [1.1] TAN, Huizi - NIE, Shaoping. Deciphering diet-gut microbiota-host interplay: Investigations of pectin. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 106, no., pp. 171-181. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.10.010>., Registrované v: WOS

10. [1.1] YANG, Haihong - BAI, Jingwen - MA, Conglei - WANG, Libo - LI, Xiaoqing - ZHANG, Yu - XU, Yaqin - YANG, Yu. Degradation models, structure, rheological properties and protective effects on erythrocyte hemolysis of the polysaccharides from *Ribes nigrum* L. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 738-746. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.093>., Registrované v: WOS

11. [1.1] YANG, Yu - KHAN, Bilal Muhammad - ZHANG, Xiping - ZHAO, Yongjie - CHEONG, Kit-Leong - LIU, Yang. Advances in Separation and Purification of Bioactive Polysaccharides through High-speed Counter-Current Chromatography. In *JOURNAL OF CHROMATOGRAPHIC SCIENCE*. ISSN 0021-9665, 2020, vol. 58, no. 10, pp. 992-1000. Dostupné na: <https://doi.org/10.1093/chromsci/bmaa063>., Registrované v: WOS

12. [1.1] ZHANG, Shaojie - AN, Lijun - LI, Zhengguo - WANG, Honglin - SHI, Lijuan - ZHANG, Jie - LI, Yuhao - JIN, Da-Qing - TUERHONG, Muhetaer - OHIZUMI, Yasushi - SHUAI, Ling - XU, Jing - GUO, Yuanqiang. An active heteropolysaccharide from the rinds of *Garcinia mangostana* Linn.: Structural characterization and immunomodulation activity evaluation. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115929>., Registrované v: WOS

13. [1.1] ZHOU, Jinhui - ZOU, Ping - JING, Changliang - XU, Zongchang - ZHOU, San - LI, Yiqiang - ZHANG, Chengsheng - YUAN, Yuan. Chemical characterization and bioactivities of polysaccharides from *Apocynum venetum* leaves extracted by different solvents. In *JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION*. ISSN 2193-4126, 2020, vol. 14, no. 1, pp. 244-253. Dostupné na: <https://doi.org/10.1007/s11694-019-00286-2>., Registrované v: WOS

ADCA265

CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef - KOGAN, Grigorij. Protective effect of the yeast glucomannan against cyclophosphamide-

induced mutagenicity. In *Mutation research : genetic toxicology and environmental mutagenesis*, 1999, vol. 444, no. 1, p. 117-122. (1999 - Current Contents). ISSN 1383-5718. Dostupné na: [https://doi.org/10.1016/S1383-5718\(99\)00102-3](https://doi.org/10.1016/S1383-5718(99)00102-3)

Citácie:

1. [1.1] LAO, E.J. - DIMOSO, N. - RAYMOND, J. - MBEGA, E.R. *The prebiotic potential of brewers'; spent grain on livestock's health: a review. In TROPICAL ANIMAL HEALTH AND PRODUCTION. ISSN 0049-4747, MAR 2020, vol. 52, no. 2, p. 461-472., Registrované v: WOS*

ADCA266 CHORVATOVIČOVÁ, Darina - KOVÁČIKOVÁ, Zuzana - ŠANDULA, Jozef - NAVAROVÁ, Jana. Protective effect of sulfoethylglucan against hexavalent chromium. In *Mutation Research*, 1993, vol. 302, p. 207-211. ISSN 1568-7864. Dostupné na: [https://doi.org/10.1016/0165-7992\(93\)90106-6](https://doi.org/10.1016/0165-7992(93)90106-6)

Citácie:

1. [1.1] KUMAR, M. - GUPTA, N. - RATN, A. - AWASTHI, Y. - PRASAD, R. - TRIVEDI, A. - TRIVEDI, S.P. *Biomonitoring of Heavy Metals in River Ganga Water, Sediments, Plant, and Fishes of Different Trophic Levels. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, FEB 2020, vol. 193, no. 2, p. 536-547., Registrované v: WOS*

ADCA267 CHRISTOV, L. - BIELY, Peter - KALOGERIS, E. - CHRISTAKOPOULOS, P. - PRIOR, B.A. - BHAT, M.K. Effects of purified endo-beta-1,4-xylanases of family 10 and 11 and acetylxytan esterases on eucalypt sulfite dissolving pulp. In *Journal of Biotechnology*, 2000, vol. 83, p. 231-244. ISSN 0168-1656.

Citácie:

1. [1.1] ANNAMALAI, Neelamegam - AL BATTASHI, Huda - ANU, S. Nair - AL AZKAWI, Ahlam - AL BAHRY, Saif - SIVAKUMAR, Nallusamy. *Enhanced Bioethanol Production from Waste Paper Through Separate Hydrolysis and Fermentation. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 1, pp. 121-131. Dostupné na: https://doi.org/10.1007/s12649-018-0400-0., Registrované v: WOS*

ADCA268 CHYBA, Andrej - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Effective enzymatic caffeoylation of natural glucopyranosides. In *Bioorganic & Medicinal Chemistry Letters*, 2016, vol. 26, p. 1567-1570. (2015: 2.486 - IF, Q2 - JCR, 0.923 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0960-894X. Dostupné na: <https://doi.org/10.1016/j.bmcl.2016.02.010>

Citácie:

1. [1.1] XU, Haixia - LI, Xiaofeng - XIN, Xuan - YUAN, Kun - WU, Hui - ZHAO, Guanglei. *Whole-Cell-Catalyzed Synthesis of Phenolic Glycoside Esters, and Their Antioxidant and Antimelanogenic Properties. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 38, pp. 16591-16602. Dostupné na: https://doi.org/10.1021/acs.iecr.0c02940., Registrované v: WOS*

ADCA269 CHYBA, Andrej - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Regioselective galloylation of methyl β -D-glucopyranoside by a lipase. In *Monatshefte für Chemie*, 2016, vol. 147, p. 1137-1142. (2015: 1.131 - IF, Q3 - JCR, 0.330 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-016-1696-8>

Citácie:

1. [1.1] MALLMANN, Luana P. - TISCHER, Bruna - VIZZOTTO, Marcia - RODRIGUES, Eliseu - MANFROI, Vitor. *Comprehensive identification and quantification of unexploited phenolic compounds from red and yellow araca (Psidium cattleianum Sabine) by LC-DAD-ESI-MS/MS. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na:*

- ADCA270 <https://doi.org/10.1016/j.foodres.2020.108978>, Registrované v: WOS
 ILČÍKOVÁ, Markéta - MRLÍK, Miroslav - ŠPITÁLSKY, Zdenko - MIČUŠÍK, Matej - CSOMOROVÁ, Katarína - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - MOSNÁČEK, Jaroslav. A tertiary amine in two competitive processes: Reduction of graphene oxide vs. catalysis of atom transfer radical polymerization. In RSC Advances, 2015, vol. 5, p. 3370-3376. (2014: 3.840 - IF, Q1 - JCR, 1.113 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c4ra12915f>
 Citácie:
 1. [1.1] MURALI, A. - SAMPATH, S. - ACHUTHAN, B.A. - SAKAR, M. - CHANDRASEKARAN, S. - VANITHA, N.S. - BENSINGH, R.J. - KADER, M.A. - JAISANKAR, S.N. Copper (0) Mediated Single Electron Transfer-Living Radical Polymerization of Methyl Methacrylate: Functionalized Graphene as a Convenient Tool for Radical Initiator. In POLYMERS. APR 2020, vol. 12, no. 4., Registrované v: WOS
- ADCA271 ILČÍKOVÁ, Markéta - FILIP, Jaroslav - MRLÍK, Miroslav - PLACHÝ, Tomáš - TKÁČ, Ján - KASÁK, Peter. Polypyrrole nanotubes decorated with gold particles applied for construction of enzymatic bioanodes and biocathodes. In International Journal of Electrochemical Science, 2015, vol. 10, p. 6558-6571. (2014: 1.500 - IF, Q3 - JCR, 0.532 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1452-3981.
 Citácie:
 1. [1.1] GERMAN, Natalija - POPOV, Anton - RAMANAVICIENE, Almira - RAMANAVICIUS, Arunas. Formation and Electrochemical Characterisation of Enzyme-Assisted Formation of Polypyrrole and Polyaniline Nanocomposites with Embedded Glucose Oxidase and Gold Nanoparticles. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 16, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/abc9dc>, Registrované v: WOS
 2. [1.1] GERMAN, Natalija - RAMANAVICIENE, Almira - RAMANAVICIUS, Arunas. Formation and Electrochemical Evaluation of Polyaniline and Polypyrrole Nanocomposites Based on Glucose Oxidase and Gold Nanostructures. In POLYMERS, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123026>, Registrované v: WOS
- ADCA272 ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In Polymers : Open Access Polymer Science Journal, 2015, vol. 7, p. 2344-2370. (2014: 3.681 - IF, Q1 - JCR, 1.125 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 2073-4360. Dostupné na: <https://doi.org/10.3390/polym7111518>
 Citácie:
 1. [1.1] LI, Yu - YANG, Shengke - CHEN, Yangyang - ZHANG, Dan. Hydrophobic and Anti-Fouling Performance of Surface on Parabolic Morphology. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 2020, vol. 17, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijerph17020644>, Registrované v: WOS
 2. [1.1] LIU, Yonglan - ZHANG, Dong - REN, Baiping - GONG, Xiong - XU, Lijian - FENG, Zhang-Qi - CHANG, Yung - HE, Yi - ZHENG, Jie. Molecular simulations and understanding of antifouling zwitterionic polymer brushes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2020, vol. 8, no. 17, pp. 3814-3828. Dostupné na: <https://doi.org/10.1039/d0tb00520g>, Registrované v: WOS
 3. [1.1] POTAUFEUX, Jean-Emile - ODENT, Jeremy - NOTTA-CUVIER, Delphine - LAURO, Franck - RAQUEZ, Jean-Marie. A comprehensive review of

- the structures and properties of ionic polymeric materials. In POLYMER CHEMISTRY. ISSN 1759-9954, 2020, vol. 11, no. 37, pp. 5914-5936. Dostupné na: <https://doi.org/10.1039/d0py00770f>., Registrované v: WOS*
4. [1.1] SAHA, Pabitra - SANTI, Marta - FRENKEN, Martin - PALANISAMY, Anand Raj - GANGULY, Ritabrata - SINGHA, Nikhil K. - PICH, Andrij. *Dual-Temperature-Responsive Microgels from a Zwitterionic Functional Graft Copolymer with Superior Protein Repelling Property. In ACS MACRO LETTERS, 2020, vol. 9, no. 6, pp. 895-901. Dostupné na: <https://doi.org/10.1021/acsmacrolett.0c00304>., Registrované v: WOS*
5. [1.1] SCOTT, Philip J. - SPIERING, Glenn A. - WANG, Yangyang - SEIBERS, Zach D. - MOORE, Robert B. - KUMAR, Rajeev - LOKITZ, Bradley S. - LONG, Timothy E. *Phosphonium-Based Polyzwitterions: Influence of Ionic Structure and Association on Mechanical Properties. In MACROMOLECULES. ISSN 0024-9297, 2020, vol. 53, no. 24, pp. 11009-11018. Dostupné na: <https://doi.org/10.1021/acs.macromol.0c02166>., Registrované v: WOS*
6. [1.1] SUN, Jinsheng - CHANG, Xiaofeng - ZHANG, Fan - BAI, Yingrui - LV, Kaihe - WANG, Jintang - ZHOU, Xinyu - WANG, Bo. *Salt-Responsive Zwitterionic Polymer Brush Based on Modified Silica Nanoparticles as a Fluid-Loss Additive in Water-Based Drilling Fluids. In ENERGY & FUELS. ISSN 0887-0624, 2020, vol. 34, no. 2, pp. 1669-1679. Dostupné na: <https://doi.org/10.1021/acs.energyfuels.9b04109>., Registrované v: WOS*
- ADCA273 ISRAILIDES, C. - KLETSAS, D. - ARAPOGLOU, D. - PHILIPPOUSSIS, A. - PRATSISNIS, H. - EBRINGEROVÁ, Anna - HRÍBALOVÁ, V. - HARDING, S.E. *In vitro cytostatic and immunomodulatory properties of the medicinal mushroom Lentinula edodes. In Phytomedicine, 2008, vol.15, p. 512-519. Dostupné na: <https://doi.org/10.1016/j.phymed.2007.11.029>*

Citácie:

1. [1.1] LOPEZ-LEGARDA, Xiomara - ARBOLEDA-ECHAVARRIA, Carolina - PARRA-SALDIVAR, Roberto - ROSTRO-ALANIS, Magdalena - ALZATE, Juan F. - VILLA-PULGARIN, Janny A. - SEGURA-SANCHEZ, Freimar. *Biotechnological production, characterization and in vitro antitumor activity of polysaccharides from a native strain of Lentinus crinitus. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 3133-3144. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.191>., Registrované v: WOS*
2. [1.1] WONG, Jack Ho - NG, Tzi Bun - CHAN, Helen Hei Ling - LIU, Qin - MAN, Gene Chi Wai - ZHANG, Chris Zhiyi - GUAN, Suzhen - NG, Charlene Cheuk Wing - FANG, Evandro Fei - WANG, Hexiang - LIU, Fang - YE, Xiuyun - ROLKA, Krzysztof - NAUDE, Ryno - ZHAO, Shuang - SHA, Ou - LI, Chunman - XIA, Lixin. *Mushroom extracts and compounds with suppressive action on breast cancer: evidence from studies using cultured cancer cells, tumor-bearing animals, and clinical trials. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 11, pp. 4675-4703. Dostupné na: <https://doi.org/10.1007/s00253-020-10476-4>., Registrované v: WOS*
3. [1.1] ZIAJA-SOLTYS, Marta - RADZKI, Wojciech - NOWAK, Jakub - TOPOLSKA, Jolanta - JABLONSKA-RYS, Ewa - SLAWINSKA, Aneta - SKRZYPCZAK, Katarzyna - KUCZUMOW, Andrzej - BOGUCKA-KOCKA, Anna. *Processed Fruiting Bodies of Lentinus edodes as a Source of Biologically Active Polysaccharides. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/app10020470>., Registrované v: WOS*
4. [3.1] EKOWATI, Nuraeni - MAHARNING, Ardhini R. - RATNANINGTYAS, Nuniek - MUMPUNI, Aris - HIKAM, Arif R. *Effects of Ethyl Acetate Extract of*

Jew's Ear Mushrooms (Auricularia auricula) on Cytotoxic and Apoptosis of Cervical Cancer Cells (HeLa). In SOUTH-EAST ASIAN+ CONFERENCE ON BIODIVERSITY AND BIOTECHNOLOGY 2018. ISSN 1755-1307, 2020, vol. 593, no., pp. Dostupné na: <https://doi.org/10.1088/1755-1315/593/1/012011.>, Registrované v: WOS

- ADCA274 JAKUBÍKOVÁ, Lucia - FARKAŠ, Vladimír - KOLÁROVA, Nadežda - NEMČOVIČ, Marek. Conidiation of *Trichoderma atroviride* isolate during submerged cultivation in a laboratory stirred-tank fermenter. In *Folia microbiologica*, 2006, vol. 51, p. 209-213. (2005: 0.918 - IF, Q3 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02932124>

Citácie:

1. [1.1] DE REZENDE, Larissa Castro - DE ANDRADE CARVALHO, Andre Luiz - COSTA, Lucio Bertoldo - HALFELD-VIEIRA, Bernardo De Almeida - SILVA, Lucas Guedes - PINTO, Zayame Vegette - BOECHAT MORANDI, Marcelo Augusto - VASCONCELOS DE MEDEIROS, Flavio Henrique - MASCARIN, Gabriel Moura - BETTIOL, Wagner. Optimizing mass production of *Trichoderma asperelloides* by submerged liquid fermentation and its antagonism against *Sclerotinia sclerotiorum*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02882-7.>, Registrované v: WOS
2. [1.1] TKALENKO, H. M. - BORZYKH, O. I. - HORAL, S. V. - BARVAS-HREMIKOVA, K. M. - JANSE, L. A. SCREENING NEW TRICHODERMA ISOLATES FOR ANTAGONISTIC ACTIVITY AGAINST SEVERAL PHYTOPATHOGENIC FUNGI, INCLUDING *FUSARIUM* SPP. In *AGRICULTURAL SCIENCE AND PRACTICE*. ISSN 2312-3370, 2020, vol. 7, no. 3, pp. 14-24. Dostupné na: <https://doi.org/10.15407/agrisp7.03.014.>, Registrované v: WOS

- ADCA275 JANÁK, Marián - FROITZHEIM, Nikolaus - YOSHIDA, Kenta - SASINKOVÁ, Vlasta - NOSKO, Martin - KOBAYASHI, T. - HIRAJIMA, Takao - VRABEC, Mirijam. Diamond in metasedimentary crustal rocks from Pohorje, Eastern Alps: a window to deep continental subduction. In *Journal of Metamorphic Geology*, 2015, vol. 33, p. 495-512. (2014: 4.147 - IF, Q1 - JCR, 3.524 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0263-4929. Dostupné na: <https://doi.org/10.1111/jmg.12130>

Citácie:

1. [1.1] CHANG, Ruihong - NEUBAUER, Franz - LIU, Yongjiang - GENSER, Johann - JIN, Wei - YUAN, Sihua - GUAN, Qingbin - HUANG, Qianwen - LI, Weimin. Subduction of a rifted passive continental margin: the Pohorje case of Eastern Alps-constraints from geochronology and geochemistry. In *SWISS JOURNAL OF GEOSCIENCES*. ISSN 1661-8726, 2020, vol. 113, no. 1, pp., Registrované v: WOS
2. [1.1] LI, Botao - MASSONNE, Hans-Joachim - ZHANG, Junfeng. Evolution of a gneiss in the Seve nappe complex of central Sweden Hints at an early Caledonian, medium-pressure metamorphism. In *LITHOS*. ISSN 0024-4937, 2020, vol. 376, no., pp., Registrované v: WOS
3. [1.1] LITASOV, K. D. - BEKKER, T. B. - KAGI, H. - OHFUJI, H. Reply to the comment on "comparison of enigmatic diamonds from the Tolbachik arc volcano (Kamchatka) and Tibetan ophiolites: Assessing the role of contamination by synthetic materials" by Litasov et al. (2019) (*Gondwana research*, 75, 16-27) by Yang et al. In *GONDWANA RESEARCH*. ISSN 1342-937X, 2020, vol. 79, no., pp. 304-307., Registrované v: WOS

4. [1.1] RANTITSCH, Gerd - IGLSEDER, Christoph - SCHUSTER, Ralf - HOLLINETZ, Marianne Sophie - HUET, Benjamin - WERDENICH, Manuel. *Organic metamorphism as a key for reconstructing tectonic processes: a case study from the Austroalpine unit (Eastern Alps). In INTERNATIONAL JOURNAL OF EARTH SCIENCES. ISSN 1437-3254, 2020, vol. 109, no. 6, pp. 2235-2253., Registrované v: WOS*

5. [1.1] VAN HINSBERGEN, Douwe J. J. - TORSVIK, Trond H. - SCHMID, Stefan M. - MATENCO, Liviu C. - MAFFIONE, Marco - VISSERS, Reinoud L. M. - GURER, Derya - SPAKMAN, Wim. *Orogenic architecture of the Mediterranean region and kinematic reconstruction of its tectonic evolution since the Triassic. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 81, no., pp. 79-229., Registrované v: WOS*

ADCA276 JANOŠ, Pavel - TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Different QM/MM approaches to elucidate enzymatic reactions: Case study on ppGalNAcT2. In Journal of Chemical Theory and Computation, 2016, vol. 12, no. 12, p. 6062-6076. (2015: 5.301 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.6b00531>

Citácie:

1. [1.1] KONA, J. *How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS*

2. [1.1] MAGALHAES, Rita P. - FERNANDES, Henriques S. - SOUSA, Sergio F. *Modelling Enzymatic Mechanisms with QM/MM Approaches: Current Status and Future Challenges. In ISRAEL JOURNAL OF CHEMISTRY. ISSN 0021-2148, 2020, vol. 60, no. 7, pp. 655-666. Dostupné na: <https://doi.org/10.1002/ijch.202000014>., Registrované v: WOS*

ADCA277 JÁNOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor** - KOČA, Jaroslav. How mycobacterium tuberculosis galactofuranosyltransferase 2 (GlfT2) generates alternating β -(1-6) and β -(1-5) linkages: QM/MM molecular dynamics study of the chemical steps. In Chemistry-A European Journal, 2018, vol. 24, p. 7051-7059. (2017: 5.160 - IF, Q1 - JCR, 2.265 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201800558>

Citácie:

1. [1.1] KONA, J. *How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS*

ADCA278 JANOVEC, L. - SUCHÁR, G. - IMRICH, J. - KRISTIAN, P. - SASINKOVÁ, Vlasta - ALFÖLDY, Juraj - SEDLÁK, Erik. 9-Isothiocyanato-anthracene as a versatile starting compound in the chemistry of anthracen-9-yl derivatives. In Collection of Czechoslovak Chemical Communications, 2002, vol. 67, p. 665-678. (2001: 0.778 - IF). ISSN 0010-0765.

Citácie:

1. [1.1] AHMED, Sarbast M. - HUSSAIN, Faiq H. S. - QUADRELLI, Paolo. *9-Anthraldehyde oxime: a synthetic tool for variable applications. In*

- MONATSHEFTE FUR CHEMIE. ISSN 0026-9247, 2020, vol. 151, no. 11, pp. 1643-1658. Dostupné na: <https://doi.org/10.1007/s00706-020-02695-2>., Registrované v: WOS*
2. [1.1] SAHA, Amrita - SINGH, Asha - CHARI, Rama - JAYABALAN, J. *Unraveling relation between nonlinear absorption and structure of push pull ornamented anthracenyl chalcone derivatives. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1219, no., pp. Dostupné na: <https://doi.org/10.1016/j.molstruc.2020.128578>., Registrované v: WOS*
- ADCA279 JANTOVÁ, Soňa - PAULOVÍČOVÁ, Ema** - PAULOVÍČOVÁ, Lucia - JANOŠKOVÁ, Michaela - PÁNIK, Miroslav - MILATA, Viktor. Immunobiological efficacy and immunotoxicity of novel synthetically prepared fluoroquinolone ethyl 6-fluoro-8-nitro-4-oxo-1,4-dihydroquinoline-3-carboxylate. In Immunobiology, 2018, vol. 223, p. 81-93. (2017: 2.873 - IF, Q3 - JCR, 1.100 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0171-2985. Dostupné na: <https://doi.org/10.1016/j.imbio.2017.10.008>
- Citácie:
1. [1.1] YU, Fangmiao - ZHANG, Zhuangwei - LI, Wei - TIAN, Hengqun - XU, Jun - BAO, Yongzhong. *Synthesis and evaluation of moxifloxacin derivatives for effects on proliferation and apoptosis of NCI-H1299 cells. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2020, vol. 61, no. 21, pp. Dostupné na: <https://doi.org/10.1016/j.tetlet.2020.151873>., Registrované v: WOS*
- ADCA280 JANTOVÁ, Soňa - KOŇARIKOVÁ, Katarína - LETÁŠIOVÁ, Silvia - PAULOVÍČOVÁ, Ema - MILATA, Viktor - BREZOVÁ, Vlasta. Photochemical and phototoxic properties of ethyl 1,4-dihydro-8-nitro-4-oxoquinoline-3-carboxylate, a new quinoline derivative. In Journal of Photochemistry and Photobiology : B: Biology, 2011, vol. 102, p. 77-91. (2010: 2.116 - IF, Q3 - JCR, 0.699 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1011-1344. Dostupné na: <https://doi.org/10.1016/j.jphotobiol.2010.09.007>
- Citácie:
1. [1.1] MALCEK, Michal - KOZISKOVA, Julia - HERICH, Peter - RAPTA, Peter - STEPANENKO, Iryna - ARION, Vladimir B. *Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 30, pp. 13195-13206. Dostupné na: <https://doi.org/10.1039/d0nj02447c>., Registrované v: WOS*
- ADCA281 JANTOVÁ, Soňa - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - TOPOLESKÁ, Dominika - PÁNIK, Miroslav - MILATA, Viktor. Assessment of immunomodulatory activities and in vitro toxicity of new quinolone 7-ethyl 9-ethyl-6-oxo-6,9-dihydro [1,2,5] selenadiazolo [3,4-h] quinoline-7-carboxylate. In Immunological Investigations, 2017, vol. 46, p. 341-360. (2016: 1.824 - IF, Q4 - JCR, 0.677 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0882-0139. Dostupné na: <https://doi.org/10.1080/08820139.2017.1280050>
- Citácie:
1. [1.1] MALCEK, M. - KOZISKOVA, J. - HERICH, P. - RAPTA, P. - STEPANENKO, I. - ARION, V.B. *Formation of metal-radical species upon reduction of late transition metal complexes with heteroleptic ligands: an experimental and theoretical study. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, AUG 14 2020, vol. 44, no. 30, p. 13195-13206., Registrované v: WOS*
2. [1.1] RUBERTE, A.C. - SANMARTIN, C. - AYDILLO, C. - SHARMA, A.K. - PLANO, D. *Development and Therapeutic Potential of Selenazo Compounds. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, FEB 27 2020, vol. 63, no. 4, p. 1473-1489., Registrované v: WOS*

- ADCA282 JÁRVÁS, Gábor** - GUTTMAN, András - MIĘKUS, Natalia - BĄCZEK, Tomáš - JEONG, Sunkyung - CHUNG, Doo Soo - PĀTOPRSTÝ, Vladimír - MASÁR, Marián - HUTTA, Milan - DATINSKÁ, Vladimíra - FORET, František. Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. In *Trends in Analytical Chemistry*, 2020, vol. 122, art. no. 115702 [9] p. (2019: 9.801 - IF, Q1 - JCR, 2.153 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0165-9936. Dostupné na: <https://doi.org/10.1016/j.trac.2019.115702>
- Citácie:
- [1.1] BRUNEEL, Arnaud - CHOLET, Sophie - THUY TRAN, N. - THANH DUC MAI - FENAILLE, Francois. CDG biochemical screening: Where do we stand? In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2020, vol. 1864, no. 10, pp. Dostupné na: <https://doi.org/10.1016/j.bbagen.2020.129652>., Registrované v: WOS
 - [1.1] KARTSOVA, L. A. - MAKEEVA, D. V. - BESSONOVA, E. A. Current Status of Capillary Electrophoresis. In *JOURNAL OF ANALYTICAL CHEMISTRY*. ISSN 1061-9348, 2020, vol. 75, no. 12, pp. 1497-1513. Dostupné na: <https://doi.org/10.1134/S1061934820120084>., Registrované v: WOS
 - [1.1] TEGGLADZA, Isaac Delove - QI, Tong - CHEN, Tianyu - ALORKU, Kingdom - TANG, Sheng - SHEN, Wei - KONG, Dezhaoh - YUAN, Aihua - LIU, Jianfeng - LEE, Hian Kee. Direct immersion single-drop microextraction of semi-volatile organic compounds in environmental samples: A review. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2020, vol. 393, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.122403>., Registrované v: WOS
 - [1.1] THEODORIDIS, Konstantinos - STERGIOPOULOS, Fotis - BECHTSIS, Dimitrios - NIKOLAIDIS, Nikolaos - TRIANTAFYLIDIS, Dimitrios - TSAGARIS, Apostolos - FILELIS, Anastasios - PAPAICONOMOU, Asterios. An Innovative and Fully Automated System for Gel Electrophoresis. In *30TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING, PTS A-C*. ISSN 1570-7946, 2020, vol. 48, no., pp. 847-852. Dostupné na: <https://doi.org/10.1016/B978-0-12-823377-1.50142-7>., Registrované v: WOS
 - [1.1] ZAYED, Sahar - BELAL, Fathalla. Capillary electrophoresis with field-amplified sample stacking for simultaneous determination of indacaterol and glycopyrronium in inhaler capsules: Application to human plasma and urine. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.104779>., Registrované v: WOS
- ADCA283 JESZEOVÁ, Lenka - BAUEROVÁ-HLINKOVÁ, Vladena** - BARÁTH, Peter - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Biochemical and proteomic characterization of the extracellular enzymatic preparate of *Exiguobacterium undae*, suitable for efficient animal glue removal. In *Applied Microbiology and Biotechnology*, 2018, vol. 102, p. 6525-6536. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-018-9105-3>
- Citácie:
- [1.2] PARULEKAR-BERDE, Chanda - GHOBLE, Sachin S. - SALVI, Sagar P. - BERDE, Vikrant B. Microorganisms and their enzymes as bio restoration agents. In *Microbial Biotechnology Approaches to Monuments of Cultural Heritage*, 2020-01-01, pp. 71-86., Registrované v: SCOPUS
- ADCA284 JOLLY, Pawan - DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - SOARES,

Ruben - CHU, Virginia - CUNDI, Joao P. - KATRLÍK, Jaroslav - ESTRELA, Pedro. DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. In *Biosensors and Bioelectronic*, 2016, vol. 79, p. 313-319. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2015.12.058>

Citácie:

1. [1.1] BAKHTIARI, Hadi - PALIZBAN, Abbas Ali - KHANAHMAD, Hossein - MOFID, Mohammad Reza. Aptamer-based approaches for in vitro molecular detection of cancer. In *RESEARCH IN PHARMACEUTICAL SCIENCES*. ISSN 1735-5362, 2020, vol. 15, no. 2, pp. 107-122. Dostupné na: <https://doi.org/10.4103/1735-5362.283811>, Registrované v: WOS
2. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DIAZ, Natalia - SUAREZ, Dimas - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, M. Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling. In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2020, vol. 11, no. 35, pp. 9402-9413. Dostupné na: <https://doi.org/10.1039/d0sc00209g>, Registrované v: WOS
3. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>, Registrované v: WOS
4. [1.1] XIAO, Qin - XU, Chunxia. Research progress on chemiluminescence immunoassay combined with novel technologies. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2019.115780>, Registrované v: WOS
5. [1.1] YAN, Shu-Rong - FOROUGH, Mohammad Mehdi - SAFAEI, Mohadeseh - JAHANI, Shohreh - EBRAHIMPOUR, Nasser - BORHANI, Fariba - BARAVATI, Nadia Rezaei Zade - ARAMESH-BOROUJENI, Zahra - FOONG, Loke Kok. A review: Recent advances in ultrasensitive and highly specific recognition aptasensors with various detection strategies. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 184-207. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.173>, Registrované v: WOS

ADCA285 JOLLY, Pawan - FORMISANO, Nello - TKÁČ, Ján - KASÁK, Peter - FROST, Christopher - ESTRELA, Pedro. Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In *Sensors and Actuators B-Chemical*, 2015, vol. 209, p. 306-312. (2014: 4.097 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2014.11.083>

Citácie:

1. [1.1] ABBASY, Leila - MOHAMMADZADEH, Arezoo - HASANZADEH, Mohammad - EHSANI, Maryam - MOKHTARZADEH, Ahad. Biosensing of prostate specific antigen (PSA) in human plasma samples using biomacromolecule encapsulation into KCC-1-npr-NH₂: A new platform for prostate cancer detection. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 584-595. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.093>, Registrované v: WOS
2. [1.1] ADHIKARI, Juthi - RIZWAN, Mohammad - KEASBERRY, Natasha Ann - AHMED, Minhaz Uddin. Current progresses and trends in carbon nanomaterials-based electrochemical and electrochemiluminescence biosensors. In *JOURNAL*

- OF THE CHINESE CHEMICAL SOCIETY. ISSN 0009-4536, 2020, vol. 67, no. 6, pp. 937-960. Dostupné na: <https://doi.org/10.1002/jccs.201900417>., Registrované v: WOS*
3. [1.1] BLAIR, Ewen O. - HANNAH, Stuart - VEZZA, Vincent - AVCI, Huseyin - KOCAGOZ, Tanil - HOSKISSON, Paul A. - GUZEL, Fatma D. - CORRIGAN, Damion K. *Biologically modified microelectrode sensors provide enhanced sensitivity for detection of nucleic acid sequences from Mycobacterium tuberculosis. In SENSORS AND ACTUATORS REPORTS. ISSN 2666-0539, 2020, vol. 2, no. 1, pp. Dostupné na: <https://doi.org/10.1016/j.snr.2020.100008>., Registrované v: WOS*
4. [1.1] BROTHERS, Michael C. - MOORE, David - ST LAWRENCE, Michael - HARRIS, Jonathan - JOSEPH, Ronald M. - RATCLIFF, Erin - RUIZ, Oscar N. - GLAVIN, Nicholas - KIM, Steve S. *Impact of Self-Assembled Monolayer Design and Electrochemical Factors on Impedance-Based Biosensing. In SENSORS, 2020, vol. 20, no. 8, pp. Dostupné na: <https://doi.org/10.3390/s20082246>., Registrované v: WOS*
5. [1.1] CAMPUZANO, Susana - PEDRERO, Maria - GAMELLA, Maria - SERAFIN, Veronica - YANEZ-SEDENO, Paloma - MANUEL PINGARRON, Jose. *Beyond Sensitive and Selective Electrochemical Biosensors: Towards Continuous, Real-Time, Antibiofouling and Calibration-Free Devices. In SENSORS, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123376>., Registrované v: WOS*
6. [1.1] DHARA, Keerthy - MAHAPATRA, Debiprosad Roy. *Review on electrochemical sensing strategies for C-reactive protein and cardiac troponin I detection. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.104857>., Registrované v: WOS*
7. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. *Ultrasensitive impedimetric immunosensor for influenza A detection. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS*
8. [1.1] FARSHCHI, Fatemeh - HASANZADEH, Mohammad. *Nanomaterial based aptasensing of prostate specific antigen (PSA): Recent progress and challenges in efficient diagnosis of prostate cancer using biomedicine. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110878>., Registrované v: WOS*
9. [1.1] FOROUZANFAR, Shahrzad - ALAM, Fahmida - PALA, Nezih - WANG, Chunlei. *Review-A Review of Electrochemical Aptasensors for Label-Free Cancer Diagnosis. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2020, vol. 167, no. 6, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab7f20>., Registrované v: WOS*
10. [1.1] LI, Zhi - ZHU, Mingshan. *Detection of pollutants in water bodies: electrochemical detection or photo-electrochemical detection? In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2020, vol. 56, no. 93, pp. 14541-14552. Dostupné na: <https://doi.org/10.1039/d0cc05709f>., Registrované v: WOS*
11. [1.1] LIN, Pei-Heng - LI, Bor-Ran. *Antifouling strategies in advanced electrochemical sensors and biosensors. In ANALYST. ISSN 0003-2654, 2020, vol. 145, no. 4, pp. 1110-1120. Dostupné na:*

<https://doi.org/10.1039/c9an02017a>., Registrované v: WOS

12. [1.1] NAYL, A. A. - IBRAHIM, A. I. Abd-Elhamid A. - EL-MOGHAZY, Ahmed Y. - HUSSIN, Mohamed - ABU-SAIED, M. A. - EL-SHANSHORY, Ahmed A. - SOLIMAN, Hesham M. A. The nanomaterials and recent progress in biosensing systems: A review. In *TRENDS IN ENVIRONMENTAL ANALYTICAL CHEMISTRY*. ISSN 2214-1588, 2020, vol. 26, no., pp. Dostupné na:

<https://doi.org/10.1016/j.teac.2020.e00087>., Registrované v: WOS

13. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. Advances in prostate specific antigen biosensors-impact of nanotechnology. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na:

<https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS

14. [1.1] OBERHAUS, Franziska V. - FRENSE, Dieter - BECKMANN, Dieter. Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050045>., Registrované v: WOS

15. [1.1] SOLHI, Elham - HASANZADEH, Mohammad. Critical role of biosensing on the efficient monitoring of cancer proteins/biomarkers using label-free aptamer based bioassay. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na:

<https://doi.org/10.1016/j.biopha.2020.110849>., Registrované v: WOS

16. [1.1] SUHANTO, Rhesti Nurlina - HARIMURTI, Suksmandhira - SEPTIANI, Ni Luh Wulan - UTARI, Listya - ANSHORI, Isa - WASISTO, Hutomo Suryo - SUZUKI, Hiroaki - SUYATMAN - YULIARTO, Brian. Sonochemical synthesis of magnetic Fe₃O₄/graphene nanocomposites for label-free electrochemical biosensors. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, 2020, vol. 31, no. 18, pp. 15381-15393.

Dostupné na: <https://doi.org/10.1007/s10854-020-04102-2>., Registrované v: WOS

17. [1.1] SYPABEKOVA, Marzhan - AITKULOV, Arman - BLANC, Wilfried - TOSI, Daniele. Reflector-less nanoparticles doped optical fiber biosensor for the detection of Case thrombin. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na:

<https://doi.org/10.1016/j.bios.2020.112365>., Registrované v: WOS

ADCA286 JOLLY, Pawan - ZHURAUSKI, Pavel - HAMMOND, Jules L. - MIODEK, Anna - LIÉBANA, Susana - BERTÓK, Tomáš - TKÁČ, Ján - ESTRELA, Pedro. Self-assembled gold nanoparticles for impedimetric and amperometric detection of a prostate cancer biomarker. In *Sensors and Actuators B: Chemical*, 2017, vol. 251, p. 637-643. (2016: 5.401 - IF, Q1 - JCR, 1.343 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2017.05.040>

Citácie:

1. [1.1] FARSHCHI, Fatemeh - HASANZADEH, Mohammad. Nanomaterial based aptasensing of prostate specific antigen (PSA): Recent progress and challenges in efficient diagnosis of prostate cancer using biomedicine. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.biopha.2020.110878>., Registrované v: WOS

2. [1.1] LETCHUMANAN, Iswary - ARSHAD, M. K. Md - GOPINATH, Subash C. B. - RAJAPAKSHA, R. D. A. A. - BALAKRISHNAN, S. R. Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598->

020-63831-w., Registrované v: WOS

3. [1.1] LORENCOVA, Lenka. *Functional Nanomaterials in Sensing and Biosensing Applications*. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 109-167., Registrované v: WOS

4. [1.1] NEGAHDARY, M. - SATTARAHMADY, N. - HELI, H. *Advances in prostate specific antigen biosensors-impact of nanotechnology*. In *CLINICA CHIMICA ACTA*. ISSN 0009-8981, 2020, vol. 504, no., pp. 43-55. Dostupné na: <https://doi.org/10.1016/j.cca.2020.01.028>., Registrované v: WOS

5. [1.1] OBERHAUS, Franziska V. - FRENSE, Dieter - BECKMANN, Dieter. *Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review*. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050045>., Registrované v: WOS

6. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. *Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing*. In *FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING*. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>., Registrované v: WOS

7. [1.1] RAJU, V. Manohar - BHAVANA, V. - GAYATHRI, G. K. - SURYAN, Sandeep - REDDY, Roopa - REDDY, Narendra - RAVIKUMAR, C. R. - SANTOSH, Mysore Sridhar. *A novel disposable electrochemical DNA biosensor for the rapid detection of Bacillus thuringiensis*. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2020.105434>., Registrované v: WOS

8. [1.1] SYPABEKOVA, Marzhan - AITKULOV, Arman - BLANC, Wilfried - TOSI, Daniele. *Reflector-less nanoparticles doped optical fiber biosensor for the detection of Case thrombin*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112365>., Registrované v: WOS

ADCA287 JUHÁSZ, László - VARGA, Gergely - SZTANKOVICS, Andrea - BÉKE, Ferenc - DOCSA, Tibor - KISS-SZIKSZAI, Attila - GERGELY, Pál - KÓŇA, Juraj - TVAROŠKA, Igor. *Structure-activity relationships of glycogen phosphorylase inhibitor FR258900 and its analogues: A combined synthetic, enzyme kinetics, and computational study*. In *ChemPlusChem*, 2014, vol. 79, p. 1558-1568. (2013: 3.360 - IF, Q1 - JCR, 1.442 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1439-7641. Dostupné na: <https://doi.org/10.1002/cplu.201402181>

Citácie:

1. [1.1] PEYROT, Cedric - MENTION, Matthieu M. - FOURNIER, Robin - BRUNISSEN, Fanny - COUVREUR, Julien - BALAGUER, Patrick - ALLAIS, Florent. *Expeditious and sustainable two-step synthesis of sinapoyl-L-malate and analogues: towards non-endocrine disruptive bio-based and water-soluble bioactive compounds*. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2020, vol. 22, no. 19, pp. 6510-6518. Dostupné na: <https://doi.org/10.1039/d0gc02763d>., Registrované v: WOS

ADCA288 KAČURÁKOVÁ, Marta - WELLNER, N. - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - WILSON, R.H. - BELTON, P.S. *Characterisation of xylan-type polysaccharides and associated cell wall components by FT-IR and FT-Raman spectroscopies*. In *Food Hydrocolloids*, 1999, vol. 13, p. 35-41. ISSN 0268-005X.

Citácie:

1. [1.1] CEBI, Nur - BOZKURT, Fatih - YILNNAZ, Mustafa Tahsin - SAGDIC,

- Osman. *An evaluation of FTIR spectroscopy for prediction of royal jelly content in hive products*. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 2, pp. 146-155. Dostupné na: <https://doi.org/10.1080/00218839.2019.1707009>., Registrované v: WOS
2. [1.1] CHEN, Yanjun - SUN, Xiangxiang - SHAN, Junqiang - TANG, Chenglun - HU, Ruijia - SHEN, Tao - QIAO, Hongqun - LI, Ming - ZHUANG, Wei - ZHU, Chenjie - YING, Hanjie. *Flow synthesis, characterization, anticoagulant activity of xylan sulfate from sugarcane bagasse*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1460-1467. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.124>., Registrované v: WOS
3. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. *Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae)*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
4. [1.1] DI FRANCESCO, Alessandra - DI FOGGIA, Michele - BARALDI, Elena. *Aureobasidium pullulans volatile organic compounds as alternative postharvest method to control brown rot of stone fruits*. In *FOOD MICROBIOLOGY*. ISSN 0740-0020, 2020, vol. 87, no., pp. Dostupné na: <https://doi.org/10.1016/j.fm.2019.103395>., Registrované v: WOS
5. [1.1] EL-AHMADY EL-NAGGAR, Noura - RABEI, Nashwa H. - EL-MALKEY, Sahar E. *Eco-friendly approach for biosorption of Pb²⁺ and carcinogenic Congo red dye from binary solution onto sustainable Ulva lactuca biomass*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-73031-1>., Registrované v: WOS
6. [1.1] HACHEM, Kadda - BOUDRAA, Kamel Eddine - KAID-HARCHE, Meriem. *Chemical and thermal characteristics of soluble polysaccharides from fruit pericarps of the Algerian Argania spinosa*. In *POLISH JOURNAL OF CHEMICAL TECHNOLOGY*. ISSN 1509-8117, 2020, vol. 22, no. 4, pp. 17-21. Dostupné na: <https://doi.org/10.2478/pjct-2020-0033>., Registrované v: WOS
7. [1.1] IBRAHIM, Samia M. - BOUREZGUI, A. - ABD-ELMAGEED, A. A. I. - KACEM, I. - AL-HOSSAINY, Ahmed F. *Structural and optical characterization of novel [ZnKCMC](TF) for optoelectronic device applications*. In *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*. ISSN 0957-4522, 2020, vol. 31, no. 11, pp. 8690-8704. Dostupné na: <https://doi.org/10.1007/s10854-020-03404-9>., Registrované v: WOS
8. [1.1] KUSHWAH, Sunita - BANASIAK, Alicja - NISHIKUBO, Nobuyuki - DERBA-MACELUCH, Marta - MAJDA, Mateusz - ENDO, Satoshi - KUMAR, Vikash - GOMEZ, Leonardo - GORZSAS, Andras - MCQUEEN-MASON, Simon - BRAAM, Janet - SUNDBERG, Bjorn - MELLEROWICZ, Ewa J. *Arabidopsis XTH4 and XTH9 Contribute to Wood Cell Expansion and Secondary Wall Formation(1)([OPEN])*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2020, vol. 182, no. 4, pp. 1946-1965. Dostupné na: <https://doi.org/10.1104/pp.19.01529>., Registrované v: WOS
9. [1.1] LAN, Weijie - RENARD, Catherine M. G. C. - JAILLAIS, Benoit - LECA, Alexandre - BUREAU, Sylvie. *Fresh, freeze-dried or cell wall samples: Which is the most appropriate to determine chemical, structural and rheological variations during apple processing using ATR-FTIR spectroscopy?* In *FOOD CHEMISTRY*.

- ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na:
<https://doi.org/10.1016/j.foodchem.2020.127357>., Registrované v: WOS
10. [1.1] LI, Xiaoli - SHA, Junjing - XIA, Yihua - SHENG, Kuichuan - LIU, Yufei - HE, Yong. Quantitative visualization of subcellular lignocellulose revealing the mechanism of alkali pretreatment to promote methane production of rice straw. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na:
<https://doi.org/10.1186/s13068-020-1648-8>., Registrované v: WOS
11. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na:
<https://doi.org/10.1002/app.48325>., Registrované v: WOS
12. [1.1] MATEU, Batirtze Prats - BOCK, Peter - GIERLINGER, Notburga. Raman Imaging of Plant Cell Walls. In *PLANT CELL WALL*, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 251-295. Dostupné na:
https://doi.org/10.1007/978-1-0716-0621-6_15., Registrované v: WOS
13. [1.1] MENDEZ-ENCINAS, Mayra A. - CARVAJAL-MILLAN, Elizabeth - ORTEGA-GARCIA, Jesus - SANTIAGO-GOMEZ, Lubitza B. - DE ANDA-FLORES, Yubia - MARTINEZ-ROBINSON, Karla G. - VALENCIA-RIVERA, Dora E. Effect of Ultrasound-Treated Arabinoxylans on the Oxidative Stability of Soybean Oil. In *ANTIOXIDANTS*, 2020, vol. 9, no. 2, pp. Dostupné na:
<https://doi.org/10.3390/antiox9020147>., Registrované v: WOS
14. [1.1] PAWLAK-KRUCZEK, Halina - ARORA, Amit - GUPTA, Ashish - SAEED, Muhammad Azam - NIEDZWIECKI, Lukasz - ANDREWS, Gordon - PHYLAKTU, Herodotos - GIBBS, Bernard - NEWLACZYL, Anna - LIVESEY, Penelope M. Biocoal Quality control and assurance. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2020, vol. 135, no., pp. Dostupné na:
<https://doi.org/10.1016/j.biombioe.2020.105509>., Registrované v: WOS
15. [1.1] SENAPITAKKUL, Viradee - VANITJINDA, Gawisara - TORGBO, Selorm - PINMANEE, Phitsanu - NIMCHUA, Thidarat - RUNGTHAWORN, Prapassorn - SUKATTA, Udomlak - SUKYAI, Prakit. Pretreatment of Cellulose from Sugarcane Bagasse with Xylanase for Improving Dyeability with Natural Dyes. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 43, pp. 28168-28177. Dostupné na: <https://doi.org/10.1021/acsomega.0c03837>., Registrované v: WOS
16. [1.1] STOKLOSA, Ryan J. - LATONA, Renee J. - POWELL, Michael J. - YADAV, Madhav P. Influence of Phenolic Acid Content on the Antioxidant Capacity of Hemicellulose from Sorghum Plant Fractions. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 4, pp. 7933-7953. Dostupné na:
<https://doi.org/10.15376/biores.15.4.7933-7953>., Registrované v: WOS
17. [1.1] SUSHYTSKYI, Leonid - LUKAC, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVA, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - COPIKOVA, Jana - KASTANEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HYI (*Chlorellaceae*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116588>., Registrované v: WOS
18. [1.1] SYNYTSYA, Alla - POUCKOVA, Pavla - ZADINOVA, Marie - TROSHCHYNSKA, Yana - STETINA, Jiri - SYNYTSYA, Andriy - SALON, Ivan - KRAL, Vladimir. Hydrogels based on low-methoxyl amidated citrus pectin and flaxseed gum formulated with tripeptide glycyl-L-histidyl-L-lysine improve the

healing of experimental cutting wounds in rats. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 3156-3168. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.251>., Registrované v: WOS

19. [1.1] URBIZO-REYES, Uriel - SAN MARTIN-GONZALEZ, M. Fernanda - GARCIA-BRAVO, Jose - LICEAGA, Andrea M. Development of chia seed (*Salvia hispanica*) mucilage films plasticized with polyol mixtures: Mechanical and barrier properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 854-864. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.023>., Registrované v: WOS

20. [1.1] URTIGA, Silvana Cartaxo da Costa - ALVES, Vitoria Maria Oliveira - MELO, Camila de Oliveira - DE LIMA, Marini Nascimento - SOUZA, Ernane - CUNHA, Arcelina Pacheco - RICARDO, Nagila Maria Pontes Silva - OLIVEIRA, Elquio Eleamen - DO EGITO, Eryvaldo Socrates Tabosa. Xylan microparticles for controlled release of mesalamine: Production and physicochemical characterization. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116929>., Registrované v: WOS

21. [1.1] YILMAZ-TURAN, Secil - JIMENEZ-QUERO, Amparo - MENZEL, Carolin - DE CARVALHO, Danila Morais - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena - MORIANA, Rosana - VILAPLANA, Francisco. Bio-based films from wheat bran feruloylated arabinoxylan: Effect of extraction technique, acetylation and feruloylation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116916>., Registrované v: WOS

22. [1.1] ZEMLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate). In POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040825>., Registrované v: WOS

ADCA289 KAČURÁKOVÁ, Marta - BELTON, P.S. - WILSON, R.H. - HIRSCH, Ján - EBRINGEROVÁ, Anna. Hydration properties of xylan-type structures: an FTIR study of xylooligosaccharides. In Journal of the Science of Food and Agriculture, 1998, vol. 77, no. 1, p. 38-44. Dostupné na: [https://doi.org/10.1002/\(SICI\)1097-0010\(199805\)77:1::AID-JSFA999o.0.CO;2-5](https://doi.org/10.1002/(SICI)1097-0010(199805)77:1::AID-JSFA999o.0.CO;2-5)

Citácie:

1. [1.1] ADILETTA, Giuseppina - BRACHI, Paola - RILANOVA, Evelina - CRESCITELLI, Alessio - MICCIO, Michele - KOSTRYUKOVA, Natalia. A Simplified Biorefinery Concept for the Valorization of Sugar Beet Pulp: Ecofriendly Isolation of Pectin as a Step Preceding Torrefaction. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2020, vol. 11, no. 6, pp. 2721-2733. Dostupné na: <https://doi.org/10.1007/s12649-019-00582-4>., Registrované v: WOS

2. [1.1] BADER, Matyas - NEMETH, Robert - SANDAK, Jakub - SANDAK, Anna. FTIR analysis of chemical changes in wood induced by steaming and longitudinal compression. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 12, pp. 6811-6829. Dostupné na: <https://doi.org/10.1007/s10570-020-03131-8>., Registrované v: WOS

3. [1.1] BRITO, Talita Katiane - SILVA VIANA, Rony Lucas - GONCALVES MORENO, Claudia Jassica - BARBOSA, Jefferson da Silva - DE SOUSA JUNIOR, Francimar Lopes - CAMPOS DE MEDEIROS, Mayara Jane - MELO-SILVEIRA, Raniere Fagundes - ALMEIDA-LIMA, Jailma - PONTES, Daniel de

- Lima - SILVA, Marcelo Sousa - OLIVEIRA ROCHA, Hugo Alexandre. *Synthesis of Silver Nanoparticle Employing Corn Cob Xylan as a Reducing Agent with Anti-Trypanosoma cruzi Activity*. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2020, vol. 15, no., pp. 965-979. Dostupné na: <https://doi.org/10.2147/IJN.S216386>., Registrované v: WOS
4. [1.1] DE CARVALHO, Danila Morais - MARCHAND, Celia - BERGLUND, Jennie - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. *Impact of birch xylan composition and structure on film formation and properties*. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2020, vol. 74, no. 2, pp. 184-196. Dostupné na: <https://doi.org/10.1515/hf-2018-0224>., Registrované v: WOS
5. [1.1] HALYSH, Vita - SEVASTYANOVA, Olena - PIKUS, Stanislaw - DOBELE, Galina - PASALSKIY, Bogdan - GUN'KO, Volodymyr M. - KARTEL, Mykola. *Sugarcane bagasse and straw as low-cost lignocellulosic sorbents for the removal of dyes and metal ions from water*. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 14, pp. 8181-8197. Dostupné na: <https://doi.org/10.1007/s10570-020-03339-8>., Registrované v: WOS
6. [1.1] LIANG, Yuan - DUAN, Wenjing - AN, Xiaoxi - QIAO, Yingyun - TIAN, Yuanyu - ZHOU, Haifeng. *Novel betaine-amino acid based natural deep eutectic solvents for enhancing the enzymatic hydrolysis of corncob*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123389>., Registrované v: WOS
7. [1.1] LIU, Hua-Min - WEI, Ya-Nan - YAN, Yuan-Yuan - WU, Min - QIN, Guang-Yong - WANG, Xue-De. *Extraction and Characterization of Pectic Polysaccharides from Chaenomeles sinensis Fruit by Hot Compressed Water*. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 1, pp. 854-868. Dostupné na: <https://doi.org/10.15376/biores.15.1.854-868>., Registrované v: WOS
8. [1.1] LUO, Jing - HUANG, Kaixuan - ZHOU, Xin - XU, Yong. *Green integration of alcohol-mediated hemicelluloses separation and alkali recycling (AHSAR) technologies in a viscose fiber plant*. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2020, vol. 237, no., pp. Dostupné na: <https://doi.org/10.1016/j.seppur.2019.116359>., Registrované v: WOS
9. [1.1] MODICA, Aurora - ROSSELLI, Sergio - CATINELLA, Giorgia - SOTTILE, Francesco - CATANIA, C. Anna - CAVALLARO, Giuseppe - LAZZARA, Giuseppe - BOTTA, Luigi - SPINELLA, Alberto - BRUNO, Maurizio. *Solid state ¹³C-NMR methodology for the cellulose composition studies of the shells of Prunus dulcis and their derived cellulosic materials*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116290>., Registrované v: WOS
10. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. *Efficient Extraction and Structural Characterization of Hemicellulose from Sugarcane Bagasse Pith*. In *POLYMERS*, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS
11. [1.1] YAN, Jipeng - OYEDEJI, Oluwafemi - LEAL, Juan H. - DONOHOE, Bryon S. - SEMELSBERGER, Troy A. - LI, Chenlin - HOOVER, Amber N. - WEBB, Erin - BOSE, Elizabeth A. - ZENG, Yining - WILLIAMS, C. Luke - SCHALLER, Kastli D. - SUN, Ning - RAY, Allison E. - TANJORE, Deepti. *Characterizing Variability in Lignocellulosic Biomass: A Review*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8059-8085. Dostupné na:

- <https://doi.org/10.1021/acssuschemeng.9b06263>., Registrované v: WOS
12. [1.1] ZHANG, Chuang - KHOO, Siew Lin Ada - SWEDLUND, Peter - OGAWA, Yukiharu - SHAN, Yang - QUEK, Siew Young. *Fabrication of Spray-Dried Microcapsules Containing Noni Juice Using Blends of Maltodextrin and Gum Acacia: Physicochemical Properties of Powders and Bioaccessibility of Bioactives during In Vitro Digestion*. In *FOODS*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091316>., Registrované v: WOS
13. [1.1] ZONG, Peijie - JIANG, Yuan - TIAN, Yuanyu - LI, Jie - YUAN, Meng - JI, Yaoyao - CHEN, Minshen - LI, Dawei - QIAO, Yingyun. *Pyrolysis behavior and product distributions of biomass six group components: Starch, cellulose, hemicellulose, lignin, protein and oil*. In *ENERGY CONVERSION AND MANAGEMENT*. ISSN 0196-8904, 2020, vol. 216, no., pp. Dostupné na: <https://doi.org/10.1016/j.enconman.2020.112777>., Registrované v: WOS
- ADCA290 KAČURÁKOVÁ, Marta - CAPEK, Peter - SASINKOVÁ, Vlasta - WELLNER, N. - EBRINGEROVÁ, Anna. FT-IR study of plant cell wall model compounds: pectic polysaccharides and hemicelluloses. In *Carbohydrate Polymers*, 2000, vol. 43, p. 195-203. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00151-X](https://doi.org/10.1016/S0144-8617(00)00151-X)
- Citácie:
1. [1.1] ALEJANDRA LOPEZ-ORTEGA, Mayra - INES RODRIGUEZ-HERNANDEZ, Adriana - CAMACHO-RUIZ, Rosa M. - CORDOVA, Jesus - DEL ROD LOPEZ-CUELLAR, Ma. - CHAVARRIA-HERNANDEZ, Norberto - GONZALEZ-GARCIA, Yolanda. *Physicochemical characterization and emulsifying properties of a novel exopolysaccharide produced by haloarchaeon Haloferax mucosum*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 142, no., pp. 152-162. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.087>., Registrované v: WOS
2. [1.1] ANGELLINNOV, F. - YUSUF, H. - RAHAYU, D. U. C. - KRISNANDI, Y. K. *Conversion of Rice Husks Cellulose to Levulinic Acid on Hierarchical Mn3O4/ZSM-5 Catalyst from Natural Aluminosilicate*. In *8TH INTERNATIONAL CONFERENCE OF THE INDONESIAN CHEMICAL SOCIETY (ICICS)) 2019*. ISSN 0094-243X, 2020, vol. 2243, no., pp. Dostupné na: <https://doi.org/10.1063/5.0001092>., Registrované v: WOS
3. [1.1] ANYIAM, C. K. - OGBOBE, O. - OGUZIE, E. E. - MADUFOR, I. C. - NWANONENYI, S. C. - ONUGBU, G. C. - OBASI, H. C. - CHIDIEBERE, M. A. *Corrosion inhibition of galvanized steel in hydrochloric acid medium by a physically modified starch*. In *SN APPLIED SCIENCES*. ISSN 2523-3963, 2020, vol. 2, no. 4, pp. Dostupné na: <https://doi.org/10.1007/s42452-020-2322-2>., Registrované v: WOS
4. [1.1] ASHARUDDIN, Syazwani Mohd - OTHMAN, Norzila - ZIN, Nur Shaylinda Mohd - DIN, Mohd Fadhil Md. - KUMAR, Vicky. *Synthesis and Characterization of Dual Properties Coagulant from Natural Precursors for Raw Water Treatment*. In *INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING*. ISSN 2229-838X, 2020, vol. 12, no. 8, pp. 257-267. Dostupné na: <https://doi.org/10.30880/ijie.2020.12.08.025>., Registrované v: WOS
5. [1.1] AZUMA, Wakana A. - NAKASHIMA, Satoru - YAMAKITA, Eri - OHTA, Tamihisa. *Water Adsorption to Leaves of Tall Cryptomeria japonica Tree Analyzed by Infrared Spectroscopy under Relative Humidity Control*. In *PLANTS-BASEL*, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/plants9091107>., Registrované v: WOS
6. [1.1] BARBUT, S. - HARPER, A. *INFLUENCE OF RELATIVE HUMIDITY ON*

- DRIED CA(++)-ALGINATE FILMS AND COMPOSITES MADE WITH SOY AND PECTIN. In ITALIAN JOURNAL OF FOOD SCIENCE. ISSN 1120-1770, 2020, vol. 32, no. 1, pp. 195-208., Registrované v: WOS*
7. [1.1] BEDNAREK, Piotr T. - ZEBROWSKI, Jacek - ORLOWSKA, Renata. *Exploring the Biochemical Origin of DNA Sequence Variation in Barley Plants Regenerated via in Vitro Anther Culture. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 16, pp. Dostupné na: <https://doi.org/10.3390/ijms21165770>., Registrované v: WOS*
8. [1.1] CAMPESTRINI, Luciano Henrique - RASERA, Gabriela Boscarior - DE CAMARGO, Adriano Costa - FRANCHIN, Marcelo - NANI, Bruno Dias - ROSALEN, Pedro Luiz - CANNIATTI-BRAZACA, Solange Guidolin - TELLES BIASOTO, Aline Camarao - SHAHIDI, Fereidoon - ALENCAR, Severino Matias. *Alkaline conditions better extract anti-inflammatory polysaccharides from winemaking by-products. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108532>., Registrované v: WOS*
9. [1.1] CHEN, Xiaoxia - LI, Tianyu - QING, Degang - CHEN, Jun - ZHANG, Qian - YAN, Chunyan. *Structural characterization and osteogenic bioactivities of a novel Humulus lupulus polysaccharide. In FOOD & FUNCTION. ISSN 2042-6496, 2020, vol. 11, no. 1, pp. 1165-1175. Dostupné na: <https://doi.org/10.1039/c9fo01918a>., Registrované v: WOS*
10. [1.1] CHEN, Yuxiang - YU, Hou-Yong - LI, Yingzhan. *Highly Efficient and Superfast Cellulose Dissolution by Green Chloride Salts and Its Dissolution Mechanism. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18446-18454. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05788>., Registrované v: WOS*
11. [1.1] CHEN, Zhi-Yu - CHEN, Shih-Heng - CHEN, Chih-Hao - CHOU, Pang-Yun - YANG, Chun-Chen - LIN, Feng-Huei. *Polysaccharide Extracted from Bletilla striata Promotes Proliferation and Migration of Human Tenocytes. In POLYMERS, 2020, vol. 12, no. 11, pp. Dostupné na: <https://doi.org/10.3390/polym12112567>., Registrované v: WOS*
12. [1.1] CHIKARI, Fadzai - HAN, Juan - WANG, Yun - LUO, Peng - HE, Xingcheng - KWAU, Emmanuel - OTU, Phyllis. *Dual-frequency ultrasound-assisted alcohol/salt aqueous two-phase extraction and purification of Astragalus polysaccharides. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2020, vol. 43, no. 4, pp. Dostupné na: <https://doi.org/10.1111/jfpe.13366>., Registrované v: WOS*
13. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. *Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS*
14. [1.1] COUTO, Ricardo - WONG, Emily - SEIFRIED, Bernhard - YEPEZ, Byron - MOQUIN, Paul - TEMELLI, Feral. *Preparation of PGX-dried gum arabic and its loading with coQ10 by adsorptive precipitation. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104662>., Registrované v: WOS*
15. [1.1] DROBEK, Magdalena - FRAC, Magdalena - ZDUNEK, Artur - CYBULSKA, Justyna. *The Effect of Cultivation Method of Strawberry (Fragaria x*

- ananassaDuch.) cv. Honeoye on Structure and Degradation Dynamics of Pectin during Cold Storage. In MOLECULES, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184325>., Registrované v: WOS*
16. [1.1] DURAK, Tomasz - DEPCIUCH, Joanna. Effect of plant sample preparation and measuring methods on ATR-FTIR spectra results. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, 2020, vol. 169, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2019.103915>., Registrované v: WOS
17. [1.1] DURMAZ, Sefa - OZGENC, Ozlem - AVCI, Erkan - BOYACI, Ismail Hakki. Weathering performance of waterborne acrylic coating systems on flat-pressed wood-plastic composites. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 14, pp. Dostupné na: <https://doi.org/10.1002/app.48518>., Registrované v: WOS
18. [1.1] EINHORN-STOLL, Ulrike - KASTNER, Hanna - FATOUROS, Alexandra - KRAEHMER, Andrea - KROH, Lothar W. - DRUSCH, Stephan. Thermal degradation of citrus pectin in low-moisture environment Investigation of backbone depolymerisation. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 107, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105937>., Registrované v: WOS
19. [1.1] EL-AZAZY, Marwa - EL-SHAFIE, Ahmed S. - ELGENDY, Ahmed - ISSA, Ahmed A. - AL-MEER, Saeed - AL-SAAD, Khalid A. A Comparison between Different Agro-wastes and Carbon Nanotubes for Removal of Sarafloxacin from Wastewater: Kinetics and Equilibrium Studies. In MOLECULES, 2020, vol. 25, no. 22, pp. Dostupné na: <https://doi.org/10.3390/molecules25225429>., Registrované v: WOS
20. [1.1] FARID-UL-HAQ, Muhammad - HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - NAEEM-UL-HASSAN, Muhammad - HUSSAIN, Syed Zajif - HUSSAIN, Irshad. A smart drug delivery system based on Artemisia vulgaris hydrogel: Design, on-off switching, and real-time swelling, transit detection, and mechanistic studies. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2020, vol. 58, no., pp. Dostupné na: <https://doi.org/10.1016/j.jddst.2020.101795>., Registrované v: WOS
21. [1.1] FARID-UL-HAQ, Muhammad - HUSSAIN, Muhammad Ajaz - HASEEB, Muhammad Tahir - ASHRAF, Muhammad Umer - HUSSAIN, Syed Zajif - TABASSUM, Tahira - HUSSAIN, Irshad - SHER, Muhammad - BUKHARI, Syed Nasir Abbas - NAEEM-UL-HASSAN, Muhammad. A stimuli-responsive, superporous and non-toxic smart hydrogel from seeds of mugwort (*Artemisia vulgaris*): stimuli responsive swelling/deswelling, intelligent drug delivery and enhanced aceclofenac bioavailability. In RSC ADVANCES, 2020, vol. 10, no. 34, pp. 19832-19843. Dostupné na: <https://doi.org/10.1039/d0ra03176c>., Registrované v: WOS
22. [1.1] FAZIO, Alessia - LA TORRE, Chiara - CAROLEO, Maria Cristina - CAPUTO, Paolino - PLASTINA, Pierluigi - CIONE, Erika. Isolation and Purification of Glucans from an Italian Cultivar of *Ziziphus jujuba* Mill. and In Vitro Effect on Skin Repair. In MOLECULES, 2020, vol. 25, no. 4, pp. Dostupné na: <https://doi.org/10.3390/molecules25040968>., Registrované v: WOS
23. [1.1] FAZIO, Alessia - LA TORRE, Chiara - DALENA, Francesco - PLASTINA, Pierluigi. Screening of glucan and pectin contents in broad bean (*Vicia faba* L.) pods during maturation. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2020, vol. 246, no. 2, pp. 333-347. Dostupné na: <https://doi.org/10.1007/s00217-019-03347-4>., Registrované v: WOS

24. [1.1] FONSECA, Daniela F. S. - COSTA, Paulo C. - ALMEIDA, Isabel F. - DIAS-PEREIRA, Patricia - CORREIA-SA, Ines - BASTOS, Veronica - OLIVEIRA, Helena - DUARTE-ARAUJO, Margarida - MORATO, Manuela - VILELA, Carla - SILVESTRE, Armando J. D. - FREIRE, Carmen S. R. Pullulan microneedle patches for the efficient transdermal administration of insulin envisioning diabetes treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116314>., Registrované v: WOS
25. [1.1] GERBIN, Elise - FRAPART, Yves-Michel - MARCUELLO, Carlos - COTTYN, Betty - FOULON, Laurence - PERNES, Miguel - CRONIER, David - MOLINARI, Michael - CHABBERT, Brigitte - DUCROT, Paul-Henri - BAUMBERGER, Stephanie - AGUIE-BEGHIN, Veronique - KUREK, Bernard. Dual Antioxidant Properties and Organic Radical Stabilization in Cellulose Nanocomposite Films Functionalized by In Situ Polymerization of Coniferyl Alcohol. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 8, pp. 3163-3175. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00583>., Registrované v: WOS
26. [1.1] GHLISSI, Zohra - KALLEL, Rim - KRICHEN, Fatma - HAKIM, Ahmed - ZEGHAL, Khaled - BOUDAWARA, Tahiya - BOUGATEF, Ali - SAHNOUN, Zouheir. Polysaccharide from Pimpinella anisum seeds: Structural characterization, anti-inflammatory and laser burn wound healing in mice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 156, no., pp. 1530-1538. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.201>., Registrované v: WOS
27. [1.1] GHOBASHY, Mohamed Mohamady - ABD EL-WAHAB, H. - ISMAIL, Mohamed A. - NASER, A. M. - ABDELHAI, Farag - EL-DAMHOUGY, Basem Kh - NADY, Norhan - MEGANID, Abeer S. - ALKHURSANI, Sheikha A. Characterization of Starch-based three components of gamma-ray cross-linked hydrogels to be used as a soil conditioner. In MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS. ISSN 0921-5107, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.mseb.2020.114645>., Registrované v: WOS
28. [1.1] GU, Weidong - LI, Feng - LIU, Xiaorong - GAO, Qiang - GONG, Shanshan - LI, Jianzhang - SHI, Sheldon Q. Q. Borate chemistry inspired by cell walls converts soy protein into high-strength, antibacterial, flame-retardant adhesive. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 4, pp. 1319-1328. Dostupné na: <https://doi.org/10.1039/c9gc03875b>., Registrované v: WOS
29. [1.1] HARTMAN, G. - BRITTINGHAM, A. - GILBOA, A. - HREN, M. - MAAS, K. - PILVER, J. - WEISS, E. Post-charring diagenetic alteration of archaeological lentils by bacterial degradation. In JOURNAL OF ARCHAEOLOGICAL SCIENCE. ISSN 0305-4403, 2020, vol. 117, no., pp. Dostupné na: <https://doi.org/10.1016/j.jas.2020.105119>., Registrované v: WOS
30. [1.1] HASHEMIFESHARAKI, Reza - XANTHAKIS, Epameinondas - ALTINTAS, Zeynep - GUO, Ya - GHARIBZAHEDI, Seyed Mohammad Taghi. Microwave-assisted extraction of polysaccharides from the marshmallow roots: Optimization, purification, structure, and bioactivity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116301>., Registrované v: WOS
31. [1.1] HUANG, Weinan - NIE, Yating - ZHU, Nan - YANG, Yifan - ZHU, Changqing - JI, Minbiao - WU, Di - CHEN, Kunsong. Hybrid Label-Free Molecular Microscopies for Simultaneous Visualization of Changes in Cell Wall

- Polysaccharides of Peach at Single- and Multiple-Cell Levels during Postharvest Storage. In CELLS, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/cells9030761>., Registrované v: WOS*
32. [1.1] JAMOSSI, Bassem - CHAKROUN, Radhouane - JABLAOUI, Cherif - RHAZI, Larbi. Efficiency of Acacia Gummifera powder as biosorbent for simultaneous decontamination of water polluted with metals. In ARABIAN JOURNAL OF CHEMISTRY. ISSN 1878-5352, 2020, vol. 13, no. 10, pp. 7459-7481. Dostupné na: <https://doi.org/10.1016/j.arabjc.2020.08.022>., Registrované v: WOS
33. [1.1] JANA, Subrata - MUKHERJEE, Shuvam - ALI, Imran - RAY, Bimalendu - RAY, Sayani. Isolation, structural features, in vitro antioxidant activity and assessment of complexation ability with beta-lactoglobulin of a polysaccharide from Borassus flabellifer fruit. In HELIYON, 2020, vol. 6, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.heliyon.2020.e05499>., Registrované v: WOS
34. [1.1] KASTNER, Hanna - EINHORN-STOLL, Ulrike - FATOUROS, Alexandra - DRUSCH, Stephan. Impact of sodium ions on material properties, gelation and storage stability of citrus pectin. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 104, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105750>., Registrované v: WOS
35. [1.1] KOLIASTASI, Aikaterini - KOMPOTHEKRA, Vasiliki - GIOTIS, Charilaos - MOUSTAKAS, Antonis K. - SKOTTI, Efsthia P. - GERAKIS, Argyrios - KALOGIANNI, Eleni P. - GEORGIOU, Despoina - RITZOULIS, Christos. Novel emulsifiers from olive mill compost. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 99, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105373>., Registrované v: WOS
36. [1.1] LAKSHMI, Suresh - SUVEDHA, Kalidoss - SRUTHI, Ramesh - LAVANYA, Jayaprakash - VARJANI, Sunita - NAKKEERAN, Ekambaram. Hexavalent chromium sequestration from electronic waste by biomass of Aspergillus carbonarius. In BIOENGINEERED. ISSN 2165-5979, 2020, vol. 11, no. 1, pp. 708-717. Dostupné na: <https://doi.org/10.1080/21655979.2020.1780828>., Registrované v: WOS
37. [1.1] LAN, Weijie - RENARD, Catherine M. G. C. - JAILLAIS, Benoit - LECA, Alexandre - BUREAU, Sylvie. Fresh, freeze-dried or cell wall samples: Which is the most appropriate to determine chemical, structural and rheological variations during apple processing using ATR-FTIR spectroscopy? In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127357>., Registrované v: WOS
38. [1.1] LI, Jianxuan - ZHONG, Jing - CHEN, Haiyun - YU, Qian - YAN, Chunyan. Structural characterization and anti-neuroinflammatory activity of a heteropolysaccharide isolated from the rhizomes of Polygala tenuifolia. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112792>., Registrované v: WOS
39. [1.1] LI, Long-Qing - SONG, Ang-Xin - YIN, Jun-Yi - SIU, Ka-Chai - WONG, Wing-Tak - WU, Jian-Yong. Anti-inflammation activity of exopolysaccharides produced by a medicinal fungus Cordyceps sinensis Cs-HK1 in cell and animal models. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, no., pp. 1042-1050. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.022>., Registrované v: WOS
40. [1.1] LI, Xiao - BI, Jinfeng - JIN, Xin - LI, Xuan - WU, Xinye - LYU, Jian. Characterization of Water Binding Properties of Apple Pectin Modified by Instant

- Controlled Pressure Drop Drying (DIC) by LF-NMR and DSC Methods. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2020, vol. 13, no. 2, pp. 265-274. Dostupné na: <https://doi.org/10.1007/s11947-019-02387-8>, Registrované v: WOS*
41. [1.1] LI, Ying - QIN, Gaoyixin - CHENG, Chen - YUAN, Biao - HUANG, Dechun - CHENG, Shujie - CAO, Chongjiang - CHEN, Guitang. Purification, characterization and anti-tumor activities of polysaccharides from *Ecklonia kurome* obtained by three different extraction methods. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1000-1010. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.216>, Registrované v: WOS*
42. [1.1] LI, Zheng - LUO, Yiping - WANG, Xiaoyan - JIANG, Zhicheng - XU, Shuguang - HU, Changwei. The effect of sodium chloride concentration on the mutarotation and structure of D-xylose in water: Experimental and theoretical investigation. In *CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 489, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107941>, Registrované v: WOS*
43. [1.1] LI, Zhengwen - LIN, Lin - LIU, Xiang - WAN, Chunli - LEE, Duu-Jong. Understanding the role of extracellular polymeric substances in the rheological properties of aerobic granular sludge. In *SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 705, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.135948>, Registrované v: WOS*
44. [1.1] LIU, Jianing - BI, Jinfeng - LIU, Xuan - LIU, Dazhi - WU, Xinye - LYU, Jian - DING, Yingying. Effects of pectins and sugars on beta-carotene bioaccessibility in an in vitro simulated digestion model. In *JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2020, vol. 91, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfca.2020.103537>, Registrované v: WOS*
45. [1.1] LIU, Ying - HU, Chao-Fan - FENG, Xi - CHENG, Lei - IBRAHIM, Salam A. - WANG, Cheng-Tao - HUANG, Wen. Isolation, characterization and antioxidant of polysaccharides from *Stropharia rugosoannulata*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 883-889. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.045>, Registrované v: WOS*
46. [1.1] LODHI, Bilal Ahmad - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - HASEEB, Muhammad Tahir - MUHAMMAD, Gulzar - FARID-UL-HAQ, Muhammad - NAEEM-UL-HASSAN, Muhammad. Basil (*Ocimum basilicum* L.) seeds engender a smart material for intelligent drug delivery: On-Off switching and real-time swelling, in vivo transit detection, and mechanistic studies. In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112780>, Registrované v: WOS*
47. [1.1] MA, Jin-Shuang - LIU, Hong - HAN, Chang-Ri - ZENG, Si-Jie - XU, Xiao-Jun - LU, Deng-Jun - HE, Hong-Ju. Extraction, characterization and antioxidant activity of polysaccharide from *Pouteria campechiana* seed. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115409>, Registrované v: WOS*
48. [1.1] MAKAREM, Mohamadamin - KIM, Hyojung - EMAMI, Parinaz - MELENDEZ, Jesus - STEINBACH, Adam - LIPKIE, Tristan - DELERIS, Isabelle - DESMET, Christina - WALLECAN, Joel - KIM, Seong H. Impact of Drying on Meso- and Nanoscale Structures of Citrus Fiber: A Study by SFG, ATR-IR, XRD, and DLS. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN*

- 0888-5885, 2020, vol. 59, no. 7, pp. 2718-2724. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b06194>., Registrované v: WOS
49. [1.1] MAKSHAKOVA, O. N. - FAIZULLIN, D. A. - ZUEV, Yu F. Interplay between secondary structure and ion binding upon thermoreversible gelation of kappa-carrageenan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 227, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115342>., Registrované v: WOS
50. [1.1] MUHAMMAD, Gulzar - HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - FARID-UL-HAQ, Muhammad - ZAMAN, Muhammad. Stimuli-responsive/smart tablet formulations (under simulated physiological conditions) for oral drug delivery system based on glucuronoxylan polysaccharide. In DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY. ISSN 0363-9045, 2020, vol. 46, no. 1, pp. 122-134. Dostupné na: <https://doi.org/10.1080/03639045.2019.1706551>., Registrované v: WOS
51. [1.1] NEFFA, M. - TAOURIRTE, M. - OUAZZANI, N. - HANINE, H. Eco-friendly approach for elimination of olive mill wastewaters (OMW) toxicity using cactus prickly pears juice as a coagulant. In WATER PRACTICE AND TECHNOLOGY. ISSN 1751-231X, 2020, vol. 15, no. 4, pp. 1050-1067. Dostupné na: <https://doi.org/10.2166/wpt.2020.076>., Registrované v: WOS
52. [1.1] NIEVA LOBOS, Maria Luz - SIEBEN, Juan Manuel - MOYANO, Elizabeth Laura. Softwood Kraft Pulp-Derived Carbon-Supported PtNi Catalysts for the Electrooxidation of Ethanol. In FRONTIERS IN MATERIALS. ISSN 2296-8016, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.3389/fmats.2020.588399>., Registrované v: WOS
53. [1.1] OGNYANOV, Manol - REMOROZA, Connie - SCHOLS, Henk A. - GEORGIEV, Yordan N. - PETKOVA, Nadezhda Tr. - KRISTYJAN, Magdalena. Structural, rheological and functional properties of galactose-rich pectic polysaccharide fraction from leek. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115549>., Registrované v: WOS
54. [1.1] OLAWUYI, Ibukunoluwa Fola - KIM, Soo Rin - HAHN, Dongyup - LEE, Won Young. Influences of combined enzyme-ultrasonic extraction on the physicochemical characteristics and properties of okra polysaccharides. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105396>., Registrované v: WOS
55. [1.1] PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - CAPEK, Peter - MATULOVA, Maria - WILK, Kazimiera A. New isolation process for bioactive food fiber from wild strawberry leaf. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2020, vol. 161, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107639>., Registrované v: WOS
56. [1.1] PHILIPPE, Glenn - GENEIX, Nathalie - PETIT, Johann - GUILLON, Fabienne - SANDT, Christophe - ROTHAN, Christophe - LAHAYE, Marc - MARION, Didier - BAKAN, Benedicte. Assembly of tomato fruit cuticles: a cross-talk between the cutin polyester and cell wall polysaccharides. In NEW PHYTOLOGIST. ISSN 0028-646X, 2020, vol. 226, no. 3, pp. 809-822. Dostupné na: <https://doi.org/10.1111/nph.16402>., Registrované v: WOS
57. [1.1] PRADO, Samira B. R. - BEUKEMA, Martin - JERMENDI, Eva - SCHOLS, Henk A. - DE VOS, Paul - FABI, Joao Paulo. Pectin Interaction with Immune Receptors is Modulated by Ripening Process in Papayas. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-58311-0>., Registrované v: WOS
58. [1.1] QUILES-CARRILLO, Luis - MONTAVA-JORDA, Sergi - BORONAT,

- Teodomiro - SAMMON, Chris - BALART, Rafael - TORRES-GINER, Sergio. *On the Use of Gallic Acid as a Potential Natural Antioxidant and Ultraviolet Light Stabilizer in Cast-Extruded Bio-Based High-Density Polyethylene Films*. In *POLYMERS*, 2020, vol. 12, no. 1, pp. Dostupné na: <https://doi.org/10.3390/polym12010031>., Registrované v: WOS
59. [1.1] REN, Yi - YAKUBOV, Gleb E. - LINTER, Bruce R. - MACNAUGHTAN, William - FOSTER, Tim J. *Temperature fractionation, physicochemical and rheological analysis of psyllium seed husk heteroxylan*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 104, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105737>., Registrované v: WOS
60. [1.1] RESENDE, Lais M. - OLIVEIRA, Leandro S. - FRANCA, Adriana S. *Characterization of jabuticaba (Plinia cauliflora) peel flours and prediction of compounds by FTIR analysis*. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.110135>., Registrované v: WOS
61. [1.1] RJEIBI, Ilhem - HENTATI, Faiez - FERIANI, Anouar - HFAIEDH, Najla - DELATTRE, Cedric - MICHAUD, Philippe - PIERRE, Guillaume. *Novel Antioxidant, Anti-alpha-Amylase, Anti-Inflammatory and Antinociceptive Water-Soluble Polysaccharides from the Aerial Part of Nitraria retusa*. In *FOODS*, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/foods9010028>., Registrované v: WOS
62. [1.1] RODRIGUEZ-RESTREPO, Yeimy A. - ROCHA, Cristina M. R. - TEIXEIRA, Jose A. - ORREGO, Carlos E. *Valorization of Passion Fruit Stalk by the Preparation of Cellulose Nanofibers and Immobilization of Trypsin*. In *FIBERS AND POLYMERS*. ISSN 1229-9197, 2020, vol. 21, no. 12, pp. 2807-2816. Dostupné na: <https://doi.org/10.1007/s12221-020-1342-2>., Registrované v: WOS
63. [1.1] RONG, A. - ZHANG, Meili - LU, Yu - ZHANG, Huijie - BAI, Xue. *The structural studies of a polysaccharide purified from Oat Lao-Chao*. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2020, vol. 55, no. 12, pp. 3563-3573. Dostupné na: <https://doi.org/10.1111/ijfs.14690>., Registrované v: WOS
64. [1.1] ROZILAH, A. - JAAFAR, C. N. Aiza - SAPUAN, S. M. - ZAINOL, I. - ILYAS, R. A. *The Effects of Silver Nanoparticles Compositions on the Mechanical, Physicochemical, Antibacterial, and Morphology Properties of Sugar Palm Starch Biocomposites for Antibacterial Coating*. In *POLYMERS*, 2020, vol. 12, no. 11, pp. Dostupné na: <https://doi.org/10.3390/polym12112605>., Registrované v: WOS
65. [1.1] SABAGHI, Sanaz - FATEHI, Pedram. *Polarity of Cationic Lignin Polymers: Physicochemical Behavior in Aqueous Solutions and Suspensions*. In *CHEMSUSCHEM*. ISSN 1864-5631, 2020, vol. 13, no. 17, pp. 4722-4734. Dostupné na: <https://doi.org/10.1002/cssc.202000897>., Registrované v: WOS
66. [1.1] SAYIN, S. - KOHLHAAS, T. - VEZIROGLU, S. - OKUDAN, E. S. - NAZ, M. - SCHROEDER, S. - SAYGILI, E. - ACIL, Y. - FAUPEL, F. - WILTFANG, J. - AKTAS, O. C. - GUELSES, A. *Marine Algae-PLA composites as de novo alternative to porcine derived collagen membranes*. In *MATERIALS TODAY CHEMISTRY*. ISSN 2468-5194, 2020, vol. 17, no., pp. Dostupné na: <https://doi.org/10.1016/j.mtchem.2020.100276>., Registrované v: WOS
67. [1.1] SCHEEPERS, Maxime - SPIELMANN, Julien - BOULANGER, Madeleine - CARNOL, Monique - BOSMAN, Bernard - DE PAUW, Edwin - GOORMAGHTIGH, Erik - MOTTE, Patrick - HANIKENNE, Marc. *Intertwined metal homeostasis, oxidative and biotic stress responses in the Arabidopsis frd3 mutant*. In *PLANT JOURNAL*. ISSN 0960-7412, 2020, vol. 102, no. 1, pp. 34-52.

- Dostupné na: <https://doi.org/10.1111/tpj.14610>., Registrované v: WOS
68. [1.1] SHARMA, Kedar - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - GOYAL, Arun. *Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides*. In ACS OMEGA. ISSN 2470-1343, 2020, vol. 5, no. 23, pp. 13729-13738. Dostupné na: <https://doi.org/10.1021/acsomega.0c00896>., Registrované v: WOS
69. [1.1] SHARMA, Kedar - MORLA, Sudhir - KHAIRE, Kaustubh Chandrakant - THAKUR, Abhijeet - MOHOLKAR, Vijayanand Suryakant - KUMAR, Sachin - GOYAL, Arun. *Extraction, characterization of xylan from Azadirachta indica (neem) sawdust and production of antiproliferative xylooligosaccharides*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1897-1907. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.086>., Registrované v: WOS
70. [1.1] SHARMA, Sweta - UTTAM, K. N. *Non-Destructive Assessment of the Impact of Selenium Treatment on the Biochemical Profile of the Leaves of Wheat Seedlings by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy*. In ANALYTICAL LETTERS. ISSN 0003-2719, 2020, vol. 53, no. 11, pp. 1794-1811. Dostupné na: <https://doi.org/10.1080/00032719.2020.1719127>., Registrované v: WOS
71. [1.1] SHEIKH, Fatima Akbar - HUSSAIN, Muhammad Ajaz - ASHRAF, Muhammad Umer - HASEEB, Muhammad Tahir - FARID-UL-HAQ, Muhammad. *Linseed hydrogel based floating drug delivery system for fluoroquinolone antibiotics: Design, in vitro drug release and in vivo real-time floating detection*. In SAUDI PHARMACEUTICAL JOURNAL. ISSN 1319-0164, 2020, vol. 28, no. 5, pp. 538-549. Dostupné na: <https://doi.org/10.1016/j.jsps.2020.03.005>., Registrované v: WOS
72. [1.1] SHI, Xiaofeng - WANG, Chao - ZHANG, Jiaoxia - GUO, Li - LIN, Jing - PAN, Duo - ZHOU, Juying - FAN, Jincheng - DING, Tao - GUO, Zhanhu. *Zwitterionic glycine modified Fe/Mg-layered double hydroxides for highly selective and efficient removal of oxyanions from polluted water*. In JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY. ISSN 1005-0302, 2020, vol. 51, no., pp. 8-15. Dostupné na: <https://doi.org/10.1016/j.jmst.2019.12.034>., Registrované v: WOS
73. [1.1] SINGH, Mandeep - PAHAL, Vikas - AHUJA, Dheeraj. *Isolation and characterization of microfibrillated cellulose and nanofibrillated cellulose with "biomechanical hotspots"*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115827>., Registrované v: WOS
74. [1.1] SINGH, Ravindra Pal - PRAKASH, Suraj - BHATIA, Ruchika - NEGI, Manorma - SINGH, Jagdeep - BISHNOI, Mahendra - KONDEPUDI, Kanthi Kiran. *Generation of structurally diverse pectin oligosaccharides having prebiotic attributes*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 108, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105988>., Registrované v: WOS
75. [1.1] SLAVOV, Anton - OGNJANOV, Manol - VASILEVA, Ivelina. *Pectic polysaccharides extracted from pot marigold (Calendula officinalis) industrial waste*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 101, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105545>., Registrované v: WOS
76. [1.1] SONG, Young-Ran - HAN, Ah-Ram - PARK, Seul-Gi - CHO, Chang-Won - RHEE, Young-Kyoung - HONG, Hee-Do. *Effect of enzyme-assisted*

- extraction on the physicochemical properties and bioactive potential of lotus leaf polysaccharides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 153, no., pp. 169-179. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.252>., Registrované v: WOS*
77. [1.1] SU, Jinjuan - SUN, Jing - JIAN, Tongtong - ZHANG, Guoying - LING, Jianya. Immunomodulatory and Antioxidant Effects of Polysaccharides from the Parasitic Fungus *Cordyceps kyushuensis*. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/8257847>., Registrované v: WOS
78. [1.1] SUN, Dan - SUN, Shao-Chao - WANG, Bin - SUN, Shao-Fei - SHI, Quentin - ZHENG, Lu - WANG, Shuang-Fei - LIU, Shi-Jie - LI, Ming-Fei - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. Effect of various pretreatments on improving cellulose enzymatic digestibility of tobacco stalk and the structural features of co-produced hemicelluloses. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122471>., Registrované v: WOS
79. [1.1] SUN, Jiao - XIE, Xin-an - FAN, Di - WANG, Xin - LIAO, Weiting. Effect of TEMPO and characterization of bio-oil from cellulose liquefaction in supercritical ethanol. In RENEWABLE ENERGY. ISSN 0960-1481, 2020, vol. 145, no., pp. 1949-1956. Dostupné na: <https://doi.org/10.1016/j.renene.2019.07.098>., Registrované v: WOS
80. [1.1] SUSHYTSKYI, Leonid - LUKAC, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVA, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - COPIKOVA, Jana - KASTANEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HYI (Chlorellaceae). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116588>., Registrované v: WOS
81. [1.1] TORRES-GARCIA, Enelio - BRACHI, Paola. Non-isothermal pyrolysis of grape marc Thermal behavior, kinetics and evolved gas analysis. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2020, vol. 139, no. 2, pp. 1463-1478. Dostupné na: <https://doi.org/10.1007/s10973-019-08530-z>., Registrované v: WOS
82. [1.1] TRONCOZO, Maria - FIGOLI, Cecilia B. - FRANCO, Mario E. E. - MIRIFICO, Maria - BOSCH, Alejandra - RAJCHENBERG, Mario - BALATTI, Pedro A. - SAPARRAT, Mario C. N. Biotransformation of grape pomace from *Vitis labrusca* by *Peniophora albobadia* LPSC # 285 (Basidiomycota). In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2020, vol. 92, no. 1, pp. Dostupné na: <https://doi.org/10.1590/0001-3765202020181174>., Registrované v: WOS
83. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. Green extraction of polyphenolic-polysaccharide conjugates from *Pseuderanthemum palatiferum* (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS
84. [1.1] VALARIKOVA, Jana - CIZOVA, Alzbeta - RACKOVA, Lucia - BYSTRICKY, Slavomir. Anti-staphylococcal activity of quaternized mannan from

- the yeast Candida albicans. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116288>., Registrované v: WOS*
85. [1.1] VUILLEMIN, Marie E. - MICHAUX, Florentin - ADAM, Aurelie A. - LINDER, Michel - MUNIGLIA, Lionel - JASNIEWSKI, Jordane. *Physicochemical characterizations of gum Arabic modified with oxidation products of ferulic acid. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 107, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105919>., Registrované v: WOS*
86. [1.1] WANG, Jia - SALEM, David R. - SANI, Rajesh Kumar. *Synthesis of Biopolymers from a Geobacillus sp. WSUCF1 Using Unprocessed Corn Stover. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 25, pp. 9483-9496. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c02435>., Registrované v: WOS*
87. [1.1] WEI, Yi - SHEN, Chaoyue - XIE, Jiale - BU, Quan. *Study on reaction mechanism of superior bamboo biochar catalyst production by molten alkali carbonates pyrolysis and its application for cellulose hydrolysis. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 712, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.136435>., Registrované v: WOS*
88. [1.1] WIATER, Adrian - PADUCH, Roman - TROJNAR, Sylwia - CHOMA, Adam - PLESZCZYNSKA, Malgorzata - ADAMCZYK, Paulina - PIET, Mateusz - PROCHNIAK, Katarzyna - SZCZODRAK, Janusz - STRAWA, Jakub - TOMCZYK, Michal. *The Effect of Water-Soluble Polysaccharide from Jackfruit (Artocarpus heterophyllus Lam.) on Human Colon Carcinoma Cells Cultured In Vitro. In PLANTS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/plants9010103>., Registrované v: WOS*
89. [1.1] WILLICK, Ian R. - STOBBS, Jarvis - KARUNAKARAN, Chithra - TANINO, Karen K. *Phenotyping Plant Cellular and Tissue Level Responses to Cold with Synchrotron-Based Fourier-Transform Infrared Spectroscopy and X-Ray Computed Tomography. In PLANT COLD ACCLIMATION, 2 EDITION. ISSN 1064-3745, 2020, vol. 2156, no., pp. 141-159. Dostupné na: https://doi.org/10.1007/978-1-0716-0660-5_11., Registrované v: WOS*
90. [1.1] WONGKAEW, Malaiporn - SOMMANO, Sarana Rose - TANGPAO, Tibet - RACHTANAPUN, Pornchai - JANTANASAKULWONG, Kittisak. *Mango Peel Pectin by Microwave-Assisted Extraction and Its Use as Fat Replacement in Dried Chinese Sausage. In FOODS, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040450>., Registrované v: WOS*
91. [1.1] XIA, Huimin - SUI, Kun - GE, Tengting - WU, Fazong - SUN, Qiqi - WANG, Zhongwei - SONG, Liang - HUANG, Xiaowen - YU, Qing. *Natural compounds from Punica granatum peel as multiple stabilizers for polyethylene. In POLYMER ENGINEERING AND SCIENCE. ISSN 0032-3888, 2020, vol. 60, no. 11, pp. 2761-2769. Dostupné na: <https://doi.org/10.1002/pen.25506>., Registrované v: WOS*
92. [1.1] XIANG, Xiao - TAN, Cui - SUN, Xinjuan - ZHAO, Yansheng - ZHANG, Jiayan - ZHU, Ying - BAI, Juan - DONG, Ying - ZHOU, Xinghua. *Effects of fermentation on structural characteristics and in vitro physiological activities of barley beta-glucan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 231, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115685>., Registrované v: WOS*
93. [1.1] XIE, Yitong - GUO, Xin - MA, Zhiyu - GONG, Jingwei - WANG, Haisong - LV, Yanna. *Efficient Extraction and Structural Characterization of*

- Hemicellulose from Sugarcane Bagasse Pith. In POLYMERS, 2020, vol. 12, no. 3, pp. Dostupné na: <https://doi.org/10.3390/polym12030608>., Registrované v: WOS*
94. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W. Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization. In *FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS*
95. [1.1] XU, Xiaoqi - CHEN, Aijun - GE, Xinyan - LI, Sha - ZHANG, Tao - XU, Hong. Chain conformation and physicochemical properties of polysaccharide (glucuronoxylomannan) from Fruit Bodies of *Tremella fuciformis*. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 245, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116354>., Registrované v: WOS*
96. [1.1] YE, Jufeng - WANG, Xiangdong - WANG, Ke - DENG, Yudi - YANG, Yichao - ALI, Rufida - CHEN, Feilong - WU, Zijian - LIAO, Wenzhen - MAO, Limei. A novel polysaccharide isolated from *Flammulina velutipes*, characterization, macrophage immunomodulatory activities and its impact on gut microbiota in rats. In *JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439, 2020, vol. 104, no. 2, pp. 735-748. Dostupné na: <https://doi.org/10.1111/jpn.13290>., Registrované v: WOS*
97. [1.1] ZANCAJO, Victor M. R. - LINDTNER, Tom - EISELE, Max - HUBER, Andreas J. - ELBAUM, Rivka - KNEIPP, Janina. FTIR Nanospectroscopy Shows Molecular Structures of Plant Biominerals and Cell Walls. In *ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 13694-13701. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c00271>., Registrované v: WOS*
98. [1.1] ZDANIO, Malgorzata - BORON, Agnieszka Karolina - BALCEROWICZ, Daria - SCHOENAERS, Sebastjen - MARKAKIS, Marios Nektarios - MOUILLE, Gregory - PINTELON, Isabel - SUSLOV, Dmitry - GONNEAU, Martine - HOFTE, Herman - VISSENBERG, Kris. The Proline-Rich Family Protein EXTENSIN33 Is Required for Etiolated *Arabidopsis thaliana* Hypocotyl Growth. In *PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2020, vol. 61, no. 6, pp. 1191-1203. Dostupné na: <https://doi.org/10.1093/pcp/pcaa049>., Registrované v: WOS*
99. [1.1] ZHAN, Juan - HUANG, Huagang - YU, Haiying - ZHANG, Xizhou - ZHENG, Zicheng - WANG, Yongdong - LIU, Tao - LI, Tingxuan. The combined effects of Cd and Pb enhanced metal binding by root cell walls of the phytostabilizer *Athyrium wardii* (Hook.). In *ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 258, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2019.113663>., Registrované v: WOS*
100. [1.1] ZHANG, Xueqin - LUO, Wenhan - XIAO, Naiyu - CHEN, Mingjie - LIU, Chuanfu. Construction of functional composite films originating from hemicellulose reinforced with poly(vinyl alcohol) and nano-ZnO. In *CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 3, pp. 1341-1355. Dostupné na: <https://doi.org/10.1007/s10570-019-02878-z>., Registrované v: WOS*
101. [1.1] ZHANG, Yaping - CHEN, Zhenyan - XU, Weiwei - LIAO, Qilin - ZHANG, Huiyan - HAO, Shifeng - CHEN, Sihui. Pyrolysis of various phytoremediation residues for biochars: Chemical forms and environmental risk of Cd in biochar. In *BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 299, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122581>., Registrované v: WOS*
102. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO,

ADCA291

Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from *Salvia miltiorrhiza*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.10.113>., Registrované v: WOS

103. [1.1] ZHOU, Xinwei - KANG, Fuxing - QU, Xiaolei - FU, Heyun - ALVAREZ, Pedro J. J. - TAO, Shu - ZHU, Dongqiang. Role of Extracellular Polymeric Substances in Microbial Reduction of Arsenate to Arsenite by *Escherichia coli* and *Bacillus subtilis*. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2020, vol. 54, no. 10, pp. 6185-6193.

Dostupné na: <https://doi.org/10.1021/acs.est.0c01186>., Registrované v: WOS

104. [1.1] ZHOU, Yuhou - ZUO, Zhitian - XU, Furong - WANG, Yuanzhong. Origin identification of *Panax notoginseng* by multi-sensor information fusion strategy of infrared spectra combined with random forest. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2020, vol. 226, no., pp. Dostupné na:

<https://doi.org/10.1016/j.saa.2019.117619>., Registrované v: WOS

KAČURÁKOVÁ, Marta - EBRINGEROVÁ, Anna - HIRSCH, Ján - HROMÁDKOVÁ, Zdenka. Infrared study of arabinoxylans. In *Journal of the Science of Food and Agriculture*, 1994, vol. 66, no. 3, p. 423-427. Dostupné na: <https://doi.org/10.1002/jsfa.2740660323>

Citácie:

1. [1.1] BAG, Janmejaya - MUKHERJEE, Sumit - GHOSH, Sumanta Kumar - DAS, Aatrayee - MUKHERJEE, Arup - SAHOO, Jitendra Kumar - TUNG, Kshyama Subhadarsini - SAHOO, Harekrushna - MISHRA, Monalisa. Fe₃O₄ coated guar gum nanoparticles as non-genotoxic materials for biological application. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 333-345. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.144>., Registrované v: WOS

2. [1.1] COUTO, Ricardo - WONG, Emily - SEIFRIED, Bernhard - YEPEZ, Byron - MOQUIN, Paul - TEMELLI, Feral. Preparation of PGX-dried gum arabic and its loading with coQ10 by adsorptive precipitation. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2020, vol. 156, no., pp. Dostupné na: <https://doi.org/10.1016/j.supflu.2019.104662>., Registrované v: WOS

3. [1.1] DE ANDA-FLORES, Yubia - CARVAJAL-MILLAN, Elizabeth - LIZARDI-MENDOZA, Jaime - RASCON-CHU, Agustin - LUISA MARTINEZ-LOPEZ, Ana - MARQUEZ-ESCALANTE, Jorge - BROWN-BOJORQUEZ, Francisco - TANORI-CORDOVA, Judith. Covalently Cross-Linked Nanoparticles Based on Ferulated Arabinoxylans Recovered from a Distiller's Dried Grains Byproduct. In *PROCESSES*, 2020, vol. 8, no. 6, pp. Dostupné na:

<https://doi.org/10.3390/pr8060691>., Registrované v: WOS

4. [1.1] LIANG, Yuan - DUAN, Wenjing - AN, Xiaoxi - QIAO, Yingyun - TIAN, Yuanyu - ZHOU, Haifeng. Novel betaine-amino acid based natural deep eutectic solvents for enhancing the enzymatic hydrolysis of corncob. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123389>., Registrované v: WOS

5. [1.1] SARKER, Niloy C. - RAY, Priyanka - PFAU, Creighton - KALAVACHARLA, Venu - HOSSAIN, Khwaja - QUADIR, Mohiuddin. Development of Functional Nanomaterials from Wheat Bran Derived Arabinoxylan for Nucleic Acid Delivery. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 15, pp. 4367-4373.

- ADCA292 *Dostupné na: <https://doi.org/10.1021/acs.jafc.0c00029>, Registrované v: WOS*
 KALEBINA, T. - FARKAŠ, Vladimír - LAURIAVICHUTE, D.K. - GORLOVOY, P.M. - FOMINOV, G.. - BARTEK, Peter - KULAEV, I.S. Deletion of BGL2 results in an increased chitin level in the cell wall of *Saccharomyces cerevisiae*. In Antonie van Leeuwenhoek, 2003, vol. 84, p. 179-184. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1023/A:1026034123673>
 Citácie:
 1. [1.1] ANTONIO PORRAS-AGUERA, Juan - CARLOS MAURICIO, Juan - MORENO-GARCIA, Jaime - MORENO, Juan - GARCIA-MARTINEZ, Teresa. A Differential Proteomic Approach to Characterize the Cell Wall Adaptive Response to CO(2) Overpressure during Sparkling Wine-Making Process. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081188>, Registrované v: WOS
 2. [1.1] TEPARIC, Renata - LOZANCIC, Mateja - MRSA, Vladimir. Evolutionary Overview of Molecular Interactions and Enzymatic Activities in the Yeast Cell Walls. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21238996>, Registrované v: WOS
- ADCA293 KALIMUTHU, Palraj - TKÁČ, Ján - KAPPLER, Ulrike - DAVIS, Jason J. - BERNHARDT, Paul V. Highly sensitive and stable electrochemical sulfite biosensor incorporating a bacterial sulfite dehydrogenase. In Analytical Chemistry, 2010, vol.82, p. 7374-7379. (2009: 5.214 - IF, 2.343 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-2700. Dostupné na: <https://doi.org/10.1021/ac101493y>
 Citácie:
 1. [1.1] BERCHMANS, Sheela - BALAMURUGAN, T. Direct Electron Transfer in Redox Enzymes and Microorganisms. In BIOELECTROCHEMICAL INTERFACE ENGINEERING, 2020, vol., no., pp. 21-35., Registrované v: WOS
 2. [1.1] DO NASCIMENTO MARREIRO TEIXEIRA, Ana Siqueira Siqueira - SOUSA TEIXEIRA, Paulo Ronaldo - DE OLIVEIRA FARIAS, Emanuel Airton - FERRAZ E SOUSA, Brandon - DE LEITE MOURA SERVULO, Katia Bonfim - DA SILVA, Durcilene Alves - EIRAS, Carla. Babassu mesocarp (*Orbignya phalerata* Mart) nanoparticle-based biosensors for indirect sulfite detection in industrial juices. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2020, vol. 24, no. 5, pp. 1143-1155. Dostupné na: <https://doi.org/10.1007/s10008-020-04546-w>, Registrované v: WOS
- ADCA294 KARÁCSONYI, Š. - KOVÁČIK, Vladimír - ALFOLDI, Juraj - KUBAČKOVÁ, Marta. Chemical and C-13-NMR studies of an arabinogalactan from *Larix sibirica* L. In Carbohydrate Research, 1984, vol. 134, p. 265-274. ISSN 0008-6215.
 Citácie:
 1. [1.1] GRISHCHENKO, Lyudmila A. - PARSHINA, Lidiya N. - LARINA, Lyudmila I. - BELOVEZHETS, Lyudmila A. - KLIMENKOV, Igor V. - USTINOV, Alexander Yu. - TROFIMOV, Boris A. Arabinogalactan propargyl ethers: Au-catalysed hydroamination by imidazols. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116638>, Registrované v: WOS
 2. [1.1] KAZACHENKO, Aleksandr S. - TOMILIN, Felix N. - POZDNYAKOVA, Anastasia A. - VASILYEVA, Natalia Yu - MALYAR, Yuriy N. - KUZNETSOVA, Svetlana A. - AVRAMOV, Pavel. Theoretical DFT interpretation of infrared spectra of biologically active arabinogalactan sulphated derivatives. In CHEMICAL PAPERS. ISSN 2585-7290, 2020, vol. 74, no. 11, pp. 4103-4113. Dostupné na: <https://doi.org/10.1007/s11696-020-01220-3>, Registrované v: WOS

- ADCA295 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁLOVÁ, G. - MATÁKOVÁ, T. - HŘÍBALOVÁ, V. Structural features and biological activity of an acidic polysaccharide complex from Mahonia aquifolium (Pursh) Nutt. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2004, vol. 57, p.165-176. (2003: 1.597 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2004.04.016>
Citácie:
1. [1.1] SHAKHMATOV, Evgeny G. - TOUKACH, Philip - MAKAROVA, Elena N. Structural studies of the pectic polysaccharide from fruits of Punica granatum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115978>., Registrované v: WOS
- ADCA296 KARDOŠOVÁ, Alžbeta - MATULOVÁ, Mária - MALOVÍKOVÁ, Anna. (4-O-methyl- α -D-glucurono)-D-xylan from Rudbeckia fulgida, var. sullivantii (Boynton et Beadle. In Carbohydrate Research, 1998, vol.308, p. 99-105. (1997: 1.417 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(98\)00072-X](https://doi.org/10.1016/S0008-6215(98)00072-X)
Citácie:
1. [1.1] CAPEK, Peter - SUTOVSKA, Martina - BARBORIKOVA, Jana - KAZIMIEROVA, Ivana - FRANOVA, Sona - KOPACOVA, Maria. Structural characterization and anti-asthmatic effect of alpha-L-arabino (4-O-methyl-alpha-D-glucurono)-beta-D-xylan from the roots of Rudbeckia fulgida. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 842-848. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.246>., Registrované v: WOS
2. [1.1] PEREIRA CHAVES, Pedro Felipe - HOCAYEN, Palloma de Almeida S. - DALLAZEN, Jorge Luiz - DE PAULA WERNER, Maria Fernanda - IACOMINI, Marcello - ANDREATINI, Roberto - CORDEIRO, Lucimara M. C. Chamomile tea: Source of a glucuronoxylan with antinociceptive, sedative and anxiolytic-like effects. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 1675-1682. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.039>., Registrované v: WOS
3. [1.1] SHIVUDU, Godhulayyagari - CHANDRARAJ, Krishnan - SELVAM, Parasuraman. Production of xylooligosaccharides from xylan catalyzed by endo-1,4-beta-D-xylanase-immobilized nanoscale carbon, silica and zirconia matrices. In MOLECULAR CATALYSIS. ISSN 2468-8231, 2020, vol. 484, no., pp. Dostupné na: <https://doi.org/10.1016/j.mcat.2019.110745>., Registrované v: WOS
- ADCA297 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁLOVÁ, G. - FRANOVÁ, S. - HŘÍBALOVÁ, V. A biologically active fructan from the roots of Arctium lappa L., var. Herkules. In International Journal of Biological Macromolecules, 2003, vol. 33., p. 135-140. ISSN 0141-8130. Dostupné na: [https://doi.org/10.1016/S0141-8130\(03\)00079-5](https://doi.org/10.1016/S0141-8130(03)00079-5)
Citácie:
1. [1.1] MENG, Yan - XU, Yujie - CHANG, Cong - QIU, Zhenpeng - HU, Junjie - WU, Yong - ZHANG, Baohui - ZHENG, Guohua. Extraction, characterization and anti-inflammatory activities of an inulin-type fructan from Codonopsis pilosula. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1677-1686. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.117>., Registrované v: WOS
2. [1.1] WATANABE, Aya - SASAKI, Hiroyuki - MIYAKAWA, Hiroki -

- NAKAYAMA, Yuki - LYU, Yijin - SHIBATA, Shigenobu. *Effect of Dose and Timing of Burdock (Arctium lappa) Root Intake on Intestinal Microbiota of Mice*. In *MICROORGANISMS*, 2020, vol. 8, no. 2, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8020220>., Registrované v: WOS
3. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. *Pectins as a universal medicine*. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS
4. [1.1] ZHANG, Xin - ZHANG, Nianfeng - KAN, Juan - SUN, Rui - TANG, Sixue - WANG, Zhihao - CHEN, Mengfei - LIU, Jun - JIN, Changhai. *Anti-inflammatory activity of alkali-soluble polysaccharides from Arctium lappa L. and its effect on gut microbiota of mice with inflammation*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 773-787. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.111>., Registrované v: WOS
5. [1.1] ZHANG, Xue - HU, Pei - ZHANG, Xiaorui - LI, Xiaojun. *Chemical structure elucidation of an inulin-type fructan isolated from Lobelia chinensis lour with anti-obesity activity on diet-induced mice*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116357>., Registrované v: WOS
- ADCA298 KARELIN, A.A. - TSVETKOV, Y.E. - PAULOVÍČOVÁ, Lucia - BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - NIFANTIEV, N.E. *Synthesis of 3,6-branched oligomannoside fragments of the mannan from Candida albicans cell wall corresponding to the antigenic factor 4*. In *Carbohydrate Research*, 2010, vol. 345, p. 1283-1290. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] KASHIWAGI, Gustavo A. *Intrinsic Issues in the Assembly of 1,2-Linked Oligosaccharides*. In *ASIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 2193-5807, 2020, vol. 9, no. 5, pp. 684-697. Dostupné na: <https://doi.org/10.1002/ajoc.202000107>., Registrované v: WOS
- ADCA299 KARELIN, Alexander A - TSVETKOV, Yury E - PAULOVÍČOVÁ, Lucia - BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - NIFANTIEV, Nikolay E. *Synthesis of a heptasaccharide fragment of the mannan from Candida guilliermondii cell wall and its conjugate with BSA*. Lucia Paulovičová, Slavomír Bystrický, Ema Paulovičová, Nikolay E Nifantiev. In *Carbohydrate Research*, 2009, vol.344, pp.29-35. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2008.09.016>
- Citácie:
1. [1.1] MARTIN, Harlei - SOMERS, Tara - DWYER, Mathew - ROBSON, Ryan - PFEFFER, Frederick M. - BJORNSSON, Ragnar - KRAMER, Tobias - KAVANAGH, Kevin - VELASCO-TORRIJOS, Trinidad. *Scaffold diversity for enhanced activity of glycosylated inhibitors of fungal adhesion*. In *RSC MEDICINAL CHEMISTRY*, 2020, vol. 11, no. 12, pp. Dostupné na: <https://doi.org/10.1039/d0md00224k>., Registrované v: WOS
2. [1.1] PALMA, Angelina S. - CHAI, Wengang. *Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology*. In *SYNTHETIC GLYCOMES*. ISSN 2055-1975, 2019, vol. 11, no., pp. 421-446., Registrované v: WOS
- ADCA300 KASAK, Peter** - DANKO, Martin - ZAVAHIR, Sifani - MRLÍK, Miroslav - XIONG, Yuan - YOUSAF, Ammar Bin - LAI, Wing-Fu - KRUPA, Igor - TKÁČ,

Ján - ROGACH, Andrey L.**. Identification of molecular fluorophore as a component of carbon dots able to induce gelation in a fluorescent multivalent-metal-ion-free alginate hydrogel. In Scientific Reports, 2019, vol. 9, art.no. 15080, [11] p. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-019-51512-2>

Citácie:

1. [1.1] LANGER, M. - PALONCYOVA, M. - MEDVED', M. - OTYEPKA, M. *Molecular Fluorophores Self-Organize into C-Dot Seeds and Incorporate into C-Dot Structures. In JOURNAL OF PHYSICAL CHEMISTRY LETTERS. ISSN 1948-7185, OCT 1 2020, vol. 11, no. 19, p. 8252-8258., Registrované v: WOS*
2. [1.1] SU, W.W. - WANG, R. - QIAN, C. - LI, X.T. - TONG, Q. - JIAO, T.F. *Research Progress Review of Preparation and Applications of Fluorescent Hydrogels. In JOURNAL OF CHEMISTRY. ISSN 2090-9063, NOV 29 2020, vol. 2020., Registrované v: WOS*

ADCA301 KASSAI, Zoltán - BAUEROVÁ, Katarína - KOPRDA, Vasil' - ŠANDULA, Jozef - HARANGOZÓ, Margita. Penetration of radionuclides across the skin: glucans as possible inhibitors of metals permeation. In Journal of Radioanalytical and Nuclear Chemistry-Articles, 2001, vol. 250, no. 1, p. 189-191. (2000: 0.488 - IF). ISSN 0236-5731. Dostupné na: <https://doi.org/10.1023/A:1013272005838>

Citácie:

1. [1.1] YUAN, H.J. - LAN, P. - HE, Y. - LI, C.L. - MA, X. *Effect of the Modifications on the Physicochemical and Biological Properties of beta-Glucan-A Critical Review. In MOLECULES. eISSN 1420-3049, 2020, vol. 25, no. 1, art. no. 57., Registrované v: WOS*

ADCA302 KATAPODIS, P. - VRŠANSKÁ, Mária - KEKOS, D. - NERINCKX, W. - BIELY, Peter - CLAEYSENS, M. - MACRIS, B.J. - CHRISTAKOPOULOS, P. Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of Sporotrichum thermophile. In Carbohydrate Research, 2003, vol. 338, p. 1881-1890. (2002: 1.631 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(03\)00291-X](https://doi.org/10.1016/S0008-6215(03)00291-X)

Citácie:

1. [1.1] DAHIYA, Seema - KUMAR, Anil - SINGH, Bijender. *Enhanced endoxylanase production by Myceliophthora thermophila using rice straw and its synergism with phytase in improving nutrition. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2020, vol. 94, no., pp. 235-242. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.04.032>., Registrované v: WOS*

ADCA303 KATRLÍK, Jaroslav - MASTIHUBA, Vladimír - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana - ŠTEFUCA, V. - GEMEINER, Peter. Amperometric biosensors based on two different enzyme systems and their use for glycerol determination in samples from biotechnological fermentation process. In Analytica Chimica Acta, 2006, vol. 566, p. 11-18. (2005: 2.760 - IF, Q1 - JCR, 1.285 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2006.02.063>

Citácie:

1. [1.1] DOS SANTOS CASTRO ASSIS, Kelly Leite - ARCHANJO, Bráulio S. - ACHETE, Carlos Alberto - D'ELIA, Eliane. *A New Sensor Based on Reduced Graphene Oxide/Au Nanoparticles for Glycerol Detection. In MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS. ISSN 1516-1439, 2020, vol. 23, no. 2, pp. Dostupné na: <https://doi.org/10.1590/1980-5373-MR-2019-0513>., Registrované v: WOS*
2. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. *Review of Biosensors in Industrial Process Control. In PROCEEDINGS OF THE*

INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103, Registrované v: WOS

- ADCA304 KATRLÍK, Jaroslav - ŠVITEL, Juraj - GEMEINER, Peter - KOŽÁR, Tibor - TKÁČ, Ján. Glycan and lectin microarrays for glycomics and medicinal applications. In Medicinal Research Reviews, 2010, vol. 30, no. 2, p. 394-418. (2009: 8.656 - IF, 3.062 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0198-6325. Dostupné na: <https://doi.org/10.1002/med.20195>

Citácie:

1. [1.1] *GYURJYAN, Qristine G. - MIKAELIAN, Mariam V. - POGHOSYAN, Gayane G. - HOVHANNISYAN, Varduhi A. - GASPARYAN, Vardan K. Detection of Saccharomyces cerevisiae by silver nanoparticles sensitized with various lectins. In ANALYTICAL METHODS. ISSN 1759-9660, 2020, vol. 12, no. 27, pp. 3508-3512. Dostupné na: <https://doi.org/10.1039/d0ay00614a>, Registrované v: WOS*

- ADCA305 KÉRY, V. - KREPINSKY, J.F. - WARREN, Ch.D. - CAPEK, Peter - STAHL, P.D. Ligand Recognition by Purified Human Mannose Receptor. In Archives of Biochemistry and Biophysics, 1992, vol. 298, no. 1, p. 49-55. Dostupné na: [https://doi.org/10.1016/0003-9861\(92\)90092-B](https://doi.org/10.1016/0003-9861(92)90092-B)

Citácie:

1. [1.1] *LUBOW, Jay - COLLINS, Kathleen L. Vpr Is a VIP: HIV Vpr and Infected Macrophages Promote Viral Pathogenesis. In VIRUSES-BASEL, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/v12080809>, Registrované v: WOS*

- ADCA306 KÉRY, V. - KOGAN, Grigorij - ZAJACOVÁ, K. - SLÁMOVÁ, K. - MASLER, Ladislav - ALFOLDI, Juraj. Hydrolysis of yeast cell-wall glucan by extracellular (1-3)- β -glucanases from Aspergillus niger. In Enzyme and Microbial Technology, 1991, vol. 13, p. 87-90. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/0141-0229\(91\)90194-F](https://doi.org/10.1016/0141-0229(91)90194-F)

Citácie:

1. [1.1] *KARUNASINGHE, Thamodini G. - MAHARACHCHIKUMBURA, S. S. N. - VELAZHAHAN, Rethinasamy - AL-SADI, Abdullah M. Antagonistic Activity of Endophytic and Rhizosphere Fungi Isolated From Sea Purslane (Sesuvium portulacastrum) Against Pythium Damping off of Cucumber. In PLANT DISEASE. ISSN 0191-2917, 2020, vol. 104, no. 8, pp. 2158-2167. Dostupné na: <https://doi.org/10.1094/PDIS-01-20-0003-RE>, Registrované v: WOS*

2. [1.1] *YUAN, Hongjie - LAN, Ping - HE, Yan - LI, Chengliang - MA, Xia. Effect of the Modifications on the Physicochemical and Biological Properties of beta-Glucan-A Critical Review. In MOLECULES, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010057>, Registrované v: WOS*

- ADCA307 KLAUDINY, Jaroslav - ALBERT, Š. - BACHANOVÁ, K. - KOPERNICKÝ, J. - ŠIMÚTH, Jozef. Two structurally different defensin genes, one of them encoding a novel defensin isoform, are expressed in honeybee Apis mellifera. In Insect Biochemistry and Molecular Biology, 2005, vol. 35, p. 11-22. (2005 - Current Contents). ISSN 0965-1748. Dostupné na: <https://doi.org/10.1016/j.ibmb.2004.09.007>

Citácie:

1. [1.1] *BUI THI THUY DUONG - NGUYEN THI KIM LIEN - HA THI THU - NGUYEN THI HOA - PHAM THI LANH - YUN, Bo-Ram - YOO, Mi-Sun - CHO, Yun Sang - DONG VAN QUYEN. Investigation of the gut microbiome of Apis cerana honeybees from Vietnam. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2020, vol. 42, no. 11, pp. 2309-2317. Dostupné na:*

- <https://doi.org/10.1007/s10529-020-02948-4>, Registrované v: WOS
2. [1.1] GASHOUT, Hanan A. - GUZMAN-NOVOA, Ernesto - GOODWIN, Paul H. - CORREA-BENITEZ, Adriana. *Impact of sublethal exposure to synthetic and natural acaricides on honey bee (Apis mellifera) memory and expression of genes related to memory*. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2020, vol. 121, no., pp. Dostupné na: <https://doi.org/10.1016/j.jinsphys.2020.104014>, Registrované v: WOS
- ADCA308 KLIKA, K.D. - VALTAMO, P. - JANOVEC, L. - SUCHÁR, G. - KRISTIAN, P. - IMRICH, J. - KIVELA, H. - ALFOLDI, Juraj - PIHLAJA, K. Regioselective syntheses, structural characterization, and electron ionization mass spectrometric behavior of regioisomeric 2,3- disubstituted 2-imino-1,3-thiazolidin-4-ones. In Rapid Communications in Mass Spectrometry, 2004, vol. 18, p. 87-95. ISSN 0951-4198. Dostupné na: <https://doi.org/10.1002/rcm.1290>
- Citácie:
1. [1.1] HASSAN, Alaa A. - ALY, Ashraf A. - RAMADAN, Mohamed - MOHAMED, Nasr K. - TAWFEEK, Hendawy N. - BRAESE, Stefan - NIEGER, Martin. *Stereoselective synthesis of 2-(2,4-dinitrophenyl)hydrazono- and (2-tosylhydrazono)-4-oxo-thiazolidine derivatives and screening of their anticancer activity*. In MONATSHFTE FUR CHEMIE. ISSN 0026-9247, 2020, vol. 151, no. 9, pp. 1453-1466. Dostupné na: <https://doi.org/10.1007/s00706-020-02671-w>, Registrované v: WOS
- ADCA309 KLONOWSKA, I. - JANÁK, Marian - MAJKA, Jarosław - PETRÍK, Igor - FROITZHEIM, Nikolaus - GEE, David G. - SASINKOVÁ, Vlasta. Microdiamond on Åreskutan confirms regional UHP metamorphism in the Seve Nappe Complex of the Scandinavian Caledonides. In Journal of Metamorphic Geology, 2017, vol. 35, no. 5, p. 541-564. (2016: 3.594 - IF, Q1 - JCR, 2.419 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0263-4929. Dostupné na: <https://doi.org/10.1111/jmg.12244>
- Citácie:
1. [1.1] DRAKE, Henrik - ROBERTS, Nick M. W. - WHITEHOUSE, Martin J. *Geochronology and Stable Isotope Analysis of Fracture-Fill and Karst Mineralization Reveal Sub-Surface Paleo-Fluid Flow and Microbial Activity of the COSC-1 Borehole, Scandinavian Caledonides*. In GEOSCIENCES, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/geosciences10020056>, Registrované v: WOS
2. [1.1] FARYAD, S. W. - CUTHBERT, S. J. *High-temperature overprint in (U)HPM rocks exhumed from subduction zones; A product of isothermal decompression or a consequence of slab break-off (slab rollback)?* In EARTH-SCIENCE REVIEWS. ISSN 0012-8252, 2020, vol. 202, no., pp. Dostupné na: <https://doi.org/10.1016/j.earscirev.2020.103108>, Registrované v: WOS
3. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. - DARLING, James - ANDERSON, Mark W. *Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides*. In TECTONICS. ISSN 0278-7407, 2020, vol. 39, no. 9, pp. Dostupné na: <https://doi.org/10.1029/2020TC006267>, Registrované v: WOS
4. [1.1] KAESTNER, Felix - PIERDOMINICI, Simona - ELGER, Judith - ZAPPONE, Alba - KUECK, Jochem - BERNDT, Christian. *Correlation of core and downhole seismic velocities in high-pressure metamorphic rocks: a case study for the COSC-1 borehole, Sweden*. In SOLID EARTH. ISSN 1869-9510, 2020, vol. 11, no. 2, pp. 607-626. Dostupné na: <https://doi.org/10.5194/se-11-607-2020>, Registrované v: WOS
5. [1.1] LI, Botao - MASSONNE, Hans-Joachim - ZHANG, Junfeng. *Evolution of*

a gneiss in the Seve nappe complex of central Sweden Hints at an early Caledonian, medium-pressure metamorphism. In LITHOS. ISSN 0024-4937, 2020, vol. 376, no., pp. Dostupné na: <https://doi.org/10.1016/j.lithos.2020.105746>., Registrované v: WOS
6. [1.1] SCHOENIG, Jan - VON EYNATTEN, Hilmar - MEINHOLD, Guido - LUENSDORF, N. Keno - WILLNER, Arne P. - SCHULZ, Bernhard. Deep subduction of felsic rocks hosting UHP lenses in the central Saxonian Erzgebirge: Implications for UHP terrane exhumation. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 87, no., pp. 320-329. Dostupné na: <https://doi.org/10.1016/j.gr.2020.06.020>., Registrované v: WOS

ADCA310 KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - KASÁK, Peter - TKÁČ, Ján. Nanoscale-controlled architecture for the development of ultrasensitive lectin biosensors applicable in glycomics. In Analytical Methods, 2014, vol. 6, p. 4922-4931. (2013: 1.938 - IF, Q2 - JCR, 0.614 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c4ay00495g>

Citácie:

1. [1.1] ECHEVERRI, D. - GARG, M. - SILVA, D.V. - OROZCO, J. Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. In TALANTA. ISSN 0039-9140, SEP 2020, vol. 217., Registrované v: WOS
2. [1.1] YAGHOUBI, M. - RAHIMI, F. - NEGAHDARI, B. - REZAYAN, A.H. - SHAFIEKHANI, A. A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 29 2020, vol. 10, no. 1., Registrované v: WOS

ADCA311 KOGAN, Grigorij - MATULOVÁ, Mária - MICHALKOVÁ, E. Extracellular polysaccharides of *Penicillium vermiculatum*. In Zeitschrift fur Naturforschung C, 2002, vol. 57c, p. 452-458.

Citácie:

1. [1.1] JAROSZUK-SCISEL, Jolanta - NOWAK, Artur - KOMANIECKA, Iwona - CHOMA, Adam - JAROSZ-WILKOLAZKA, Anna - OSINSKA-JAROSZUK, Monika - TYSKIEWICZ, Renata - WIATER, Adrian - ROGALSKI, Jerzy. Differences in Production, Composition, and Antioxidant Activities of Exopolymeric Substances (EPS) Obtained from Cultures of Endophytic *Fusarium culmorum* Strains with Different Effects on Cereals. In MOLECULES, 2020, vol. 25, no. 3, pp. Dostupné na: <https://doi.org/10.3390/molecules25030616>., Registrované v: WOS

ADCA312 KOGAN, Grigorij - ŠOLTÉS, Ladislav - STERN, Robert - GEMEINER, Peter. Hyaluronic acid: a natural biopolymer with a broad range of biomedical and industrial applications. In Biotechnology Letters, 2007, vol. 29, no. 1, p. 17-25. (2006: 1.134 - IF, Q3 - JCR, 0.546 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-006-9219-z>

Citácie:

1. [1.1] ABDALLAH, M.M. - FERNANDEZ, N. - MATIAS, A.A. - BRONZE, M.D. Hyaluronic acid and Chondroitin sulfate from marine and terrestrial sources: Extraction and purification methods. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 243, art. no. 116441., Registrované v: WOS
2. [1.1] AJDNIK, U. - FINSGAR, M. - ZEMLJIC, L.F. Characterization of chitosan-lysine surfactant bioactive coating on silicone substrate. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 232, art. no. 115817., Registrované v: WOS
3. [1.1] AKAT, Esra. Characterization of testicular histology and

- spermatogenesis in the Levantine frog, Pelophylax bedriagae (Amphibia: Anura: Ranidae). In ANNALES DE LIMNOLOGIE-INTERNATIONAL JOURNAL OF LIMNOLOGY. ISSN 0003-4088, AUG 3 2020, vol. 56., Registrované v: WOS*
4. [1.1] AKBARI, V. - REZAZADEH, M. - EBRAHIMI, Z. Comparison the effects of chitosan and hyaluronic acid-based thermally sensitive hydrogels containing rosvastatin on human osteoblast-like MG-63 cells. In RESEARCH IN PHARMACEUTICAL SCIENCES. ISSN 1735-5362, 2020, vol. 15, no. 1, p. 97-106., Registrované v: WOS
5. [1.1] AL-KHATEEB, R. - OLSZEWSKA-CZYŻ, I. Biological molecules in dental applications: hyaluronic acid as a companion biomaterial for diverse dental applications. In HELIYON. ISSN 2405-8440, 2020, vol. 6, no. 4, art. no. e03722., Registrované v: WOS
6. [1.1] ALEKSEEVA, L.I. - KASHEVAROVA, N.G. - TASKINA, E.A. - SHARAPOVA, E.P. - ANIKIN, S.G. - STREBKOVA, E.A. - RASKINA, T.A. - ZONOVA, E.V. - OTTEVA, E.N. - RODIONOVA, S.S. - TORGASHIN, A.N. - BUKLEMISHEV, U.V. - SHMIDT, E.I. - SHESTERNYA, P.A. - NAUMOV, A.V. - ZAGORODNIY, N.V. - LILA, A.M. The efficacy and safety of intra-articular application of a combination of sodium hyaluronate and chondroitin sulfate for osteoarthritis of the knee: a multicenter prospective study. In TERAPEVTICHESKII ARKHIV. ISSN 0040-3660, 2020, vol. 92, no. 5, p. 46-54., Registrované v: WOS
7. [1.1] BOMBIN, A.D.J. - DUNNE, N.J. - MCCARTHY, H.O. Electrospinning of natural polymers for the production of nanofibres for wound healing applications. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 114., Registrované v: WOS
8. [1.1] CAVALCANTI, A.D.D. - DE MELO, A.G. - FERREIRA, B.A.M. - SANTANA, M.H.A. Performance of the main downstream operations on hyaluronic acid purification. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, DEC 2020, vol. 99, p. 160-170., Registrované v: WOS
9. [1.1] CHANG, Wan-Hsin - LIU, Pei-Yi - JIANG, Yuan-Ting - HSU, Yuan-Hao Howard. A Sensitive Chromatographic Method for Hyaluronate Quantification Applied to Analyze the Desorption Behavior on Contact Lenses. In CURRENT PHARMACEUTICAL ANALYSIS. ISSN 1573-4129, 2020, vol. 16, no. 6, p. 782-791., Registrované v: WOS
10. [1.1] DEVRIENDT, Nausikaa - SERRANO, Goncalo - PAEPE, Dominique - DE ROOSTER, Hilde. Liver function tests in dogs with congenital portosystemic shunts and their potential to determine persistent shunting after surgical attenuation. In VETERINARY JOURNAL. ISSN 1090-0233, JUL 2020, vol. 261., Registrované v: WOS
11. [1.1] GALLAGHER, L.B. - DOLAN, E.B. - O'SULLIVAN, J. - LEVEY, R. - CAVANAGH, B.L. - KOVAROVA, L. - PRAVDA, M. - VELEBNY, V. - FARRELL, T. - O'BRIEN, F.J. - DUFFY, G.P. Pre-culture of mesenchymal stem cells within RGD-modified hyaluronic acid hydrogel improves their resilience to ischaemic conditions. In ACTA BIOMATERIALIA. ISSN 1742-7061, 2020, vol. 107, p. 78-90., Registrované v: WOS
12. [1.1] GROSSUTTI, M. - DUTCHER, J.R. Hydration Water Structure, Hydration Forces, and Mechanical Properties of Polysaccharide Films. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 12, p. 4871-4877., Registrované v: WOS
13. [1.1] HAN, Y.J. - OUYANG, J. - LI, Y.Z. - WANG, F.L. - JIANG, J.H. Engineering H₂O₂ Self-Supplying Nanotheranostic Platform for Targeted and

- Imaging-Guided Chemodynamic Therapy. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 1, p. 288-297., Registrované v: WOS*
14. [1.1] HUANG, H. - LIANG, Q.X. - WANG, Y. - CHEN, J. - KANG, Z. High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant *Pichia pastoris*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 4, p. 1621-1632., Registrované v: WOS
15. [1.1] HUYNH, A. - PRIEFER, R. Hyaluronic acid applications in ophthalmology, rheumatology, and dermatology. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 489, art. no. 107950., Registrované v: WOS
16. [1.1] IBRAHIM, M.S. - EL-WASSEFY, N.A. - FARAHAT, D.S. Injectable Gels for Dental and Craniofacial Applications. In *APPLICATIONS OF BIOMEDICAL ENGINEERING IN DENTISTRY*. ISBN:978-3-030-21583-5; 978-3-030-21582-8, 2020, p. 359-375., Registrované v: WOS
17. [1.1] JAYMAND, M. Chemically Modified Natural Polymer-Based Theranostic Nanomedicines: Are They the Golden Gate toward a de Novo Clinical Approach against Cancer?. In *ACS BIOMATERIALS SCIENCE & ENGINEERING*. ISSN 2373-9878, 2020, vol. 6, no. 1, p. 134-166., Registrované v: WOS
18. [1.1] KALKANDELEN, C. - SU, S.N. - SAATCIOGLU, E. - GUNDUZ, O. HYALURONIC ACID PRODUCTION AND ANALYSIS FROM ROOSTER COMB. In *2020 MEDICAL TECHNOLOGIES CONGRESS (TIPTEKNO)*. 2020., Registrované v: WOS
19. [1.1] KHALEGHI, M. - AHMADI, E. - SHAHRAKI, M.K. - ALIAKBARI, F. - MORSHEDI, D. Temperature-dependent formulation of a hydrogel based on Hyaluronic acid-polydimethylsiloxane for biomedical applications. In *HELIYON*. ISSN 2405-8440, 2020, vol. 6, no. 3, art. no. e03494., Registrované v: WOS
20. [1.1] KIM, J.S. - IN, C.H. - PARK, N.J. - KIM, B.J. - YOON, H.S. Comparative study of rheological properties and preclinical data of porous polycaprolactone microsphere dermal fillers. In *JOURNAL OF COSMETIC DERMATOLOGY*. ISSN 1473-2130, 2020, vol. 19, no. 3, p. 596-604., Registrované v: WOS
21. [1.1] KO, Eun Seok - KIM, Choonggu - CHOI, Youngtae - LEE, Kuen Yong. 3D printing of self-healing ferrogel prepared from glycol chitosan, oxidized hyaluronate, and iron oxide nanoparticles. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, OCT 1 2020, vol. 245., Registrované v: WOS
22. [1.1] KUPIKOWSKA-STOBBA, B. - LEWINSKA, D. Polymer microcapsules and microbeads as cell carriers for in vivo biomedical applications. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2020, vol. 8, no. 6, p. 1536-1574., Registrované v: WOS
23. [1.1] LEE, S. - LEE, Y. - KIM, E.M. - NAM, K.W. - CHOI, I. Aqueous-Phase Synthesis of Hyaluronic Acid-Based Hydrogel Nanoparticles for Molecular Storage and Enzymatic Release. In *ACS APPLIED POLYMER MATERIALS*. ISSN 2637-6105, 2020, vol. 2, no. 2, p. 342-350., Registrované v: WOS
24. [1.1] LI, J.H. - WU, C.T. - CHU, P.K. - GELINSKY, M. 3D printing of hydrogels: Rational design strategies and emerging biomedical applications. In *MATERIALS SCIENCE & ENGINEERING R-REPORTS*. ISSN 0927-796X, 2020, vol. 140, art. no. UNSP 100543., Registrované v: WOS
25. [1.1] MATHA, K. - LOLLO, G. - TAURINO, G. - RESPAUD, R. - MARIGO, I. - SHARIATI, M. - BUSSOLATI, O. - VERMEULEN, A. - REMAUT, K. - BENOIT,

- J.P. Bioinspired hyaluronic acid and polyarginine nanoparticles for DACHPt delivery. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2020, vol. 150, p. 1-13., Registrované v: WOS*
26. [1.1] MIRANDA, C.S. - RIBEIRO, A.R.M. - HOMEM, N.C. - FELGUEIRAS, H.P. *Spun Biotextiles in Tissue Engineering and Biomolecules Delivery Systems. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 4, art. no. 174., Registrované v: WOS*
27. [1.1] NASCIMENTO, L.G.L. - CASANOVA, F. - SILVA, N.F.N. - TEIXEIRA, A.V.N.D. - DE CARVALHO, A.F. *Casein-based hydrogels: A mini-review. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 314, art. no. 126063., Registrované v: WOS*
28. [1.1] NGO, T.B. - SPEARMAN, B.S. - HLAVAC, N. - SCHMIDT, C.E. *Three-Dimensional Bioprinted Hyaluronic Acid Hydrogel Test Beds for Assessing Neural Cell Responses to Competitive Growth Stimuli. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2020, vol. 6, no. 12, p. 6819-6830., Registrované v: WOS*
29. [1.1] OU, Juanfeng - LIU, Kun - JIANG, Jiamiao - WILSON, Daniela A. - LIU, Lu - WANG, Fei - WANG, Shuanghu - TU, Yingfeng - PENG, Fei. *Micro-/Nanomotors toward Biomedical Applications: The Recent Progress in Biocompatibility. In SMALL. ISSN 1613-6810, JUL 2020, vol. 16, no. 27, SI., Registrované v: WOS*
30. [1.1] PALACIOS, Santiago. *Non-hormonal approaches for the treatment of vulvovaginal atrophy: the choice between hyaluronic acid and glycerin. In GYNECOLOGICAL ENDOCRINOLOGY. ISSN 0951-3590, OCT 2 2020, vol. 36, no. 10, p. 847-848., Registrované v: WOS*
31. [1.1] PAN, N.C. - BIZ, G. - BALDO, C. - CELLIGOI, M.A.P.C. *Factorial design in fermentation medium development for hyaluronic acid production by Streptococcus zooepidemicus. In ACTA SCIENTIARUM-TECHNOLOGY. ISSN 1806-2563, 2020, vol. 42, art. no. UNSP e42729., Registrované v: WOS*
32. [1.1] PAN, Nicole Caldas - BERSANETI, Gabrielly Terassi - MALI, Suzana - PEDRINE COLABONE CELLIGOI, Maria Antonia. *Films Based on Blends of Polyvinyl Alcohol and Microbial Hyaluronic Acid. In BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. ISSN 1516-8913, 2020, vol. 63., Registrované v: WOS*
33. [1.1] PENG, H.C. - ZHANG, C.X. - WANG, M.Y. - ZHANG, W. - XU, B. - YAN, X.X. - XIN, H.B. - WANG, X.L. *Black phosphorus modified soluble microneedle patch for painless, effective and accurate body slimming. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2020, vol. 19, art. no. UNSP 100577., Registrované v: WOS*
34. [1.1] PUPPI, D. - CHIELLINI, F. *Biodegradable Polymers for Biomedical Additive Manufacturing. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2020, vol. 20., Registrované v: WOS*
35. [1.1] SAMADIAN, Hadi - MALEKI, Hassan - ALLAHYARI, Zahra - JAYMAND, Mehdi. *Natural polymers-based light-induced hydrogels: Promising biomaterials for biomedical applications. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, OCT 1 2020, vol. 420., Registrované v: WOS*
36. [1.1] SHAHI, M. - MOHAMMADNEJAD, D. - KARIMIPOUR, M. - RASTA, S.H. - RAHBARGHAZI, R. - ABEDELAHI, A. *Hyaluronic Acid and Regenerative Medicine: New Insights into the Stroke Therapy. In CURRENT MOLECULAR MEDICINE. ISSN 1566-5240, 2020, vol. 20, no. 9, p. 675-691., Registrované v: WOS*

37. [1.1] SNETKOV, Petr - ZAKHAROVA, Kseniia - MOROZKINA, Svetlana - OLEKHNOVICH, Roman - USPENSKAYA, Mayya. *Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer*. In *POLYMERS*. AUG 2020, vol. 12, no. 8., Registrované v: WOS
38. [1.1] SPEARMAN, B.S. - AGRAWAL, N.K. - RUBIANO, A. - SIMMONS, C.S. - MOBINI, S. - SCHMIDT, C.E. *Tunable methacrylated hyaluronic acid-based hydrogels as scaffolds for soft tissue engineering applications*. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*. ISSN 1549-3296, 2020, vol. 108, no. 2, p. 279-291., Registrované v: WOS
39. [1.1] TAM, N.W. - CHUNG, D. - BALDWIN, S.J. - SIMMONS, J.R. - XU, L.L. - RAINEY, J.K. - DELLAIRE, G. - FRAMPTON, J.P. *Material properties of disulfide-crosslinked hyaluronic acid hydrogels influence prostate cancer cell growth and metabolism*. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2020, vol. 8, no. 42, p. 9718-9733., Registrované v: WOS
40. [1.1] TOLBA, Y.M. - OMAR, S.S. - NAGUI, D.A. - NAWWAR, M.A. *Effect of high molecular weight hyaluronic acid in treatment of osteoarthritic temporomandibular joints of rats*. In *ARCHIVES OF ORAL BIOLOGY*. ISSN 0003-9969, 2020, vol. 110 art. no. 104618., Registrované v: WOS
41. [1.1] TRUJILLO, S. - VEGA, S.L. - SONG, K.H. - SAN FELIX, A. - DALBY, M.J. - BURDICK, J.A. - SALMERON-SANCHEZ, M. *Engineered Full-Length Fibronectin-Hyaluronic Acid Hydrogels for Stem Cell Engineering*. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2020, vol. 9, no. 21., Registrované v: WOS
42. [1.1] TYAN, Yu-Chang - YANG, Ming-Hui - CHANG, Chin-Chuan - CHUNG, Tze-Wen. *Biocompatibility of Materials for Biomedical Engineering*. In *BIOMIMICKED BIOMATERIALS: ADVANCES IN TISSUE ENGINEERING AND REGENERATIVE MEDICINE*. ISSN 0065-2598, 2020, vol. 1250, p. 125-140., Registrované v: WOS
43. [1.1] VAN DAM, E.P. - GIUBERTONI, G. - BURLA, F. - KOENDERINK, G.H. - BAKKER, H.J. *Hyaluronan biopolymers release water upon pH-induced gelation*. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 16, p. 8667-8671., Registrované v: WOS
44. [1.1] VASVANI, S. - KULKARNI, P. - RAWTANI, D. *Hyaluronic acid: A review on its biology, aspects of drug delivery, route of administrations and a special emphasis on its approved marketed products and recent clinical studies*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 151, p. 1012-1029., Registrované v: WOS
45. [1.1] VECCHIES, F. - SACCO, P. - MARSICH, E. - CINELLI, G. - LOPEZ, F. - DONATI, I. *Binary Solutions of Hyaluronan and Lactose-Modified Chitosan: The Influence of Experimental Variables in Assembling Complex Coacervates*. In *POLYMERS*. eISSN: 2073-4360, 2020, vol. 12, no. 4, art. no. 897., Registrované v: WOS
46. [1.1] WANG, Jing - WANG, Jing - LIU, Jin - WANG, Xinzh - ALEEM, Abdur Raheem - SONG, Zhengxing - KIPPER, Matt J. - TANG, Jianguo. *Smart sensing of bacterial contamination on fluorescent cotton fabrics (FCF) by nontoxic Eu³⁺-induced polyelectrolyte nano-aggregates (EIPAs)*. In *DYES AND PIGMENTS*. ISSN 0143-7208, OCT 2020, vol. 181., Registrované v: WOS
47. [1.1] WHEELER, D.L. - KHOSHSOROUR, S. - FATH, M.K. - POURZARDOSHT, N. - FAZELI, F. - KHALILI, S. *Structural analyses and engineering of the pmHAS enzyme to improve its functional performance: An in silico study*. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303,

- 2020, vol. 39, no. 7, p. 354-373., Registrované v: WOS
48. [1.1] YALCINTAS, E.P. - ACKERMAN, D.S. - KORKMAZ, E. - TELMER, C.A. - JARVIK, J.W. - CAMPBELL, P.G. - BRUCHEZ, M.P. - OZDOGANLAR, O.B. Analysis of In Vitro Cytotoxicity of Carbohydrate-Based Materials Used for Dissolvable Microneedle Arrays. In PHARMACEUTICAL RESEARCH. ISSN 0724-8741, 2020, vol. 37, no. 3, art. no. 33., Registrované v: WOS
49. [1.2] ENHUI, Guo - ZITONG, Xu - YIZE, Liang - LIANG, Zhou - ZHAOXIANG, Lu - LIANG, You - YUJUN, Xia. Properties of a novel photocrosslinked fish collagen peptide-hyaluronic acid hydrogel. In Chinese Journal of Tissue Engineering Research. ISSN 20954344, 2020-10-01, 24, 28, pp. 4518-4525., Registrované v: SCOPUS
50. [1.2] KIM, Soo Yeon - CHUN, Gie Taek. Strain improvement and bioprocess optimization for enhanced production of haluronic acid(ha) in bioreactor cultures of streptococcus zooepidemicus. In Microbiology and Biotechnology Letters. ISSN 1598642X, 2020-09-01, 48, 3, pp. 338-351., Registrované v: SCOPUS
51. [1.2] KOTCHARAT, Nararat - CHAROENKANBURKANG, Penpimol - LUCKANAGUL, Jittima Amie. Grafted hyaluronic acid nanogel for the incorporation of poly(I:C) as an immunostimulatory adjuvant. In Systematic Reviews in Pharmacy. ISSN 09758453, 2020-01-01, 11, 11, pp. 247-253., Registrované v: SCOPUS
52. [1.2] MAGNO, Valentina - MEINHARDT, Andrea - WERNER, Carsten. Polymer Hydrogels to Guide Organotypic and Organoid Cultures. In Advanced Functional Materials. ISSN 1616301X, 2020-11-01, 30, 48, pp., Registrované v: SCOPUS
53. [1.2] MARTÍNEZ-CORREA, E. - OSORIO-DELGADO, M. A. - HENAO-TAMAYO, L. J. - CASTRO-HERAZO, C. I. Systemic classification of wound dressings: A review. In Revista Mexicana de Ingenieria Biomedica. ISSN 01889532, 2020-01-01, 41, 1, pp. 5-28., Registrované v: SCOPUS
54. [1.2] MCCABE-LANKFORD, Eleanor - MCCARTHY, Bryce - BERWICK, Margarita Arakelyan Peters - SALAFIAN, Kiarash - GALARZA-PAEZ, Laura - SARKAR, Santu - SLOOP, John - DONATI, George - BROWN, April J. - LEVI-POLYACHENKO, Nicole. Binding of targeted semiconducting photothermal polymer nanoparticles for intraperitoneal detection and treatment of colorectal cancer. In Nanotheranostics, 2020-01-01, 4, 3, pp. 107-118., Registrované v: SCOPUS
55. [1.2] NIE, Wei - LIU, Weiwei - LIU, Dawei - CUI, Xiaoxue - LIU, Shanhai - LI, Xu - XIAO, Guangli - WANG, Shiwei - NIU, Huanyun - LI, Ruizhi. Host response of different cross-linked hyaluronic acid composite gels and matrix metalloproteinase-9 expression. In Chinese Journal of Tissue Engineering Research. ISSN 20954344, 2020-01-01, 24, 10, pp. 1557-1562., Registrované v: SCOPUS
56. [1.2] QURESHI, Dilshad - NAYAK, Suraj Kumar - ANIS, Arfat - RAY, Sirsendu S. - KIM, Doman - HANH NGUYEN, Thi Thanh - PAL, Kunal. Introduction of biopolymers: Food and biomedical applications. In Biopolymer-Based Formulations: Biomedical and Food Applications, 2020-01-23, pp. 1-45., Registrované v: SCOPUS
57. [1.2] VERMA, Madan L. - KUMAR, Sanjeev - JESLIN, John - DUBEY, Navneet Kumar. Microbial production of biopolymers with potential biotechnological applications. In Biopolymer-Based Formulations: Biomedical and Food Applications, 2020-01-23, pp. 105-137., Registrované v: SCOPUS
58. [1.2] ZAKERI, Alireza - KHOSHSOROUR, Sepideh - KARAMI FATH, Mohsen - POURZARDOSHT, Navid - FAZELI, Faezeh - KHALILI, Saeed.

Structural analyses and engineering of the pmHAS enzyme to improve its functional performance: An in silico study. In Journal of Carbohydrate Chemistry. ISSN 07328303, 2020-09-01, 39, 7, pp. 354-373., Registrované v: SCOPUS

59. [3.2] KIM, Sooyeon - CHUN, Gie-Taek. Development of Continuous Culture Process for Economic Production of Hyaluronic Acid (HA) Biosynthesized by *Streptococcus zooepidemicus*. In *Korean Journal of Microbiology and Biotechnology. ISSN 1598-642X, DEC 2020, vol. 48, no. 4, p. 525-532., Registrované v: BIOSIS Citation Index*

ADCA313 KOGAN, Grigorij - STAŠKO, Andrej - BAUEROVÁ, Katarína - POLOVKA, Martin - ŠOLTĚS, Ladislav - BREZOVÁ, Vlasta - NAVAROVÁ, Jana - MIHALOVÁ, Danica. Antioxidant properties of yeast (1→3)-β-D-glucan studied by electron paramagnetic resonance spectroscopy and its activity in the adjuvant arthritis. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides. - Oxford : Elsevier, 2005, vol. 61, no. 1, p. 18-28. (2004: 1.710 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2005.02.010>*

Citácie:

1. [1.1] CHEN, J. - ZHANG, Y.F. - YOU, J.M. - SONG, H.Q. - ZHANG, Y.Z. - LV, Y.T. - QIAO, H.Z. - TIAN, M. - CHEN, F. - ZHANG, S.H. - GUAN, W.T. The Effects of Dietary Supplementation of *Saccharomyces cerevisiae* Fermentation Product During Late Pregnancy and Lactation on Sow Productivity, Colostrum and Milk Composition, and Antioxidant Status of Sows in a Subtropical Climate. In *FRONTIERS IN VETERINARY SCIENCE. eISSN 2297-1769, 2020, vol. 7, art. no. 71., Registrované v: WOS*

2. [1.1] DIVYA, M. - KARTHIKEYAN, S. - RAVI, C. - GOVINDARAJAN, M. - ALHARBI, N.S. - KADAIKUNNAN, S. - KHALED, J.M. - ALMANAA, T.N. - VASEEHARAN, B. Isolation of beta-glucan from *Eleusine coracana* and its antibiofilm, antidiabetic, antioxidant, and biocompatible activities. In *MICROBIAL PATHOGENESIS. ISSN 0882-4010, 2020, vol. 140, art. no. 103955., Registrované v: WOS*

3. [1.1] HOLANDA, D.M. - KIM, S.W. Efficacy of Mycotoxin Detoxifiers on Health and Growth of Newly-Weaned Pigs under Chronic Dietary Challenge of Deoxynivalenol. In *TOXINS. eISSN: 2072-6651, 2020, vol. 12, no. 5, art. no. 311., Registrované v: WOS*

4. [1.1] KAUR, R. - RIAR, C.S. Sensory, rheological and chemical characteristics during storage of set type full fat yoghurt fortified with barley beta-glucan. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2020, vol. 57, no. 1, p. 41-51., Registrované v: WOS*

5. [1.1] LIU, H.Z. - BAI, W.Q. - HE, L. - LI, X.M. - SHAH, F. - WANG, Q. Degradation mechanism of *Saccharomyces cerevisiae* beta-D-glucan by ionic liquid and dynamic high pressure microfluidization. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 241, art. no. 116123., Registrované v: WOS*

6. [1.1] RENTAS, M.F. - PEDREIRA, R.S. - PERINI, M.P. - RISOLIA, L.W. - ZAFALON, R.V.A. - ALVARENGA, I.C. - VENDRAMINI, T.H.A. - BALIEIRO, J.C.C. - PONTIERI, C.F.F. - BRUNETTO, M.A. Galactoligosaccharide and a prebiotic blend improve colonic health and immunity of adult dogs. In *PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 8., Registrované v: WOS*

ADCA314 KOHANOVÁ, Jana - MARTINKA, Michal - VACULÍK, Marek - WHITE, Filip J. - HAUSER, Marie-Theres - LUX, Alexander**. Root hair abundance impacts cadmium accumulation in *Arabidopsis thaliana* shoots. In *Annals of Botany, 2018,*

vol. 122, p. 903-914. (2017: 3.646 - IF, Q1 - JCR, 1.721 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcx220>

Citácie:

1. [1.1] CORSO, Massimiliano - DE LA TORRE, Vanesa S. Garcia. Biomolecular approaches to understanding metal tolerance and hyperaccumulation in plants. In *METALLOMICS*. ISSN 1756-5901, 2020, vol. 12, no. 6, pp. 840-859. Dostupné na: <https://doi.org/10.1039/d0mt00043d>, Registrované v: WOS

2. [1.1] HUANG, Linli - JIANG, Qining - WU, Junyu - AN, Lijun - ZHOU, Zhongjing - WONG, ChuiEng - WU, Minjie - YU, Hao - GAN, Yinbo. Zinc finger protein 5 (ZFP5) associates with ethylene signaling to regulate the phosphate and potassium deficiency-induced root hair development in *Arabidopsis*. In *PLANT MOLECULAR BIOLOGY*. ISSN 0167-4412, 2020, vol. 102, no. 1-2, pp. 143-158. Dostupné na: <https://doi.org/10.1007/s11103-019-00937-4>, Registrované v: WOS

ADCA315 KOLAROV, J. - KOLAROVA, Nadežda - NELSON, N. A 3rd ADP/ATP translocator gene in yeast. In *Journal of Biological Chemistry*, 1990, vol. 265, p. 12711-12716. ISSN 0021-9258.

Citácie:

1. [1.1] CAO, Xuan - YANG, Shan - CAO, Chunyang - ZHOU, Yongjin J. Harnessing sub-organellar metabolism for biosynthesis of isoprenoids in yeast. In *SYNTHETIC AND SYSTEMS BIOTECHNOLOGY*. ISSN 2405-805X, 2020, vol. 5, no. 3, pp. 179-186. Dostupné na: <https://doi.org/10.1016/j.synbio.2020.06.005>, Registrované v: WOS

2. [1.1] RAVISHANKAR, Apoorva - CUMMING, Jonathan R. - GALLAGHER, Jennifer E. G. Mitochondrial metabolism is central for response and resistance of *Saccharomyces cerevisiae* to exposure to a glyphosate-based herbicide. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 262, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.114359>, Registrované v: WOS

ADCA316 KOLAROVA, Nadežda - AUGUSTIN, J. Production of polysaccharide hydrolases in the genus *Rhizopus*. In *Folia microbiologica*, 2001, vol. 46, p. 223-226. (2000: 0.752 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/BF02818537>

Citácie:

1. [1.1] AOKI, Hideyuki - CHUMA, Shunsuke - IBA, Yoshinori - TASHIRO, Haruka - WATANABE, Nakamichi - OYAMA, Hiroshi. Comparison of Bioactive Components in Tempeh Produced by Three Different *Rhizopus* Starters and Immunomodulatory Effect of Tempeh on Atopic Dermatitis Mice. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2020, vol. 26, no. 5, pp. 665-672. Dostupné na: <https://doi.org/10.3136/fstr.26.665>, Registrované v: WOS

ADCA317 KOLL, P. - SAAK, W. - POHL, S. - STEINER, Bohumil - KOŮŠ, Miroslav. Preparation and crystal and molecular structure of 6-O-((2S)-2,3-epoxypropyl)-1,2:3,4-di-O-isopropylidene- α -D-galactopyranose. Pyranoid ring conformation in 1,2:3,4-di-O-isopropylidene-galactopyranose and related systems. In *Carbohydrate Research*, 1994, vol. 265, p. 237-248. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00232-0](https://doi.org/10.1016/0008-6215(94)00232-0)

Citácie:

1. [1.1] AHMED, Ahmed M. A. - MOHAMMED, Adnan - READ, Roger W. Towards Functional Fluorous Surfactants. Synthesis and Spectroscopic Features of Systematically Modified Sugar-Substituted Fluorous 1,2,3-Triazoles. In *JOURNAL OF FLUORINE CHEMISTRY*. ISSN 0022-1139, 2020, vol. 234, no.,

- pp. Dostupné na: <https://doi.org/10.1016/j.jfluchem.2020.109519>., Registrované v: WOS
2. [1.1] MOHAMMED, Adnan - AHMED, Ahmed M. A. - BHADBHADE, Mohan M. - HO, Junming - READ, Roger W. Sugar-substituted fluororous 1,2,3-triazoles: Helical twists in fluoroalkyl chains and their molecular association in the solid state and correlations with physicochemical properties. In JOURNAL OF FLUORINE CHEMISTRY. ISSN 0022-1139, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfluchem.2020.109536>., Registrované v: WOS
- ADCA318 KOLLÁR, R. - ŠTURDÍK, E. - FARKAŠ, Vladimír. Induction and acceleration of yeast lysis by addition of fresh yeast autolysate. In Biotechnology Letters, 1991, vol. 13, p. 543-546. ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/BF01033406>
Citácie:
1. [1.1] TAKALLOO, Zeinab - NIKKHAH, Mohsen - NEMATİ, Robabeh - JALILIAN, Nezam - SAJEDI, Reza H. Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (*Saccharomyces cerevisiae*): a comparative study. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 5, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02840-3>., Registrované v: WOS
- ADCA319 KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - SLOVÁKOVÁ, Ľudmila - LIŠKOVÁ, Desana. Interaction of galactoglucomannan oligosaccharides with auxin in mung bean primary root. In Plant Physiology and Biochemistry : an official journal of the Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant Biology (Société Française de Biologie Végétale (SFBV)), 2010, vol.48, p. 401-406. (2009: 2.485 - IF, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2010.03.009>
Citácie:
1. [1.1] WU, Xingbo - ISLAM, A. S. M. Faridul - LIMPOT, Naransa - MACKASMIEL, Lucas - MIERZWA, Jerzy - CORTES, Andres J. - BLAIR, Matthew W. Genome-Wide SNP Identification and Association Mapping for Seed Mineral Concentration in Mung Bean (*Vigna radiata*L.). In FRONTIERS IN GENETICS, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.00656>., Registrované v: WOS
- ADCA320 KOLLÁROVÁ, Karin** - KAMENICKÁ, Viktória - VATEHOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In Journal of Plant Physiology, 2018, vol. 222, p. 59-66. (2017: 2.833 - IF, Q1 - JCR, 1.178 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0176-1617. Dostupné na: <https://doi.org/10.1016/j.jplph.2017.12.017>
Citácie:
1. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>., Registrované v: WOS
2. [1.1] XIE, Xin - YAN, Yunlong - LIU, Tao - CHEN, Jun - HUANG, Maoxi - WANG, Li - CHEN, Meiqing - LI, Xiangyang. Data-independent acquisition proteomic analysis of biochemical factors in rice seedlings following treatment with chitosan oligosaccharides. In PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0048-3575, 2020, vol. 170, no., pp. Dostupné na:

- ADCA321 <https://doi.org/10.1016/j.pestbp.2020.104681>, Registrované v: WOS
KOLLÁROVÁ, Karin** - KUSÁ, Zuzana - VATEHOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. The response of maize protoplasts to cadmium stress mitigated by silicon. In *Ecotoxicology and Environmental Safety*, 2019, vol. 170, p. 488-494. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0147-6513. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2018.12.016>
- Citácie:
1. [1.1] *BARUAH, I. - BARUAH, G. - SAHU, J. - SINGHA, D.L. - DEKABORUAH, H. - VELMURUGAN, N. - CHIKKAPUTTAIAH, C. Transient Sub-cellular Localization and In Vivo Protein-Protein Interaction Study of Multiple Abiotic Stress-Responsive AtEIF4A-III and AtALY4 Proteins in Arabidopsis thaliana. In PLANT MOLECULAR BIOLOGY REPORTER. ISSN 0735-9640, DEC 2020, vol. 38, no. 4, p. 538-553., Registrované v: WOS*
 2. [1.1] *HAMILL, P.G. - STEVENSON, A. - MCMULLAN, P.E. - WILLIAMS, J.P. - LEWIS, A.D.R. - SUDHARSAN, S. - STEVENSON, K.E. - FARNSWORTH, K.D. - KHROUSTALYOVA, G. - TAKEMOTO, J.Y. - QUINN, J.P. - RAPOPORT, A. - HALLSWORTH, J.E. Microbial lag phase can be indicative of, or independent from, cellular stress. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 3 2020, vol. 10, no. 1., Registrované v: WOS*
 3. [1.1] *SHEN, M. - SCHNEIDER, H. - XU, R.B. - CAO, G.H. - ZHANG, H.B. - LI, T. - ZHAO, Z.W. Dark septate endophyte enhances maize cadmium (Cd) tolerance by the remodeled host cell walls and the altered Cd subcellular distribution. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, APR 2020, vol. 172., Registrované v: WOS*
 4. [1.1] *SHI, G.L. - LU, H.Y. - LIU, H. - LOU, L.Q. - ZHANG, P.P. - SONG, G.C. - ZHOU, H.M. - MA, H.X. Sulfate application decreases translocation of arsenic and cadmium within wheat (Triticum aestivum L.) plant. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, APR 15 2020, vol. 713., Registrované v: WOS*
 5. [1.1] *VACULIK, M. - LUKACOVA, Z. - BOKOR, B. - MARTINKA, M. - TRIPATHI, D.K. - LUX, A. Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6744-6757., Registrované v: WOS*
- ADCA322 KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Cadmium impact, accumulation and detection in poplar callus cells. In *Environmental Science and Pollution Research*, 2017, vol. 24, p. 15340-15346. (2016: 2.741 - IF, Q2 - JCR, 0.891 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-017-9158-3>
- Citácie:
1. [1.1] *RAN, Di - MA, Yonggang - LIU, Wei - LUO, Tongwang - ZHENG, Jiaming - WANG, Dedong - SONG, Ruilong - ZHAO, Hongyan - ZOU, Hui - GU, Jianhong - YUAN, Yan - BIAN, Jianchun - LIU, Zongping. TGF-beta-activated kinase 1 (TAK1) mediates cadmium-induced autophagy in osteoblasts via the AMPK / mTORC1 / ULK1 pathway. In TOXICOLOGY. ISSN 0300-483X, 2020, vol. 442, no., pp. Dostupné na: <https://doi.org/10.1016/j.tox.2020.152538>., Registrované v: WOS*
- ADCA323 KÓŇA, Juraj - FABIAN, Walter. Hybrid QM/MM calculations on the first redox step of the catalytic cycle of bovine glutathione peroxidase GPX1. In *Journal of Chemical Theory and Computation*, 2011, vol. 7, p. 2610-2616. (2010: 5.138 - IF, Q1 - JCR, 2.431 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents).

ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/ct200129q>

Citácie:

1. [1.1] SABET-SARVESTANI, Hossein - IZADYAR, Mohammad - ESHGHI, Hossein - NOROZI-SHAD, Nazanin. Evaluation and understanding the performances of various derivatives of carbonyl-stabilized phosphonium ylides in CO₂ transformation to cyclic carbonates. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 1, pp. 223-237., Registrované v: WOS

ADCA324 KÓŇA, Juraj. Theoretical study on the mechanism of a ring-opening reaction of oxirane by the active-site aspartic dyad of KIV-1 protease. In *Organic and Biomolecular Chemistry*, 2008, vol., p. 359-365. ISSN 1477-0520. Dostupné na: <https://doi.org/10.1039/b715828a>

Citácie:

1. [1.1] IZADYAR, Mohammad - REZAEIAN, Mojtaba - VICTOROV, Alexey. Theoretical study on the absorption of carbon dioxide by DBU-based ionic liquids. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 35, pp. 20050-20060. Dostupné na: <https://doi.org/10.1039/d0cp03612a>., Registrované v: WOS

2. [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad. Computational modeling of the kinetics and mechanism of the new generation of glutathione peroxidase nanomimic: selenosubtilisin and tellurosubtilisin. In *JOURNAL OF THE IRANIAN CHEMICAL SOCIETY*. ISSN 1735-207X, 2020, vol. 17, no. 8, pp. 2119-2131. Dostupné na: <https://doi.org/10.1007/s13738-020-01919-w>., Registrované v: WOS

3. [1.1] REZAEIAN, Mojtaba - IZADYAR, Mohammad - HOUSAINDOKHT, Mohammad Reza. Thermal decomposition mechanisms of some amino acid ionic liquids: Molecular approach. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2020, vol. 302, no., pp. Dostupné na: <https://doi.org/10.1016/j.molliq.2020.112505>., Registrované v: WOS

4. [1.1] SABET-SARVESTANI, Hossein - IZADYAR, Mohammad - ESHGHI, Hossein - NOROZI-SHAD, Nazanin. Evaluation and understanding the performances of various derivatives of carbonyl-stabilized phosphonium ylides in CO₂ transformation to cyclic carbonates. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2020, vol. 22, no. 1, pp. 223-237. Dostupné na: <https://doi.org/10.1039/c9cp05211a>., Registrované v: WOS

ADCA325 KÓŇA, Juraj** - ZÁHRADNÍK, P. - KOZMON, Stanislav - FABIÁK, W.M.F. Role of solvent effects on nucleophilic substitution of 4H-pyran-4-one and its 2,6-dimethyl derivative with hydroxide ion in aqueous solution: ab initio and density functional theory studies on a supermolecular reaction model. In *Journal of Molecular Structure: THEOCHEM*, 2005, vol. 728, p. 117-122. ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.theochem.2005.02.026>

Citácie:

1. [1.1] CHANG, Yu-Ming - WANG, Yi-Siang - CHAO, Sheng D. A minimum quantum chemistry CCSD(T)/CBS dataset of dimeric interaction energies for small organic functional groups. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2020, vol. 153, no. 15, pp. Dostupné na: <https://doi.org/10.1063/5.0019392>., Registrované v: WOS

ADCA326 KOŮŠ, Miroslav - MOSHER, H.S. α -Amino- α -trifluoromethyl-phenylacetonitrile: A potential reagent for ¹⁹F NMR determination of enantiomeric purity of acids. In *Tetrahedron*, 1993, vol. 49, p. 1541-1546. ISSN 0040-4020. Dostupné na: [https://doi.org/10.1016/S0040-4020\(01\)80341-0](https://doi.org/10.1016/S0040-4020(01)80341-0)

Citácie:

1. [1.1] KONDO, Yuta - KADOTA, Tetsuya - HIRAZAWA, Yoshinobu - MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Scandium(III) Triflate Catalyzed Direct Synthesis of N-Unprotected Ketimines. In ORGANIC LETTERS. ISSN 1523-7060, 2020, vol. 22, no. 1, pp. 120-125. Dostupné na: <https://doi.org/10.1021/acs.orglett.9b04038>., Registrované v: WOS
 2. [1.1] LEHNHERR, Dan - LAM, Yu-hong - NICASTRI, Michael C. - LIU, Jinchu - NEWMAN, Justin A. - REGALADO, Erik L. - DIROCCO, Daniel A. - ROVIS, Tomislav. Electrochemical Synthesis of Hindered Primary and Secondary Amines via Proton-Coupled Electron Transfer. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 1, pp. 468-478. Dostupné na: <https://doi.org/10.1021/jacs.9b10870>., Registrované v: WOS
 3. [1.1] MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Recent Progress on Catalytic Addition Reactions to N-Unsubstituted Imines. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 12, pp. 6924-6951. Dostupné na: <https://doi.org/10.1021/acscatal.0c01212>., Registrované v: WOS
- ADCA327 KORCOVÁ, Jana, Vráblová - MACHOVÁ, Eva - FILIP, Jaroslav - BYSTRICKÝ, Slavomír. Biophysical properties of carboxymethyl derivatives of mannan and dextran. In Carbohydrate Polymers, 2015, vol. 134, p. 6-11. (2014: 4.074 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2015.07.008>
- Citácie:
1. [1.1] CHAKKA, Vara Prasad - ZHOU, Tao. Carboxymethylation of polysaccharides: Synthesis and bioactivities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2425-2431. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.178>., Registrované v: WOS
 2. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS
- ADCA328 KORF, Richard P. - LIZON, Pavel. Validation of Nannfeldt's ordinal name Helotiales. In Mycotaxon : an international journal of research on taxonomy and nomenclature of fungi, including lichens. - Ithaca : Mycotaxon, 2000, vol. 75, p. 501-502. (2000 - Current Contents). ISSN 0093-4666.
- Citácie:
1. [1.1] HYDE, Kevin D. - DONG, Yang - PHOOKAMSAK, Rungtiwa - JEEWON, Rajesh - BHAT, D. Jayarama - JONES, E. B. Gareth - LIU, Ning-Guo - ABEYWICKRAMA, Pranami D. - MAPOOK, Ausana - WEI, Deping - PERERA, Rekhani H. - MANAWASINGHE, Ishara S. - PEM, Dhandevi - BUNDHUN, Digvijayini - KARUNARATHNA, Anuruddha - EKANAYAKA, Anusha H. - BAO, Dan-Feng - LI, Junfu - SAMARAKOON, Milan C. - CHAIWAN, Napalai - LIN, Chuan-Gen - PHUTTHACHAROEN, Kunthida - ZHANG, Sheng-Nan - SENANAYAKE, Indunil C. - GOONASEKARA, Ishani D. - THAMBUGALA, Kasun M. - PHUKHAMSADKA, Chayanard - TENNAKOON, Danushka S. - JIANG, Hong-Bo - YANG, Jing - ZENG, Ming - HUANGRALUEK, Naruemon - LIU, Jian-Kui (Jack) - WIJESINGHE, Subodini N. - TIAN, Qing - TIBPROMMA, Saowaluck - BRAHMANAGE, Rashika S. - BOONMEE, Saranyaphat - HUANG, Shi-Ke - THIYAGARAJA, Vinodhini - LU, Yong-Zhong - JAYAWARDENA, Ruvishika S. - DONG, Wei - YANG, Er-Fu - SINGH, Sanjay K. - SINGH, Shiv

Mohan - RANA, Shiwali - LAD, Sneha S. - ANAND, Garima - DEVADATHA, Bandarupalli - NIRANJAN, M. - SARMA, V. Venkateswara - LIIMATAINEN, Kare - AGUIRRE-HUDSON, Begona - NISKANEN, Tuula - OVERALL, Andy - ALVARENGA, Renato Lucio Mendes - GIBERTONI, Tatiana Baptista - PFLIEGLER, Walter P. - HORVATH, Eniko - IMRE, Alexandra - ALVES, Amanda Lucia - SANTOS, Ana Carla da Silva - TIAGO, Patricia Vieira - BULGAKOV, Timur S. - WANASINGHE, Dhanushaka N. - BAHKALI, Ali H. - DOILOM, Mingkwan - ELGORBAN, Abdallah M. - MAHARACHCHIKUMBURA, Sajeewa S. N. - RAJESHKUMAR, Kunhiraman C. - HAELEWATERS, Danny - MORTIMER, Peter E. - ZHAO, Qi - LUMYONG, Saisamorn - XU, Jianchu - SHENG, Jun. Fungal diversity notes 1151-1276: taxonomic and phylogenetic contributions on genera and species of fungal taxa. In FUNGAL DIVERSITY. ISSN 1560-2745, 2020, vol. 100, no. 1, pp. 5-277. Dostupné na:

<https://doi.org/10.1007/s13225-020-00439-5>, Registrované v: WOS

- ADCA329 KOSÍK, Ondřej - AUBURN, Richard P. - RUSSEL, Steven - STRATILOVÁ, Eva - GARAJOVÁ, Soňa - HRMOVÁ, Mária - FARKAŠ, Vladimír. Polysaccharide microarrays for high-throughput screening of transglycosylase activities in plant extracts. In Glycoconjugate journal, 2010, vol. 27, p. 79-87. (2009: 2.500 - IF, Q3 - JCR, 0.898 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-009-9271-8>

Citácie:

1. [1.1] FRANKOVA, Lenka - FRY, Stephen C. Activity and Action of Cell-Wall Transglycanases. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 165-192. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_10, Registrované v: WOS
2. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>, Registrované v: WOS
3. [1.1] PALMA, Angelina S. - CHAI, Wengang. Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology. In SYNTHETIC GLYCOMES. ISSN 2055-1975, 2019, vol. 11, no., pp. 421-446., Registrované v: WOS

- ADCA330 KOSÍK, Ondřej - FARKAŠ, Vladimír. One-pot fluorescent labeling of xyloglucan oligosaccharides with sulforhodamine. In Analytical Biochemistry, 2008, vol.375, p. 232-236. (2007: 3.002 - IF, Q1 - JCR, 1.149 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-2697. Dostupné na: <https://doi.org/10.1016/j.ab.2007.11.025>

Citácie:

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

<https://doi.org/10.1111/tpj.14964>, Registrované v: WOS

- ADCA331 KOSSACZKÁ, Zuzana - BYSTRICKÝ, Slavomír - BRYLA, D.A. - SHILOACH, J. - ROBBINS, J.B. - SZU, S.C. Synthesis and immunological properties of Vi and Di-O-acetyl pectin protein conjugates with adipic acid dihydrazide as the linker. In

Infection and Immunity, 1997, vol. 65, p. 2088-2093. (1997 - Current Contents).
ISSN 0019-9567.

Citácie:

1. [1.1] JONES, Christopher - AN, So Jung - YOON, Yeon Kyung - KOTHARI, Sudeep - SAHASTRABUDDHE, Sushant - CARBIS, Rodney. Spectroscopic characterisation of a series of Salmonella Typhi Vi-diphtheria toxoid glycoconjugate antigens differing in polysaccharide-protein ratio. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2020, vol. 181, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2020.113100>., Registrované v: WOS

2. [1.1] LOCKYER, Kay - GAO, Fang - FRANCIS, Robert J. - EASTWOOD, David - KHATRI, Bhagwati - STEBBINGS, Richard - DERRICK, Jeremy P. - BOLGIANO, Barbara. Higher mass meningococcal group C-tetanus toxoid vaccines conjugated with carbodiimide correlate with greater immunogenicity. In VACCINE. ISSN 0264-410X, 2020, vol. 38, no. 13, pp. 2859-2869. Dostupné na: <https://doi.org/10.1016/j.vaccine.2020.02.012>., Registrované v: WOS

3. [1.1] VASHISHTHA, Vipin M. - KALRA, Ajay. The need & the issues related to new-generation typhoid conjugate vaccines in India. In INDIAN JOURNAL OF MEDICAL RESEARCH. ISSN 0971-5916, 2020, vol. 151, no. 1, pp. 22-34.

Dostupné na: https://doi.org/10.4103/ijmr.IJMR_1890_17., Registrované v: WOS

ADCA332 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena - SASINKOVÁ, Vlasta - KAČÍK, F. The use of various yeast strains for removal of pine wood extractive constituents. In Wood Research, 2006, vol.51, p. 47-53. (2005: 0.125 - IF, Q4 - JCR, 0.169 - SJR, Q3 - SJR). ISSN 1336-4561.

Citácie:

1. [1.1] NAMDAR, Abdoullah. The multilayered soil-structure seismic interaction and structure vibration mechanism. In FRATTURA ED INTEGRITÀ STRUTTURALE. ISSN 1971-8993, 2020, vol., no. 51, pp. 267-274. Dostupné na: <https://doi.org/10.3221/IGF-ESIS.51.21>., Registrované v: WOS

ADCA333 KOŠŤÁLOVÁ, Zuzana** - HROMÁDKOVÁ, Zdenka. Structural characterisation of polysaccharides from roasted hazelnut skins. In Food Chemistry, 2019, vol. 286, p. 179-184. (2018: 5.399 - IF, Q1 - JCR, 1.768 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0308-8146. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.01.203>

Citácie:

1. [1.1] LI, Ke - LI, Shuying - DU, Yuguang - QIN, Xuemei. Screening and structure study of active components of Astragalus polysaccharide for injection based on different molecular weights. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2020, vol. 1152, no., pp. Dostupné na: <https://doi.org/10.1016/j.jchromb.2020.122255>., Registrované v: WOS

2. [1.1] LIU, Hongcheng - FAN, Hongxiu - ZHANG, Jing - ZHANG, Shanshan - ZHAO, Wenting - LIU, Tingting - WANG, Dawei. Isolation, purification, structural characteristic and antioxidative property of polysaccharides from *A. cepa* L. var. *agrogatum* Don. In FOOD SCIENCE AND HUMAN WELLNESS, 2020, vol. 9, no. 1, pp. 71-79. Dostupné na: <https://doi.org/10.1016/j.fshw.2019.12.006>., Registrované v: WOS

3. [1.1] LIU, Xuegui - XU, Shuangshuang - DING, Xiaodan - YUE, Dandan - BIAN, Jun - ZHANG, Xue - ZHANG, Gonglin - GAO, Pinyi. Structural characteristics of *Medicago Sativa* L. Polysaccharides and Semodified polysaccharides as well as their antioxidant and neuroprotective activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN

- 0141-8130, 2020, vol. 147, no., pp. 1099-1106. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.078>., Registrované v: WOS
4. [1.1] NIU, Junfeng - WANG, Shangping - WANG, Bulei - CHEN, Lijun - ZHAO, Guangming - LIU, Shuai - WANG, Shiqiang - WANG, Zhezhi. Structure and anti-tumor activity of a polysaccharide from *Bletilla ochracea* Schltr. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 154, no., pp. 1548-1555. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.039>., Registrované v: WOS
5. [1.1] RENNA, Manuela - LUSSIANA, Carola - MALFATTO, Vanda - GERBELLE, Mathieu - TURILLE, Germano - MEDANA, Claudio - GHIRARDELLO, Daniela - MIMOSI, Antonio - CORNALE, Paolo. Evaluating the Suitability of Hazelnut Skin as a Feed Ingredient in the Diet of Dairy Cows. In *ANIMALS*. ISSN 2076-2615, 2020, vol. 10, no. 9, pp. Dostupné na: <https://doi.org/10.3390/ani10091653>., Registrované v: WOS
6. [1.1] SOROURIAN, Reihaneh - KHAJEHRAHIMI, Amir Eghbal - TADAYONI, Mehrnoosh - AZIZI, Mohammad Hossein - HOJJATI, Mohammad. Ultrasound-assisted extraction of polysaccharides from *Typha domingensis*: Structural characterization and functional properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 160, no., pp. 758-768. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.226>., Registrované v: WOS
7. [1.1] SUN, Xuyang - ZHAO, Qianqian - SI, Yu - LI, Kaidong - ZHU, Jingyi - GAO, Xiangdong - LIU, Wei. Bioactive structural basis of proteoglycans from *Sarcandra glabra* based on spectrum-effect relationship. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2020, vol. 259, no., pp. Dostupné na: <https://doi.org/10.1016/j.jep.2020.112941>., Registrované v: WOS
8. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na: <https://doi.org/10.1080/10408398.2019.1672037>., Registrované v: WOS

ADCA334 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Structural diversity of pectins isolated from the Styrian oil-pumpkin (*Cucurbita pepo* var. *styriaca*) fruit. In *Carbohydrate Polymers*, 2013, vol. 93, p. 163-171. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.05.017>

Citácie:

1. [1.1] SUKHENKO, Yuriy - MUSHTRUK, Mikhailo - VASYLIV, Volodimir - SUKHENKO, Vladislav - DUDCHENKO, Vladislav. Production of Pumpkin Pectin Paste. In *ADVANCES IN DESIGN, SIMULATION AND MANUFACTURING II*. ISSN 2195-4356, 2020, vol., no., pp. 805-812. Dostupné na: https://doi.org/10.1007/978-3-030-22365-6_80., Registrované v: WOS
2. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na: <https://doi.org/10.1080/10408398.2019.1672037>., Registrované v: WOS
3. [1.1] XU, Ming - QI, Mingyue - GOFF, H. D. - CUI, S. W. Polysaccharides from sunflower stalk pith: Chemical, structural and functional characterization.

In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 100, no., pp.

Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.04.053>., Registrované v: WOS

4. [1.1] ZOU, Yuan-Feng - ZHANG, Yan-Yun - PAULSEN, Berit Smestad - RISE, Frode - CHEN, Zheng-Li - JIA, Ren-Yong - LI, Li-Xia - SONG, Xu - FENG, Bin - TANG, Hua-Qiao - HUANG, Chao - YIN, Zhong-Qiong. *Structural features of pectic polysaccharides from stems of two species of Radix Codonopsis and their antioxidant activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 704-713.*

Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.083>., Registrované v: WOS

- ADCA335 KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - POLOVKA, Martin - MICHAELSEN, Terje Einar - PAULSEN, Berit Smestad. Polysaccharides from Styrian oil-pumpkin with antioxidant and complement-fixing activity. In *Industrial Crops and Products*, 2013, vol. 41, p. 127-133. (2012: 2.468 - IF, Q1 - JCR, 0.980 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0926-6690. Dostupné na: <https://doi.org/10.1016/j.indcrop.2012.04.029>

Citácie:

1. [1.1] CIRIMINNA, Rosaria - FIDALGO, Alexandra - MENEGUZZO, Francesco - PRESENTATO, Alessandro - SCURRIA, Antonino - NUZZO, Domenico - ALDUINA, Rosa - ILHARCO, Laura M. - PAGLIARO, Mario. *Pectin: A Long-Neglected Broad-Spectrum Antibacterial. In CHEMMEDCHEM. ISSN 1860-7179, 2020, vol. 15, no. 23, pp. 2228-2235.* Dostupné na: <https://doi.org/10.1002/cmdc.202000518>., Registrované v: WOS

2. [1.1] FILHO, Cesar M. C. - BUENO, Pedro V. A. - MATSUSHITA, Alan F. Y. - VILSINSKI, Bruno H. - RUBIRA, Adley F. - MUNIZ, Edvani C. - MURTINHO, Dina M. B. - VALENTE, Artur J. M. *Uncommon Sorption Mechanism of Aromatic Compounds onto Poly(Vinyl Alcohol)/Chitosan/Maleic Anhydride-beta-Cyclodextrin Hydrogels. In POLYMERS, 2020, vol. 12, no. 4, pp.* Dostupné na: <https://doi.org/10.3390/polym12040877>., Registrované v: WOS

3. [1.1] SHAKIBI, Sepideh - HEMMATINEJAD, Nahid - BASHARI, Azadeh. *Sorbent Textiles for Colored Wastewater Made from Orange Based Pectin Nano-hydrogel. In FIBERS AND POLYMERS. ISSN 1229-9197, 2020, vol. 21, no. 6, pp. 1275-1282.* Dostupné na: <https://doi.org/10.1007/s12221-020-9907-7>., Registrované v: WOS

- ADCA336 KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Isolation and characterization of pectic polysaccharides from the seeded fruit of oil pumpkin (*Cucurbita pepo* L. var. *Styriaca*). In *Industrial crops and products : An international journal*, 2010, vol.31, p. 370-377. (2009: 2.103 - IF, Q1 - JCR, 0.824 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0926-6690.

Citácie:

1. [1.1] KHEDMAT, Leila - IZADI, Anahita - MOFID, Vahid - MOJTAHEDI, Sayed Yousef. *Recent advances in extracting pectin by single and combined ultrasound techniques: A review of techno-functional and bioactive health-promoting aspects. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, no., pp.* Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115474>., Registrované v: WOS

2. [1.1] SUN, Zijian - QI, Fengqin - GAO, Huan - LIU, Lijuan. *Preliminary exploration of phytochemical profiles, antioxidant and hepatoprotective activities of non-oil extracts of pumpkin seeds treated by four different processing methods. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020,*

- ADCA337 *vol. 59, no. 1, pp. 51-60., Registrované v: WOS*
KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - EBRINGEROVÁ, Anna. Bioactive hemicelluloses alkali-extracted from Fallopia sachalinensis leaves. In Carbohydrate Research, 2014, vol. 398, p. 19-24. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.08.009>
 Citácie:
 1. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. Structural characteristics of oxalate-soluble polysaccharides from Norway spruce (Picea abies) foliage. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116544>., Registrované v: WOS
 2. [1.1] RINCON, Esther - ZULIANI, Alessio - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco - LUQUE, Rafael - SERRANO, Luis - BALU, Alina M. Combined Extraction/Purification-Catalytic Microwave-Assisted Conversion of Laurus nobilis L. Pruning Waste Polysaccharides into Methyl Levulinate. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 29, pp. 11016-11023. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c04161>., Registrované v: WOS
 3. [1.1] ZHAO, Kui - LI, Bo - HE, Dongmei - ZHAO, Can - SHI, Zhengjun - DONG, Binbin - PAN, Duo - PATIL, Rahul Rangrao - YAN, Zhuyun - GUO, Zhanhu. Chemical characteristic and bioactivity of hemicellulose-based polysaccharides isolated from Salvia miltiorrhiza. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, no., pp. 2475-2483. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.113>., Registrované v: WOS
- ADCA338 KOVÁCS, László - HLAVATÁ, A. - BALDOVIČ, Marián - PAULOVICHOVÁ, Ema - DALLOS, Tomáš - FÉHERVÍZIOVÁ, Zuzana - KÁDAŠI, Eudevít. Elevated immunoglobulin D levels in children with PFAPA syndrome. In Neuroendocrinology Letters, 2010, vol. 31, p. 743-746. (2009: 1.047 - IF, Q4 - JCR, 0.440 - SJR, Q2 - SJR). ISSN 0172-780X.
 Citácie:
 1. [1.1] CHAITOW, Jeffrey. PFAPA: Periodic Fever, Aphthous Ulceration, Pharyngitis, Adenitis. In PERIODIC AND NON-PERIODIC FEVERS. ISSN 2282-6505, 2020, vol., no., pp. 27-44. Dostupné na: https://doi.org/10.1007/978-3-030-19055-2_3., Registrované v: WOS
- ADCA339 KOVÁČ, Pavol - HIRSCH, Ján - KOVÁČIK, Vladimír - PETRÁKOVÁ, Eva. Synthesis and reactions of uronic acid derivatives. XIX. The stepwise synthesis of an aldopentaauronic acid related to branched (4-O-methylglucurono) xylans. In Carbohydrate Research, 1980, vol. 85, p. 41-49. ISSN 0008-6215.
 Citácie:
 1. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS
- ADCA340 KOVÁČIK, Vladimír - HIRSCH, Ján - KOVÁČ, Pavol - HEERMA, W. - THOMASOATES, J. - HAVERKAMP, J. Oligosaccharide characterization using collision-induced dissociation fast-atom-bombardment mass spectrometry - evidence for internal monosaccharide residue loss. In Journal of Mass Spectrometry, 1995, vol. 30, p. 949-958. ISSN 1076-5174. Dostupné na: <https://doi.org/10.1002/jms.1190300704>

Citácie:

1. [1.1] PORFIRIO, Sara - ARCHER-HARTMANN, Stephanie - MOREAU, G. Brett - RAMAKRISHNAN, Girija - HAQUE, Rashidul - KIRKPATRICK, Beth D. - PETRI, William A. - AZADI, Parastoo. New strategies for profiling and characterization of human milk oligosaccharides. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2020, vol. 30, no. 10, pp. 774-786. Dostupné na: <https://doi.org/10.1093/glycob/cwaa028>, Registrované v: WOS

ADCA341 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Wojtech - KOČA, Jaroslav. Dispersion interactions of carbohydrates with condensate aromatic moieties: Theoretical study on the CH- π interaction additive properties. In *Physical Chemistry Chemical Physics*, 2011, vol. 13, p. 14215-14222. (2010: 3.454 - IF, Q1 - JCR, 1.817 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c1cp21071h>

Citácie:

1. [1.1] LANSKY, Shifra - SALAMA, Rachel - SHULAMI, Smadar - LAVID, Noa - SEN, Saumik - SCHAPIRO, Igor - SHOHAM, Yuval - SHOHAM, Gil. Carbohydrate-Binding Capability and Functional Conformational Changes of AbnE, an Arabino-oligosaccharide Binding Protein. In *JOURNAL OF MOLECULAR BIOLOGY*. ISSN 0022-2836, 2020, vol. 432, no. 7, pp. 2099-2120. Dostupné na: <https://doi.org/10.1016/j.jmb.2020.01.041>, Registrované v: WOS
2. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>, Registrované v: WOS
3. [1.1] STANKOVIC, Ivana M. - FILIPOVIC, Jelena P. Blagojevic - ZARIC, Snezana D. Carbohydrate Protein aromatic ring interactions beyond CH/ π interactions: A Protein Data Bank survey and quantum chemical calculations. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.251>, Registrované v: WOS

ADCA342 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Wojtech - KOČA, Jaroslav. Three-dimensional potential energy surface of selected carbohydrates' CH/ π dispersion interactions calculated by high-level quantum mechanical methods. In *Chemistry -A European Journal*, 2011, vol. 17, p. 5680-5690. (2010: 5.476 - IF, Q1 - JCR, 2.791 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201002876>

Citácie:

1. [1.1] LANSKY, Shifra - SALAMA, Rachel - SHULAMI, Smadar - LAVID, Noa - SEN, Saumik - SCHAPIRO, Igor - SHOHAM, Yuval - SHOHAM, Gil. Carbohydrate-Binding Capability and Functional Conformational Changes of AbnE, an Arabino-oligosaccharide Binding Protein. In *JOURNAL OF MOLECULAR BIOLOGY*. ISSN 0022-2836, 2020, vol. 432, no. 7, pp. 2099-2120. Dostupné na: <https://doi.org/10.1016/j.jmb.2020.01.041>, Registrované v: WOS
2. [1.1] STANKOVIC, Ivana M. - FILIPOVIC, Jelena P. Blagojevic - ZARIC, Snezana D. Carbohydrate Protein aromatic ring interactions beyond CH/ π interactions: A Protein Data Bank survey and quantum chemical calculations. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 1-9. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.251>, Registrované v: WOS
3. [1.1] TOIKKA, Yulia N. - MIKHERDOV, Alexander S. - IVANOV, Daniil M. - MOOIBROEK, Tiddo J. - BOKACH, Nadezhda A. - KUKUSHKIN, Vadim Yu. Cyanamides as π -Hole Donor Components of Structure-Directing

- (Cyanamide)...Arene Noncovalent Interactions. In *CRYSTAL GROWTH & DESIGN*. ISSN 1528-7483, 2020, vol. 20, no. 7, pp. 4783-4793. Dostupné na: <https://doi.org/10.1021/acs.cgd.0c00561>., Registrované v: WOS
- ADCA343 KOZMON, Stanislav - TVAROŠKA, Igor. Catalytic mechanism of glycotransferases: Hybrid quantum mechanical/molecular mechanical study of the inverting N-acetylglucosaminyl-transferase. In *Journal of the American Chemical Society*, 2006, vol. 128, p. 16921-16927. (2005: 7.419 - IF, Q1 - JCR, 4.413 - SJR, Q1 - SJR). ISSN 0002-7863.
- Citácie:
- [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5'; thio galactose substrates. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS
 - [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In *PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS*. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS
- ADCA344 KRAJČOVIČ, Tomáš - BUČKO, Marek - VIKARTOVSKÁ, Alica - LACÍK, Igor - UHELSKÁ, Lucia - CHORVÁT, Dušan - NEDĚLA, Vilém - TIHLAŘÍKOVÁ, Eva - GERICKE, Martin - HEINZE, Thomas - GEMEINER, Peter. Polyelectrolyte complex beads by novel two-step process for improved performance of viable whole-cell Bayeyer-Villiger monooxygenase by immobilization. In *Catalyst*, 2017, vol. 7, no. 11, art. no. 353. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2073-4344. Grunwald Peter, ed. Immobilized Biocatalysts 2018, p. 130-141. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, karentované - CCC). ISSN 978-3-03897-318-8. Dostupné na: <https://doi.org/10.3390/catal7110353>
- Citácie:
- [1.1] CALABRESE, V. - CALIFANO, D. - DA SILVA, M.A. - SCHMITT, J. - BRYANT, S.J. - HOSSAIN, K.M.Z. - PERCEBOM, A.M. - GRAMATGES, A.P. - SCOTT, J.L. - EDLER, K.J. Core-Shell Spheroidal Hydrogels Produced via Charge-Driven Interfacial Complexation. In *ACS APPLIED POLYMER MATERIALS*. ISSN 2637-6105, MAR 2020, vol. 2, no. 3, p. 1213-1221., Registrované v: WOS
- ADCA345 KRAMÁROVÁ, Z. - ALEX, P. - CHODÁK, Ivan - ŠPIRK, E. - HUDEČ, I. - KOŠÍKOVÁ, Božena - GREGOROVÁ, Anna - ŠÚRI, P. - FERANC, J. - BUGAJ, P. - ĐURAČKA, M. Biopolymers as fillers for rubber blends. In *Polymers for Advanced Technologies*, 2007, vol. 18, p. 132-140. (2006: 1.406 - IF, Q2 - JCR, 0.697 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1042-7147.
- Citácie:
- [1.1] O'DEA, R.M. - WILLIE, J.A. - EPPS, T.H. 100th Anniversary of Macromolecular Science Viewpoint: Polymers from Lignocellulosic Biomass. Current Challenges and Future Opportunities. In *ACS MACRO LETTERS*. APR 21 2020, vol. 9, no. 4, p. 476-493., Registrované v: WOS
 - [1.1] ROY, K. - DEBNATH, S.C. - POTIYARAJ, P. A Review on Recent Trends and Future Prospects of Lignin Based Green Rubber Composites. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, FEB 2020, vol. 28, no. 2, p. 367-387., Registrované v: WOS

- ADCA346 KRÁTKY, Z. - BIELY, Peter - BAUER, Štefan. Mechanism of 2-deoxy-D-glucose inhibition of cell wall polysaccharide and glycoprotein biosyntheses in *Saccharomyces cerevisiae*. In *European Journal of Biochemistry*, 1975, vol. 54, p. 459-467. ISSN 0014-2956.
- Citácie:
- [1.1] *LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>, Registrované v: WOS*
- ADCA347 KRATOCHVÍLOVÁ, Irena - GOLAN, Martin - POMEISL, Karel - RICHTER, Jan - SEDLÁKOVÁ, Silvia - ŠEBERA, Jakub - MIČOVÁ, Júlia - FALK, Martin - FALKOVÁ, Iva - ŘEHA, David - ELLIOT, K. Wade - VARGA, Krisztina - FOLLET, Shelby E. - ŠIMEK, Daniel. Theoretical and experimental study of the antifreeze protein AFP752, trehalose and dimethyl sulfoxide cryoprotection mechanism: correlation with cryopreserved cell viability. In *RSC Advances*, 2017, vol. 7, no. 1, p. 352-360. (2016: 3.108 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2046-2069. Dostupné na: <https://doi.org/10.1039/c6ra25095e>
- Citácie:
- [1.1] *DIAZ-DUSSAN, Diana - PENG, Yi-Yang - SENGUPTA, Jayeeta - ZABLUDOWSKI, Rebecca - ADAM, Madeleine K. - ACKER, Jason P. - BEN, Robert N. - KUMAR, Piyush - NARAIN, Ravin. Trehalose-Based Polyethers for Cryopreservation and Three-Dimensional Cell Scaffolds. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 3, pp. 1264-1273. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00018>, Registrované v: WOS*
 - [1.1] *GU, Jianfeng - HUANG, Jianren - CHEN, Guoqi - HOU, Linxi - ZHANG, Jin - ZHANG, Xi - YANG, Xiaoxiang - GUAN, Lunhui - JIANG, Xiancai - LIU, Huiyong. Multifunctional Poly(vinyl alcohol) Nanocomposite Organohydrogel for Flexible Strain and Temperature Sensor. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 36, pp. 40815-40827. Dostupné na: <https://doi.org/10.1021/acsami.0c12176>, Registrované v: WOS*
 - [1.1] *MOUSAZADEHKASIN, Mohammad - TSAVALAS, John G. Insights into Design of Biomimetic Glycerol-Grafted Polyol-Based Polymers for Ice Nucleation/Recrystallization Inhibition and Thermal Hysteresis Activity. In BIOMACROMOLECULES. ISSN 1525-7797, 2020, vol. 21, no. 11, pp. 4626-4637. Dostupné na: <https://doi.org/10.1021/acs.biomac.0c00907>, Registrované v: WOS*
 - [1.1] *PENG, Yinjie - YAN, Bin - LI, Yueshan - LAN, Ji - SHI, Lingying - RAN, Rong. Antifreeze and moisturizing high conductivity PEDOT/PVA hydrogels for wearable motion sensor. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2020, vol. 55, no. 3, pp. 1280-1291. Dostupné na: <https://doi.org/10.1007/s10853-019-04101-7>, Registrované v: WOS*
 - [1.1] *QIN, Qingyuan - ZHAO, Lishan - LIU, Zhang - LIU, Tao - QU, Jiangxue - ZHANG, Xiaowei - LI, Rong - YAN, Liying - YAN, Jie - JIN, Shenglin - WANG, Jianjun - QIAO, Jie. Bioinspired L-Proline Oligomers for the Cryopreservation of Oocytes via Controlling Ice Growth. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 16, pp. 18352-18362. Dostupné na: <https://doi.org/10.1021/acsami.0c02719>, Registrované v: WOS*
 - [1.1] *SUN, Wu-Sheng - JANG, Hoon - KWON, Hyo Jin - KIM, Ki Young - BIN AHN, Soo - HWANG, Seongsoo - LEE, Sung Gu - LEE, Jun Hyuck - HWANG, In-Sul - LEE, Jeong-Woong. The protective effect of Leucosporidium-derived ice-binding protein (LeIBP) on bovine oocytes and embryos during vitrification. In*

THERIOGENOLOGY. ISSN 0093-691X, 2020, vol. 151, no., pp. 137-143.

Dostupné na: <https://doi.org/10.1016/j.theriogenology.2020.04.016>,

Registrované v: WOS

- ADCA348 KREMnický, Ľubomír - MASTIHUBA, Vladimír - CÔTÉ, G.L. Trichoderma reesei acetyl esterase catalyzes transesterification in water. In Journal of Molecular Catalysis B: Enzymatic, 2004, vol. 30, p. 229-239. ISSN 1381-1177. Dostupné na: <https://doi.org/10.1016/j.molcatb.2004.05.007>

Citácie:

1. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>,

Registrované v: WOS

2. [1.1] QIU, Xin - FAIRBANKS, Antony J. Scope of the DMC mediated glycosylation of unprotected sugars with phenols in aqueous solution. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 37, pp. 7355-7365. Dostupné na: <https://doi.org/10.1039/d0ob01727b>,

Registrované v: WOS

- ADCA349 KRIŽÁKOVÁ, Martina, Zámorová - HOLAZOVÁ, Alena - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIČ, Miloš - MALENKOVIČ, Vesna - DUKANOVICH, Blagoje - GEMEINER, Peter - KATRLÍK, Jaroslav - NEDIČ, Olgica. Analysis of changes in the glycan composition of serum, cytosol and membrane glycoprotein biomarkers of colorectal cancer using a lectin-based protein microarray. In Analytical Methods, 2017, vol. 9, p. 2660-2666. (2016: 1.900 - IF, Q2 - JCR, 0.595 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1759-9660. Dostupné na: <https://doi.org/10.1039/c7ay00159b>

Citácie:

1. [1.1] BERTOK, Tomas - JANE, Eduard - CHRENEKOVA, Nikola - HRONCEKOVA, Stefania - BERTOKOVA, Aniko - HIRES, Michal - VIKARTOVSKA, Alica - KUBANIKOVA, Petra - SOKOL, Roman - FILLO, Juraj - KASAK, Peter - BORSIG, Lubor - TKAC, Jan. Analysis of serum glycome by lectin microarrays for prostate cancer patients-a search for aberrant glycoforms. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2020, vol. 37, no. 6, pp. 703-711. Dostupné na: <https://doi.org/10.1007/s10719-020-09958-4>,

Registrované v: WOS

- ADCA350 KRONEK, Juraj - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MENDREK, Barbara. In vitro bio-immunological and cytotoxicity studies of poly(2-oxazolines). In Journal of Materials Science: Materials in Medicine, 2011, vol. 22, p. 1725 - 1734. (2010: 2.325 - IF, Q2 - JCR, 0.938 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0957-4530.

Citácie:

1. [1.1] AMIROVA, A. - RODCHENKO, S. - KURLYKIN, M. - TENKOVTSSEV, A. - KRASNOU, I. - KRUMME, A. - FILIPPOV, A. Synthesis and Investigation of Thermo-Induced Gelation of Partially Cross-Linked Poly-2-isopropyl-2-oxazoline in Aqueous Media. In POLYMERS. MAR 2020, vol. 12, no. 3., Registrované v: WOS

2. [1.1] CVEK, M. - ZAHORANOVA, A. - MRLIK, M. - SRAMKOVA, P. - MINARIK, A. - SEDLACIK, M. Poly(2-oxazoline)-based magnetic hydrogels:

- Synthesis, performance and cytotoxicity. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, JUN 2020, vol. 190., Registrované v: WOS*
3. [1.1] CZICH, S. - WLOKA, T. - ROTHE, H. - ROST, J. - PENZOLD, F. - KLEINSTEUBER, M. - GOTTSCHALDT, M. - SCHUBERT, U.S. - LIEFEITH, K. *Two-Photon Polymerized Poly(2-Ethyl-2-Oxazoline) Hydrogel 3D Microstructures with Tunable Mechanical Properties for Tissue Engineering. In MOLECULES. NOV 2020, vol. 25, no. 21., Registrované v: WOS*
4. [1.1] HALADJOVA, E. - RANGELOV, S. - TSVETANOV, C. *Thermoresponsive Polyoxazolines as Vectors for Transfection of Nucleic Acids. In POLYMERS. NOV 2020, vol. 12, no. 11., Registrované v: WOS*
5. [1.1] HUMPHRIES, J. - PIZZI, D. - SONDEREGGER, S.E. - FLETCHER, N.L. - HOUSTON, Z.H. - BELL, C.A. - KEMPE, K. - THURECHT, K.J. *Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structure-Activity Comparison of Biodistribution. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3318-3331., Registrované v: WOS*
6. [1.1] JANA, S. - UCHMAN, M. *Poly(2-oxazoline)-based stimulus-responsive (Co)polymers: An overview of their design, solution properties, surface-chemistries and applications. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, JUL 2020, vol. 106., Registrované v: WOS*
7. [1.1] KONEFAL, R. - CERNOCH, P. - KONEFAL, M. - SPEVACEK, J. *Temperature Behavior of Aqueous Solutions of Poly(2-Oxazoline) Homopolymer and Block Copolymers Investigated by NMR Spectroscopy and Dynamic Light Scattering. In POLYMERS. SEP 2020, vol. 12, no. 9., Registrované v: WOS*
8. [1.1] OLESZKO-TORBUS, N. - BOCHENEK, M. - UTRATA-WESOLEK, A. - KOWALCZUK, A. - MARCINKOWSKI, A. - DWORAK, A. - FUS-KUJAWA, A. - SIERON, A.L. - WALACH, W. *Poly(2-oxazoline) Matrices with Temperature-Dependent Solubility-Interactions with Water and Use for Cell Culture. In MATERIALS. JUN 2020, vol. 13, no. 12., Registrované v: WOS*
9. [1.1] OLESZKO-TORBUS, N. - MENDREK, B. - KOWALCZUK, A. - UTRATA-WESOLEK, A. - DWORAK, A. - WALACH, W. *Selective Partial Hydrolysis of 2-isopropyl-2-oxazoline Copolymers towards Decreasing the Ability to Crystallize. In MATERIALS. AUG 2020, vol. 13, no. 15., Registrované v: WOS*
10. [1.1] SEDLACEK, O. - HOOGENBOOM, R. *Drug Delivery Systems Based on Poly(2-Oxazoline)s and Poly(2-Oxazine)s. In ADVANCED THERAPEUTICS. JAN 2020, vol. 3, no. 1., Registrované v: WOS*
11. [1.1] WALACH, W. - OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - KIJERISKA-GAWRONSKA, E. - GORECKA, Z. - SWIESZKOWSKI, W. - DWORAK, A. *Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. In POLYMERS. FEB 2020, vol. 12, no. 2., Registrované v: WOS*

ADCA351 KRONEK, Juraj - LUSTOŇ, Jozef - KRONEKOVÁ, Zuzana - PAULOVÍČOVÁ, Ema - FARKAŠ, Pavol - PETREŇČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Lucia - JANIGOVÁ, Ivica. *Synthesis and bioimmunological efficiency of poly(2-oxazolines) containing a free amino group. In Journal of Materials Science: Materials in Medicine, 2010, vol. 21, p. 879 - 886. (2009: 1.955 - IF, Q2 - JCR, 0.813 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0957-4530. Dostupné na: <https://doi.org/10.1007/s10856-009-3949-0>*

Citácie:

1. [1.1] OLESZKO-TORBUS, N. - BOCHENEK, M. - UTRATA-WESOLEK, A. - KOWALCZUK, A. - MARCINKOWSKI, A. - DWORAK, A. - FUS-KUJAWA, A. - SIERON, A.L. - WALACH, W. *Poly(2-oxazoline) Matrices with Temperature-Dependent Solubility-Interactions with Water and Use for Cell Culture. In*

MATERIALS. JUN 2020, vol. 13, no. 12., Registrované v: WOS

2. [1.1] OLESZKO-TORBUS, N. - MENDREK, B. - KOWALCZUK, A. - UTRATA-WESOLEK, A. - DWORAK, A. - WALACH, W. *Selective Partial Hydrolysis of 2-isopropyl-2-oxazoline Copolymers towards Decreasing the Ability to Crystallize. In MATERIALS. AUG 2020, vol. 13, no. 15., Registrované v: WOS*

3. [1.1] OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - LIPOWSKA-KUR, D. - DWORAK, A. - WALACH, W. *Thermal and crystalline properties of poly(2-oxazoline)s. In POLYMER CHEMISTRY. ISSN 1759-9954, JAN 7 2020, vol. 11, no. 1, p. 15-33., Registrované v: WOS*

4. [1.1] WALACH, W. - OLESZKO-TORBUS, N. - UTRATA-WESOLEK, A. - BOCHENEK, M. - KIJERISKA-GAWRONSKA, E. - GORECKA, Z. - SWIESZKOWSKI, W. - DWORAK, A. *Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. In POLYMERS. FEB 2020, vol. 12, no. 2., Registrované v: WOS*

ADCA352 KRONEK, Juraj - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTON, Jozef. Immunomodulatory efficiency of poly(2-oxazolines). In Journal of Materials Science: Materials in Medicine, 2012, vol. 23, no. 6, p. 1457-1464. (2011: 2.316 - IF, Q2 - JCR, 0.967 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0957-4530. Dostupné na: <https://doi.org/10.1002/pc.22387>

Citácie:

1. [1.1] CZICH, S. - WLOKA, T. - ROTHE, H. - ROST, J. - PENZOLD, F. - KLEINSTEUBER, M. - GOTTSCHALDT, M. - SCHUBERT, U.S. - LIEFEITH, K. *Two-Photon Polymerized Poly(2-Ethyl-2-Oxazoline) Hydrogel 3D Microstructures with Tunable Mechanical Properties for Tissue Engineering. In MOLECULES. NOV 2020, vol. 25, no. 21., Registrované v: WOS*

2. [1.1] HUMPHRIES, J. - PIZZI, D. - SONDEREGGER, S.E. - FLETCHER, N.L. - HOUSTON, Z.H. - BELL, C.A. - KEMPE, K. - THURECHT, K.J. *Hyperbranched Poly(2-oxazoline)s and Poly(ethylene glycol): A Structure-Activity Comparison of Biodistribution. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2020, vol. 21, no. 8, p. 3318-3331., Registrované v: WOS*

3. [1.1] SEDLACEK, O. - HOOGENBOOM, R. *Drug Delivery Systems Based on Poly(2-Oxazoline)s and Poly(2-Oxazine)s. In ADVANCED THERAPEUTICS. JAN 2020, vol. 3, no. 1., Registrované v: WOS*

4. [1.1] SRAMKOVA, P. - ZAHORANOVA, A. - KELAR, J. - TUCEKOVA, Z.K. - STUPAVSKA, M. - KRUMPOLEC, R. - JURMANOVA, J. - KOVACIK, D. - CERNAK, M. *Cold atmospheric pressure plasma: simple and efficient strategy for preparation of poly(2-oxazoline)-based coatings designed for biomedical applications. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 11 2020, vol. 10, no. 1., Registrované v: WOS*

ADCA353 KRONEKOVÁ, Zuzana - MIKULEC, Marcel - PETRENČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANČINOVÁ, Viera - NOSÁL, Radomír - REDDY, Palem S. - SHIMOGA, Ganesh D. - CHORVÁT, Dušan Jr. - KRONEK, Juraj. Ex vivo and in vivo studies on the cytotoxicity and immunomodulative properties of poly(2-isopropenyl-2-oxazoline) as a new type of biomedical polymer. In Macromolecular Bioscience, 2016, vol. 16, p. 1200-1211. (2015: 3.680 - IF, Q1 - JCR, 1.198 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1616-5187. Dostupné na: <https://doi.org/10.1002/mabi.201600016>

Citácie:

1. [1.1] CEGLOWSKI, M. - JERCA, V.V. - JERCA, F.A. - HOOGENBOOM, R. *Reduction-Responsive Molecularly Imprinted Poly(2-isopropenyl-2-oxazoline) for*

Controlled Release of Anticancer Agents. In PHARMACEUTICS. JUN 2020, vol. 12, no. 6., Registrované v: WOS

2. [1.1] LEISKE, M.N. - MAHMOUD, A.M. - WARNE, N.M. - GOOS, J.A.C.M. - PASCUAL, S. - MONTEBAULT, V. - FONTAINE, L. - DAVIS, T.P. - WHITTAKER, M.R. - KEMPE, K. Poly(2-isopropenyl-2-oxazoline) - a structural analogue to poly(vinyl azlactone) with Orthogonal Reactivity. In POLYMER CHEMISTRY. ISSN 1759-9954, SEP 21 2020, vol. 11, no. 35, p. 5681-5692., Registrované v: WOS

3. [1.1] SPICER, C.D. Hydrogel scaffolds for tissue engineering: the importance of polymer choice. In POLYMER CHEMISTRY. ISSN 1759-9954, 2020, vol. 11, no. 2, p. 184-219., Registrované v: WOS

4. [1.1] SRAMKOVA, P. - ZAHORANOVA, A. - KELAR, J. - TUCEKOVA, Z.K. - STUPAVSKA, M. - KRUMPOLEC, R. - JURMANOVA, J. - KOVACIK, D. - CERNAK, M. Cold atmospheric pressure plasma: simple and efficient strategy for preparation of poly(2-oxazoline)-based coatings designed for biomedical applications. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 11 2020, vol. 10, no. 1., Registrované v: WOS

5. [1.1] XU, X.W. - JERCA, F.A. - VAN HECKE, K. - JERCA, V.V. - HOOGENBOOM, R. High compression strength single network hydrogels with pillar[5]arene junction points. In MATERIALS HORIZONS. ISSN 2051-6347, 2020, vol. 7, no. 2, p. 566-573., Registrované v: WOS

ADCA354 KRUPIČKA, Martin - TVAROŠKA, Igor. Hybrid quantum mechanical/molecular mechanical investigation of the β -1,4-galactosyltransferase-I mechanism. In Journal of Physical Chemistry B, 2009, vol. 113, p. 11314-11319. (2008: 4.189 - IF, Q1 - JCR, 2.580 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp904716t>

Citácie:

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

2. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-I can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

3. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO. Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS

ADCA355 KŠONŽEKOVÁ, Petra - BYSTRICKÝ, Peter - VLČKOVÁ, Silvia - PÄTOPRSTÝ, Vladimír - PULZOVÁ, Lucia - MUDROŇOVÁ, Dagmar - KUBAŠKOVÁ, Terézia - CSANK, Tomáš - TKÁČIKOVÁ, Ľudmila. Exopolysaccharides of Lactobacillus reuteri: their influence on adherence of E. coli to epithelial cells and inflammatory. In Carbohydrate Polymers, 2016, vol. 141, p. 10-19. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2015.12.037>

Citácie:

1. [1.1] HAN, Rui - WANG, Li - ZHAO, Zhengang - YOU, Lijun - PEDISIC, Sandra - KULIKOUSKAYA, Viktoryia - LIN, Zhiqi. Polysaccharide from

- Gracilaria Lemaneiformis* prevents colitis in Balb/c mice via enhancing intestinal barrier function and attenuating intestinal inflammation. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 109, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.106048>., Registrované v: WOS
2. [1.1] PYCLIK, Marcelina - SRUTKOVA, Dagmar - SCHWARZER, Martin - GORSKA, Sabina. Bifidobacteria cell wall-derived exo-polysaccharides, lipoteichoic acids, peptidoglycans, polar lipids and proteins their chemical structure and biological attributes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 147, no., pp. 333-349. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.227>., Registrované v: WOS
3. [1.1] REN, Chengcheng - FAAS, Marijke M. - DE VOS, Paul. Disease managing capacities and mechanisms of host effects of lactic acid bacteria. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 61, no. 8, pp. 1365-1393. Dostupné na: <https://doi.org/10.1080/10408398.2020.1758625>., Registrované v: WOS
- ADCA356 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - ZELKO, Ivan - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides alleviate cadmium stress in Arabidopsis. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2014, vol. 171, p. 518-524. (2013: 2.770 - IF, Q1 - JCR, 1.099 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0176-1617. Dostupné na: <https://doi.org/10.1016/j.jplph.2013.12.012>
- Citácie:
1. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In *PLANT AND SOIL*. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>., Registrované v: WOS
2. [1.1] MAIA, Rachel Alves - MACIEL, Lidyane Souto - MOREIRA, Renato de Azevedo. TECHNOLOGICAL FORECASTING: OLIGOSACCHARIDES IN AGRICULTURAL PREPARATIONS. In *REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS*. ISSN 2237-0722, 2020, vol. 10, no. 1, pp. 5289-5301. Dostupné na: <https://doi.org/10.7198/geintec.v10i1.1192>., Registrované v: WOS
- ADCA357 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. Interaction of galactoglucomannan oligosaccharides with auxin involves changes in flavonoid accumulation. In *Plant Physiology and Biochemistry*, 2016, vol. 98, p. 155-161. (2015: 2.928 - IF, Q1 - JCR, 1.185 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2015.11.023>
- Citácie:
1. [1.1] KABIR, Mahjabin - HARUKI, Naruke - RAJAGOPALAN, UmaMaheswari - UMEHARA, Mikihiisa - KADONO, Hirofumi. Nanometer accuracy statistical interferometric technique in monitoring the short-term effects of exogenous plant hormones, auxin and gibberellic acid, on rice plants. In *PLANT BIOTECHNOLOGY*. ISSN 1342-4580, 2020, vol. 37, no. 3, pp. 261-271. Dostupné na: <https://doi.org/10.5511/plantbiotechnology.20.0225c>., Registrované v: WOS
2. [1.1] RAJAGOPALAN, Uma Maheswari - KADONO, Hirofumi - KABIR,

Mahjabin. Ultrahigh accurate statistical interferometric technique utilizing uniformity of speckle phase in the study of plant physiology. In OPTICAL INTERACTIONS WITH TISSUE AND CELLS XXXI. ISSN 0277-786X, 2020, vol. 11238, no., pp. Dostupné na: <https://doi.org/10.1117/12.2543973>, Registrované v: WOS

3. [1.1] VILASBOA, Johnatan - DA COSTA, Cibeles Tesser - MATSUURA, Helio Nitta - FETT-NETO, Arthur Germano. Rooting of cuttings of *Passiflora suberosa*, a medicinal passion fruit species: characterization and modulation by external biochemical factors. In ISRAEL JOURNAL OF PLANT SCIENCES. ISSN 0792-9978, 2020, vol. 67, no. 1-2, pp. 40-51. Dostupné na: <https://doi.org/10.1163/22238980-20191114>, Registrované v: WOS

ADCA358 KUČEROVÁ, Danica, Richterová - LABANCOVÁ, Eva - VATEHOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin**. The modulation of ion homeostasis by silicon in cadmium treated poplar callus cells. In Environmental Science and Pollution Research, 2020, vol. 27, p. 2857-2867. (2019: 3.056 - IF, Q2 - JCR, 0.788 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-019-07054-1>

Citácie:

1. [1.1] WANG, Gang - YANG, Dan - ZHANG, Yue - LI, Qian - JI, Jing - JIN, Chao - WU, Guangxia - GUAN, Chunfeng. Na⁺/H⁺ antiporter (NHX1) positively enhances cadmium (Cd) resistance and decreases Cd accumulation in tobacco plants cultivated in Cd-containing soil. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 453, no. 1-2, pp. 389-408. Dostupné na: <https://doi.org/10.1007/s11104-020-04601-5>, Registrované v: WOS

ADCA359 KULCINSKAJA, Evelina - ROSENGREN, Anna - IBRAHIM, Romany - KOLENOVÁ, Katarína - STÅLBRAND, Henrik. Expression and characterization of a Bifidobacterium adolescentis beta-mannanase carrying mannan-binding and cell association motifs. In Applied and Environmental Microbiology, 2013, vol. 79, p. 133-140. (2012: 3.678 - IF, Q1 - JCR, 1.966 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.02118-12>

Citácie:

1. [1.1] RIBEIRO, Camila - HENNEN-BIERWAGEN, Tracie A. - MYERS, Alan M. - CLINE, Kenneth - SETTLES, A. Mark. Engineering 6-phosphogluconate dehydrogenase improves grain yield in heat-stressed maize. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 52, pp. 33177-33185. Dostupné na: <https://doi.org/10.1073/pnas.2010179117>, Registrované v: WOS

ADCA360 KUMARI, Manju - KOZMON, Stanislav - KULHÁNEK, Petr - ŠTĚPÁN, Jakub - TVAROŠKA, Igor - KOČA, Jaroslav. Exploring reaction pathways for O-GlcNAc transferase catalysis. A string method study. In Journal of Physical Chemistry B, 2015, vol. 119, p. 4371-4381. (2014: 3.302 - IF, Q2 - JCR, 1.449 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp511235f>

Citácie:

1. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5'; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>, Registrované v: WOS

2. [1.1] KOTEV, Martin - SARRAT, Laurie - GONZALEZ, Constantino Diaz.

- User-Friendly Quantum Mechanics: Applications for Drug Discovery. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 231-255. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_15, Registrované v: WOS*
- ADCA361 KUTSCHY, P. - SABOL, Marián - MARUŠKOVÁ, R. - ČURILLOVÁ, Zuzana - DZURILLA, M. - GÉCI, I. - ALFÖLDY, Juraj - KOVÁČIK, Vladimír. A linear synthesis of 1-(β-D-glucopyranosyl)-brassinin, -brassenin A, -brassenin B and 9-(β-D-glucopyranosyl)cyclobraassinin. In Collection of Czechoslovak Chemical Communications, 2004, vol.69, no., p.850-866. (2003: 1.041 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0010-0765.
- Citácie:
1. [1.1] BUDOVSKA, Mariana - TISCHLEROVA, Viera - MOJZIS, Jan - KOZLOV, Oleksandr - GONDOVA, Tatana. An alternative approach to the synthesis of anticancer molecule spirobrassinin and its 2'-amino analogues. In MONATSHFTE FUR CHEMIE. ISSN 0026-9247, 2020, vol. 151, no. 1, pp. 63-77. Dostupné na: <https://doi.org/10.1007/s00706-019-02528-x>, Registrované v: WOS
- ADCA362 KUTSCHY, P. - SUCHÝ, M. - DZURILLA, M. - TAKASUGI, M. - KOVÁČIK, Vladimír. Anex approach to imidazo[1,5-a]indole derivatives. In Collection of Czechoslovak Chemical Communications, 2000, vol. 65, p. 1163-1172. (2000 - Current Contents). ISSN 0010-0765.
- Citácie:
1. [1.1] PENG, Han-Ying - WU, Yu-Xi - DONG, Zhi-Bing. Cs₂CO₃-Promoted C(sp²)-N Formation of Dimethyl Thiocarbamate-Protected Indoles Using Tetramethylthiuram Monosulfide (TMTM). In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2020, vol. 52, no. 1, pp. 135-140. Dostupné na: <https://doi.org/10.1055/s-0039-1690214>, Registrované v: WOS
- ADCA363 KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - HUSHEGYI, András - DAMBORSKÝ, Pavel - BLIXT, Ola - JANSSON, Bo - TKÁČ, Ján. Optimization of the small glycan presentation for binding a tumor-associated antibody: Application to the construction of an ultrasensitive glycan biosensor. In Langmuir, 2017, vol. 33, p. 2709-2716. (2016: 3.833 - IF, Q1 - JCR, 1.559 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.6b04021>
- Citácie:
1. [1.1] LORENCOVA, Lenka. Functional Nanomaterials in Sensing and Biosensing Applications. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 109-167., Registrované v: WOS
- ADCA364 KYLLI, P. - NOUSIAINEN, P. - BIELY, Peter - SIPILA, J. - TENKANEN, M. - HEINONEN, M. Antioxidant potential of hydroxycinnamic acid glycoside esters. In Journal of agricultural and food chemistry, 2008, vol. 56, p. 4797-4805. (2007: 2.532 - IF, Q1 - JCR, 1.252 - SJR, Q1 - SJR). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf800317v>
- Citácie:
1. [1.1] BARBOSA LIMA, Larissa Gabrielly - MONTENEGRO, Julia - DE ABREU, Joel Pimentel - BARROS SANTOS, Millena Cristina - DO NASCIMENTO, Talita Pimenta - SANTOS, Maiara da Silva - FERREIRA, Antonio Gilberto - CAMERON, Luiz Claudio - LARRAZ FERREIRA, Mariana Simoes - TEODORO, Anderson Junger. Metabolite Profiling by UPLC-MSE, NMR, and Antioxidant Properties of Amazonian Fruits: Mamey Apple (*Mammea Americana*), Camapu (*Physalis Angulata*), and Uxi (*Endopleura Uchi*). In

MOLECULES, 2020, vol. 25, no. 2, pp. Dostupné na:

<https://doi.org/10.3390/molecules25020342>., Registrované v: WOS

2. [1.1] ROMANOS-NANCLARES, Andrea - SANCHEZ-QUESADA, Cristina - GARDEAZABAL, Itziar - ANGEL MARTINEZ-GONZALEZ, Miguel - GEA, Alfredo - TOLEDO, Estefania. Phenolic Acid Subclasses, Individual Compounds, and Breast Cancer Risk in a Mediterranean Cohort: The SUN Project. In *JOURNAL OF THE ACADEMY OF NUTRITION AND DIETETICS*. ISSN 2212-2672, 2020, vol. 120, no. 6, pp. 1002-+. Dostupné na:

<https://doi.org/10.1016/j.j.2019.11.007>., Registrované v: WOS

3. [1.1] YUN, Ui Jeong - YANG, Dong Kwon. Sinapic Acid Inhibits Cardiac Hypertrophy via Activation of Mitochondrial Sirt3/SOD2 Signaling in Neonatal Rat Cardiomyocytes. In *ANTIOXIDANTS*, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/antiox9111163>., Registrované v: WOS

- ADCA365 LÁSZLOVÁ, Katarína** - DUDÁŠOVÁ, Hana - OLEJNÍKOVÁ, Petra - HORVÁTHOVÁ, Gabriela - VELICKÁ, Zuzana - HORVÁTHOVÁ, Hana - DERCOVÁ, Katarína. The application of biosurfactants in bioremediation of the aged sediment contaminated with polychlorinated biphenyls. In *Water, Air and Soil Pollution*, 2018, vol. 229, iss. 7, art. no. 219, 18 p. (2017: 1.769 - IF, Q3 - JCR, 0.589 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0049-6979. Dostupné na: <https://doi.org/10.1007/s11270-018-3872-4>

Citácie:

1. [1.1] STELIGA, Teresa - WOJTOWICZ, Katarzyna - KAPUSTA, Piotr - BRZESZCZ, Joanna. Assessment of Biodegradation Efficiency of Polychlorinated Biphenyls (PCBs) and Petroleum Hydrocarbons (TPH) in Soil Using Three Individual Bacterial Strains and Their Mixed Culture. In *MOLECULES*, 2020, vol. 25, no. 3, pp. Dostupné na: <https://doi.org/10.3390/molecules25030709>., Registrované v: WOS

2. [1.1] WOJTOWICZ, Katarzyna - STELIGA, Teresa. Study on bioremediation of soil contaminated with polychlorinated biphenyls (PCBs). In *NAFTA-GAZ*. ISSN 0867-8871, 2020, vol., no. 8, pp. 507-516. Dostupné na: <https://doi.org/10.18668/NG.2020.08.03>., Registrované v: WOS

- ADCA366 LEE, H. - BIELY, Peter - LATTA, R.K. - BARBOSA, M.F.S. - SCHNEIDER, H. Utilization of xylan by yeasts and its conversion to ethanol by *Pichia stipitis* strains. In *Applied and Environmental Microbiology*, 1986, vol. 52, p. 320-324. ISSN 0099-2240.

Citácie:

1. [1.1] CANDIDO, Joao Paulo - CLARO, Elis Marina Turini - DE PAULA, Carolina Bilia Chimello - SHIMIZU, Felipe Lange - LEITE, Dilza Aparecida Nalin de Oliveria - BRIENZO, Michel - DE ANGELIS, Dejanira de Franceschi. Detoxification of sugarcane bagasse hydrolysate with different adsorbents to improve the fermentative process. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2020, vol. 36, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s11274-020-02820-7>., Registrované v: WOS

- ADCA367 LEE, Jisun - LEE, Seul - SYNYSYA, Andriy - CAPEK, Peter - LEE, Chang Won - CHOI, Ji Won - CHO, Sarang - KIM, Woo Jung - PARK, Yong Il**. Low molecular weight mannogalactofucans derived from *Undaria pinnatifida* induce apoptotic death of human prostate cancer cells In vitro and In vivo. In *Marine Biotechnology : An International Journal Focusing on Marine Genomics, Molecular Biology and Biotechnology*, 2018, vol. 20, p. 813-828. (2017: 2.328 - IF, Q1 - JCR, 0.894 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1436-2228. Dostupné na: <https://doi.org/10.1007/s10126-018-9851-3>

Citácie:

1. [1.1] TERASAKI, Masaru - KURAMITSU, Yasuhiro - KOJOMA, Mareshige - KIM, Sang-Yong - TANAKA, Takuji - MAEDA, Hayato - MIYASHITA, Kazuo - KAWAGOE, Chikara - KOHNO, Shoui - MUTOH, Michihiro. High fucoxanthin wakame (*Undaria pinnatifida*) prevents tumor microenvironment formation in an AOM/DSS mouse carcinogenic model. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2020, vol. 64, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2019.103709>., Registrované v: WOS
 2. [1.1] TORRES, M. D. - FLOREZ-FERNANDEZ, N. - SIMON-VAZQUEZ, R. - GIMENEZ-ABIAN, J. F. - DIAZ, J. F. - GONZALEZ-FERNANDEZ, A. - DOMINGUEZ, H. *Fucoidans: The importance of processing on their anti-tumoral properties*. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*. ISSN 2211-9264, 2020, vol. 45, no., pp. Dostupné na: <https://doi.org/10.1016/j.algal.2019.101748>., Registrované v: WOS
- ADCA368 LEVISSON, Mark - HAN, Gye Won - DELLER, Marc C. - XU, Qingping - BIELY, Peter - HENDRIKS, Sjon - EYCK, Lynn F. Ten - FLENSBURG, Claus - ROVERSI, Pietro - MILLER, Mitchell D. - MCMULLAN, Daniel - KREUSCH, Andreas - DEACON, Ashley M. - VAN DER OOST, John - LESLEY, Scott A. - ELSLIGER, Marc-Anfré - KENGGEN, Servé W.M. - WILSON, Ian A. Functional and structural characterization of a thermostable acetyl esterase from *Thermotoga maritima*. In *Proteins : Structure Function and Bioinformatics*, 2012, p. 1545-1559. (2011: 3.392 - IF, Q2 - JCR, 2.012 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0887-3585. Dostupné na: <https://doi.org/10.1002/prot.24041>
- Citácie:
1. [1.1] ALI, Sikander - MAHMOOD, Saba. *Mutagenesis of a Thermophilic Alkalibacillus flavidus for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 7, pp. 3327-3335. Dostupné na: <https://doi.org/10.1007/s12649-019-00665-2>., Registrované v: WOS
 2. [1.1] DING, Junmei - ZHOU, Yang - ZHU, Hujie - DENG, Ming - GAO, Yanxiu - YANG, Yunjuan - HUANG, Zunxi. *Characterization of EstZY: A new acetylcylase with 7-aminocephalosporanic acid deacetylase activity from Alicyclobacillus tengchongensis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 148, no., pp. 333-341. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.151>., Registrované v: WOS
 3. [1.1] KIM, Min-Jeong - JANG, Myoung-Uoon - NAM, Gyeong-Hwa - SHIN, Heeji - SONG, Jeong-Rok - KIM, Tae-Jip. *Functional Expression and Characterization of Acetyl Xylan Esterases CE Family 7 from Lactobacillus antri and Bacillus halodurans*. In *JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 1017-7825, 2020, vol. 30, no. 2, pp. 155-162. Dostupné na: <https://doi.org/10.4014/jmb.2001.01004>., Registrované v: WOS
 4. [1.1] ZHOU, Xiyi - ZHANG, Long - WEI, Ling - CAI, Jun - CHEN, Kai - JIANG, Jiandong. *Characterization of an enantioselective esterase from the quinaldine-ethyl-transforming strain of Sphingobium sp. QE-1*. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibiod.2020.105104>., Registrované v: WOS
- ADCA369 LI, X.-L. - ŠPÁNIKOVÁ, Silvia - DE VRIES, R.P. - BIELY, Peter. Identification of genes encoding microbial glucuronoyl esterases. In *FEBS Letters*, 2007, vol. 581, p. 4029-4035. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2007.07.041>
- Citácie:

1. [1.1] DUAN, Cheng-Jie - BASLE, Arnaud - LIBERATO, Marcelo Visona - GRAY, Joseph - NEPOGODIEV, Sergey A. - FIELD, Robert A. - JUGE, Nathalie - NDEH, Didier. *Ascertaining the biochemical function of an essential pectin methylesterase in the gut microbe Bacteroides thetaiotaomicron*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2020, vol. 295, no. 52, pp. 18625-18637. Dostupné na: <https://doi.org/10.1074/jbc.RA120.014974>., Registrované v: WOS
 2. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. *The structural basis of fungal glucuronoyl esterase activity on natural substrates*. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
- ADCA370 LI, X.L. - SKORY, C.D. - COTTA, M.A. - PUCHART, Vladimír - BIELY, Peter. Novel family of carbohydrate esterases, based on identification of the *Hypocrea jecorina* acetyl esterase gene. In *Applied and Environmental Microbiology*, 2008, vol.74, p. 7482-7489. (2007: 4.004 - IF, Q1 - JCR, 2.036 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.00807-08>
- Citácie:
1. [1.1] BAMFORD, Natalie C. - LE MAUFF, Francois - VAN LOON, Jaime C. - OSTAPSKA, Hanna - SNARR, Brendan D. - ZHANG, Yongzhen - KITOVA, Elena N. - KLASSEN, John S. - CODEE, Jeroen D. C. - SHEPPARD, Donald C. - HOWELL, P. Lynne. *Structural and biochemical characterization of the exopolysaccharide deacetylase Agd3 required for Aspergillus fumigatus biofilm formation*. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-16144-5>., Registrované v: WOS
 2. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. *Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>., Registrované v: WOS
- ADCA371 LINEK, K. - ALFOLDI, Juraj - DEFAYE, J. Structure of glycosylamines and diglycosylamines in the arabinose, mannose, and rhamnose series. In *Carbohydrate Research*, 1993, vol. 164, p. 329-335. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(93\)84267-A](https://doi.org/10.1016/0008-6215(93)84267-A)
- Citácie:
1. [1.1] YUAN, Qi - LIU, Bing-Bing - SONG, Xian-Liang. *The influences of monosaccharide structure on power generation performance*. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 857, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113753>., Registrované v: WOS
- ADCA372 LÍŠKA, Denis - MARTINKA, Michal - KOHANOVÁ, Jana - LUX, Alexander. Asymmetrical development of root endodermis and exodermis in reaction to abiotic stresses. In *Annals of Botany*, 2016, vol. 118, no. 4, p. 667-674. (2015: 3.982 - IF, Q1 - JCR, 1.904 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcw047>
- Citácie:
1. [1.1] NAMYSLOV, J. - BAURIEDLOVA, Z. - JANOUSKOVA, J. - SOUKUP, A. - TYLOVA, E. *Exodermis and Endodermis Respond to Nutrient Deficiency in Nutrient-Specific and Localized Manner*. In *PLANTS-BASEL*. FEB 2020, vol. 9,

no. 2., Registrované v: WOS

2. [1.1] WANG, X.Y. - ZHANG, Y.M. - WANG, L.Y. - PAN, Z.E. - HE, S.P. - GAO, Q. - CHEN, B.J. - GONG, W.F. - DU, X.M. Casparian strip membrane domain proteins in *Gossypium arboreum*: genome-wide identification and negative regulation of lateral root growth. In *BMC GENOMICS*. ISSN 1471-2164, MAY 4 2020, vol. 21, no. 1., Registrované v: WOS

ADCA373 LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin - RICHTEROVÁ, Danica, Richterová - VATEHOVÁ, Zuzana, Vatehová - ZELKO, Ivan - LUX, Alexander - VAN STADEN, Johannes. Alternatives to improve long-term cultures of *Harpagophytum procumbens* in vitro. In *South African Journal of Botany*, 2016, vol. 104, p. 55-60. (2015: 1.244 - IF, Q3 - JCR, 0.498 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0254-6299. Dostupné na: <https://doi.org/10.1016/j.sajb.2015.10.008>

Citácie:

1. [1.1] SHOOTO, Ntaote David. Removal of lead(II) and chromium(VI) ions from synthetic wastewater by the roots of *harpagophytum procumbens* plant. In *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*, 2020, vol. 8, no. 6, pp. Dostupné na: <https://doi.org/10.1016/j.jece.2020.104541>., Registrované v: WOS

2. [1.1] TEIXEIRA DA SILVA, Jaime A. - NEZAMI-ALANAGH, Esmaeil - BARREAL, Maria E. - KHER, Mafatlal M. - WICAKSONO, Adhityo - GULYAS, Andrea - HIDVEGI, Norbert - MAGYAR-TABORI, Katalin - MENDLER-DRIENYOVSZKI, Nora - MARTON, Laszlo - LANDIN, Mariana - GALLEGÓ, Pedro Pablo - DRIVER, John A. - DOBRANSZKI, Judit. Shoot tip necrosis of in vitro plant cultures: a reappraisal of possible causes and solutions. In *PLANTA*. ISSN 0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03449-4>., Registrované v: WOS

3. [1.2] KADLECOVÁ, Eliška - BARÁNEK, Miroslav - MAGNÚS, Samuel - GAZDÍK, Filip. The effects of potassium silicate as a component of nutrient medium for selected in vitro cultures of *Prunus* and *Corylus* genera. In *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*. ISSN 12118516, 2020-01-01, 68, 5, pp. 851-857. Dostupné na: <https://doi.org/10.11118/actaun202068050851>., Registrované v: SCOPUS

ADCA374 LORENCOVÁ, Lenka - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika - ŠEDIVÁ, Alena - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica - SASINKOVÁ, Vlasta - FILIP, Jaroslav - KASÁK, Peter - JERIGOVÁ, Monika - VELIČ, Dušan - MAHMOUD, Khaled A. - TKÁČ, Ján. Electrochemical performance of Ti3C2TX MXene in aqueous media: towards ultrasensitive H2O2 sensing. In *Electrochimica Acta*, 2017, vol. 235, p. 471-479. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0013-4686. Dostupné na: <https://doi.org/10.1016/j.electacta.2017.03.073>

Citácie:

1. [1.1] AAKYIIR, Mathias - YU, Huimin - ARABY, Sherif - WANG RUOYU - MICHELMORE, Andrew - MENG, Qingshi - LOSIC, Dusan - CHOUDHURY, Namita Roy - MA, Jun. Electrically and thermally conductive elastomer by using MXene nanosheets with interface modification. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2020, vol. 397, no., pp. Dostupné na: <https://doi.org/10.1016/j.cej.2020.125439>., Registrované v: WOS

2. [1.1] AL-ANTAKI, Ahmed Hussein Mohammed - ALHARBI, Thaar M. D. - KELLICI, Suela - POWER, Nicholas P. - LAWRENCE, Warren - RASTON, Colin L. Vortex fluidic mediated synthesis of TiO2 nanoparticle/MXene composites. In *CHEMNANOMAT*. ISSN 2199-692X, 2020, vol. 6, no. 4, pp. 657-662. Dostupné

- na: <https://doi.org/10.1002/cnma.201900779>., Registrované v: WOS
3. [1.1] AL-TEMIMY, Ameer - PRENGER, Kaitlyn - GOLNAK, Ronny - LOUNASVUORI, Mailis - NAGUIB, Michael - PETIT, Tristan. Impact of Cation Intercalation on the Electronic Structure of Ti_3C_2Tx MXenes in Sulfuric Acid. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2020, vol. 12, no. 13, pp. 15087-15094. Dostupné na: <https://doi.org/10.1021/acsami.9b22122>., Registrované v: WOS
4. [1.1] CHIA, Hui Ling - MAYORGA-MARTINEZ, Carmen C. - ANTONATOS, Nikolas - SOFER, Zdenek - GONZALEZ-JULIAN, Jesus J. - WEBSTER, Richard D. - PUMERA, Martin. MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 3, pp. 2452-2459. Dostupné na: <https://doi.org/10.1021/acs.analchem.9b03634>., Registrované v: WOS
5. [1.1] DANG, Yuan - GUAN, Xin - ZHOU, Yuanzhen - HAO, Chentao - ZHANG, Yu - CHEN, Shuangli - MA, Yao - BAI, Yunjie - GONG, Yongkuan - GAO, Yaru. Biocompatible PB/Ti $3C_2$ hybrid nanocomposites for the nonenzymatic electrochemical detection of H_2O_2 released from living cells. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 319, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128259>., Registrované v: WOS
6. [1.1] DESHMUKH, Kalim - KOVARIK, Tomas - PASHA, S. K. Khadheer. State of the art recent progress in two dimensional MXenes based gas sensors and biosensors: A comprehensive review. In *COORDINATION CHEMISTRY REVIEWS*. ISSN 0010-8545, 2020, vol. 424, no., pp. Dostupné na: <https://doi.org/10.1016/j.ccr.2020.213514>., Registrované v: WOS
7. [1.1] FIRESTEIN, Konstantin L. - VON TREIFELDT, Joel E. - KVASHNIN, Dmitry G. - FERNANDO, Joseph F. S. - ZHANG, Chao - KVASHNIN, Alexander G. - PODRYABINKIN, Evgeny - SHAPEEV, Alexander - SIRIWARDENA, Dumindu P. - SOROKIN, Pavel B. - GOLBERG, Dmitri. Young's Modulus and Tensile Strength of Ti_3C_2 MXene Nanosheets As Revealed by In Situ TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. In *NANO LETTERS*. ISSN 1530-6984, 2020, vol. 20, no. 8, pp. 5900-5908. Dostupné na: <https://doi.org/10.1021/acs.nanolett.0c01861>., Registrované v: WOS
8. [1.1] GAO, Yijing - CAO, Yongyong - ZHUO, Han - SUN, Xiang - GU, Yongbing - ZHUANG, Guilin - DENG, Shengwei - ZHONG, Xing - WEI, Zhongzhe - LI, Xiaonian - WANG, Jian-guo. Mo_2TiC_2 MXene: A Promising Catalyst for Electrocatalytic Ammonia Synthesis. In *CATALYSIS TODAY*. ISSN 0920-5861, 2020, vol. 339, no., pp. 120-126. Dostupné na: <https://doi.org/10.1016/j.cattod.2018.12.029>., Registrované v: WOS
9. [1.1] HE, Ying - ZHOU, Xitong - ZHOU, Liya - ZHANG, Xiaoning - MA, Li - JIANG, Yanjun - GAO, Jing. Self-Reducing Prussian Blue on Ti_3C_2Tx MXene Nanosheets as a Dual-Functional Nanohybrid for Hydrogen Peroxide and Pesticide Sensing. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 35, pp. 15556-15564. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c02154>., Registrované v: WOS
10. [1.1] JIANG, Xiantao - KUKLIN, Artem - BAEV, Alexander - GE, Yanqi - AGREN, Hans - ZHANG, Han - PRASAD, Paras N. Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. In *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*. ISSN 0370-1573, 2020, vol. 848, no., pp. Dostupné na: <https://doi.org/10.1016/j.physrep.2019.12.006>., Registrované v: WOS
11. [1.1] KOKULNATHAN, Thangavelu - KUMAR, Elumalai Ashok - WANG, Tzyy-Jiann. Design and In Situ Synthesis of Titanium Carbide/Boron Nitride

- Nanocomposite: Investigation of Electrocatalytic Activity for the Sulfadiazine Sensor. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 33, pp. 12471-12481. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c03281>., Registrované v: WOS*
12. [1.1] KUMAR, Elumalai Ashok - KOKULNATHAN, Thangavelu - WANG, Tzyy-Jiann - ANTHUVAN, Allen Joseph - CHANG, Yu-Hsu. Two-dimensional titanium carbide (MXene) nanosheets as an efficient electrocatalyst for 4-nitroquinoline N-oxide detection. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2020, vol. 312, no., pp. Dostupné na: <https://doi.org/10.1016/j.molliq.2020.113354>., Registrované v: WOS
13. [1.1] KUMAR, Rajeev - PAL, Sarika - VERMA, Alka - PRAJAPATI, Y. K. - SAINI, J. P. Effect of silicon on sensitivity of SPR biosensor using hybrid nanostructure of black phosphorus and MXene. In SUPERLATTICES AND MICROSTRUCTURES. ISSN 0749-6036, 2020, vol. 145, no., pp. Dostupné na: <https://doi.org/10.1016/j.spmi.2020.106591>., Registrované v: WOS
14. [1.1] LEVITT, Ariana - ZHANG, Jizhen - DION, Genevieve - GOGOTSI, Yury - RAZAL, Joselito M. MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2020, vol. 30, no. 47, pp. Dostupné na: <https://doi.org/10.1002/adfm.202000739>., Registrované v: WOS
15. [1.1] LI, Xian - XU, Jianlong - JIANG, Yadong - HE, Zaizhou - LIU, Bohao - XIE, Haikuan - LI, Hu - LI, Zhemin - WANG, Yang - TAI, Huiling. Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti3C2Tx hybrid sensitive films based gas sensor. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 316, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128144>., Registrované v: WOS
16. [1.1] LIU, Chengbin - HAO, Sabei - CHEN, Xiaoyan - ZONG, Boyang - MAO, Shun. High Anti-Interference Ti3C2Tx MXene Field-Effect-Transistor-Based Alkali Indicator. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 29, pp. 32970-32978. Dostupné na: <https://doi.org/10.1021/acsami.0c09921>., Registrované v: WOS
17. [1.1] MA BAO-KAI - LI MIAN - CHEONG LING-ZHI - WENG XIN-CHU - SHEN CAI - HUANG QING. Enzyme-MXene Nanosheets: Fabrication and Application in Electrochemical Detection of H2O2. In JOURNAL OF INORGANIC MATERIALS. ISSN 1000-324X, 2020, vol. 35, no. 1, pp. 131-+. Dostupné na: <https://doi.org/10.15541/jim20190139>., Registrované v: WOS
18. [1.1] MEDETALIBEYOGLU, Hilal - BEYTUR, Murat - AKYILDIRIM, Onur - ATAR, Necip - YOLA, Mehmet Lutfi. Validated electrochemical immunosensor for ultrasensitive prolactin detection: Carbon electrode modified with gold nanoparticles functionalized sulfur doped MXene as sensor platform and carboxylated graphitic carbon nitride as signal amplification. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 319, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128195>., Registrované v: WOS
19. [1.1] MOHAMMADNIAEI, Mohsen - KOYAPPAYIL, Aneesh - SUN, Yi - MIN, Junhong - LEE, Min-Ho. Gold nanoparticle/MXene for multiple and sensitive detection of oncomiRs based on synergetic signal amplification. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 159, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112208>., Registrované v: WOS
20. [1.1] RAMANAVICIUS, Simonas - RAMANAVICIUS, Arunas. Progress and Insights in the Application of MXenes as New 2D Nano-Materials Suitable for Biosensors and Biofuel Cell Design. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 23, pp. Dostupné na:

<https://doi.org/10.3390/ijms21239224>., Registrované v: WOS

21. [1.1] RASHEED, P. Abdul - PANDEY, Ravi P. - GOMEZ, Tricia - JABBAR, Khadeeja A. - PRENGER, Kaitlyn - NAGUIB, Michael - AISSA, Brahim - MAHMOUD, Khaled A. Nb-based MXenes for efficient electrochemical sensing of small biomolecules in the anodic potential. In *ELECTROCHEMISTRY COMMUNICATIONS*. ISSN 1388-2481, 2020, vol. 119, no., pp. Dostupné na: <https://doi.org/10.1016/j.elecom.2020.106811>., Registrované v: WOS
22. [1.1] SHUVO, Shoumya Nandy - GOMEZ, Ana Maria Ulloa - MISHRA, Avanish - CHEN, Winston Yenyu - DONGARE, Avinash M. - STANCIU, Lia A. Sulfur-Doped Titanium Carbide MXenes for Room-Temperature Gas Sensing. In *ACS SENSORS*. ISSN 2379-3694, 2020, vol. 5, no. 9, pp. 2915-2924. Dostupné na: <https://doi.org/10.1021/acssensors.0c01287>., Registrované v: WOS
23. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation detection platforms. In *HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS*, 2020, vol., no., pp. 361-372. Dostupné na: <https://doi.org/10.1016/B978-0-12-816699-4.00014-1>., Registrované v: WOS
24. [1.1] SOOMRO, Razium Ali - JAWAID, Sana - ZHU, Qizhen - ABBAS, Zaheer - XU, Bin. A mini-review on MXenes as versatile substrate for advanced sensors. In *CHINESE CHEMICAL LETTERS*. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 922-930. Dostupné na: <https://doi.org/10.1016/j.cclet.2019.12.005>., Registrované v: WOS
25. [1.1] SREENILAYAM, Sithara P. - UL AHAD, Inam - NICOLASI, Valeria - BRABAZON, Dermot. MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. In *MATERIALS TODAY*. ISSN 1369-7021, 2020, vol. 43, no., pp. 99-131. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.10.025>., Registrované v: WOS
26. [1.1] SZUPLEWSKA, Aleksandra - KULPINSKA, Dominika - DYBKO, Artur - CHUDY, Michal - JASTRZEBSKA, Agnieszka Maria - OLSZYNA, Andrzej - BRZOZKA, Zbigniew. Future Applications of MXenes in Biotechnology, Nanomedicine, and Sensors. In *TRENDS IN BIOTECHNOLOGY*. ISSN 0167-7799, 2020, vol. 38, no. 3, pp. 264-279. Dostupné na: <https://doi.org/10.1016/j.tibtech.2019.09.001>., Registrované v: WOS
27. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432. Dostupné na: <https://doi.org/10.1007/s12161-019-01652-y>., Registrované v: WOS
28. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432., Registrované v: WOS
29. [1.1] WANG, Yifan - XU, Yanheng - HU, Menglei - LING, Han - ZHU, Xi. MXenes: focus on optical and electronic properties and corresponding applications. In *NANOPHOTONICS*. ISSN 2192-8606, 2020, vol. 9, no. 7, pp. 1601-1620. Dostupné na: <https://doi.org/10.1515/nanoph-2019-0556>., Registrované v: WOS
30. [1.1] XU, Bingzhe - ZHI, Chunyi - SHI, Peng. Latest advances in MXene biosensors. In *JOURNAL OF PHYSICS-MATERIALS*, 2020, vol. 3, no. 3, pp.

- Dostupné na: <https://doi.org/10.1088/2515-7639/ab8f78>, Registrované v: WOS
 31. [1.1] ZHANG, Jizhen - KERR, Emily - USMAN, Ken Aldren S. - DOEVEN, Egan H. - FRANCIS, Paul S. - HENDERSON, Luke C. - RAZAL, Joselito M. Cathodic electrogenerated chemiluminescence of tris(2,2'-bipyridine)ruthenium(ii) and peroxydisulfate at pure Ti(3)C(2)T(x)MXene electrodes. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2020, vol. 56, no. 69, pp. 10022-10025. Dostupné na: <https://doi.org/10.1039/d0cc02993a>, Registrované v: WOS
 32. [1.1] ZHANG, Yiyang - ZHANG, Xilin - CHENG, Cheng - YANG, Zongxian. Recent progress of MXenes as the support of catalysts for the CO oxidation and oxygen reduction reaction. In *CHINESE CHEMICAL LETTERS*. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 931-936. Dostupné na: <https://doi.org/10.1016/j.ccllet.2019.12.010>, Registrované v: WOS
 33. [1.1] ZHAO, Fengnian - YAO, Yao - JIANG, Chengmei - SHAO, Yuzhou - BARCELO, Damia - YING, Yibin - PING, Jianfeng. Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2020, vol. 384, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2019.121358>, Registrované v: WOS

ADCA375 LORENCOVÁ, Lenka - BERTÓK, Tomáš** - FILIP, Jaroslav - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - MAHMOUD, Khaled A. - TKÁČ, Ján**. Highly stable Ti₃C₂T_x (MXene)/Pt nanoparticles-modified glassy carbon electrode for H₂O₂ and small molecules sensing applications. In *Sensors and Actuators B*, 2018, vol. 263, p. 360-368. (2017: 5.667 - IF, Q1 - JCR, 1.406 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0925-4005. Dostupné na: <https://doi.org/10.1016/j.snb.2018.02.124>

Citácie:

- [1.1] AL-ANTAKI, Ahmed Hussein Mohammed - ALHARBI, Thaar M. D. - KELLICI, Suela - POWER, Nicholas P. - LAWRENCE, Warren - RASTON, Colin L. Vortex fluidic mediated synthesis of TiO₂ nanoparticle/MXene composites. In *CHEMNANOMAT*. ISSN 2199-692X, 2020, vol. 6, no. 4, pp. 657-662. Dostupné na: <https://doi.org/10.1002/cnma.201900779>, Registrované v: WOS
- [1.1] DESHMUKH, Kalim - KOVARIK, Tomas - PASHA, S. K. Khadheer. State of the art recent progress in two dimensional MXenes based gas sensors and biosensors: A comprehensive review. In *COORDINATION CHEMISTRY REVIEWS*. ISSN 0010-8545, 2020, vol. 424, no., pp. Dostupné na: <https://doi.org/10.1016/j.ccr.2020.213514>, Registrované v: WOS
- [1.1] DUAN, Fenghe - GUO, Chuanpan - HU, Mengyao - SONG, Yingpan - WANG, Minghua - HE, Linghao - ZHANG, Zhihong - PETTINARI, Riccardo - ZHOU, Liming. Construction of the 0D/2D heterojunction of Ti₃C₂T_x MXene nanosheets and iron phthalocyanine quantum dots for the impedimetric aptasensing of microRNA-155. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.127844>, Registrované v: WOS
- [1.1] GAO, Lingfeng - LI, Chao - HUANG, Weichun - MEI, Shan - LIN, Han - OU, Qi - ZHANG, Ye - GUO, Jia - ZHANG, Feng - XU, Shixiang - ZHANG, Han. MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. In *CHEMISTRY OF MATERIALS*. ISSN 0897-4756, 2020, vol. 32, no. 5, pp. 1703-1747. Dostupné na: <https://doi.org/10.1021/acs.chemmater.9b04408>, Registrované v: WOS
- [1.1] HE, Ying - ZHOU, Xitong - ZHOU, Liya - ZHANG, Xiaoning - MA, Li - JIANG, Yanjun - GAO, Jing. Self-Reducing Prussian Blue on Ti₃C₂T_x MXene

- Nanosheets as a Dual-Functional Nanohybrid for Hydrogen Peroxide and Pesticide Sensing. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 35, pp. 15556-15564. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c02154>., Registrované v: WOS*
6. [1.1] JIANG, Xiantao - KUKLIN, Artem - BAEV, Alexander - GE, Yanqi - AGREN, Hans - ZHANG, Han - PRASAD, Paras N. Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. In PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS. ISSN 0370-1573, 2020, vol. 848, no., pp. Dostupné na: <https://doi.org/10.1016/j.physrep.2019.12.006>., Registrované v: WOS
7. [1.1] KALAMBATE, Pramod K. - DHANJAI - SINHA, Ankita - LI, Yankai - SHEN, Yue - HUANG, Yunhui. An electrochemical sensor for ifosfamide, acetaminophen, domperidone, and sumatriptan based on self-assembled MXene/MWCNT/chitosan nanocomposite thin film. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 7, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04366-9>., Registrované v: WOS
8. [1.1] LI, Xian - XU, Jianlong - JIANG, Yadong - HE, Zaizhou - LIU, Bohao - XIE, Haikuan - LI, Hu - LI, Zhemin - WANG, Yang - TAI, Huiling. Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti₃C₂Tx hybrid sensitive films based gas sensor. In SENSORS AND ACTUATORS B-CHEMICAL, 2020, vol. 316, no., pp. Dostupné na: <https://doi.org/10.1016/j.snb.2020.128144>., Registrované v: WOS
9. [1.1] MA BAO-KAI - LI MIAN - CHEONG LING-ZHI - WENG XIN-CHU - SHEN CAI - HUANG QING. Enzyme-MXene Nanosheets: Fabrication and Application in Electrochemical Detection of H₂O₂. In JOURNAL OF INORGANIC MATERIALS. ISSN 1000-324X, 2020, vol. 35, no. 1, pp. 131-+. Dostupné na: <https://doi.org/10.15541/jim20190139>., Registrované v: WOS
10. [1.1] RAMANAVICIUS, Simonas - RAMANAVICIUS, Arunas. Progress and Insights in the Application of MXenes as New 2D Nano-Materials Suitable for Biosensors and Biofuel Cell Design. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21239224>., Registrované v: WOS
11. [1.1] RASHEED, P. Abdul - PANDEY, Ravi P. - GOMEZ, Tricia - JABBAR, Khadeeja A. - PRENGER, Kaitlyn - NAGUIB, Michael - AISSA, Brahim - MAHMOUD, Khaled A. Nb-based MXenes for efficient electrochemical sensing of small biomolecules in the anodic potential. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2020, vol. 119, no., pp. Dostupné na: <https://doi.org/10.1016/j.elecom.2020.106811>., Registrované v: WOS
12. [1.1] SHI, Yu-e - HAN, Fei - XIE, Luoyuan - ZHANG, Chuanchuan - LI, Tianzi - WANG, Henggang - LAI, Wing-Fu - LUO, Shaojuan - WEI, Wei - WANG, Zhenguang - HUANG, Yang. A MXene of type Ti₃C₂Tx functionalized with copper nanoclusters for the fluorometric determination of glutathione. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4000-x>., Registrované v: WOS
13. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation detection platforms. In HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS, 2020, vol., no., pp. 361-372. Dostupné na: <https://doi.org/10.1016/B978-0-12-816699-4.00014-1>., Registrované v: WOS
14. [1.1] SINHA, Ankita - DHANJAI - MUGO, Samuel M. - CHEN, Jiping - LOKESH, Koodlur S. MXene-based sensors and biosensors: next-generation

- detection platforms. In *HANDBOOK OF NANOMATERIALS IN ANALYTICAL CHEMISTRY: MODERN TRENDS IN ANALYSIS*, 2020, vol., no., pp. 361-372., Registrované v: WOS
15. [1.1] SOOMRO, Razium Ali - JAWAID, Sana - ZHU, Qizhen - ABBAS, Zaheer - XU, Bin. A mini-review on MXenes as versatile substrate for advanced sensors. In *CHINESE CHEMICAL LETTERS*. ISSN 1001-8417, 2020, vol. 31, no. 4, pp. 922-930. Dostupné na: <https://doi.org/10.1016/j.cclet.2019.12.005>., Registrované v: WOS
16. [1.1] SREENILAYAM, Sithara P. - UL AHAD, Inam - NICOLASI, Valeria - BRABAZON, Dermot. MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. In *MATERIALS TODAY*. ISSN 1369-7021, 2020, vol. 43, no., pp. 99-131. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.10.025>., Registrované v: WOS
17. [1.1] SUN, Yan - ZHANG, Yimeng - ZHANG, HuiXin - LIU, Meiling - LIU, Yang. Integrating Highly Efficient Recognition and Signal Transition of g-C₃N₄ Embellished Ti₃C₂ MXene Hybrid Nanosheets for Electrogenenerated Chemiluminescence Analysis of Protein Kinase Activity. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 15, pp. 10668-10676. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c01776>., Registrované v: WOS
18. [1.1] TAN, Teng - JIANG, Xiantao - WANG, Cong - YAO, Baicheng - ZHANG, Han. 2D Material Optoelectronics for Information Functional Device Applications: Status and Challenges. In *ADVANCED SCIENCE*, 2020, vol. 7, no. 11, pp. Dostupné na: <https://doi.org/10.1002/advs.202000058>., Registrované v: WOS
19. [1.1] WANG, Guangxian - SUN, Jianfei - YAO, Yao - AN, Xingshuang - ZHANG, Hui - CHU, Guanglei - JIANG, Shui - GUO, Yemin - SUN, Xia - LIU, Yuan. Detection of Inosine Monophosphate (IMP) in Meat Using Double-Enzyme Sensor. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2020, vol. 13, no. 2, pp. 420-432. Dostupné na: <https://doi.org/10.1007/s12161-019-01652-y>., Registrované v: WOS
20. [1.1] YANEZ-SEDENO, Paloma - GONZALEZ-CORTES, Araceli - CAMPUZANO, Susana - PINGARRON, Jose Manuel. Multimodal/Multifunctional Nanomaterials in (Bio)electrochemistry: Now and in the Coming Decade. In *NANOMATERIALS*, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/nano10122556>., Registrované v: WOS
21. [1.1] YIN, Guang - WANG, Yu - WANG, Wei - YU, Dan. Multilayer structured PANI/MXene/CF fabric for electromagnetic interference shielding constructed by layer-by-layer strategy. In *COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS*. ISSN 0927-7757, 2020, vol. 601, no., pp. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2020.125047>., Registrované v: WOS
22. [1.1] YUAN, Xiaofang - ZHANG, Meng - WU, Yu. MXene-based Sensors for Detecting Human Physiological Information. In *SENSORS AND MATERIALS*. ISSN 0914-4935, 2020, vol. 32, no. 12, pp. 4047-4065. Dostupné na: <https://doi.org/10.18494/SAM.2020.2990>., Registrované v: WOS
23. [1.1] ZHANG, Chuang - MA, Ben - ZHOU, Yingke - WANG, Cheng. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 865, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114142>., Registrované v: WOS
24. [1.1] ZHAO, Fengnian - YAO, Yao - JIANG, Chengmei - SHAO, Yuzhou - BARCELO, Damia - YING, Yibin - PING, Jianfeng. Self-reduction bimetallic

nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 384, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2019.121358>., Registrované v: WOS

- ADCA376 LORENCOVÁ, Lenka - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - ŠEFCOVIČOVÁ, Jana - VIKARTOVSKÁ, Alica - PAPRÁKOVÁ, Lucia - GEMEINER, Pavol - KASÁK, Peter - TKÁČ, Ján**. 2D MXenes as perspective immobilization platforms for design of electrochemical nanobiosensors. In *Electroanalysis*, 2019, vol. 31, p. 1833-1844. (2018: 2.691 - IF, Q2 - JCR, 0.621 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1040-0397. Dostupné na: <https://doi.org/10.1002/elan.201900288>

Citácie:

1. [1.1] HUANG, Weichun - HU, Lanping - TANG, Yanfeng - XIE, Zhongjian - ZHANG, Han. Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. In *ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X*, 2020, vol. 30, no. 49, pp. Dostupné na:

<https://doi.org/10.1002/adfm.202005223>., Registrované v: WOS

2. [1.1] YUAN, Xiaofang - ZHANG, Meng - WU, Yu. MXene-based Sensors for Detecting Human Physiological Information. In *SENSORS AND MATERIALS. ISSN 0914-4935*, 2020, vol. 32, no. 12, pp. 4047-4065. Dostupné na:

<https://doi.org/10.18494/SAM.2020.2990>., Registrované v: WOS

- ADCA377 LORENCOVÁ, Lenka - BERTÓK, Tomáš - BERTÓKOVÁ, Anikó - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - VIKARTOVSKÁ, Alica - KASÁK, Peter** - TKÁČ, Ján**. Exosomes as a source of cancer biomarkers: Advances in electrochemical biosensing of exosomes. In *ChemElectroChem*, 2020, vol. 7, p. 1956-1973. (2019: 4.154 - IF, Q2 - JCR, 1.149 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2196-0216. Dostupné na: <https://doi.org/10.1002/celec.202000075>

Citácie:

1. [1.1] RIKKERT, L. G. - BEEKMAN, P. - CARO, J. - COUMANS, F. A. W. - ENCISO-MARTINEZ, A. - JENSTER, G. - LE GAC, S. - LEE, W. - VAN LEEUWEN, T. G. - LOOZEN, G. B. - NANOU, A. - NIEUWLAND, R. - OFFERHAUS, H. L. - OTTO, C. - PEGTEL, D. M. - PIONTEK, M. C. - VAN DER POL, E. - DE ROND, L. - ROOS, W. H. - SCHASFOORT, R. B. M. - WAUBEN, M. H. M. - ZUILHOF, H. - TERSTAPPEN, L. W. M. M. Cancer-ID: Toward Identification of Cancer by Tumor-Derived Extracellular Vesicles in Blood. In *FRONTIERS IN ONCOLOGY. ISSN 2234-943X*, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fonc.2020.00608>., Registrované v: WOS

- ADCA378 LORITO, M. - FARKAŠ, Vladimír - REBUFFAT, S. - BODO, B. - KUBICEK, C.P. Cell wall synthesis is a major target of mycoparasitic antagonism by *Trichoderma harzianum*. In *Journal of Bacteriology*, 1996, vol. 178, p. 6382-6385. ISSN 0021-9193. Dostupné na: <https://doi.org/10.1128/jb.178.21.6382-6385.1996>

Citácie:

1. [1.1] DE CARVALHO, Juliana Oliveira - BROLL, Valquiria - SOUZA MARTINELLI, Anne Helene - LOPES, Fernanda Cortez. Endophytic fungi: positive association with plants. In *MOLECULAR ASPECTS OF PLANT BENEFICIAL MICROBES IN AGRICULTURE*, 2020, vol., no., pp. 321-332. Dostupné na: <https://doi.org/10.1016/B978-0-12-818469-1.00026-2>., Registrované v: WOS

2. [1.1] LINDO, Laura - CARDOZA, Rosa E. - LORENZANA, Alicia - CASQUERO, Pedro A. - GUTIERREZ, Santiago. Identification of plant genes putatively involved in the perception of fungal ergosterol-squalene. In *JOURNAL*

- OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2020, vol. 62, no. 7, pp. 927-947. Dostupné na: <https://doi.org/10.1111/jipb.12862>., Registrované v: WOS
3. [1.1] SPECKBACHER, Verena - RUZSANYI, Veronika - MARTINEZ-MEDINA, Ainhoa - HINTERDOBLER, Wolfgang - DOPPLER, Maria - SCHREINER, Ulrike - BOEHMDORFER, Stefan - BECCACCIOLI, Marzia - SCHUHMACHER, Rainer - REVERBERI, Massimo - SCHMOLL, Monika - ZEILINGER, Susanne. The Lipoxxygenase Lox1 Is Involved in Light- and Injury-Response, Conidiation, and Volatile Organic Compound Biosynthesis in the Mycoparasitic Fungus *Trichoderma atroviride*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.02004>., Registrované v: WOS
4. [1.1] TAMANDEGANI, Parisa Rahimi - MARIK, Tamas - ZAFARI, Doustmorad - BALAZS, Dora - VAGVOLGYI, Csaba - SZEKERES, Andras - KREDICS, Laszlo. Changes in Peptaibol Production of *Trichoderma* Species during In Vitro Antagonistic Interactions with Fungal Plant Pathogens. In *BIOMOLECULES*, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/biom10050730>., Registrované v: WOS
5. [1.1] VICENTE, Isabel - BARONCELLI, Riccardo - MORAN-DIEZ, Maria Eugenia - BERNARDI, Rodolfo - PUNTONI, Grazia - HERMOSA, Rosa - MONTE, Enrique - VANNACCI, Giovanni - SARROCCO, Sabrina. Combined Comparative Genomics and Gene Expression Analyses Provide Insights into the Terpene Synthases Inventory in *Trichoderma*. In *MICROORGANISMS*, 2020, vol. 8, no. 10, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8101603>., Registrované v: WOS
6. [1.1] ZIN, Nur A. - BADALUDDIN, Noor A. Biological functions of *Trichoderma* spp. for agriculture applications. In *ANNALS OF AGRICULTURAL SCIENCE*. ISSN 0570-1783, 2020, vol. 65, no. 2, pp. 168-178. Dostupné na: <https://doi.org/10.1016/j.aoas.2020.09.003>., Registrované v: WOS

ADCA379 LUX, Alexander - VACULÍK, M. - MARTINKA, M. - LIŠKOVÁ, Desana - KULKARNI, M.G. - STIRK, W.A. - VAN STADEN, J. Cadmium induces hypodermal periderm formation in the roots of the monocotyledonous plant *Merwillia plumbea* (Lindl.) Speta. In *Annals of Botany*. - London : Oxford University Press, 2011, vol. 107, p. 285-292. (2010: 3.388 - IF, Q1 - JCR, 1.663 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcq240>

Citácie:

1. [1.1] HUANG, Xin - DUAN, Songpo - WU, Qi - YU, Min - SHABALA, Sergey. Reducing Cadmium Accumulation in Plants: Structure-Function Relations and Tissue-Specific Operation of Transporters in the Spotlight. In *PLANTS-BASEL*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/plants9020223>., Registrované v: WOS
2. [1.1] MATUSOVA, Radoslava - CARACH, Martin - LABUN, Pavol - SALAJ, Terezia. Physiological and structural responses of hybrid firs embryogenic tissue under cadmium stress. In *SOUTH AFRICAN JOURNAL OF BOTANY*. ISSN 0254-6299, 2020, vol. 131, no., pp. 240-249. Dostupné na: <https://doi.org/10.1016/j.sajb.2020.02.030>., Registrované v: WOS
3. [1.1] RAZA, Ali - HABIB, Madiha - KAKAVAND, Shiva Najafi - ZAHID, Zainab - ZAHRA, Noreen - SHARIF, Rahat - HASANUZZAMAN, Mirza. Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. In *BIOLOGY-BASEL*, 2020, vol. 9, no. 7, pp. Dostupné na: <https://doi.org/10.3390/biology9070177>., Registrované v: WOS

ADCA380 LUX, Alexander - LUKAČOVÁ, Zuzana - VACULÍK, Marek - ŠVUBOVÁ, Renáta

- KOHANOVÁ, Jana - SOUKUP, Milan - MARTINKA, Michal - BOKOR, Boris*. Silicification of root tissues. In *Plants*, 2020, vol. 9, no. 1, art. no. 111 [20] p. (2019: 2.762 - IF, Q1 - JCR, 0.877 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2223-7747. Dostupné na: <https://doi.org/10.3390/plants9010111>

Citácie:

1. [1.1] HUGHES, H.J. - HUNG, D.T. - SAUER, D. *Silicon recycling through rice residue management does not prevent silicon depletion in paddy rice cultivation. In NUTRIENT CYCLING IN AGROECOSYSTEMS. ISSN 1385-1314, SEP 2020, vol. 118, no. 1, p. 75-89., Registrované v: WOS*
2. [1.1] PIPERNO, D.R. - MCMICHAEL, C. *Phytoliths in modern plants from amazonia and the neotropics at large: Implications for vegetation history reconstruction. In QUATERNARY INTERNATIONAL. ISSN 1040-6182, NOV 10 2020, vol. 565, p. 54-74., Registrované v: WOS*

ADCA381 MACHOVÁ, Eva - FIAČANOVÁ, Lucia - ČÍŽOVÁ, Alžbeta - KORCOVÁ, Jana, Vráblová. Mannoproteins from yeast and hyphal form of *C. albicans* considerably differ in mannan and protein content. In *Carbohydrate Research*, 2015, vol. 408, p. 12-17. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2015.03.001>

Citácie:

1. [1.1] ISHCHUK, Olena P. - STERNER, Olov - ELLERVIK, Ulf - MANNER, Sophie. *Simple Carbohydrate Derivatives Diminish the Formation of Biofilm of the Pathogenic Yeast Candida albicans. In ANTIBIOTICS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na: https://doi.org/10.3390/antibiotics9010010., Registrované v: WOS*
2. [1.1] YOO, Yeon-Jee - KIM, A. Reum - PERINPANAYAGAM, Hiran - HAN, Seung Hyun - KUM, Kee-Yeon. *Candida albicans Virulence Factors and Pathogenicity for Endodontic Infections. In MICROORGANISMS, 2020, vol. 8, no. 9, pp. Dostupné na: https://doi.org/10.3390/microorganisms8091300., Registrované v: WOS*

ADCA382 MACHOVÁ, Eva - BYSTRICKÝ, Peter - MALOVÍKOVÁ, Anna - BYSTRICKÝ, Slavomír. Preparation and characterization of carboxymethyl derivatives of yeast mannans in aqueous solutions. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 110, p. 219-223. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.03.079>

Citácie:

1. [1.1] GONZALES, Karen N. - TRONCOSO, Omar P. - TORRES, Fernando G. - LOPEZ, Daniel. *Molecular alpha-relaxation process of exopolysaccharides extracted from Nostoc commune cyanobacteria. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 1516-1525. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2020.07.268., Registrované v: WOS*

ADCA383 MACHOVÁ, Eva - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter. Effect of carboxymethylation on antioxidant properties and radical degradation of mannans and glucans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 112, p. 603-607. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.06.050>

Citácie:

1. [1.1] BODDAPATI, Sirisha - RAI, Randhir - GUMMADI, Sathyanaryana N. Structural analysis and antioxidative properties of mutan (water-insoluble glucan) and carboxymethyl mutan from *Streptococcus mutans*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 97, no., pp. 130-139. Dostupné na: <https://doi.org/10.1016/j.procbio.2020.07.006>., Registrované v: WOS
 2. [1.1] CHAKKA, Vara Prasad - ZHOU, Tao. Carboxymethylation of polysaccharides: Synthesis and bioactivities. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 2425-2431. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.178>., Registrované v: WOS
 3. [1.1] DUAN, Suyang - ZHAO, Meimei - WU, Baoyu - WANG, Shijie - YANG, Yu - XU, Yaqin - WANG, Libo. Preparation, characteristics, and antioxidant activities of carboxymethylated polysaccharides from blackcurrant fruits. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 155, no., pp. 1114-1122. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.078>., Registrované v: WOS
- ADCA384 MAJEROVÁ, Petra - BARÁTH, Peter - POLČÍK MICHALICOVÁ, Alena - KATINA, Stanislav - NOVÁK, Michal - KOVÁČ, Andrej. Changes of cerebrospinal fluid peptides due to tauopathy. In *Journal of Alzheimer's Disease*, 2017, vol. 58, no. 2, p. 507-512. (2016: 3.731 - IF, Q2 - JCR, 1.584 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1387-2877. Dostupné na: <https://doi.org/10.3233/JAD-170110>
- Citácie:
1. [1.1] CHAPLOT, K. - JARVELA, T.S. - LINDBERG, I. Secreted Chaperones in Neurodegeneration. In *FRONTIERS IN AGING NEUROSCIENCE*. ISSN 1663-4365, AUG 27 2020, vol. 12., Registrované v: WOS
 2. [1.1] FLEITES, L.A. - JOHNSON, R. - KRUSE, A.R. - NACHMAN, R.J. - HALL, D.G. - MACCOSS, M. - HECK, M.L. Peptidomics Approaches for the Identification of Bioactive Molecules from *Diaphorina citri*. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, APR 3 2020, vol. 19, no. 4, p. 1392-1408., Registrované v: WOS
- ADCA385 MAJTÁN, Juraj - BÍLIKOVÁ, Katarína - MARKOVIC, O. - GROF, J. - KOGAN, Grigorij - ŠIMUTH, Jozef. Isolation and characterization of chitin from bumblebee (*Bombus terrestris*). In *International Journal of Biological Macromolecules*, 2007, vol. 40, no. 3, pp. 237-241. (2006: 1.323 - IF, Q4 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2006.07.010>
- Citácie:
1. [1.1] ABIDIN, N.A.Z. - KORMIN, F. - ABIDIN, N.A.Z. - ANUAR, N.A.F.M. - ABU BAKAR, M.F. The Potential of Insects as Alternative Sources of Chitin: An Overview on the Chemical Method of Extraction from Various Sources. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. JUL 2020, vol. 21, no. 14., Registrované v: WOS
 2. [1.1] HAHN, T. - TAFI, E. - PAUL, A. - SALVIA, R. - FALABELLA, P. - ZIBEK, S. Current state of chitin purification and chitosan production from insects. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, NOV 2020, vol. 95, no. 11, p. 2775-2795., Registrované v: WOS
 3. [1.1] HEMAPRIYA, J. - RAVI, A. - AISVERYA, S. - SUDHA, P.N. - VIJAYANAND, S. Chitosan and Its Biomedical Applications. In *MARINE POLYSACCHARIDES: ADVANCES AND MULTIFACETED APPLICATIONS*. 2019, p. 111-140., Registrované v: WOS

4. [1.1] HUET, G. - HADAD, C. - HUSSON, E. - LACLEF, S. - LAMBERTYN, V. - FARIAS, M.A. - JAMALI, A. - COURTY, M. - ALAYOUBI, R. - GOSSELIN, I. - SARAZIN, C. - VAN NHIEN, A.N. *Straightforward extraction and selective bioconversion of high purity chitin from Bombyx eri larva: Toward an integrated insect biorefinery.* In CARBOHYDRATE POLYMERS. ISSN 0144-8617, JAN 15 2020, vol. 228., Registrované v: WOS
5. [1.1] IKL, S. - RAMANAUSKAITE, A. - BILICAN, B.K. - MULERCIKAS, P. - CAM, D. - ONSSES, M.S. - TORUN, I. - KAZLAUSKAITE, S. - BAUBLYS, V. - AYDIN, O. - ZANG, L.S. - KAYA, M. *Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests.* In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, JUL 2020, vol. 112., Registrované v: WOS
6. [1.1] KABALAK, M. - ARACAGOK, D. - TORUN, M. *Extraction, characterization and comparison of chitins from large bodied four Coleoptera and Orthoptera species.* In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, FEB 15 2020, vol. 145, p. 402-409., Registrované v: WOS
7. [1.1] KULKARNI, S.A. - DHARINI, V. - SELVAM, S.P. - KUMAR, M.M. - SADIKU, E.R. - JAYARAMUDU, J. - GUPTA, U.N. *Fabrication of Bionanocomposites from Chitin.* In CHITIN- AND CHITOSAN-BASED BIOCOMPOSITES FOR FOOD PACKAGING APPLICATIONS. 2020, p. 11-21., Registrované v: WOS
8. [1.1] OLATUNJI, O. *Chitin.* In AQUATIC BIOPOLYMERS: UNDERSTANDING THEIR INDUSTRIAL SIGNIFICANCE AND ENVIRONMENTAL IMPLICATIONS. ISSN 2364-1878, 2020, p. 31-65., Registrované v: WOS
9. [1.1] PINERO, J.C. - SHIVERS, T. - BYERS, P.L. - JOHNSON, H.Y. *Insect-based compost and vermicompost production, quality and performance.* In RENEWABLE AGRICULTURE AND FOOD SYSTEMS. ISSN 1742-1705, FEB 2020, vol. 35, no. 1, p. 102-108., Registrované v: WOS
10. [1.1] PURKAYASTHA, D. - SARKAR, S. *Physicochemical Structure Analysis of Chitin Extracted from Pupa Exuviae and Dead Imago of Wild Black Soldier Fly (Hermetia illucens).* In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, FEB 2020, vol. 28, no. 2, p. 445-457., Registrované v: WOS
11. [1.1] RAJALEKSHMY, G.P. - DEVI, L.L. - JOSEPH, J. - REKHA, M.R. *An overview on the potential biomedical applications of polysaccharides.* In FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS. ISSN 2049-9485, 2019, p. 33-94., Registrované v: WOS
12. [1.1] SANANDIYA, N.D. - OTTENHEIM, C. - PHUA, J.W. - CALIGIANI, A. - DRITSAS, S. - FERNANDEZ, J.G. *Circular manufacturing of chitinous bio-composites via bioconversion of urban refuse.* In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 13 2020, vol. 10, no. 1., Registrované v: WOS
13. [1.1] WOODS, M.J. - GOOSEN, N.J. - HOFFMAN, L.C. - PIETERSE, E. *A simple and rapid protocol for measuring the chitin content of Hermetia illucens (L.) (Diptera: Stratiomyidae) larvae.* In JOURNAL OF INSECTS AS FOOD AND FEED. 2020, vol. 6, no. 3, p. 285-290., Registrované v: WOS

ADCA386 MAJTÁN, Juraj - KOGAN, Grigorij - KOVÁČOVÁ, Elena - BÍLIKOVÁ, Katarína - SIMUTH, Jozef. *Stimulation of TNF-alpha release by fungal cell wall polysaccharides.* In Zeitschrift fur Naturforschung C-A Journal of Biosciences, 2005, vol. 60, p. 921-926.

Citácie:

1. [1.1] AUNG, M. - OHTSUKA, H. - IZUMI, K. Short communication: Effect of yeast cell wall supplementation on peripheral leukocyte populations and mRNA expression of cytokines in lactating dairy cows. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, JUN 2020, vol. 103, no. 6, p. 5634-5640., Registrované v: WOS
2. [1.1] ELGHANDOUR, M.M.Y. - TAN, Z.L. - ABU HAFSA, S.H. - ADEGBEYE, M.J. - GREINER, R. - UGBOGU, E.A. - MONROY, J.C. - SALEM, A.Z.M. Saccharomyces cerevisiae as a probiotic feed additive to non and pseudo-ruminant feeding: a review. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, MAR 2020, vol. 128, no. 3, p. 658-674., Registrované v: WOS
3. [1.1] VILLAFANE, L. - FORRELLAD, M.A. - LOPEZ, M.G. - GARBACCIO, S. - GARRO, C. - ROCHA, R.V. - EIRIN, M.E. - SINGH, M. - TABOGA, O.A. - BIGI, F. Production of Mycobacterium bovis Antigens Included in Recombinant Occlusion Bodies of Baculovirus. In JOURNAL OF MOLECULAR MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1464-1801, JUL 2020, vol. 29, no. 1-6, p. 83-90., Registrované v: WOS

ADCA387 MAJTÁN, Juraj - BOHOVÁ, Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJTÁN, Tomáš - MAJTÁN, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF- α -induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. In Archives of Dermatological Research, 2013, vol. 305, no. 7, p. 619-627. (2012: 2.708 - IF, Q1 - JCR, 1.117 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0340-3696. Dostupné na: <https://doi.org/10.1007/s00403-013-1385-y>

Citácie:

1. [1.1] KARAPETSAS, Athanasios - VOULGARIDOU, Georgia-Persephoni - ILIADI, Dimitra - TSOCHANTARIDIS, Ilias - MICHAIL, Panagiota - KYNIGOPOULOS, Spyridon - LAMBROPOULOU, Maria - STAVROPOULOU, Maria-Ioanna - STATHOPOULOU, Konstantina - KARABOURNIOTI, Sofia - ALIGIANNIS, Nektarios - GARDIKIS, Konstantinos - GALANIS, Alex - PANAYIOTIDIS, Mihalios - PAPPA, Aglaia. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In ANTIOXIDANTS, 2020, vol. 9, no. 7, pp. Dostupné na: <https://doi.org/10.3390/antiox9070566>., Registrované v: WOS
2. [1.1] LATIFA, Haderbach - SAADA, Annou - AREZKI, Mohammedi. ANTIMICROBIAL POTENTIAL OF ZIZIPHUS AND EUPHORBIA HONEYS HARVESTED IN SEMI-ARID REGION OF ALGERIA AND THEIR POSSIBLE USE IN SOFT MEDICINE. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2020, vol. 9, no. 6, pp. 1114-1118. Dostupné na: <https://doi.org/10.15414/jmbfs.2020.9.6.1114-1118>., Registrované v: WOS
3. [1.1] MALIK, Nurfairuz Abdul - MOHAMED, Mahaneem - MUSTAFA, Mohd Zulkifli - ZAINUDDIN, Azalina. In vitro modulation of extracellular matrix genes by stingless bee honey in cellular aging of human dermal fibroblast cells. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 1, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13098>., Registrované v: WOS

ADCA388 MAJTÁN, Juraj - BOHOVÁ, Jana - HORNIÁČKOVÁ, Miroslava - KLAUDINY, Jaroslav - MAJTÁN, Viktor. Anti-biofilm Effects of Honey Against Wound Pathogens Proteus mirabilis and Enterobacter cloacae. In Phytotherapy Research, 2014, vol. 28, no. 1, p. 69-75. (2013: 2.397 - IF, Q2 - JCR, 0.824 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0951-418X. Dostupné na: <https://doi.org/10.1002/ptr.4957>

Citácie:

1. [1.1] AYUB, Rabia - UMER, Muhammad - MAAN, Abid Aslam - RASOOL, Bilal - KHAN, Muhammad Kashif Iqbal - YOUNIS, Tahira - ABBAS, Shabbar - SAJJAD, Muhammad - KALEEM, Imdad - IMRAN, Muhammad - ULLAH, Azmat - AFZAL, Muhammad Sohail - SHAH, Zaheer Hussain - AHMED, Sheraz - ASLAM, Farhan - CHAUDHARY, Neelam - AFZAL, Muhammad Inam. *Antibiotics, Acid and Heat Tolerance of Honey adapted Escherichia coli, Salmonella Typhi and Klebsiella pneumoniae. In FOODS*, 2020, vol. 9, no. 3, pp. Dostupné na: <https://doi.org/10.3390/foods9030311>., Registrované v: WOS
2. [1.1] HALL, Thomas J. - VILLAPUN, Victor M. - ADDISON, Owen - WEBBER, Mark A. - LOWTHER, Morgan - LOUTH, Sophie E. T. - MOUNTCASTLE, Sophie E. - BRUNET, Mathieu Y. - COX, Sophie C. *A call for action to the biomaterial community to tackle antimicrobial resistance. In BIOMATERIALS SCIENCE. ISSN 2047-4830*, 2020, vol. 8, no. 18, pp. 4951-4974. Dostupné na: <https://doi.org/10.1039/d0bm01160f>., Registrované v: WOS
3. [1.1] KWIECINSKA-PIROG, Joanna - PRZEKWAS, Jana - MAJKUT, Michal - SKOWRON, Krzysztof - GOSPODAREK-KOMKOWSKA, Eugenia. *Biofilm Formation Reducing Properties of Manuka Honey and Propolis in Proteus mirabilis Rods Isolated from Chronic Wounds. In MICROORGANISMS*, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8111823>., Registrované v: WOS
4. [1.1] MOKHTAR, Jawahir A. - MCBAIN, Andrew J. - LEDDER, Ruth G. - BINSUWAIDAN, Reem - RIMMER, Victoria - HUMPHREYS, Gavin J. *Exposure to a Manuka Honey Wound Gel Is Associated With Changes in Bacterial Virulence and Antimicrobial Susceptibility. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.02036>., Registrované v: WOS
5. [1.1] WASFI, Reham - HAMED, Samira M. - AMER, Mai A. - FAHMY, Lamiaa Ismail. *Proteus mirabilis Biofilm: Development and Therapeutic Strategies. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988*, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fcimb.2020.00414>., Registrované v: WOS
6. [1.1] YANG, Catherina - MAVELLI, Girish Vallerinteavide - NACHARAJU, Parimala - LI, Kevin - CLEARE, Levi G. - NOSANCHUK, Joshua D. - FRIEDMAN, Joel M. - ABUZEID, Waleed M. *Novel nitric oxide-generating platform using manuka honey as an anti-biofilm strategy in chronic rhinosinusitis. In INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY. ISSN 2042-6976*, 2020, vol. 10, no. 2, pp. 223-232. Dostupné na: <https://doi.org/10.1002/alr.22472>., Registrované v: WOS

ADCA389

MAJTÁN, Juraj - BOHOVÁ, Jana - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav. *Methylglyoxal May Affect Hydrogen Peroxide Accumulation in Manuka Honey Through the Inhibition of Glucose Oxidase. In Journal of Medicinal Food : Official Journal of the Korean Society of Food Science and Nutrition*, 2014, vol. 17, no. 2, p. 290-293. (2013: 1.699 - IF, Q2 - JCR, 0.617 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1096-620X. Dostupné na: <https://doi.org/10.1089/jmf.2012.0201>

Citácie:

1. [1.1] HALL, Thomas J. - VILLAPUN, Victor M. - ADDISON, Owen - WEBBER, Mark A. - LOWTHER, Morgan - LOUTH, Sophie E. T. - MOUNTCASTLE, Sophie E. - BRUNET, Mathieu Y. - COX, Sophie C. *A call for action to the biomaterial community to tackle antimicrobial resistance. In BIOMATERIALS SCIENCE. ISSN 2047-4830*, 2020, vol. 8, no. 18, pp. 4951-

4974. Dostupné na: <https://doi.org/10.1039/d0bm01160f>., Registrované v: WOS
2. [1.1] HERMANN, Renee - MATEESCU, Cristina - THRASYVOULOU, Andreas - TANANAKI, Chrysoula - WAGENER, Frank A. D. T. G. - CREMERS, Niels A. J. Defining the standards for medical grade honey. In *JOURNAL OF APICULTURAL RESEARCH*. ISSN 0021-8839, 2020, vol. 59, no. 2, pp. 125-135. Dostupné na: <https://doi.org/10.1080/00218839.2019.1693713>., Registrované v: WOS
3. [1.1] HRISTOV, Peter - NEOV, Boyko - SHUMKOVA, Rositsa - PALOVA, Nadezhda. Significance of Apoidea as Main Pollinators. Ecological and Economic Impact and Implications for Human Nutrition. In *DIVERSITY-BASEL*, 2020, vol. 12, no. 7, pp. Dostupné na: <https://doi.org/10.3390/d12070280>., Registrované v: WOS
4. [1.1] KWIECINSKA-PIROG, Joanna - PRZEKAS, Jana - MAJKUT, Michal - SKOWRON, Krzysztof - GOSPODAREK-KOMKOWSKA, Eugenia. Biofilm Formation Reducing Properties of Manuka Honey and Propolis in *Proteus mirabilis* Rods Isolated from Chronic Wounds. In *MICROORGANISMS*, 2020, vol. 8, no. 11, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8111823>., Registrované v: WOS
5. [1.1] PAPADOPOULOU, Dionyssia - DABROWSKA, Alicja - HARRIES, Philip G. - WEBB, Jeremy S. - ALLAN, Raymond N. - SALIB, Rami J. Evaluation of a Bioengineered Honey and Its Synthetic Equivalent as Novel *Staphylococcus aureus* Biofilm-Targeted Topical Therapies in Chronic Rhinosinusitis. In *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*. ISSN 1945-8924, 2020, vol. 34, no. 1, pp. 80-86. Dostupné na: <https://doi.org/10.1177/1945892419874700>., Registrované v: WOS
6. [1.1] PINTO, Ana M. - CERQUEIRA, Miguel A. - BANOBBRE-LOPES, Manuel - PASTRANA, Lorenzo M. - SILLANKORVA, Sanna. Bacteriophages for Chronic Wound Treatment: From Traditional to Novel Delivery Systems. In *VIRUSES-BASEL*, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/v12020235>., Registrované v: WOS
7. [1.1] PLEEGING, Carlos C. F. - COENYE, Tom - MOSSIALOS, Dimitris - DE ROOSTER, Hilde - CHRYSOSTOMOU, Daniela - WAGENER, Frank A. D. T. G. - CREMERS, Niels A. J. Synergistic Antimicrobial Activity of Supplemented Medical-Grade Honey against *Pseudomonas aeruginosa* Biofilm Formation and Eradication. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 12, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9120866>., Registrované v: WOS
- ADCA390 MAJTÁN, Juraj - KUMAR, P. - MAJTÁN, Tomáš - WALLS, A. F. - KLAUDINY, Jaroslav. Effect of honey and its major royal jelly protein 1 on cytokine and MMP-9 mRNA transcripts in human keratinocytes. In *Experimental Dermatology*, 2010, vol. 19, no. 8, p. e73-e79. (2009: 3.239 - IF, 1.327 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0906-6705. Dostupné na: <https://doi.org/10.1111/j.1600-0625.2009.00994.x>

Citácie:

1. [1.1] CHANTAWANNAKUL, Panuwan. From entomophagy to entomotherapy. In *FRONTIERS IN BIOSCIENCE-LANDMARK*. ISSN 2768-6701, 2020, vol. 25, no., pp. 179-200. Dostupné na: <https://doi.org/10.2741/4802>., Registrované v: WOS
2. [1.1] MCLOONE, Pauline - TABYS, Dina - FYFE, Lorna. Honey Combination Therapies for Skin and Wound Infections: A Systematic Review of the Literature. In *CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY*. ISSN 1178-7015, 2020, vol. 13, no., pp. 875-888. Dostupné na: <https://doi.org/10.2147/CCID.S282143>., Registrované v: WOS

3. [1.1] MUNOZ, Mariela - VASQUEZ, Belgica - DEL SOL, Mariano. *Molecular Mechanisms in the Process of Re-epithelization in Wound Healing and the Action of Honey in Keratinocytes*. In *INTERNATIONAL JOURNAL OF MORPHOLOGY*. ISSN 0717-9502, 2020, vol. 38, no. 6, pp. 1700-1706., Registrované v: WOS
- ADCA391 MAJZÚNOVÁ, Miroslava - PAKANOVÁ, Zuzana - KVASNIČKA, Peter - BALÍŠ, Peter - ČAČÁNYIOVÁ, Soňa - DOVINOVA, Ima. Age-dependent redox status in the brain stem of NO-deficient hypertensive rats. In *Journal of Biomedical Science*, 2017, vol. 24, art. no. 72, 14 p. (2016: 2.799 - IF, Q2 - JCR, 1.221 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1021-7770. Dostupné na: <https://doi.org/10.1186/s12929-017-0366-4> (APVV-0348-12 : Štúdium regulácie radikálovej a bunkovej signalizácie v hypertenzii a vplyv nových terapií na túto signalizáciu.. APVV-15-0565 : Nové regulačné účinky oxidu dusnatého a ich úloha v rozvoji esenciálnej hypertenzie. VEGA č. 2/0148/17 : Sledovanie kritických endogénnych biomarkerov a signálnych dráh v hypertenzii a pri kardiovaskulárnych ochoreniach)
- Citácie:
1. [1.1] ALLY, A. - POWELL, I. - ALLY, M.M. - CHAITOFF, K. - NAULI, S.M. *Role of neuronal nitric oxide synthase on cardiovascular functions in physiological and pathophysiological states*. In *NITRIC OXIDE-BIOLOGY AND CHEMISTRY*. ISSN 1089-8603, SEP 1 2020, vol. 102, p. 52-73., Registrované v: WOS
2. [3.1] PECHANOVA, O. - VRANKOVA, S. - CEBOVA, M. *Chronic L-Name-Treatment Produces Hypertension by Different Mechanisms in Peripheral Tissues and Brain: Role of Central eNOS*. In *PATHOPHYSIOLOGY*, 2020, vol. 27(1), p. 46-54. <https://doi.org/10.3390/pathophysiology27010007>
3. [3.1] Rizvi S.M.S., Mahdi F., Mahdi A.A., Jafar T., Rizvi S. *Personalized medicine: role of asymmetric dimethylarginine as a predictive marker of CAD*. In *ERA'S JOURNAL OF MEDICAL RESEARCH*, 2020, vol. 7(1): 1-6., Registrované v: Research Gate
- ADCA392 MARCUS, S.E. - VERHERTBRUGGEN, Y. - HERVÉ, C. - ORDAZ-ORTIZ, J.J. - FARKAŠ, Vladimír - PEDERSEN, H.L. - WILLATS, W.G.T. - KNOX, J.P. Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. In *Plant biology*, 2008, vol. 8, art. No. 60, 12 p. (2007: 2.012 - IF, Q1 - JCR, 1.197 - SJR, Q1 - SJR). ISSN 1435-8603. Dostupné na: <https://doi.org/10.1186/1471-2229-8-60>
- Citácie:
1. [1.1] BASINSKA-BARCZAK, Aneta - BLASZCZYK, Lidia - SZENTNER, Kinga. *Plant Cell Wall Changes in Common Wheat Roots as a Result of Their Interaction with Beneficial Fungi of Trichoderma*. In *CELLS*, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102319>., Registrované v: WOS
2. [1.1] BIDHENDI, A. J. - CHEBLI, Y. - GEITMANN, A. *Fluorescence visualization of cellulose and pectin in the primary plant cell wall*. In *JOURNAL OF MICROSCOPY*. ISSN 0022-2720, 2020, vol. 278, no. 3, pp. 164-181. Dostupné na: <https://doi.org/10.1111/jmi.12895>., Registrované v: WOS
3. [1.1] BRAGANCA, G. P. P. - ALENCAR, C. F. - FREITAS, M. S. C. - ISAIAS, R. M. S. *Hemicelluloses and associated compounds determine gall functional traits*. In *PLANT BIOLOGY*. ISSN 1435-8603, 2020, vol. 22, no. 6, pp. 981-991. Dostupné na: <https://doi.org/10.1111/plb.13151>., Registrované v: WOS
4. [1.1] CAROLYN, J. Schultz - LIM, Wai L. - KHOR, Shi F. - NEUMANN, Kylie A. - SCHULZ, Jakob M. - ANSARI, Omid - SKEWES, Mark A. - BURTON, Rachel A. *Consumer and health-related traits of seed from selected commercial and breeding lines of industrial hemp, Cannabis sativa L.* In *JOURNAL OF*

- AGRICULTURE AND FOOD RESEARCH*. ISSN 2666-1543, 2020, vol. 2, no., pp. Dostupné na: <https://doi.org/10.1016/j.jafr.2020.100025>., Registrované v: WOS
5. [1.1] CARRERAS, Alexis - BERNARD, Sophie - DURAMBUR, Gaëlle - GUGI, Bruno - LOUTELIER, Corinne - PAWLAK, Barbara - BOULOGNE, Isabelle - VICRE, Maïte - DRIOUICH, Azeddine - GOFFNER, Deborah - FOLLET-GUEYE, Marie-Laure. *In vitro* characterization of root extracellular trap and exudates of three Sahelian woody plant species. In *PLANTA*. ISSN 0032-0935, 2020, vol. 251, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s00425-019-03302-3>., Registrované v: WOS
6. [1.1] CHERNOVA, Tatyana - AGEeva, Marina - MIKSHINA, Polina - TROFIMOVA, Oksana - KOZLOVA, Liudmila - LEV-YADUN, Simcha - GORSHKOVA, Tatyana. The Living Fossil *Psilotum nudum* Has Cortical Fibers With Mannan-Based Cell Wall Matrix. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00488>., Registrované v: WOS
7. [1.1] DECOU, Raphael - LABROUSSE, Pascal - BERE, Emile - FLEURAT-LESSARD, Pierrette - KRAUSZ, Pierre. Structural features in tension wood and distribution of wall polymers in the G-layer of *in vitro* grown poplars. In *PROTOPLASMA*. ISSN 0033-183X, 2020, vol. 257, no. 1, pp. 13-29. Dostupné na: <https://doi.org/10.1007/s00709-019-01416-9>., Registrované v: WOS
8. [1.1] FERREIRA, Bruno G. - BRAGANCA, Gracielle P. - ISAIAS, Rosy M. S. Cytological attributes of storage tissues in nematode and eriophyid galls: pectin and hemicellulose functional insights. In *PROTOPLASMA*. ISSN 0033-183X, 2020, vol. 257, no. 1, pp. 229-244. Dostupné na: <https://doi.org/10.1007/s00709-019-01431-w>., Registrované v: WOS
9. [1.1] GAVRIN, Aleksandr - REY, Thomas - TORODE, Thomas A. - TOULOTTE, Justine - CHATTERJEE, Abhishek - KAPLAN, Jonathan Louis - EVANGELISTI, Edouard - TAKAGI, Hiroki - CHAROENSAWAN, Varodom - RENGEL, David - JOURNET, Etienne-Pascal - DEBELLE, Frederic - DE CARVALHO-NIEBEL, Fernanda - TERAUCHI, Ryohei - BRAYBROOK, Siobhan - SCHORNACK, Sebastian. Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2020, vol. 30, no. 21, pp. 4165-+. Dostupné na: <https://doi.org/10.1016/j.cub.2020.08.011>., Registrované v: WOS
10. [1.1] HENRY, Jason S. - LOPEZ, Renee A. - RENZAGLIA, Karen S. Differential localization of cell wall polymers across generations in the placenta of *Marchantia polymorpha*. In *JOURNAL OF PLANT RESEARCH*. ISSN 0918-9440, 2020, vol. 133, no. 6, pp. 911-924. Dostupné na: <https://doi.org/10.1007/s10265-020-01232-w>., Registrované v: WOS
11. [1.1] IBRAGIMOVA, Nadezda - MOKSHINA, Natalia - AGEeva, Marina - GURJANOV, Oleg - MIKSHINA, Polina. Rearrangement of the Cellulose-Enriched Cell Wall in Flax Phloem Fibers over the Course of the Gravitropic Reaction. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 15, pp. Dostupné na: <https://doi.org/10.3390/ijms21155322>., Registrované v: WOS
12. [1.1] KAIDA, Rumi - SASAKI, Yuya - OZAKI, Kaho - BABA, Kei'ichi - MOMOI, Takao - OHBAYASHI, Hiroya - TAJI, Teruaki - SAKATA, Yoichi - HAYASHI, Takahisa. Intake of Radionuclides in the Trees of Fukushima Forests 5. Earthquake Could Have Caused an Increase in Xyloglucan in Trees dagger. In *FORESTS*, 2020, vol. 11, no. 9, pp. Dostupné na: <https://doi.org/10.3390/f11090966>., Registrované v: WOS
13. [1.1] KIM, Sang-Jin - CHANDRASEKAR, Balakumaran - REA, Anne C. -

- DANHOF, Linda - ZEMELIS-DURFEE, Starla - THROWER, Nicholas - SHEPARD, Zachary S. - PAULY, Markus - BRANDIZZI, Federica - KEEGSTRA, Kenneth. *The synthesis of xyloglucan, an abundant plant cell wall polysaccharide, requires CSLC function. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 33, pp. 20316-20324. Dostupné na: <https://doi.org/10.1073/pnas.2007245117>., Registrované v: WOS*
14. [1.1] LEROUX, Olivier. *Vibratome Sectioning of Plant Materials for (Immuno) cytochemical Staining. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 339-350. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_19., Registrované v: WOS*
15. [1.1] NIBBERING, Pieter - PETERSEN, Bent L. - MOTAWIA, Mohammed Saddik - JORGENSEN, Bodil - ULVSKOV, Peter - NIITYLA, Totte. *Golgi-localized exo-beta 1,3-galactosidases involved in cell expansion and root growth in Arabidopsis. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2020, vol. 295, no. 31, pp. 10581-10592. Dostupné na: <https://doi.org/10.1074/jbc.RA120.013878>., Registrované v: WOS*
16. [1.1] PARRA, Ruben - GOMEZ-JIMENEZ, Maria C. *Spatio-temporal immunolocalization of extensin protein and hemicellulose polysaccharides during olive fruit abscission. In PLANTA. ISSN 0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03439-6>., Registrované v: WOS*
17. [1.1] PEGG, Timothy - EDELMANN, Richard R. - GLADISH, Daniel K. *Immunoprofiling of Cell Wall Carbohydrate Modifications During Flooding-Induced Aerenchyma Formation in Fabaceae Roots. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2019.01805>., Registrované v: WOS*
18. [1.1] PERZON, Alixander - KRACUN, Stjepan Kresimir - JORGENSEN, Bodil - ULVSKOV, Peter. *Array-based microfibril surface assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 15, pp. 8635-8651. Dostupné na: <https://doi.org/10.1007/s10570-020-03398-x>., Registrované v: WOS*
19. [1.1] PHILIPPE, Glenn - GENEIX, Nathalie - PETIT, Johann - GUILLON, Fabienne - SANDT, Christophe - ROTHAN, Christophe - LAHAYE, Marc - MARION, Didier - BAKAN, Benedicte. *Assembly of tomato fruit cuticles: a cross-talk between the cutin polyester and cell wall polysaccharides. In NEW PHYTOLOGIST. ISSN 0028-646X, 2020, vol. 226, no. 3, pp. 809-822. Dostupné na: <https://doi.org/10.1111/nph.16402>., Registrované v: WOS*
20. [1.1] POPIELARSKA-KONIECZNA, Marzena - SALA, Katarzyna - ABDULLAH, Mohib - TULEJA, Monika - KURCZYNSKA, Ewa. *Extracellular matrix and wall composition are diverse in the organogenic and non-organogenic calli of Actinidia arguta. In PLANT CELL REPORTS. ISSN 0721-7714, 2020, vol. 39, no. 6, pp. 779-798. Dostupné na: <https://doi.org/10.1007/s00299-020-02530-2>., Registrované v: WOS*
21. [1.1] ROPITAUX, Marc - BERNARD, Sophie - SCHAPMAN, Damien - FOLLET-GUEYE, Marie-Laure - VICRE, Maite - BOULOGNE, Isabelle - DRIOUICH, Azeddine. *Root Border Cells and Mucilage Secretions of Soybean, Glycine Max (Merr) L.: Characterization and Role in Interactions with the Oomycete Phytophthora Parasitica. In CELLS, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102215>., Registrované v: WOS*
22. [1.1] SHTEIN, Ilana - KOYFMAN, Alex - SCHWARTZ, Amnon - POPPER, Zoe A. - BAR-ON, Benny. *Solanales Stem Biomechanical Properties Are Primarily Determined by Morphology Rather Than Internal Structural Anatomy*

and Cell Wall Composition. In *PLANTS-BASEL*, 2020, vol. 9, no. 6, pp. Dostupné na: <https://doi.org/10.3390/plants9060678>, Registrované v: WOS

23. [1.1] STEPINSKI, Dariusz - KWIAKOWSKA, Maria - WOJTCZAK, Agnieszka - POLIT, Justyna Teresa - DOMINGUEZ, Eva - HEREDIA, Antonio - POPLONSKA, Katarzyna. The Role of Cutinsomes in Plant Cuticle Formation. In *CELLS*, 2020, vol. 9, no. 8, pp. Dostupné na:

<https://doi.org/10.3390/cells9081778>, Registrované v: WOS

24. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In *MOLECULES*, 2020, vol. 25, no. 23, pp.

Dostupné na: <https://doi.org/10.3390/molecules25235619>, Registrované v: WOS

25. [1.1] YANG, Guojun - TAN, Haidong - LI, Shuguang - ZHANG, Meng - CHE, Jia - LI, Kuikui - CHEN, Wei - YIN, Heng. Application of engineered yeast strain fermentation for oligogalacturonides production from pectin-rich waste biomass. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 300, no., pp.

Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122645>, Registrované v: WOS

26. [1.1] YANG, Qiaomei - ZHAO, Wenyue - LIU, Jingyuan - HE, Boyang - WANG, Youmei - YANG, Tangbin - ZHANG, Guifen - HE, Mingxiong - LU, Jun - PENG, Liangcai - WANG, Yanting. Quantum dots are conventionally applicable for wide-profiling of wall polymer distribution and destruction in diverse cells of rice. In *TALANTA*. ISSN 0039-9140, 2020, vol. 208, no., pp. Dostupné na:

<https://doi.org/10.1016/j.talanta.2019.120452>, Registrované v: WOS

27. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - RICHARDSON, Elizabeth A. - YE, Zheng-Hua. A Group of O-Acetyltransferases Catalyze Xyloglucan Backbone Acetylation and Can Alter Xyloglucan Xylosylation Pattern and Plant Growth When Expressed in Arabidopsis. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2020, vol. 61, no. 6, pp.

1064-1079. Dostupné na: <https://doi.org/10.1093/pcp/pcaa031>, Registrované v: WOS

ADCA393 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin methylesterases: sequence-structural features and phylogenetic relationships. In *Carbohydrate Research*, 2004, vol. 339, p. 2281-2295. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na:

<https://doi.org/10.1016/j.carres.2004.06.023>

Citácie:

1. [1.1] GHOLIZADEH, A. Pectin methylesterase activity of plant DUF538 protein superfamily. In *PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS*. ISSN 0971-5894, APR 2020, vol. 26, no. 4, p. 829-839., Registrované v: WOS

2. [1.1] REEM, N.T. - CHAMBERS, L. - ZHANG, N. - ABDULLAH, S.F. - CHEN, Y.T. - FENG, G.H. - GAO, S. - SOTO-BURGOS, J. - POGORELKO, G. - BASSHAM, D.C. - ANDERSON, C.T. - WALLEY, J.W. - ZABOTINA, O.A. Post-Synthetic Reduction of Pectin Methylesterification Causes Morphological Abnormalities and Alterations to Stress Response in Arabidopsis thaliana. In *PLANTS-BASEL*. NOV 2020, vol. 9, no. 11., Registrované v: WOS

3. [1.1] WEN, B. - ZHANG, F. - WU, X.Z. - LI, H. Characterization of the Tomato (*Solanum lycopersicum*) Pectin Methylesterases: Evolution, Activity of Isoforms and Expression During Fruit Ripening. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, MAR 3 2020, vol. 11., Registrované v: WOS

ADCA394 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin degrading glycoside hydrolases of family 28: sequence-structural features, specificities and evolution. In *Protein*

Engineering Design & Selection, 2001, vol. 14, p. 615-631. ISSN 1741-0126.

Citácie:

1. [1.1] HUANG, W.J. - CHEN, M.Y. - ZHAO, T.T. - HAN, F. - ZHANG, Q. - LIU, X.L. - JIANG, C.Y. - ZHONG, C.H. *Genome-Wide Identification and Expression Analysis of Polygalacturonase Gene Family in Kiwifruit (Actinidia chinensis) during Fruit Softening*. In PLANTS-BASEL. MAR 2020, vol. 9, no. 3, 327.,

Registrované v: WOS

2. [1.1] LI, J.J. - SU, L.T. - LV, A.M. - LI, Y.B. - ZHOU, P. - AN, Y. *MsPG1 alleviated aluminum-induced inhibition of root growth by decreasing aluminum accumulation and increasing porosity and extensibility of cell walls in alfalfa (Medicago sativa)*. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, JUL 2020, vol. 175., Registrované v: WOS

3. [1.1] LIAO, J.G. - CHEN, Z.Y. - WEI, X.M. - TAO, K.L. - ZHANG, J.W. - QIN, X.J. - PAN, Z.H. - MA, W.G. - PAN, L. - YANG, S. - WANG, M.Q. - OU, X.K. - CHEN, S.Y. *Identification of pollen and pistil polygalacturonases in Nicotiana tabacum and their function in interspecific stigma compatibility*. In PLANT REPRODUCTION. ISSN 2194-7953, DEC 2020, vol. 33, no. 3-4, p. 173-190.,

Registrované v: WOS

4. [1.1] LV, J.H. - LIU, Z.B. - YANG, B.Z. - DENG, M.H. - WANG, J. - LIU, Y.H. - ZHANG, Z.Q. - MA, Y.Q. - CHEN, W.C. - OU, L.J. - ZOU, X.X. *Systematic identification and characterization of long non-coding RNAs involved in cytoplasmic male sterility in pepper (Capsicum annuum L.)*. In PLANT GROWTH REGULATION. ISSN 0167-6903, JUN 2020, vol. 91, no. 2, p. 277-288.,

Registrované v: WOS

5. [1.1] PANIAGUA, C. - RIC-VARAS, P. - GARCIA-GAGO, J.A. - LOPEZ-CASADO, G. - BLANCO-PORTALES, R. - MUNOZ-BLANCO, J. - SCHUCKEL, J. - KNOX, J.P. - MATAS, A.J. - QUESADA, M.A. - POSE, S. - MERCADO, J.A. *Elucidating the role of polygalacturonase genes in strawberry fruit softening*. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 31 2020, vol. 71, no. 22, p. 7103-7117., Registrované v: WOS

ADCA395 MÁROVÁ, I. - BREIEROVÁ, Emília - KOČÍ, R. - FRIEDL, Z. - SLOVÁK, B. - POKORNÁ, J. *Influence of exogenous stress factors on production of carotenoids by some strains of carotenogenic yeasts*. In Annals of Microbiology, 2004, vol. 54, p. 73-75. ISSN 1590-4261.

Citácie:

1. [1.1] GHILARDI, Carolina - SANMARTIN NEGRETE, Paola - CARELLI, Amalia Antonia - BORRONI, Virginia. *Evaluation of olive mill waste as substrate for carotenoid production by Rhodotorula mucilaginosa*. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s40643-020-00341-7>, Registrované v: WOS

ADCA396 MÁROVÁ, Ivana - ČARNECKÁ, Martina - HALIENOVÁ, Andrea - BREIEROVÁ, Emília - KOČÍ, Radka. *Production of carotenoid-/ ergosterol-supplemented biomass by red yeast Rhodotorula glutinis grown under external stress*. In Food Technology and Biotechnology : Journal of the Faculty of Food Technology and Biotechnology, 2010, vol.48, p. 56-61. (2009: 0.976 - IF, Q2 - JCR, 0.664 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1330-9862.

Citácie:

1. [1.1] GHILARDI, Carolina - SANMARTIN NEGRETE, Paola - CARELLI, Amalia Antonia - BORRONI, Virginia. *Evaluation of olive mill waste as substrate for carotenoid production by Rhodotorula mucilaginosa*. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s40643-020-00341-7>, Registrované v: WOS

- ADCA397 MARTINKA, Michal - DOLAN, Liam - PERNAS, Monica - ABE, Jun - LUX, Alexander. Endodermal cell-cell contact is required for the spatial control of Casparian band development in *Arabidopsis thaliana*. In *Annals of Botany*, 2012, vol. 110, no. 2, p. 361-371. (2011: 4.030 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcs110>
Citácie:
1. [1.1] *KITIN, P. - NAKABA, S. - HUNT, C.G. - LIM, S. - FUNADA, R. Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. In AOB PLANTS. ISSN 2041-2851, JUN 29 2020, vol. 12, no. 4., Registrované v: WOS*
2. [1.1] *LI, L. - ZHUANG, Y. Are cuproproteins part of the multi-protein framework for making the Casparian strip?. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, OCT 2 2020, vol. 15, no. 10., Registrované v: WOS*
3. [1.1] *WANG, P. - WANG, C.M. - GAO, L. - CUI, Y.N. - YANG, H.L. - DE SILVA, N.D.G. - MA, Q. - BAO, A.K. - FLOWERS, T.J. - ROWLAND, O. - WANG, S.M. Aliphatic suberin confers salt tolerance to Arabidopsis by limiting Na⁺ influx, K⁺ efflux and water backflow. In PLANT AND SOIL. ISSN 0032-079X, MAR 2020, vol. 448, no. 1-2, p. 603-620., Registrované v: WOS*
- ADCA398 MASÁROVÁ, Jana - MISLOVIČOVÁ, Danica - GEMEINER, Peter - MICHALKOVÁ, E. Stability enhancement of *Escherichia coli* penicillin G acylase by glycosylation with yeast mannan. In *Biotechnology and Applied Biochemistry*, 2001, vol. 34, p. 127-133. (2000: 1.216 - IF). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA20010037>
Citácie:
1. [1.1] *COBOS-PUC, Luis - RODRIGUEZ-HERRERA, Raul - CANO-CABRERA, Juan C. - AGUAYO-MORALES, Hilda - SILVA-BELMARES, Sonia Y. - GALLEGOS, Adriana C. F. - HERNANDEZ, Jose L. M. Classical and New Pharmaceutical Uses of Bacterial Penicillin G Acylase. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2020, vol. 21, no. 4, pp. 287-297. Dostupné na: <https://doi.org/10.2174/138920102066619111151642>., Registrované v: WOS*
- ADCA399 MASTIHUBA, Vladimír - KREMnický, Ľubomír - MASTIHUBOVÁ, Mária - WILLET, J.J. - CÔTÉ, G.L. A Spectrophotometric assay for feruloyl esterases. In *Analytical Biochemistry*, 2002, vol. 309, p. 96-101. ISSN 0003-2697. Dostupné na: [https://doi.org/10.1016/S0003-2697\(02\)00241-5](https://doi.org/10.1016/S0003-2697(02)00241-5)
Citácie:
1. [1.1] *KALB, Valerian - SEEWALD, Torsten - HOFMANN, Thomas - GRANVOGL, Michael. The Role of Endogenous Enzymes during Malting of Barley and Wheat Varieties in the Mitigation of Styrene in Wheat Beer. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 47, pp. 13888-13896. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c04837>., Registrované v: WOS*
2. [1.1] *MANASIAN, Panagiotis - BUSTOS, Atma-Sol - PALSSON, Bjorn - HAKANSSON, Andreas - PENARRIETA, J. Mauricio - NILSSON, Lars - LINARES-PASTEN, Javier A. First Evidence of Acyl-Hydrolase/Lipase Activity From Human Probiotic Bacteria: *Lactobacillus rhamnosus* GG and *Bifidobacterium longum* NCC 2705. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.01534>., Registrované v: WOS*
- ADCA400 MASTIHUBOVÁ, Mária - POLÁKOVÁ, Monika. A selective and mild glycosylation method of natural phenolic alcohols. In *Beilstein Journal of Organic*

Chemistry, 2016, vol. 12, p. 524-530. (2015: 2.697 - IF, Q2 - JCR, 1.045 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1860-5397. Dostupné na: <https://doi.org/10.3762/bjoc.12.51>

Citácie:

1. [1.1] HUANG, Yongkang - XIE, Wenjing - LUO, Yongqiang - FAN, Qiqi - ZHU, Xingliang - LIU, Shiling - SHI, Xiaoxin. *First Total Syntheses of 1-Benzoyl-3,4-dihydroisoquinoline Alkaloids Nelumstemine and Longifolonine Based on the Photo-oxidation*. In CHINESE JOURNAL OF ORGANIC CHEMISTRY. ISSN 0253-2786, 2020, vol. 40, no. 5, pp. 1281-1289. Dostupné na:

<https://doi.org/10.6023/cjoc201912002>., Registrované v: WOS

ADCA401

MASTIHUBOVÁ, Mária - BIELY, Peter. Lipase-catalysed preparation of acetates of 4-nitrophenyl beta-D-xylopyranoside and their use in kinetic studies of acetyl migration. In Carbohydrate Research, 2004, vol. 339, p. 1353-1360. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2004.02.016>

Citácie:

1. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. *Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest*. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS

2. [1.1] HETTIKANKANAMALAGE, Asiri A. - LASSFOLK, Robert - EKHOLM, Filip S. - LEINO, Reko - CRICH, David. *Mechanisms of Stereodirecting Participation and Ester Migration from Near and Far in Glycosylation and Related Reactions*. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 15, pp. 7104-7151. Dostupné na:

<https://doi.org/10.1021/acs.chemrev.0c00243>., Registrované v: WOS

3. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. *A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans*. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>.,

Registrované v: WOS

4. [1.1] WANG, Zhao - PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - HEDENSTROM, Mattias - CHONG, Sun-Li - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. *Hybrid Aspen Expressing a Carbohydrate Esterase Family 5 Acetyl Xylan Esterase Under Control of a Wood-Specific Promoter Shows Improved Saccharification*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na:

<https://doi.org/10.3389/fpls.2020.00380>., Registrované v: WOS

ADCA402

MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Donor specificity and regioselectivity in Lipolase mediated acylations of methyl α -D-glucopyranoside by vinyl esters of phenolic acids and their analogues. In Bioorganic & Medicinal Chemistry Letters, 2013, vol. 23, p. 5389-5392. (2012: 2.338 - IF, Q2 - JCR, 1.091 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0960-894X. Dostupné na: <https://doi.org/10.1016/j.bmcl.2013.07.051>

Citácie:

1. [1.1] BRODZKA, Anna - KOSZELEWSKI, Dominik - OSTASZEWSKI, Ryszard. *Dual Activity of Grubbs-Type Catalyst in the Transvinilation of Carboxylic Acids and Ring-Closing Metathesis Reactions*. In JOURNAL OF ORGANIC

CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 23, pp. 15305-15313. Dostupné na: <https://doi.org/10.1021/acs.joc.0c02135>., Registrované v: WOS
 2. [1.1] TONG, Juliana - KAVIANINIA, Iman - FERGUSON, Scott A. - COOK, Gregory M. - HARRIS, Paul W. R. - BRIMBLE, Margaret A. Synthesis of paenipeptin C'; analogues employing solution-phase CLipPA chemistry. In *ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 23, pp. 4381-4385. Dostupné na: <https://doi.org/10.1039/d0ob00950d>., Registrované v: WOS*

ADCA403 MATULOVÁ, Mária - TOFFANIN, R. - NAVARINI, L. - GILLI, R. - PAOLETTI, S. - CESARO, A. NMR analysis of succinoglycans from different microbial sources - partial assignment of their H-1 and C-13 NMR spectra and location of the succinate and the acetate groups. In *Carbohydrate Research, 1994, vol. 265, p. 167-179. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00227-4](https://doi.org/10.1016/0008-6215(94)00227-4)*

Citácie:

1. [1.1] HU, Yiluo - JEONG, Daham - KIM, Yohan - KIM, Seonmok - JUNG, Seunho. Preparation of Succinoglycan Hydrogel Coordinated With Fe³⁺ Ions for Controlled Drug Delivery. In *POLYMERS, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.3390/polym12040977>., Registrované v: WOS*
 2. [1.1] TOMULESCU, Caterina - MOSCOVICI, Misu - STOICA, Roxana Madalina - CASARICA, Angela - VLADU, Mariana - NITA, Sultana - DONCIU, Roxana - BEJANARU, Ionica - NEAGU, Georgeta - IONESCU, Robertina - HANGANU, Anamaria - STANCIU, Cristina - BAZDOACA, Cristina - VAMANU, Adrian. Isolation and partial characterization of a polysaccharide produced by *Klebsiella oxytoca* ICCF 419, a newly-isolated strain in Romania. In *ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2020, vol. 25, no. 5, pp. 1861-1876. Dostupné na: <https://doi.org/10.25083/rbl/25.5/1861.1876>., Registrované v: WOS*

ADCA404 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. NMR structural study of fructans produced by *Bacillus* sp. 3B6, bacterium isolated in cloud water. In *Carbohydrate Research, 2011, vol. 346, p. 501-507. (2010: 1.898 - IF, Q2 - JCR, 0.730 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2010.12.012>*

Citácie:

1. [1.1] LIU, Chenxi - KOLIDA, Sofia - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. An evaluation of the prebiotic potential of microbial levans from *Erwinia* sp. 10119. In *JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2020, vol. 64, no., pp. Dostupné na: <https://doi.org/10.1016/j.jff.2019.103668>., Registrované v: WOS*
 2. [1.1] MAGRI, A. - OLIVEIRA, M. R. - BALDO, C. - TISCHER, C. A. - SARTORI, D. - MANTOVANI, M. S. - CELLIGOI, M. A. P. C. Production of fructooligosaccharides by *Bacillus subtilis* natto CCT7712 and their antiproliferative potential. In *JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, 2020, vol. 128, no. 5, pp. 1414-1426. Dostupné na: <https://doi.org/10.1111/jam.14569>., Registrované v: WOS*
 3. [1.1] MENG, Yan - XU, Yujie - CHANG, Cong - QIU, Zhenpeng - HU, Junjie - WU, Yong - ZHANG, Baohui - ZHENG, Guohua. Extraction, characterization and anti-inflammatory activities of an inulin-type fructan from *Codonopsis pilosula*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 1677-1686. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.117>., Registrované v: WOS*
 4. [1.1] ZHANG, Xue - HU, Pei - ZHANG, Xiaorui - LI, Xiaojun. Chemical

- structure elucidation of an inulin-type fructan isolated from Lobelia chinensis lour with anti-obesity activity on diet-induced mice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116357>., Registrované v: WOS*
- ADCA405 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Marie. Biotransformation of various saccharides and production of exopolymeric substances by cloud-borne Bacillus sp. 3B6. In Environmental Science and Technology, 2014, vol. 48, p. 14238-14247. (2013: 5.481 - IF, Q1 - JCR, 2.956 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0013-936X. Dostupné na: <https://doi.org/10.1021/es501350s>
- Citácie:
1. [1.1] DECESARI, Stefano - PAGLIONE, Marco - RINALDI, Matteo - DALL'OSTO, Manuel - SIMO, Rafel - ZANCA, Nicola - VOLPI, Francesca - FACCHINI, Maria Cristina - HOFFMANN, Thorsten - GOETZ, Sven - KAMPF, Christopher Johannes - O'DOWD, Colin - CEBURNIS, Darius - OVADNEVAITE, Jurgita - TAGLIAVINI, Emilio. Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. In ATMOSPHERIC CHEMISTRY AND PHYSICS. ISSN 1680-7316, 2020, vol. 20, no. 7, pp. 4193-4207. Dostupné na: <https://doi.org/10.5194/acp-20-4193-2020>., Registrované v: WOS
- ADCA406 MATULOVÁ, Mária - CAPEK, Peter - KANEKO, Satoshi - NAVARINI, Luciano - LIVERANI, Furio Suggi. Structure of arabinogalactan oligosaccharides derived from arabinogalactan-protein of Coffea arabica instant coffee powder. In Carbohydrate Research, 2011, vol. 346, p. 1029-1036. (2010: 1.898 - IF, Q2 - JCR, 0.730 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2011.03.016>
- Citácie:
1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
2. [1.1] SHAKHMATOV, Evgeny G. - TOUKACH, Philip - MAKAROVA, Elena N. Structural studies of the pectic polysaccharide from fruits of Punica granatum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115978>., Registrované v: WOS
- ADCA407 MAZÁŇ, Marián - RAGNI, Enrico - POPOLO, Laura - FARKAŠ, Vladimír. Catalytic properties of the gas family beta-(1,3)-glucanotransferases active in fungal cell-wall biogenesis as determined by a novel fluorescent assay. In Biochemical Journal, 2011, vol. 438, p. 275-282. (2010: 5.016 - IF, Q1 - JCR, 3.302 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20110405>
- Citácie:
1. [1.1] ANTONIO PORRAS-AGUERA, Juan - CARLOS MAURICIO, Juan - MORENO-GARCIA, Jaime - MORENO, Juan - GARCIA-MARTINEZ, Teresa. A Differential Proteomic Approach to Characterize the Cell Wall Adaptive Response to CO(2)Overpressure during Sparkling Wine-Making Process. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na:

- <https://doi.org/10.3390/microorganisms8081188>, Registrované v: WOS
2. [1.1] LUCENA, Rodrigo Mendonca - DOLZ-EDO, Laura - BRUL, Stanley - DE MORAIS JR, Marcos Antonio - SMITS, Gertien. *Extreme Low Cytosolic pH Is a Signal for Cell Survival in Acid Stressed Yeast*. In GENES, 2020, vol. 11, no. 6, pp. Dostupné na: <https://doi.org/10.3390/genes11060656>, Registrované v: WOS
- ADCA408 MAZÁŇ, Marián - BLANCO, Noelia - KOVÁČOVÁ, Kristína - FIRÁKOVÁ, Zuzana - ŘEHULKA, Pavel - FARKAŠ, Vladimír - ARROYO, Javier. A novel fluorescence assay and catalytic properties of Crh1 and Crh2 yeast cell wall transglycosylases. In Biochemical Journal, 2013, vol. 455, p. 307-318. (2012: 4.654 - IF, Q1 - JCR, 3.122 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20130354>
- Citácie:
1. [1.1] KAPPEL, Lisa - MUNSTERKOTTER, Martin - SIPOS, Gyorgy - ESCOBAR RODRIGUEZ, Carolina - GRUBER, Sabine. *Chitin and chitosan remodeling defines vegetative development and Trichoderma biocontrol*. In PLOS PATHOGENS. ISSN 1553-7366, 2020, vol. 16, no. 2, pp. Dostupné na: <https://doi.org/10.1371/journal.ppat.1008320>, Registrované v: WOS
- ADCA409 MAZÁŇ, Marián - FARKAŠ, Vladimír. Transglutaminase-like activity participates in cell wall biogenesis in Saccharomyces cerevisiae. In Biologia, 2007, vol. 62, p. 128-131. (2006: 0.213 - IF, Q4 - JCR, 0.154 - SJR, Q3 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-007-0038-z>
- Citácie:
1. [1.1] DUARTE, Lovaine - MATTE, Carla Roberta - BIZARRO, Cristiano Valim - AYUB, Marco Antonio Zachia. *Transglutaminases: part I-origins, sources, and biotechnological characteristics*. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2020, vol. 36, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s11274-019-2791-x>, Registrované v: WOS
- ADCA410 VALÁRIKOVÁ, Jana - ČÍŽOVÁ, Alžbeta** - RAČKOVÁ, Lucia - BYSTRICKÝ, Slavomír. Anti-staphylococcal activity of quaternized mannan from the yeast Candida Albicans. In Carbohydrate Polymers, 2020, vol. 240, art. no. 116228 [9] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116288> (Vega č. 2/0098/17 : Imunobiologická efektívnosť nových syntetických imunogénov mimikujúcich fungálne molekulové vzory patogénosti v perspektívnom dizajne subjednotkovej anti-fungálnej vakuinačnej formuly. Vega č. 2/0093/17 : Identifikácia a charakterizácia izolátov V. cholerae z vodných tokov, štrkovísk a termálnych vôd na území Slovenska. APVV-15-0161 : Príprava modelovej subcelulárnej vakcíny z manooligomérnych štruktúr kvasinky Candida albicans)
- Citácie:
1. [1.2] CAVITT, T.B. - CARLISLE, J.G. - DODDS, A.R. - FAULKNER, R.A. - GARFIELD, T.C. - GHEBRANIOUS, V.N. - HENDLEY, P.R. - HENRY, E.B. - HOLT, Ch.J. - LOWE, J.R. - LOWRY, J.A. - OSKIN, D.S. - PATEL, P.R. - SMITH, D. - WEI, W. *Thermodynamic Surface Analyses to Inform Biofilm Resistance*. In iScience, 2020-11-20, 23, 11, pp., Registrované v: SCOPUS
- ADCA411 VALÁRIKOVÁ, Jana** - KORCOVÁ, Jana, Vráblová - ZIBUROVÁ, Jana - ROSINSKÝ, Jozef - ČÍŽOVÁ, Alžbeta - HÁNYŠOVÁ, Sandra - SOJKA, Martin - FARKAŠ, Pavol. Potential pathogenicity and antibiotic resistance of aquatic Vibrio isolates from freshwater in Slovakia. In Folia Microbiologica, 2020, vol. 65, p. 545-555. (2019: 1.730 - IF, Q4 - JCR, 0.514 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0015-5632. Dostupné na:

<https://doi.org/10.1007/s12223-019-00760-w>

Citácie:

1. [1.1] FU, Huiyu - YU, Pan - LIANG, Weili - KAN, Biao - PENG, Xu - CHEN, Lanming. Virulence, Resistance, and Genomic Fingerprint Traits of *Vibrio cholerae* Isolated from 12 Species of Aquatic Products in Shanghai, China. In *MICROBIAL DRUG RESISTANCE*. ISSN 1076-6294, 2020, vol. 26, no. 12, pp. 1526-1539. Dostupné na: <https://doi.org/10.1089/mdr.2020.0269>., Registrované v: WOS

2. [1.1] SIPKO, Jozef. From Corona Virus, to Kollar Virus. In *JAZYK A POLITIKA: NA POMEDZI LINGVISTIKY A POLITOLOGIE V.*, 2020, vol., no., pp. 347-356., Registrované v: WOS

- ADCA412 MÍČOVÁ, Júlia** - BURYI, Maksym - ŠIMEK, Daniel - DRAHOKOUPIL, Jan - NEYKOVA, Neda - CHANG, Yu-Ying - REMEŠ, Zdeněk - POP-GEORGIEVSKI, Ognen - SVOBODA, Jan - IM, Chan. Synthesis of zinc oxide nanostructures and comparison of their crystal quality. In *Applied Surface Science*, 2018, vol. 461, p. 190-195. (2017: 4.439 - IF, Q1 - JCR, 1.093 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: <https://doi.org/10.1016/j.apsusc.2018.05.176>

Citácie:

1. [1.1] CASAMASSA, Enrico - FIORAVANTI, Ambra - MAZZOCCHI, Mauro - CAROTTA, Maria Cristina - FAGA, Maria Giulia. Abrasive properties of ZnO: Influence of different nanoforms. In *TRIBOLOGY INTERNATIONAL*. ISSN 0301-679X, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.triboint.2019.105984>., Registrované v: WOS

2. [1.1] SAVCHENKO, Dariya - VASIN, Andrii - KUZ, Oleksandr - VEROVSKY, Igor - PROKHOROV, Andrey - NAZAROV, Alexey - LANCOK, Jan - KALABUKHOVA, Ekaterina. Role of the paramagnetic donor-like defects in the high n-type conductivity of the hydrogenated ZnO microparticles. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74449-3>., Registrované v: WOS

- ADCA413 MILLER, Gavin J. - HANSEN, Steen U. - BARÁTH, Marek - JOHANNESSEN, Christian - BLANCH, Ewan W. - JAYSON, Grodon C. - GARDINER, John M. Synthesis of heparin-related GlcN-IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy. In *Carbohydrate Research*, 2014, vol. 400, p. 44-53. (2013: 1.966 - IF, Q2 - JCR, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.06.026>

Citácie:

1. [1.1] TOWNSEND, David J. - MIDDLETON, David A. - ASHTON, Lorna. Raman Spectroscopy with 2D Perturbation Correlation Moving Windows for the Characterization of Heparin-Amyloid Interactions. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2020, vol. 92, no. 20, pp. 13822-13828. Dostupné na: <https://doi.org/10.1021/acs.analchem.0c02390>., Registrované v: WOS

- ADCA414 MIRABELLA, Stefania - D'ADAMIO, Giampiero - MATASSINI, Camilla - GOTI, Andrea - DELGADO, Sandra - GIMENO, Ana - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. - ŠESTÁK, Sergej - JIMÉNEZ-BARBERO, Jesus - CARDONA, Francesca. Mechanistic insight into the binding of multivalent pyrrolidines to alpha-mannosidases. In *Chemistry - A European Journal*, 2017, vol. 23, p. 14585-14596. (2016: 5.317 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201703011>

Citácie:

1. [1.1] COMPAIN, Philippe. Multivalent Effect in Glycosidase Inhibition: The End of the Beginning. In *CHEMICAL RECORD*. ISSN 1527-8999, 2020, vol. 20, no. 1, pp. 10-22. Dostupné na: <https://doi.org/10.1002/tcr.201900004>., Registrované v: WOS
2. [1.1] GONZALEZ-CUESTA, Manuel - MELLET, Carmen Ortiz - GARCIA FERNANDEZ, Jose M. Carbohydrate supramolecular chemistry: beyond the multivalent effect. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2020, vol. 56, no. 39, pp. 5207-5222. Dostupné na: <https://doi.org/10.1039/d0cc01135e>., Registrované v: WOS
3. [1.1] SCHNEIDER, Jeremy P. - TOMMASONE, Stefano - DELLA SALA, Paolo - GAETA, Carmine - TALOTTA, Carmen - TARNUS, Celine - NERI, Placido - BODLENNER, Anne - COMPAIN, Philippe. Synthesis and Glycosidase Inhibition Properties of Calix[8]arene-Based Iminosugar Click Clusters. In *PHARMACEUTICALS*, 2020, vol. 13, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ph13110366>., Registrované v: WOS

ADCA415 MIRANDE, C. - KADLEČÍKOVÁ, E. - MATULOVÁ, Mária - CAPEK, Peter - BERNALIER-DONADILLE, A. - FORANO, E. - BÉRA-MAILLET, C. Dietary fibre degradation and fermentation by two xylanolytic bacteria *Bacteroides xyloisolvans* XB1A T and *Roseburia intestinalis* XB6B4 from human intestine. In *Journal of Applied Microbiology*, 2010, vol. 109, p. 451-460. (2009: 2.098 - IF, Q2 - JCR, 0.959 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1364-5072. Dostupné na: <https://doi.org/10.1111/j.1365-2672.2010.04671.x>

Citácie:

1. [1.1] SELBER-HNATIW, Susannah - SULTANA, Tarin - TSE, W. - ABDOLLAHI, Niki - ABDULLAH, Sheyar - AL RAHBANI, Jalal - ALAZAR, Diala - ALRUMHEIN, Nekoula Jean - APRIKIAN, Saro - ARSHAD, Rimsha - AZUELOS, Jean-Daniel - BERNADOTTE, Daphney - BESWICK, Natalie - CHAZBEY, Hana - CHURCH, Kelsey - CIUBOTARU, Emaly - D';AMATO, Lora - DEL CORPO, Tavia - DENG, Jasmine - DI GIULIO, Briana Laura - DIVEEVA, Diana - ELAHIE, Elias - GORDON, James - FRANK, Marcel - FURZE, Emma - GARNER, Rebecca - GIBBS, Vanessa - GOLDBERG--HALL, Rachel - GOLDMAN, Chaim Jacob - GOLTSIOS, Fani-Fay - GORJIPOUR, Kevin - GRANT, Taylor - GRECO, Brittany - GULIYEV, Nadir - HABRICH, Andrew - HYLAND, Hillary - IBRAHIM, Nabila - IOZZO, Tania - JAWAHEER-FENAOUI, Anastasia - JAWORSKI, Julia Jane - JHAJJ, Maneet Kaur - JONES, Jermaine - JOYETTE, Rodney - KAUDEER, Samad - KELLEY, Shawn - KIANI, Shayesteh - KOAYES, Marylin - AMY-AMINTA, Abby Johanna - KPATA, Lena - MAINGOT, Shannon - MARTIN, Sara - MATHERS, Kelly - MCCULLOGH, Sean - MCNAMARA, Kelly - MENDONCA, James - MOHAMMAD, Karamat - MOMTAZ, Sharara Arezo - NAVARATNARAJAH, Thiban - NGUYEN-DUONG, Kathy - OMRAN, Mustafa - ORTIZ, Angela - PATEL, Anjali - PAUL-COLE, Kahlila - PLAISIR, Paul-Arthur - MARROQUIN, Jessica Alexandra Porras - PREVOST, Ashlee - QUACH, Angela - RAFAL, Aries John - RAMSARUN, Rewaparsad - RHNIMA, Sami - RILI, Lydia - SAFIR, Naomi - SAMSON, Eugenie - SANDIFORD, Rebecca Rose - SECONDI, Stefano - SHAHID, Stephanie - SHAHROOZI, Mojdeh - SIDIBE, Fily - SMITH, Megan - FLORES, Alina Maria Sreng - YBARRA, Anabel Suarez - SENECHAL, Rebecca - TAIFOUR, Tarek - TANG, Lawrence - TRAPID, Adam - POTVIN, Maxim Tremblay - WAINBERG, Justin - WANG, Dani Ni - WEISSENBERG, Mischa - WHITE, Allison - WILKINSON, Gabrielle - WILLIAMS, Brittany - WILSON, Joshua Roth - ZOPPI, Johanna - ZOUBOULAKIS, Katerina - GAMBERI, Chiara. Metabolic networks of the human gut microbiota. In *MICROBIOLOGY-SGM*. ISSN 1350-0872, 2020,

- vol. 166, no. 2, pp. 96-119. Dostupné na: <https://doi.org/10.1099/mic.0.000853>., Registrované v: WOS
2. [1.1] SERGEEV, Igor N. - ALJUTAILY, Thamer - WALTON, Gemma - HUARTE, Eduardo. Effects of Synbiotic Supplement on Human Gut Microbiota, Body Composition and Weight Loss in Obesity. In NUTRIENTS, 2020, vol. 12, no. 1, pp. Dostupné na: <https://doi.org/10.3390/nu12010222>., Registrované v: WOS
3. [1.1] SHEWA, Wudneh Ayele - HUSSAIN, Abid - CHANDRA, Rashmi - LEE, Jangho - SAHA, Swakshar - LEE, Hyung-Sool. Valorization of food waste and economical treatment: Effect of inoculation methods. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2020, vol. 261, no., pp. Dostupné na: <https://doi.org/10.1016/j.jclepro.2020.121170>., Registrované v: WOS
4. [1.1] TIWARI, Utsav P. - FLEMING, Stephen A. - ABDUL RASHEED, Muhammed S. - JHA, R. - DILGER, Ryan N. The role of oligosaccharides and polysaccharides of xylan and mannan in gut health of monogastric animals. In JOURNAL OF NUTRITIONAL SCIENCE. ISSN 2048-6790, 2020, vol. 9, no., pp. Dostupné na: <https://doi.org/10.1017/jns.2020.14>., Registrované v: WOS
- ADCA416 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - ŠVITEL, J. - ŠOLTÉS, Ladislav - GEMEINER, Peter - DANIELSSON, B. - MENDICHI, Raniero. Neoglycoconjugates of mannan with bovine serum albumin and their interaction with lectin concanavalin A. In Bioconjugate chemistry. - Washington : American Chemical Society, 2002, vol. 13, p. 136-142. (2001: 3.044 - IF). ISSN 1043-1802. Dostupné na: <https://doi.org/10.1021/bc015517u>
- Citácie:
1. [1.1] LI, T.S. - ZHANG, H.M. - GUO, Y. - ZHU, T. - YU, P. - MENG, X. Efficient chemoenzymatic synthesis of fluorinated sialyl Thomsen-Friedenreich antigens and investigation of their characteristics. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, DEC 15 2020, vol. 208., Registrované v: WOS
2. [1.1] QIN, J.F. - HAO, H.Y. - YAO, C.Z. - JIN, T.T. - YANG, H.Y. Investigating the Effects of Two Different Carbon Materials on the Sensitivity of an Electrochemical Impedimetric Lectin-Based Biosensor. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 1, p. 639-650., Registrované v: WOS
- ADCA417 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica - GEMEINER, Peter - MICHALKOVÁ, E. Biospecific immobilization of mannan-penicillin G acylase neoglycoenzyme on Concanavalin A-bead cellulose. In Journal of Biotechnology, 2004, vol. 110, p. 11-19. ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2004.01.006>
- Citácie:
1. [1.1] JOSE FABRA, Maria - SEBA-PIERA, Isabel - TALENS-PERALES, David - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Revalorization of cellulosic wastes from Posidonia oceanica and Arundo donax as catalytic materials based on affinity immobilization of an engineered beta-galactosidase. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2019.105633>., Registrované v: WOS
- ADCA418 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BUČKO, Marek - GEMEINER, Peter. Stability of penicillin G acylase modified with various polysaccharides. In Enzyme and Microbial Technology, 2006, vol. 39, p. 579-585. (2005: 1.705 - IF, Q2 - JCR, 0.922 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2005.11.012>
- Citácie:

1. [1.1] COBOS-PUC, Luis - RODRIGUEZ-HERRERA, Raul - CANO-CABRERA, Juan C. - AGUAYO-MORALES, Hilda - SILVA-BELMARES, Sonia Y. - GALLEGOS, Adriana C. F. - HERNANDEZ, Jose L. M. *Classical and New Pharmaceutical Uses of Bacterial Penicillin G Acylase. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2020, vol. 21, no. 4, pp. 287-297. Dostupné na: <https://doi.org/10.2174/138920102066619111151642>, Registrované v: WOS*
- ADCA419 MISLOVIČOVÁ, Danica - MICHÁLKOVÁ, E. - VIKARTOVSKÁ, Alica. Immobilized glucose oxidase on different supports for biotransformation removal of glucose from oligosaccharide mixture. In *Process Biochemistry*, 2007, vol. 42, p. 704-709. Dostupné na: <https://doi.org/10.1016/j.procbio.2006.11.001>
- Citácie:
1. [1.1] WIDI, Restu Kartiko - CHRISNASARI, Ruth - BUDHYANTORO, Arief - CHRISTIE, Stephanie Devina. *IMMOBILIZATION OF GLUCOSE OXIDASE ON ACID ACTIVATED-BENTONITE AND ITS PERFORMANCE EXAMINATION. In UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE. ISSN 1454-2331, 2020, vol. 82, no. 3, pp. 113-124., Registrované v: WOS*
- ADCA420 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BENDZALOVA, K. - ŠOLTÉS, Ladislav - MACHOVÁ, Eva. Sonication of chitin-glucan, preparation of water-soluble fractions and characterization by HPLC. In *Ultrasonics Sonochemistry*, 2000, vol. 7, no. 2, p. 63-68. (1999: 1.732 - IF, karentované - CCC). (2000 - Current Contents). ISSN 1350-4177. Dostupné na: [https://doi.org/10.1016/S1350-4177\(99\)00030-9](https://doi.org/10.1016/S1350-4177(99)00030-9)
- Citácie:
1. [1.1] ARAUJO, D. - FERREIRA, I.C. - TORRES, C.A.V. - NEVES, L. - FREITAS, F. *Chitinous polymers: extraction from fungal sources, characterization and processing towards value-added applications. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2020, vol. 95, no. 5, p. 1277-1289., Registrované v: WOS*
 2. [1.1] CAI, C.Y. - WANG, Y.N. - YU, W. - WANG, C.Y. - LI, F.F. - TAN, Z.J. *Temperature-responsive deep eutectic solvents as green and recyclable media for the efficient extraction of polysaccharides from Ganoderma lucidum. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, NOV 20 2020, vol. 274., Registrované v: WOS*
 3. [1.2] ARAÚJO, D. - ALVES, V.D. - MARQUES, A.C. - FORTUNATO, E. - REIS, M.A.M. - FREITAS, F. *Low temperature dissolution of yeast Chitin-Glucan complex and characterization of the regenerated polymer. In BIOENGINEERING-BASEL. E-ISSN:2306-5354, 2020, vol. 7, no. 1, art. no. 28., Registrované v: SCOPUS*
- ADCA421 MLČOCHOVÁ, D. - BYSTRICKÝ, Slavomír - STEINER, Bohumil - MACHOVÁ, Eva - KOŮŠ, Miroslav - VELEBNÝ, V. - KRČMÁŘ, M. Synthesis and characterization of new biodegradable hyaluronan alkyl derivatives. In *Biopolymers*, 2006, vol. 82, p. 74-79. (2005: 2.545 - IF, Q2 - JCR, 1.278 - SJR, Q1 - SJR). ISSN 0006-3525. Dostupné na: <https://doi.org/10.1002/bip.20461>
- Citácie:
1. [1.1] FERGUSON, Elaine L. - VARACHE, Mathieu - STOKNIENE, Joana - THOMAS, David W. *Polysaccharides for protein and peptide conjugation. In POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION AND BEYOND, 2020, vol., no., pp. 421-453., Registrované v: WOS*
 2. [1.1] HAJOVSKA, Pavla - CHYTIL, Martin - KALINA, Michal. *Rheological study of albumin and hyaluronan-albumin hydrogels: Effect of concentration,*

ionic strength, pH and molecular weight. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 161, no., pp. 738-745. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.063>.,

Registrované v: WOS

- ADCA422 MOLNÁR, O. - MESSNER, R. - PRILLINGER, H. - STAHL, U. - SLÁVIKOVÁ, Elena. Genotypic identification of *Saccharomyces* species using random amplified polymorphic DNA analysis. In *Systematic and Applied Microbiology*, 1995, vol. 18, p. 136-145.

Citácie:

1. [1.1] ROESKE, Katarzyna - ZASUN, Aleksandra - CIESLIK, Justyna - WROBLEWSKAZ, Marta - JAGIELSKI, Tomasz. *SACCHAROMYCES CEREVISIAE VAR. BOULARDII PROBIOTIC YEASTS AS ETIOLOGICAL AGENTS OF OPORTUNISTIC INFECTIONS IN HUMANS. In ADVANCEMENTS OF MICROBIOLOGY. ISSN 0079-4252, 2020, vol. 59, no. 3, pp. 291-303. Dostupné na: <https://doi.org/10.21307/PM-2020.59.3.21>.,*

Registrované v: WOS

- ADCA423 MOLNÁROVÁ, Jana - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Extracellular enzymatic activities and physiological profiles of yeasts colonizing fruit trees. In *Journal of Basic Microbiology*, 2014, vol. 54, p. S74-S84. (2013: 1.822 - IF, Q3 - JCR, 0.536 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.201300072>

Citácie:

1. [1.1] BARRILLI, Evelyn T. - TADIOTO, Viviani - MILANI, Leticia M. - DEOTI, Junior R. - FOGOLARI, Odinei - MULLER, Caroline - BARROS, Katharina O. - ROSA, Carlos A. - DOS SANTOS, Angela A. - STAMBUK, Boris U. - TREICHEL, Helen - ALVES JR, Sergio L. Biochemical analysis of cellobiose catabolism in *Candida pseudointermedia* strains isolated from rotten wood. In *ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, 2020, vol. 202, no. 7, pp. 1729-1739.*

Dostupné na: <https://doi.org/10.1007/s00203-020-01884-1>., Registrované v: WOS

2. [1.1] DI FRANCESCO, Alessandra - DI FOGGIA, Michele - ZAJC, Janja - GUNDE-CIMERMAN, Nina - BARALDI, Elena. Study of the efficacy of *Aureobasidium* strains belonging to three different species: *A. pullulans*, *A. subglaciale* and *A. melanogenum* against *Botrytis cinerea* of tomato. In *ANNALS OF APPLIED BIOLOGY. ISSN 0003-4746, 2020, vol. 177, no. 2, pp. 266-275.*

Dostupné na: <https://doi.org/10.1111/aab.12627>., Registrované v: WOS

3. [1.1] FARIAN, Ewelina - CHOLEWA, Grazyna - CHOLEWA, Alicja - MATCZUK, Magdalena - ANGELINA, Wojcik-Fatla. The effect of fruit on the extracellular enzyme profiles of fungi. In *ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE. ISSN 1232-1966, 2020, vol. 27, no. 4, pp. 562-567. Dostupné na: <https://doi.org/10.26444/aaem/127557>., Registrované v: WOS*

4. [1.1] MAJUMDER, Rajib - SUTCLIFFE, Brodie - TAYLOR, Phillip W. - CHAPMAN, Toni A. Fruit host-dependent fungal communities in the microbiome of wild Queensland fruit fly larvae. In *SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-73649-1>., Registrované v: WOS*

5. [1.1] YI, Tuyong - LEI, Ling - HE, Ling - YI, Jianglan - LI, Lingguo - DAI, Liangying - HONG, Yanyun. Symbiotic Fungus Affected the Asian Citrus Psyllid (ACP) Resistance to Imidacloprid and Thiamethoxam. In *FRONTIERS IN MICROBIOLOGY, 2020, vol. 11, no., pp. Dostupné na:*

<https://doi.org/10.3389/fmicb.2020.522164>., Registrované v: WOS

- ADCA424 MONOŠÍK, Rastislav - STREĎANSKÝ, Miroslav - LUŠPAI, Karol - MAGDOLEN, Peter - ŠTURDÍK, Ernest. Amperometric glucose biosensor utilizing

FAD-dependent glucose dehydrogenase immobilized on nanocomposite electrode. In *Enzyme and Microbial Technology*, 2012, vol. 50, p. 227-232. ISSN 0141 0229.
Dostupné na: <https://doi.org/10.1016/j.enzmictec.2012.01.004>

Citácie:

1. [1.1] MASAKARI, Yosuke - HARA, Chiaki - ARAKI, Yasuko - GOMI, Keiko - ITO, Kotaro. Improvement in the thermal stability of *Mucor prainii*-derived FAD-dependent glucose dehydrogenase via protein chimerization. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 132, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109387>., Registrované v: WOS
2. [1.1] ZUMANO, Rosaceleste - LAMBERTINI, Laura - TORTOLINI, Cristina - BOLLELLA, Paolo - FAVERO, Gabriele - ANTIOCHIA, Riccarda - MAZZEI, Franco. A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. In *JOURNAL OF POWER SOURCES*. ISSN 0378-7753, 2020, vol. 476, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.228615>., Registrované v: WOS

ADCA425 MONOŠÍK, Rastislav - MAGDOLEN, Peter - STREĎANSKÝ, Miroslav - ŠTURDÍK, Ernest. Monitoring of monosaccharides, oligosaccharides, ethanol and glycerol during wort fermentation by biosensors, HPLC and spectrophotometry. In *Food Chemistry*, 2013, vol. 138, p. 220-226. (2012: 3.334 - IF, Q1 - JCR, 1.762 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0308-8146.
Dostupné na: <https://doi.org/10.1016/j.foodchem.2012.10.039>

Citácie:

1. [1.1] MOTIA, Soukaina - BOUCHIKHI, Benachir - LLOBET, Eduard - EL BARI, Nezha. Synthesis and characterization of a highly sensitive and selective electrochemical sensor based on molecularly imprinted polymer with gold nanoparticles modified screen-printed electrode for glycerol determination in wastewater. In *TALANTA*. ISSN 0039-9140, 2020, vol. 216, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120953>., Registrované v: WOS

ADCA426 MONOŠÍK, Rastislav - STREDANSKÝ, Miroslav - TKÁČ, Ján - ŠTURDÍK, Ernest. Application of enzyme biosensors in Analysis of food and beverages. In *Food Analytical Methods*, 2012, vol. 5, p. 40-53. (2011: 1.943 - IF, Q2 - JCR, 0.636 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1936-9751.
Dostupné na: <https://doi.org/10.1007/s12161-011-9222-4>

Citácie:

1. [1.1] ARIVAZHAGAN, Mani - SHANKAR, Ayyavu - MADURAIVEERAN, Govindhan. Hollow sphere nickel sulfide nanostructures-based enzyme mimic electrochemical sensor platform for lactic acid in human urine. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04431-3>., Registrované v: WOS
2. [1.1] BURUAGA-RAMIRO, Carolina - VALENZUELA, Susana V. - VALLS, Cristina - RONCERO, M. Blanca - PASTOR, F. I. Javier - DIAZ, Pilar - MARTINEZ, Josefina. Bacterial cellulose matrices to develop enzymatically active paper. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3413-3426. Dostupné na: <https://doi.org/10.1007/s10570-020-03025-9>., Registrované v: WOS
3. [1.1] GEBALLA-KOUKOULA, Ariadni - GERSSEN, Arjen - NIELEN, Michel W. F. Direct analysis of lateral flow immunoassays for deoxynivalenol using electrospray ionization mass spectrometry. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2020, vol. 412, no. 27, pp. 7547-7558. Dostupné na: <https://doi.org/10.1007/s00216-020-02890-4>.,

Registrované v: WOS

4. [1.1] MANOJ, D. - AUDDY, I - NIMBKAR, S. - CHITTIBABU, S. - SHANMUGASUNDARAM, S. Development of co-immobilised enzymes amperometric biosensor for the determination of triglycerides in coconut milk. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2020, vol. 27, no. 5, pp. 875-882., *Registrované v: WOS*

5. [1.1] SMART, A. - CREW, A. - PEMBERTON, R. - HUGHES, G. - DORAN, O. - HART, J. P. Screenprinted carbon based biosensors and their applications in agri-food safety. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 127, no., pp. *Dostupné na:*
<https://doi.org/10.1016/j.trac.2020.115898>., *Registrované v: WOS*

ADCA427 MONRAD, Rune Nygaard** - EKLOF, Jens - KROGH, Kristian B.R. - BIELY, Peter**. Glucuronoyl esterases: diversity, properties and biotechnological potential. A review. In *Critical Reviews in Biotechnology*, 2018, vol. 38, p. 1121-1136. (2017: 5.239 - IF, Q1 - JCR, 1.243 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0738-8551. *Dostupné na:*
<https://doi.org/10.1080/07388551.2018.1468316>

Citácie:

1. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. *Dostupné na:* <https://doi.org/10.1038/s41467-020-14833-9>., *Registrované v: WOS*

2. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAI, Aniko. Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. *Dostupné na:* <https://doi.org/10.1007/s10295-020-02301-8>., *Registrované v: WOS*

ADCA428 MOORE, Laura - GROBÁROVÁ, Valéria - SHEN, Helen - MAN, Han Bin - MIČOVÁ, Júlia - LEDVINA, Miroslav - ŠTURSA, Ján - NESLÁDEK, Miloš - FIŠEROVÁ, Anna - HO, Dean. Comprehensive interrogation of the cellular response to fluorescent, detonation and functionalized nanodiamonds. In *Nanoscale*, 2014, vol. 6, p. 11712-11721. (2013: 6.739 - IF, Q1 - JCR, 2.550 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 2040-3364. *Dostupné na:*
<https://doi.org/10.1039/c4nr02570a>

Citácie:

1. [1.1] ALI, Moustafa S. - METWALLY, Abdelkader A. - FAHMY, Rania H. - OSMAN, Rihab. Chitosan-coated nanodiamonds: Mucoadhesive platform for intravesical delivery of doxorubicin. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 245, no., pp. *Dostupné na:*
<https://doi.org/10.1016/j.carbpol.2020.116528>., *Registrované v: WOS*

2. [1.1] FERNANDES, Fiona - KOTHARKAR, Pooja - CHAKRAVORTY, Adrija - KOWSHIK, Meenal - TALUKDAR, Indrani. Nanocarrier Mediated siRNA Delivery Targeting Stem Cell Differentiation. In *CURRENT STEM CELL RESEARCH & THERAPY*. ISSN 1574-888X, 2020, vol. 15, no. 2, pp. 155-172., *Registrované v: WOS*

3. [1.1] GUO, Yuliang - CHEN, Yang - HAN, Pomchol - LIU, Yuxiong - LI, Wenhao - ZHU, Fangliang - FU, Kai - CHU, Maoquan. Biocompatible chitosan-carbon nanocage hybrids for sustained drug release and highly efficient laser and microwave co-irradiation induced cancer therapy. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2020, vol. 103, no., pp. 237-246. *Dostupné na:*

<https://doi.org/10.1016/j.actbio.2019.12.010>., Registrované v: WOS

4. [1.1] JARIWALA, Dhruvil Hiteshkumar - PATEL, Dhrumi - WAIRKAR, Sarika. Surface functionalization of nanodiamonds for biomedical applications. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2020, vol. 113, no., pp. Dostupné na:

<https://doi.org/10.1016/j.msec.2020.110996>., Registrované v: WOS

5. [1.1] LAI, H. - STENZEL, M. H. - XIAO, P. Surface engineering and applications of nanodiamonds in cancer treatment and imaging. In INTERNATIONAL MATERIALS REVIEWS. ISSN 0950-6608, 2020, vol. 65, no. 4, pp. 189-225. Dostupné na: <https://doi.org/10.1080/09506608.2019.1622202>., Registrované v: WOS

6. [1.1] LIU, Yen-Yiu - CHANG, Be-Ming - CHANG, Huan-Cheng. Nanodiamond-enabled biomedical imaging. In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 16, pp. 1599-1616. Dostupné na:

<https://doi.org/10.2217/nnm-2020-0091>., Registrované v: WOS

7. [1.1] MARCINKIEWICZ, Cezary - LELKES, Peter - STERNBERG, Mark - FEUERSTEIN, Giora Z. Effects of Fluorescent Diamond Particles FDP-NV-800nm on Essential Biochemical Functions of Primary Human Umbilical Vein Cells and Human Hepatic Cell Line, HepG-2 in vitro (Part VI): Acute Biocompatibility Studies. In NANOTECHNOLOGY SCIENCE AND APPLICATIONS. ISSN 1177-8903, 2020, vol. 13, no., pp. 103-118. Dostupné na: <https://doi.org/10.2147/NSA.S268107>., Registrované v: WOS

ADCA429 MOSNÁČEK, Jaroslav - POPELKA, Anton - OSIČKA, Josef - FILIP, Jaroslav - ILČIKOVÁ, Markéta - KOLLÁR, Jozef - YOUSAF, Ammar B. - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter**. Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. In Journal of Colloid and Interface Science, 2018, vol. 512, p. 511-521. (2017: 5.091 - IF, Q1 - JCR, 1.221 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2017.10.086>

Citácie:

1. [1.1] HE, J.L. - ZHANG, L. - LIU, L. Improving thermal conduction across cathode/electrolyte interfaces in solid-state lithium-ion batteries by hierarchical hydrogen-bond network. In MATERIALS & DESIGN. ISSN 0264-1275, SEP 2020, vol. 194., Registrované v: WOS

2. [1.1] XING, H.T. - CHENG, J. - ZHOU, C.L. Effect of gradient wettability on capillary imbibition in open semicircular copper channel. In PHYSICS OF FLUIDS. ISSN 1070-6631, NOV 1 2020, vol. 32, no. 11., Registrované v: WOS

ADCA430 MRÁZKOVÁ, Blanka - DZIJAČ, Rastislav - IMRICHOVÁ, Terezie - KYJAČOVÁ, Lenka - BARÁTH, Peter - DŽUBÁK, Petr - HOLUB, Dušan - HAJDUCH, Marian - NAHACKÁ, Zuzana - ANDERA, Ladislav - HOLÍČEK, Petr - VAŠICOVÁ, Pavla - SAPEGA, Olena - BARTEK, Jiří** - HODNÝ, Zdeněk**. Induction, regulation and roles of neural adhesion molecule L1CAM in cellular senescence. In Aging, 2018, vol. 10, p. 434-462. (2017: 5.179 - IF, Q1 - JCR, 2.230 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1945-4589. Dostupné na: <https://doi.org/10.18632/aging.101404>

Citácie:

1. [1.1] ERBABA, Begun - BURHAN, Ozge Pelin - SERIFOGLU, Naz - MURATOGLU, Bihter - KAHVECI, Fatma - ADAMS, Michelle M. - ARSLAN-ERGUL, Ayca. Zebrafish brain RNA sequencing reveals that cell adhesion molecules are critical in brain aging. In NEUROBIOLOGY OF AGING. ISSN 0197-4580, 2020, vol. 94, no., pp. 164-175. Dostupné na: <https://doi.org/10.1016/j.neurobiolaging.2020.04.017>., Registrované v: WOS

ADCA431 NABARLATZ, D. - EBRINGEROVÁ, Anna - MONTANÉ, D. Autohydrolysis of agricultural by-products for the production of xylo-oligosaccharides. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2007, vol. 69, p. 20-28. (2006: 1.784 - IF, Q1 - JCR, 0.827 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2006.08.020>

Citácie:

1. [1.1] ACOSTA-FERNANDEZ, Rolando - POERIO, Teresa - NABARLATZ, Debora - GIORNO, Lidietta - MAZZEI, Rosalinda. Enzymatic Hydrolysis of Xylan from Coffee Parchment in Membrane Bioreactors. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2020, vol. 59, no. 16, pp. 7346-7354. Dostupné na: <https://doi.org/10.1021/acs.iecr.9b06429>., Registrované v: WOS
2. [1.1] ATAEL, Davoud - HAMIDI-ESFAHANI, Zohreh - AHMADI-GAVLIGHI, Hassan. Enzymatic production of xylooligosaccharide from date (Phoenix dactylifera L.) seed. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, 2020, vol. 8, no. 12, pp. 6699-6707. Dostupné na: <https://doi.org/10.1002/fsn3.1964>., Registrované v: WOS
3. [1.1] AZEVEDO CARVALHO, Ana Flavia - DE FIGUEIREDO, Franciane Cristina - CAMPIONI, Tania Sila - PASTORE, Glaucia Maria - NETO, Pedro de Oliva. Improvement of some chemical and biological methods for the efficient production of xylanases, xylooligosaccharides and lignocellulose from sugar cane bagasse. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 143, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105851>., Registrované v: WOS
4. [1.1] CAO, Rou - GUO, Jianming - HUA, Xia - XU, Yong. Investigation on decolorization kinetics and thermodynamics of lignocellulosic xylooligosaccharides by highly selective adsorption with Amberlite XAD-16N. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 310, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.125934>., Registrované v: WOS
5. [1.1] FUNEZ-NUNEZ, I. - GARCIA-SANCHO, C. - CECILIA, J. A. - MORENO-TOST, R. - SERRANO-CANTADOR, L. - MAIRELES-TORRES, P. Recovery of pentoses-containing olive stones for their conversion into furfural in the presence of solid acid catalysts. In PROCESS SAFETY AND ENVIRONMENTAL PROTECTION. ISSN 0957-5820, 2020, vol. 143, no., pp. 1-13. Dostupné na: <https://doi.org/10.1016/j.psep.2020.06.033>., Registrované v: WOS
6. [1.1] GARCIA-MARTIN, Juan Francisco - CUEVAS, Manuel - FENG, Chao-Hui - ALVAREZ MATEOS, Paloma - TORRES GARCIA, Miguel - SANCHEZ, Sebastian. Energetic Valorisation of Olive Biomass: Olive-Tree Pruning, Olive Stones and Pomaces. In PROCESSES, 2020, vol. 8, no. 5, pp. Dostupné na: <https://doi.org/10.3390/pr8050511>., Registrované v: WOS
7. [1.1] GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108090>., Registrované v: WOS
8. [1.1] HUANG, Chen - FANG, Guigan - ZHOU, Yang - DU, Xinghu - YU, Longxiang - MENG, Xianzhi - LI, Mi - YOO, Chang Geun - CHEN, Bingwei - ZHAI, Shengcheng - GUAN, Qiyuan - YONG, Qiang - RAGAUSKAS, Arthur J. Increasing the Carbohydrate Output of Bamboo Using a Combinatorial Pretreatment. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN

- 2168-0485, 2020, vol. 8, no. 19, pp. 7380-7393. Dostupné na:
<https://doi.org/10.1021/acssuschemeng.0c01126>., Registrované v: WOS
9. [1.1] JIA, Chengsheng - CAO, Dandan - JI, Suping - LIN, Weiting - ZHANG, Xiaoming - MUHOZA, Bertrand. Whey protein isolate conjugated with xylo-oligosaccharides via maillard reaction: Characterization, antioxidant capacity, and application for lycopene microencapsulation. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 118, no., pp. Dostupné na:
<https://doi.org/10.1016/j.lwt.2019.108837>., Registrované v: WOS
10. [1.1] KAMMOUN, Maroua - AYEB, Haitham - BETTAIEB, Taoufik - RICHEL, Aurore. Chemical characterisation and technical assessment of agri-food residues, marine matrices, and wild grasses in the South Mediterranean area: A considerable inflow for biorefineries. In *WASTE MANAGEMENT*. ISSN 0956-053X, 2020, vol. 118, no., pp. 247-257. Dostupné na:
<https://doi.org/10.1016/j.wasman.2020.08.032>., Registrované v: WOS
11. [1.1] RAZALI, Siti Aisyah - SHAMSIR, Mohd Shahir. Characterisation of a catalytic triad and reaction selectivity in the dual mechanism of the catalyse hydride transfer in xylitol phosphate dehydrogenase. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2020, vol. 97, no., pp. Dostupné na: <https://doi.org/10.1016/j.jmngm.2020.107548>., Registrované v: WOS
12. [1.1] RINCON, Esther - ZULIANI, Alessio - JIMENEZ-QUERO, Amparo - VILAPLANA, Francisco - LUQUE, Rafael - SERRANO, Luis - BALU, Alina M. Combined Extraction/Purification-Catalytic Microwave-Assisted Conversion of *Laurus nobilis* L. Pruning Waste Polysaccharides into Methyl Levulinate. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 29, pp. 11016-11023. Dostupné na:
<https://doi.org/10.1021/acssuschemeng.0c04161>., Registrované v: WOS
13. [1.1] THANI, Nurfatimah Mohd - KAMAL, Siti Mazlina Mustapa - SULAIMAN, Alifdalino - TAIP, Farah Saleena - OMAR, Rozita - IZHAR, Shamsul. Sugar Recovery from Food Waste via Sub-critical Water Treatment. In *FOOD REVIEWS INTERNATIONAL*. ISSN 8755-9129, 2020, vol. 36, no. 3, pp. 241-257. Dostupné na: <https://doi.org/10.1080/87559129.2019.1636815>., Registrované v: WOS
14. [1.1] THANI, Nurfatimah Mohd - KAMAL, Siti Mazlina Mustapa - SULAIMAN, Alifdalino - TAIP, Farah Saleena - OMAR, Rozita - IZHAR, Shamsul. Sugar Recovery from Food Waste via Sub-critical Water Treatment. In *FOOD REVIEWS INTERNATIONAL*. ISSN 8755-9129, 2020, vol. 36, no. 3, pp. 241-257., Registrované v: WOS
15. [1.1] WANG, Xiaodi - HOU, Qingxi - ZHANG, Xin - ZHANG, Yongchao - LIU, Wei - XU, Chunlin - ZHANG, Fangdong. Color evolution of poplar wood chips and its response to lignin and extractives changes in autohydrolysis pretreatment. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 157, no., pp. 673-679. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.224>., Registrované v: WOS
16. [1.1] ZHENG, Fengzhen - SONG, Lina - BASIT, Abdul - LIU, Junquan - MIAO, Ting - WEN, Jiaqi - CAO, Yunhe - JIANG, Wei. An endoxylanase rapidly hydrolyzes xylan into major product xylobiose via transglycosylation of xylose to xylotriose or xylotetraose. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 237, no., pp. Dostupné na:
<https://doi.org/10.1016/j.carbpol.2020.116121>., Registrované v: WOS
17. [1.1] ZHOU, Peixia - LIU, Changsheng - WANG, Wenya - WANG, Fang -

- NIE, Kaili - DENG, Li. The Effectively Simultaneous Production of Cello-oligosaccharide and Glucose Mono-decanoate from Lignocellulose by Enzymatic Esterification. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020, vol. 192, no. 2, pp. 600-615. Dostupné na: <https://doi.org/10.1007/s12010-020-03356-0>, Registrované v: WOS*
- ADCA432 NAGY, T. - NURIZZO, D. - DAVIES, G.J. - BIELY, Peter - LAKEY, J.H. - BOLAM, D.N. - GILBERT, H.J. The α -glucuronidase, GlcA67A, of *Cellvibrio japonicus* utilizes the carboxylate and methyl groups of aldobiouronic acid as important substrate recognition determinants. In *Journal of Biological Chemistry*, 2003, vol. 278, p. 20286-20292. (2002: 6.696 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M302205200>
- Citácie:
- 1. [1.1] THAPA, Santosh - MISHRA, Jitendra - ARORA, Naveen - MISHRA, Priya - LI, Hui - O'; HAIR, Joshua - BHATTI, Sarabjit - ZHOU, Suping. Microbial cellulolytic enzymes: diversity and biotechnology with reference to lignocellulosic biomass degradation. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIOTECHNOLOGY. ISSN 1569-1705, 2020, vol. 19, no. 3, pp. 621-648. Dostupné na: <https://doi.org/10.1007/s11157-020-09536-y>, Registrované v: WOS*
- ADCA433 NAHÁLKA, Jozef - MISLOVIČOVÁ, Danica - KAVCOVÁ, Helena. Targeting lectin activity into inclusion bodies for the characterisation of glycoproteins. In *Molecular Biosystems*, 2009, vol. 5, iss. 8, p. 819-821. (2008: 4.236 - IF, Q2 - JCR, 1.570 - SJR, Q1 - SJR). ISSN 1742-206X. Dostupné na: <https://doi.org/10.1039/b900526a>
- Citácie:
- 1. [1.1] TU, Chunhao - ZHOU, Jin - PENG, Lei - MAN, Shuli - MA, Long. Self-assembled nano-aggregates of fluorinases demonstrate enhanced enzymatic activity, thermostability and reusability. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 2, pp. 648-656., Registrované v: WOS*
- ADCA434 NAHÁLKA, Jozef. Physiological aggregation of maltodextrin phosphorylase from *Pyrococcus furiosus* and its application in a process of batch starch degradation to alfa-D-glucose-1-phosphate. In *Journal of Industrial Microbiology and Biotechnology* : official journal of the Society for Industrial Microbiology, 2008, vol. 35, pp. 219-223. (2007: 1.681 - IF, Q3 - JCR, 0.673 - SJR, Q2 - SJR). ISSN 1367-5435. Dostupné na: <https://doi.org/10.1007/s10295-007-0287-4>
- Citácie:
- 1. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS*
- ADCA435 NAHÁLKA, Jozef - GEMEINER, Peter - BUČKO, Marek - WANG, P.G. Bioenergy beads: A tool for regeneration of ATP/NTP in biocatalytic synthesis. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2006, vol. 34, p. 515-521. (2005: 0.686 - IF, Q4 - JCR). ISSN 1073-1199. Dostupné na: <https://doi.org/10.1080/10731190600862886>
- Citácie:
- 1. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In APPLIED MICROBIOLOGY AND*

- BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS 2. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round we go strategies for enzymatic cofactor regeneration. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na: <https://doi.org/10.1039/d0np00004c>, Registrované v: WOS*
- ADCA436 NAHÁLKA, Jozef. Protein-RNA recognition: Cracking the code. In Journal of Theoretical Biology, 2014, vol. 343, p. 9-15. (2013: 2.303 - IF, Q1 - JCR, 1.040 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0022-5193. Dostupné na: <https://doi.org/10.1016/j.jtbi.2013.11.006>
Citácie:
1. [1.1] AUBOEUF, Didier. Physicochemical Foundations of Life that Direct Evolution: Chance and Natural Selection are not Evolutionary Driving Forces. In LIFE-BASEL, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/life10020007>, Registrované v: WOS
- ADCA437 NAHÁLKA, Jozef - LIU, Z. Y. - CHEN, X. - WANG, P.G. Superbeads: Immobilization in "sweet" chemistry. In Chemistry-A European Jopurnal, 2003, vol. 9, p. 372-377. Dostupné na: <https://doi.org/10.1002/chem.200390038>
Citácie:
1. [1.1] ZHONG, Chao - DUIC, Bozidar - BOLIVAR, Juan M. - NIDETZKY, Bernd. Three-Enzyme Phosphorylase Cascade Immobilized on Solid Support for Biocatalytic Synthesis of Cello-oligosaccharides. In CHEMCATCHER. ISSN 1867-3880, 2020, vol. 12, no. 5, pp. 1350-1358. Dostupné na: <https://doi.org/10.1002/cctc.201901964>, Registrované v: WOS
- ADCA438 NAHÁLKA, Jozef - PÄTOPRSTÝ, Vladimír. Enzymatic synthesis of sialylation substrates powered by a novel polyphosphate kinase (PPK3). In Organic and Biomolecular Chemistry, 2009, vol. 7, p. 1778-1780. (2008: 3.550 - IF, Q1 - JCR, 1.989 - SJR, Q1 - SJR). ISSN 1477-0520. Dostupné na: <https://doi.org/10.1002/bit.21244>
Citácie:
1. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS 2. [1.1] LI, Zhongkui - NI, Zhijian - CHEN, Xiangsong - WANG, Gang - WU, Jinyong - YAO, Jianming. Multi-Enzymatic Cascade One-Pot Biosynthesis of 3 '-Sialyllactose Using Engineered Escherichia coli. In MOLECULES, 2020, vol. 25, no. 16, pp. Dostupné na: <https://doi.org/10.3390/molecules25163567>, Registrované v: WOS
3. [1.1] MORDHORST, Silja - ANDEXER, Jennifer N. Round, round we go strategies for enzymatic cofactor regeneration. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, 2020, vol. 37, no. 10, pp. 1316-1333. Dostupné na: <https://doi.org/10.1039/d0np00004c>, Registrované v: WOS
4. [1.1] SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER, Barbara - NIDETZKY, Bernd. Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 44, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107613>, Registrované v: WOS
- ADCA439 NAHÁLKA, Jozef - NAHALKOVA, Jarmila - GEMEINER, Peter - BLANÁRIK, P. Elicitation and plumbagin release to the medium bz chitin in Drosophyllum

lusitanicum Link. suspension culture. In *Biotechnology Letters*, 1998, vol. 20, p. 841-845. ISSN 0141-5492. Dostupné na: <https://doi.org/10.1023/A:1005307408135>

Citácie:

1. [1.1] JAISI, Amit - PANICHAYUPAKARANANT, Pharkphoom. Enhanced plumbagin production in *Plumbago indica* root culture by simultaneous and sequential dual elicitation using chitosan with L-alanine and methyl-beta-cyclodextrin. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-0298-9>, Registrované v: WOS
2. [1.1] LEI, Ming - HUANG, Weian - SUN, Jinsheng - SHAO, Zixuan - WU, Tongliang - LIU, Junyi - FAN, Yu. Synthesis of carboxymethyl chitosan as an eco-friendly amphoteric shale inhibitor in water-based drilling fluid and an assessment of its inhibition mechanism. In *APPLIED CLAY SCIENCE*. ISSN 0169-1317, 2020, vol. 193, no., pp. Dostupné na: <https://doi.org/10.1016/j.clay.2020.105637>, Registrované v: WOS
3. [1.1] MEDEIROS BORSAGLI, Fernanda G. L. - DE SOUZA, Ana Julia M. - PAIVA, Aislan E. Ecofriendly multifunctional thiolated carboxymethyl chitosan-based 3D scaffolds with luminescent properties for skin repair and theragnostic of tissue regeneration. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 3051-3064. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.186>, Registrované v: WOS

ADCA440 NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - HRABÁROVÁ, Eva. A crosslinked inclusion body process for sialic acid synthesis. In *Journal of Biotechnology*, 2008, vol. 134, p. 146-153. (2007: 2.565 - IF, Q2 - JCR, 1.133 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2008.01.014>

Citácie:

1. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS
2. [1.1] MESTROM, Luuk - MARSDEN, Stefan R. - MCMILLAN, Duncan G. G. - SCHOEVAART, Rob - HAGEDOORN, Peter-Leon - HANEFELD, Ulf. Comparison of Enzymes Immobilised on Immobeads and Inclusion Bodies: A Case Study of a Trehalose Transferase. In *CHEMCATCHEM*. ISSN 1867-3880, 2020, vol. 12, no. 12, pp. 3249-3256. Dostupné na: <https://doi.org/10.1002/cctc.202000241>, Registrované v: WOS
3. [1.1] MIKL, Markus - DENNIG, Alexander - NIDETZKY, Bernd. Efficient enzyme formulation promotes Leloir glycosyltransferases for glycoside synthesis. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2020, vol. 322, no., pp. 74-78. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.06.023>, Registrované v: WOS
4. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* BL21(DE3) and characterization by FT-IR Spectroscopy. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>, Registrované v: WOS

- ADCA441 NAHÁLKA, Jozef - WU, B.Y. - SHAO, J. - GEMEINER, Peter - WANG, P.G. Production of cytidine 5'-monophospho-N-acetyl-β-D-neuraminic acid (CMP-sialic acid) using enzymes or whole cells entrapped in calcium pectate-silica-gel beads. In *Biotechnology and Applied Biochemistry*, 2004, vol. 40, p. 101-106. (2003: 1.034 - IF). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1042/BA20030159>
Citácie:
1. [1.1] *SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER, Barbara - NIDETZKY, Bernd. Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 44, no., pp. Dostupné na: https://doi.org/10.1016/j.biotechadv.2020.107613., Registrované v: WOS*
- ADCA442 NAHÁLKA, Jozef - NIDETZKY, B. Fusion to a pull-down domain: A novel approach of producing *Trigonopsis variabilis* D-amino acid oxidase as insoluble enzyme aggregates. In *Biotechnology and Bioengineering*, 2007, vol. 97, p. 454-461. (2006: 2.999 - IF, Q1 - JCR, 1.467 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0006-3592. Dostupné na: <https://doi.org/10.1002/bit.21244>
Citácie:
1. [1.1] *HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in Escherichia coli. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 8, pp. 563-571. Dostupné na: https://doi.org/10.1007/s10295-020-02294-4., Registrované v: WOS*
2. [1.1] *JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329. Dostupné na: https://doi.org/10.1007/s00253-020-10760-3., Registrované v: WOS*
3. [1.1] *LAMM, Robin - JAEGER, Vera D. - HEYMAN, Benedikt - BERG, Christoph - CUERTEN, Christin - KRAUSS, Ulrich - JAEGER, Karl-Erich - BUECHS, Jochen. Detailed small-scale characterization and scale-up of active YFP inclusion body production with Escherichia coli induced by a tetrameric coiled coil domain. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2020, vol. 129, no. 6, pp. 730-740. Dostupné na: https://doi.org/10.1016/j.jbiosc.2020.02.003., Registrované v: WOS*
4. [1.1] *LIU, Hu - CAO, Mingming - WANG, Ying - LV, Bo - LI, Chun. Bioengineering oligomerization and monomerization of enzymes: learning from natural evolution to matching the demands for industrial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2020, vol. 40, no. 2, pp. 231-246. Dostupné na: https://doi.org/10.1080/07388551.2019.1711014., Registrované v: WOS*
5. [1.1] *LV, Xueqin - CUI, Shixiu - GU, Yang - LI, Jianghua - DU, Guocheng - LIU, Long. Enzyme Assembly for Compartmentalized Metabolic Flux Control. In METABOLITES, 2020, vol. 10, no. 4, pp. Dostupné na: https://doi.org/10.3390/metabo10040125., Registrované v: WOS*
6. [1.1] *TAKAHASHI, Shouji. d-Aspartate oxidase: distribution, functions, properties, and biotechnological applications. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 7, pp. 2883-2895. Dostupné na: https://doi.org/10.1007/s00253-020-10439-9., Registrované v: WOS*
7. [1.1] *VICENTE CARRATALA, Jose - CANO-GARRIDO, Olivia - SANCHEZ, Julieta - MEMBRADO, Cristina - PEREZ, Eudald - CONCHILLO-SOLE, Oscar - DAURA, Xavier - SANCHEZ-CHARDI, Alejandro - VILLAVARDE, Antonio -*

- ARIS, Anna - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus. Aggregation-prone peptides modulate activity of bovine interferon gamma released from naturally occurring protein nanoparticles. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2020, vol. 57, no., pp. 11-19. Dostupné na: <https://doi.org/10.1016/j.nbt.2020.02.001>, Registrované v: WOS*
- ADCA443 NAHÁLKA, Jozef**. The role of the protein-RNA recognition code in neurodegeneration. In Cellular and Molecular Life Sciences, 2019, vol. 76, p. 2043-2058. (2018: 7.014 - IF, Q1 - JCR, 3.006 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1420-682X. Dostupné na: <https://doi.org/10.1007/s00018-019-03096-3>
Citácie:
1. [1.1] LI, Wei - LI, Xue - GAO, Li-Na - YOU, Chong-Ge. Integrated Analysis of the Functions and Prognostic Values of RNA Binding Proteins in Lung Squamous Cell Carcinoma. In FRONTIERS IN GENETICS, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.00185>, Registrované v: WOS
- ADCA444 NAVRÁTIL, M. - TKÁČ, Ján - ŠVITEL, J. - DANIELSSON, B. - ŠTURDÍK, E. Monitoring of the bioconversion of glycerol to dihydroxyacetone with immobilized Gluconobacter oxydans cell using thermometric flow injection analysis. In Process Biochemistry, 2001, vol. 36, p. 1045-1052. ISSN 1359-5113. Dostupné na: [https://doi.org/10.1016/S0032-9592\(00\)00298-3](https://doi.org/10.1016/S0032-9592(00)00298-3)
Citácie:
1. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. Review of Biosensors in Industrial Process Control. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103, Registrované v: WOS
2. [1.1] XU, Meng-Qiu - LI, Fei-Long - YU, Wen-Qian - LI, Rui-Fang - ZHANG, Ye-Wang. Combined cross-linked enzyme aggregates of glycerol dehydrogenase and NADH oxidase for high efficiency in situ NAD(+) regeneration. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 144, no., pp. 1013-1021. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.178>, Registrované v: WOS
- ADCA445 NAVRÁTIL, M. - GEMEINER, Peter - KLEIN, J. - ŠTURDÍK, E. - MALOVÍKOVÁ, Anna - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - DOMÉNY, Z. - ŠMOGROVIČOVÁ, D. Properties of hydrogel materials used for entrapment of microbial cells in production of fermented beverages. In Artificial Cells, Bloods Substitutes and Biotechnology, 2002, vol. 30, p. 199-218. ISSN 1073-1199.
Citácie:
1. [1.1] MELNYK, Yuriy - STETSYSHYN, Yuriy - SKOROKHODA, Volodymyr - NASTISHIN, Yuriy. Polyvinylpyrrolidone-graft-poly(2-hydroxyethylmethacrylate) hydrogel membranes for encapsulated forms of drugs. In JOURNAL OF POLYMER RESEARCH. ISSN 1022-9760, 2020, vol. 27, no. 11, pp. Dostupné na: <https://doi.org/10.1007/s10965-020-02335-7>, Registrované v: WOS
- ADCA446 NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Batch and continuous mead production with pectate immobilized, ethanol-tolerant yeasts. In Biotechnology Letters, 2001, vol. 23, p. 978-982. (2001 - Current Contents). ISSN 0141-5492. Dostupné na: [https://doi.org/10.1016/S0165-022X\(02\)00016-7](https://doi.org/10.1016/S0165-022X(02)00016-7)
Citácie:
1. [1.1] ARAUJO, Geiza Suzart - GUTIERREZ, Mashely Pickman - SAMPAIO, Kayque Frota - DE SOUZA, Silvia Maria Almeida - RODRIGUES, Rita de Cassia Lacerda Brambilla - MARTINEZ, Ernesto Acosta. Mead Production by

- Saccharomyces cerevisiae* Safbrew T-58 and *Saccharomyces bayanus* (Premier Blanc and Premier Cuvee): Effect of Cowpea (*Vigna unguiculata* L. Walp) Extract Concentration. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 191, no. 1, pp. 212-225. Dostupné na: <https://doi.org/10.1007/s12010-020-03267-0>, Registrované v: WOS
2. [1.1] BEDNAREK, Marta - SZWENGIEL, Artur. Distinguishing between saturated and unsaturated meads based on their chemical characteristics. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109962>, Registrované v: WOS
3. [1.1] MARGAOAN, Rodica - CORNEA-CIPCIGAN, Mihaiela - TOPAL, Erkan - KOSOGLU, Mustafa. Impact of Fermentation Processes on the Bioactive Profile and Health-Promoting Properties of Bee Bread, Mead and Honey Vinegar. In *PROCESSES*, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091081>, Registrované v: WOS
4. [1.1] STAROWICZ, Malgorzata - GRANVOGL, Michael. Trends in food science & technology an overview of mead production and the physicochemical, toxicological, and sensory characteristics of mead with a special emphasis on flavor. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 106, no., pp. 402-416. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.09.006>, Registrované v: WOS

- ADCA447 NEMCOVÁ, Kornélia - BREIEROVÁ, Emília - VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana. The diversity of yeasts associated with grapes and musts of the Strekov winegrowing region, Slovakia. In *Folia Microbiologica*, 2015, vol. 60, p. 103-109. (2014: 1.000 - IF, Q4 - JCR, 0.425 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-014-0347-x>

Citácie:

1. [1.1] DUMITRACHE, Corina - FRINCUI, Mihai - RADOI, Tudor Alexandru - BARBULESCU, Iuliana Diana - MIHAI, Constanta - MATEI, Florentina - TUDOR, Valerica - TEODORESCU, Razvan Lonut. IDENTIFICATION BY PCR ITS-RFLP TECHNIQUE OF NEW YEAST ISOLATES FROM PIETROASA VINEYARD. In *SCIENTIFIC PAPERS-SERIES B-HORTICULTURE*. ISSN 2285-5653, 2020, vol. 64, no. 1, pp. 287-293., Registrované v: WOS
2. [1.1] MOZURAITIS, Raimondas - ALEKNAVICIUS, Dominykas - VEPSTAITE-MONSTAVICE, Igle - STANEVICIENE, Ramune - EMAMI, Seyedeh Noushin - APSEGAITE, Violeta - RADZIUTE, Sandra - BLAZYTE-CERESKIENE, Laima - SERVIENE, Elena - BUDA, Vincas. Hippophae rhamnoides berry related Pichia kudriavzevii yeast volatiles modify behaviour of Rhagoletis batava flies. In *JOURNAL OF ADVANCED RESEARCH*. ISSN 2090-1232, 2020, vol. 21, no., pp. 71-77. Dostupné na: <https://doi.org/10.1016/j.jare.2019.08.001>, Registrované v: WOS
3. [1.1] ZABUKOVEC, Polona - CADEZ, Neza - CUS, Franc. Isolation and Identification of Indigenous Wine Yeasts and Their Use in Alcoholic Fermentation. In *FOOD TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 1330-9862, 2020, vol. 58, no. 3, pp. 337-347. Dostupné na: <https://doi.org/10.17113/ftb.58.03.20.6677>, Registrované v: WOS

- ADCA448 NEMČOVIČ, Marek - JAKUBÍKOVÁ, Lucia - VÍDEN, I. - FARKAŠ, Vladimír. Induction of conidiation by endogenous volatile compounds in Trichoderma spp. In *FEMS Microbiology Letters*, 2008, vol. 284, p. 231-236. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.2008.01202.x>

Citácie:

1. [1.1] HUANG, C. - QIAN, Y. - VIANA, T. - SIEGUMFELDT, H. - ARNEBORG, N. - LARSEN, N. - JESPERSEN, L. *The quorum-sensing molecule 2-phenylethanol impaired conidial germination, hyphal membrane integrity and growth of *Penicillium expansum* and *Penicillium nordicum**. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2020, vol. 129, no. 2, pp. 278-286. Dostupné na: <https://doi.org/10.1111/jam.14621>., Registrované v: WOS
2. [1.1] INAMDAR, Arati A. - MORATH, Shannon - BENNETT, Joan W. *Fungal Volatile Organic Compounds: More Than Just a Funky Smell?* In *ANNUAL REVIEW OF MICROBIOLOGY, VOL 74*, 2020. ISSN 0066-4227, 2020, vol. 74, no., pp. 101-116. Dostupné na: <https://doi.org/10.1146/annurev-micro-012420-080428>., Registrované v: WOS
3. [1.1] KATAOKA, Ryousuke - WATANABE, Taisuke - YANO, Shigekazu - MIZUTANI, Osamu - YAMADA, Osamu - KASUMI, Takafumi - OGIHARA, Jun. *Aspergillus luchuensis fatty acid oxygenase ppoC is necessary for 1-octen-3-ol biosynthesis in rice koji*. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2020, vol. 129, no. 2, pp. 192-198. Dostupné na: <https://doi.org/10.1016/j.jbiosc.2019.08.010>., Registrované v: WOS
4. [1.1] LOULIER, Jeremie - LEFORT, Francois - STOCKI, Marcin - ASZTEMBORSKA, Monika - SZMIGIELSKI, Rafal - SIWEK, Krzysztof - GRZYWACZ, Tomasz - HSIANG, Tom - SLUSARSKI, Sławomir - OSZAKO, Tomasz - KLISZ, Marcin - TARAKOWSKI, Rafal - NOWAKOWSKA, Justyna Anna. *Detection of Fungi and Oomycetes by Volatiles Using E-Nose and SPME-GC/MS Platforms*. In *MOLECULES*, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235749>., Registrované v: WOS
5. [1.1] MACIAS-RODRIGUEZ, Lourdes - ANGEL CONTRERAS-CORNEJO, Hexon - GORETTI ADAME-GARNICA, Sandra - DEL-VAL, Ek - LARSEN, John. *The interactions of Trichoderma at multiple trophic levels: inter-kingdom communication*. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126552>., Registrované v: WOS
6. [1.1] ORBAN, Axel - HENNICKE, Florian - RUEHL, Martin. *Volatilomes of *Cyclocybe aegerita* during different stages of monokaryotic and dikaryotic fruiting*. In *BIOLOGICAL CHEMISTRY*. ISSN 1431-6730, 2020, vol. 401, no. 8, pp. 995-1004. Dostupné na: <https://doi.org/10.1515/hsz-2019-0392>., Registrované v: WOS
7. [1.1] SORNAKILI, Archana - THANKAPPAN, Sugitha - SRIDHARAN, A. P. - NITHYA, P. - UTHANDI, Sivakumar. *Antagonistic fungal endophytes and their metabolite-mediated interactions against phytopathogens in rice*. In *PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY*. ISSN 0885-5765, 2020, vol. 112, no., pp. Dostupné na: <https://doi.org/10.1016/j.pmpp.2020.101525>., Registrované v: WOS
8. [1.1] SPECKBACHER, Verena - RUZSANYI, Veronika - WIGGER, Modestus - ZEILINGER, Susanne. *The Trichoderma atroviride Strains P1 and IMI 206040 Differ in Their Light-Response and VOC Production*. In *MOLECULES*, 2020, vol. 25, no. 1, pp. Dostupné na: <https://doi.org/10.3390/molecules25010208>., Registrované v: WOS
9. [1.1] SRIDHARAN, A. P. - THANKAPPAN, Sugitha - KARTHIKEYAN, G. - UTHANDI, Sivakumar. *Comprehensive profiling of the VOCs of Trichoderma longibrachiatum EF5 while interacting with Sclerotium rolfsii and Macrophomina phaseolina*. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126436>.,

Registrované v: WOS

10. [1.1] WU, Sheng-Yen - DUNCAN, Larry W. Recruitment of an insect and its nematode natural enemy by olfactory cues from a saprophytic fungus. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2020, vol. 144, no., pp.

Dostupné na: <https://doi.org/10.1016/j.soilbio.2020.107781>., Registrované v: WOS

- ADCA449 NEMČOVIČOVÁ, Ivana - ŠESTÁK, Sergej - RENDIČ, Dubravko - PLŠKOVÁ, Margita - MUCHA, Ján - WILSON, Iain B.H. Characterisation of class I and II α -mannosidases from *Drosophila melanogaster*. In *Glycoconjugate Journal*, 2013, vol. 30, p. 899-909. (2012: 1.882 - IF, Q4 - JCR, 0.850 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-013-9495-5>

Citácie:

1. [1.1] VASQUEZ-PROCOPIO, Johana - OSORIO, Beatriz - CORTES-MARTINEZ, Leticia - HERNANDEZ-HERNANDEZ, Fidel - MEDINA-CONTRERAS, Oscar - RIOS-CASTRO, Emmanuel - COMJEAN, Aram - LI, Fangge - HU, Yanhui - MOHR, Stephanie - PERRIMON, Norbert - MISSIRLIS, Fanis. Intestinal response to dietary manganese depletion in *Drosophila*. In *METALLOMICS*. ISSN 1756-5901, 2020, vol. 12, no. 2, pp. 218-240.,

Registrované v: WOS

- ADCA450 NEMČOVIČOVÁ, Ivana - BENEDICT, C.A. - ZAJONC, D.M. Structure of Human Cytomegalovirus UL141 Binding to TRAIL-R2 Reveals Novel, Non-canonical Death Receptor Interactions. In *PLoS Pathogens*, 2013, vol. 3, p. e1003224. (2012: 8.136 - IF, 5.051 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1553-7366. Dostupné na: <https://doi.org/10.1371/journal.ppat.1003224>

Citácie:

1. [1.1] BERRY, Richard - WATSON, Gabrielle M. - JONJIC, Stipan - DEGLI-ESPOSTI, Mariapia A. - ROSSJOHN, Jamie. Modulation of innate and adaptive immunity by cytomegaloviruses. In *NATURE REVIEWS IMMUNOLOGY*. ISSN 1474-1733, 2020, vol. 20, no. 2, pp. 113-127., Registrované v: WOS

2. [1.1] DELL'OSTE, Valentina - BIOLATTI, Matteo - GALITSKA, Ganna - GRIFFANTE, Gloria - GUGLIESI, Francesca - PASQUERO, Selina - ZINGONI, Alessandra - CERBONI, Cristina - DE ANDREA, Marco. Tuning the Orchestra: HCMV vs. Innate Immunity. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp., Registrované v: WOS

3. [1.1] VANAMEE, Eva S. - FAUSTMAN, Denise L. On the TRAIL of Better Therapies: Understanding TNFRSF Structure-Function. In *CELLS*, 2020, vol. 9, no. 3, pp., Registrované v: WOS

- ADCA451 NOSÁLOVÁ, G. - PRISENŽŇÁKOVÁ, L. - PAULOVÍČOVÁ, Ema - CAPEK, Peter - MATULOVÁ, Mária. Antitussive and immunomodulating activities of instant coffee arabinogalactan-protein. In *International Journal of Biological Macromolecules*, 2011, vol. 49, p. 493-497. (2010: 2.502 - IF, Q3 - JCR, 0.873 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2011.06.004>

Citácie:

1. [1.1] LOPES, Guido R. - PASSOS, Claudia P. - RODRIGUES, Carla - TEIXEIRA, Jose A. - COIMBRA, Manuel A. Impact of microwave-assisted extraction on roasted coffee carbohydrates, caffeine, chlorogenic acids and coloured compounds. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2020, vol. 129, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108864>., Registrované v: WOS

- ADCA452 NOSÁLOVÁ, G. - STRAPKOVÁ, A. - KARDOŠOVÁ, Alžbeta - CAPEK, Peter -

ZÁTHURECKÝ, L. - BUKOVSKÁ, E. Antitusive efficacy of the vomplex extract and the polysaccharide of marsh mallow (*Althea officinalis*L., var. *robusta*). In *Pharmazie : an international journal of pharmaceutical sciences*, 1992, vol. 47, p. 224-226. ISSN 0031-7144.

Citácie:

1. [1.1] MAHBOUBI, Mohaddese. *Marsh Mallow (Althaea officinalisL.) and Its Potency in the Treatment of Cough*. In *COMPLEMENTARY MEDICINE RESEARCH*. ISSN 2504-2092, 2020, vol. 27, no. 3, pp. 174-182. Dostupné na: <https://doi.org/10.1159/000503747>., Registrované v: WOS

2. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. *COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy?* In *FRONTIERS IN PHARMACOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS

ADCA453 NOSÁLOVÁ, G. - ŠUTOVSKÁ, M. - MOKRÝ, J. - Kardošová, Alžbeta - CAPEK, Peter - KHAN, M.T.H. Efficacy of herbal substances according to cough reflex. In *Minerva Biotechnologica*, 2005, vol. 17, p. 141-152.

Citácie:

1. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. *COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy?* In *FRONTIERS IN PHARMACOLOGY*, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS

ADCA454 NOSÁLOVÁ, Gabriela - PRISENŽŇÁKOVÁ, Ľubica - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Suppressive effect of pectic polysaccharides from *Cucurbita pepo* L. var. *Styriaca* on citric acid-induced cough reflex in guinea pigs. In *Fitoterapia*, 2011, vol. 82, p. 357-364. (2010: 1.899 - IF, Q2 - JCR, 0.631 - SJR, Q2 - SJR). ISSN 0367-326X. Dostupné na: <https://doi.org/10.1016/j.fitote.2010.11.006>

Citácie:

1. [1.1] JIWANI, Shahwar Imran - GILLIS, Richard B. - BESONG, David - ALMUTAIRI, Fahad - ERTEN, Tayyibe - KOK, M. Samil - HARDING, Stephen E. - PAULSEN, Berit S. - ADAMS, Gary G. *Isolation and Biophysical Characterisation of Bioactive Polysaccharides from Cucurbita Moschata (Butternut Squash)*. In *POLYMERS*, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081650>., Registrované v: WOS

2. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. *Pectins as a universal medicine*. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS

ADCA455 NOVÁKOVÁ, Slavomíra - KOLLEROVÁ, Edita - KLAUDINY, Jaroslav - ŠUBR, Zdeno W. Expression of a part of the Potato virus A non-structural protein P3 in *Escherichia coli* for the purpose of antibody preparation and P3 immunodetection in plant material. In *Journal of Virological Methods*, 2006, vol. 137, no. 2, p. 229 - 235. (2005: 1.886 - IF, Q2 - JCR, 0.873 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0166-0934. Dostupné na: <https://doi.org/10.1016/j.jviromet.2006.06.020>

Citácie:

1. [1.1] BALDI, Paolo - LA PORTA, Nicola. *Molecular Approaches for Low-Cost Point-of-Care Pathogen Detection in Agriculture and Forestry*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.570862>., Registrované v: WOS
- ADCA456 OBORSKÝ, Pavel - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Toward an accurate conformational modeling of iduronic acid. In *Journal of Physical Chemistry B*, 2013, vol. 138, p. 1003-1009. (2012: 3.607 - IF, Q2 - JCR, 1.943 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/jp3100552>
- Citácie:
1. [1.1] HAASNoot, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. *The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS
2. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - DESAI, Umesh R. *Rigorous analysis of free solution glycosaminoglycan dynamics using simple, new tools*. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2020, vol. 30, no. 8, pp. 516-527. Dostupné na: <https://doi.org/10.1093/glycob/cwaa015>., Registrované v: WOS
- ADCA457 ODOMMAZIG, P. - BADGA, D. - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - MIHÁLOV, Vincent. An acidic D-xylan from the Siberian apricot (*Armenica siberica* L.) fruit. In *Carbohydrate Research*, 1990, vol. 198, p. 163-167. (1990 - Current Contents, SCOPUS). ISSN 0008-6215.
- Citácie:
1. [1.1] CAMPESTRINI, Luciano Henrique - RASERA, Gabriela Boscariol - DE CAMARGO, Adriano Costa - FRANCHIN, Marcelo - NANI, Bruno Dias - ROSALEN, Pedro Luiz - CANNIATTI-BRAZACA, Solange Guidolin - TELLES BIASOTO, Aline Camarao - SHAHIDI, Fereidoon - ALENCAR, Severino Matias. *Alkaline conditions better extract anti-inflammatory polysaccharides from winemaking by-products*. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodres.2019.108532>., Registrované v: WOS
- ADCA458 ODOMMAZING, R. - EBRINGEROVÁ, Anna - MACHOVÁ, Eva - ALFOLDI, Juraj. Structural and molecular properties of the arabinogalactan isolated from Mongolian larchwood (*Larix dahurica* L.). In *Carbohydrate Research*, 1994, vol. 252, p. 317-324. ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)90028-0](https://doi.org/10.1016/0008-6215(94)90028-0)
- Citácie:
1. [1.1] BUDDE, Insa - LITSCHKO, Christa - FUEHRING, Jana - GERARDY-SCHAHN, Rita - SCHUBERT, Mario - FIEBIG, Timm. *An enzyme-based protocol for cell-free synthesis of nature-identical capsular oligosaccharides from *Actinobacillus pleuropneumoniae* serotype 1*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2020, vol. 295, no. 17, pp. 5771-5784. Dostupné na: <https://doi.org/10.1074/jbc.RA120.012961>., Registrované v: WOS
- ADCA459 OMELKOVÁ, Jirina - SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Inhibiting effect of β -escine on the growth of yeasts and yeast microorganism. In *Biologia*, 1990, vol. 45, p. 925-929. (1990 - Current Contents, WOS). ISSN 0006-3088.
- Citácie:
1. [1.1] VALLIERES, Cindy - SINGH, Nishant - ALEXANDER, Cameron - AVERY, Simon. *Repurposing Nonantifungal Approved Drugs for Synergistic*

- Targeting of Fungal Pathogens. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2020, vol. 6, no. 11, pp. 2950-2958. Dostupné na: <https://doi.org/10.1021/acsinfecdis.0c00405>., Registrované v: WOS*
- ADCA460 ORAVCOVA, J. - MLYNÁRIK, Vladimír - BYSTRICKÝ, Slavomír - ŠOLTÉS, Ladislav - SZALAY, Peter - BOHÁČIK, Ľubor - TRNOVEC, Tomáš. Interaction of Pirprofen enantiomers with human serum albumin. In Chirality, 1991, vol. 3, iss. 5, p. 412-417. ISSN 0899-0042. Dostupné na: <https://doi.org/10.1002/chir.530030506>
Citácie:
1. [1.1] ZIELINSKI, K. - SEKULA, B. - BUJACZ, A. - SZYMCZAK, I. Structural investigations of stereoselective profen binding by equine and leporine serum albumins. In CHIRALITY. ISSN 0899-0042, 2020, vol. 32, no. 3, p. 334-344., Registrované v: WOS
- ADCA461 OSIČKA, Josef - ILČÍKOVÁ, Markéta - MRLÍK, Miroslav - AL.MAADEED, Miriam Ali S.A. - ŠLOUF, Miroslav - TKÁČ, Ján - KASÁK, Peter. Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. In Materials and Design, 2016, vol. 97, p. 300-306. (2015: 3.997 - IF, Q1 - JCR, 1.844 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0261-3069. Dostupné na: <https://doi.org/10.1016/j.matdes.2016.02.101>
Citácie:
1. [1.1] LI, Z.H. - ZHANG, Z.H. - ZHAO, W.M. - LI, X.Y. - HAN, G.F. - ZHANG, J.D. A simple method to control the pore structure and shape of freeze-cast porous SiC ceramics. In CERAMICS INTERNATIONAL. ISSN 0272-8842, NOV 2020, vol. 46, no. 16, A, p. 26078-26084., Registrované v: WOS
- ADCA462 OSIČKA, Jozef - ILČÍKOVÁ, Markéta - POPELKA, Anton - FILIP, Jaroslav - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter. Simple, reversible and fast modulation in superwettability, gradient and adsorption by counterion exchange on self-assembled monolayer. In Langmuir, 2016, vol. 32, p. 5491-5499. (2015: 3.993 - IF, Q1 - JCR, 1.650 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0743-7463. Dostupné na: <https://doi.org/10.1021/acs.langmuir.6b01084>
Citácie:
1. [1.1] ARTUSIO, F. - FUMAGALLI, F. - BANULS-CISCAR, J. - CECCONE, G. - PISANO, R. General and adaptive synthesis protocol for high-quality organosilane self-assembled monolayers as tunable surface chemistry platforms for biochemical applications. In BIOINTERPHASES. ISSN 1934-8630, JUL 2020, vol. 15, no. 4., Registrované v: WOS
2. [1.1] BREHM, M. - SCHEIGER, J.M. - WELLE, A. - LEVKIN, P.A. Reversible Surface Wettability by Silanization. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, JUN 2020, vol. 7, no. 12., Registrované v: WOS
3. [1.1] LONG, C. - QING, Y.Q. - AN, K. - LIU, C. - CHAI, M.S. - YANG, C.N. - LIU, C.S. Superwetable bulk Janus materials with mechanical robustness and underwater self-cleaning action. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, APR 1 2020, vol. 385., Registrované v: WOS
4. [1.1] WANG, H. - CHI, G.X. - JIA, Y.C. - YU, F.X. - WANG, Z.L. - WANG, Y.K. A novel combination of electrical discharge machining and electrodeposition for superamphiphobic metallic surface fabrication. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, FEB 28 2020, vol. 504., Registrované v: WOS
- ADCA463 PALEČEK, Emil** - TKÁČ, Ján - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of non-conjugated proteins and glycoproteins. Towards sensors for biomedicine and glycomics. In Chemical Reviews, 2015, vol. 115, p. 2045-2108. (2014: 46.568 - IF, Q1 - JCR, 18.380 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0009-

2665. Dostupné na: <https://doi.org/10.1021/cr500279h>

Citácie:

1. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. *Ultrasensitive impedimetric immunosensor for influenza A detection*. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS
2. [1.1] ERGUVEN, Gokhan Onder - NUHOGLU, Yasar. *BIOREMEDIATION OF FLUAZIFOP-p-BUTYL HERBICIDE BY SOME SOIL BACTERIA ISOLATED FROM VARIOUS REGIONS OF TURKEY IN AN ARTIFICIAL AGRICULTURAL FIELD*. In *ENVIRONMENT PROTECTION ENGINEERING*. ISSN 0324-8828, 2020, vol. 46, no. 3, pp. 5-15. Dostupné na: <https://doi.org/10.37190/epe200301>., Registrované v: WOS
3. [1.1] HU, Gengxin - LI, Nanxi - ZHANG, Yuwei - LI, Hong. *A novel pH sensor with application to milk based on electrochemical oxidative quinone-functionalization of tryptophan residues*. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 859, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.113871>., Registrované v: WOS
4. [1.1] IZADI, Nasim - CERNOCKA, Hana - TREFULKA, Mojmir - OSTATNA, Veronika. *Influence of Protein Modification and Glycosylation in the Catalytic Hydrogen Evolution Reaction of Avidin and Neutravidin: An Electrochemical Analysis*. In *CHEMPLUSCHEM*. ISSN 2192-6506, 2020, vol. 85, no. 6, pp. 1347-1353. Dostupné na: <https://doi.org/10.1002/cplu.202000298>., Registrované v: WOS
5. [1.1] JAISWAL, Juhi - DHAYAL, Marshal. *Electroanalytical Method for Quantification of Hepatocellular Carcinoma Cells as Charge Transport Barriers in Culture Media*. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 890-897. Dostupné na: <https://doi.org/10.1002/elan.201900553>., Registrované v: WOS
6. [1.1] KASAK, Peter. *Self-Assembled Monolayers for Surface Modification*. In *GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE*, 2020, vol., no., pp. 217-255., Registrované v: WOS
7. [1.1] KASHAW, Sushil K. - SAHU, Prashant - RAJORIYA, Vaibhav - JANA, Pradeep - KASHAW, Varsha - SAU, Samaresh - IYER, Arun K. *Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier*. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2020, vol. 26, no. 27, pp. 3234-3250. Dostupné na: <https://doi.org/10.2174/1381612826666200417143800>., Registrované v: WOS
8. [1.1] LONEY, Charles N. - MAHESHWARI, Sharad - PRAMOUNMAT, Nuttanit - JANIK, Michael J. - RENNER, Julie N. *Effects of Peptide-Functionalized Surfaces on the Electrochemical Hydrogen Evolution Reaction*. In *JOURNAL OF ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE*. ISSN 2381-6872, 2020, vol. 17, no. 4, pp. Dostupné na: <https://doi.org/10.1115/1.4046415>., Registrované v: WOS
9. [1.1] MAYORGA-MARTINEZ, Carmen C. - PUMERA, Martin. *Self-Propelled Tags for Protein Detection*. In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, 2020, vol. 30, no. 6, pp. Dostupné na: <https://doi.org/10.1002/adfm.201906449>., Registrované v: WOS

10. [1.1] PAULIUKAITE, Rasa - VOITECHOVIC, Edita. Multisensor Systems and Arrays for Medical Applications Employing Naturally-Occurring Compounds and Materials. In *SENSORS*, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123551>., Registrované v: WOS
11. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In *MICROMACHINES*, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS
12. [1.1] SPACEK, Jan - EKSIN, Ece - HAVRAN, Ludek - ERDEM, Arzum - FOJTA, Miroslav. Fast enzyme-linked electrochemical sensing of DNA hybridization at pencil graphite electrodes. Application to detect gene deletion in a human cell culture. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 862, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.113951>., Registrované v: WOS
13. [1.1] SUPRUN, Elena - KHMELEVA, Svetlana A. - KUTDUSOVA, Gulnaz R. - DUSKAEV, Insaf F. - KUZNETSOVA, Viktoriya E. - LAPA, Sergey A. - CHUDINOV, Alexander - RADKO, Sergey P. Deoxyuridine triphosphates modified with tyrosine or tryptophan aromatic groups for direct electrochemical detection of double-stranded DNA. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2020, vol. 362, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.137105>., Registrované v: WOS
14. [1.1] TRAYNOR, Sarah M. - PANDEY, Richa - MACLACHLAN, Roderick - HOSSEINI, Amin - DIDAR, Tohid F. - LI, Feng - SOLEYMANI, Leyla. Review-Recent Advances in Electrochemical Detection of Prostate Specific Antigen (PSA) in Clinically-Relevant Samples. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2020, vol. 167, no. 3, pp. Dostupné na: <https://doi.org/10.1149/1945-7111/ab69fd>., Registrované v: WOS
15. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In *BIOANALYSIS*. ISSN 1757-6180, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na: <https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS
16. [1.1] WANG, Chen - LIU, Jingliang - KONG, Jinming - ZHANG, Xueji. Nitronyl nitroxide monoradical TEMPO as new electrochemical label for ultrasensitive detection of nucleic acids. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1136, no., pp. 19-24. Dostupné na: <https://doi.org/10.1016/j.aca.2020.08.035>., Registrované v: WOS
17. [1.1] WEST, Ryan M. - JANATA, Jiri. Praise of mercury. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113773>., Registrované v: WOS
18. [1.1] WU, Yao - ALI, Sufyaan - WHITE, Ryan J. Electrocatalytic Mechanism for Improving Sensitivity and Specificity of Electrochemical Nucleic Acid-Based Sensors with Covalent Redox Tags-Part I. In *ACS SENSORS*. ISSN 2379-3694, 2020, vol. 5, no. 12, pp. 3833-3841. Dostupné na: <https://doi.org/10.1021/acssensors.0c02362>., Registrované v: WOS

ADCA464

TALAFOVÁ, Klaudia - HRABÁROVÁ, Eva - NAHÁLKA, Jozef. A semi-multifunctional sialyltransferase from *Bibersteinia trehalosi* and its comparison to the *Pasteurella multocida* ST1 mutants. In *Journal of Biotechnology*, 2015, vol. 216, p. 116-124. (2014: 2.871 - IF, Q2 - JCR, 1.116 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2015.09.031>

Citácie:

1. [1.1] MERTSCH, Alexander - HE, Ning - YI, Dong - KICKSTEIN, Michael - FESSNER, Wolf-Dieter. *An alpha 2,3-Sialyltransferase from Photobacterium phosphoreum with Broad Substrate Scope: Controlling Hydrolytic Activity by Directed Evolution*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2020, vol. 26, no. 50, pp. 11614-11624. Dostupné na:

<https://doi.org/10.1002/chem.202002277>, Registrované v: WOS

2. [1.1] SCHELCH, Sabine - ZHONG, Chao - PETSCHACHER, Barbara - NIDETZKY, Bernd. *Bacterial sialyltransferases and their use in biocatalytic cascades for sialo-oligosaccharide production*. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2020, vol. 44, no., pp. Dostupné na:

<https://doi.org/10.1016/j.biotechadv.2020.107613>, Registrované v: WOS

ADCA465

PAPPAS, C.S. - MALOVÍKOVÁ, Anna - HROMÁDKOVÁ, Zdenka - TARANTILIS, P.A. - EBRINGEROVÁ, Anna - POLISSIOU, M.G. Determination of the degree of esterification of pectinates with decyl and benzyl ester groups by diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) and curve-fitting deconvolution method. In *Carbohydrate Polymers*, 2004, vol. 56, s. 465-469. (2003: 1.597 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2004.03.014>

Citácie:

1. [1.1] ARACHCHIGE, Melani Purnika Mudugamuwa - MU, Taihua - MA, Mengmei. *Structural, physicochemical and emulsifying properties of sweet potato pectin treated by high hydrostatic pressure and/or pectinase: a comparative study*. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2020, vol. 100, no. 13, pp. 4911-4920. Dostupné na:

<https://doi.org/10.1002/jsfa.10552>, Registrované v: WOS

2. [1.1] BELEN LABORDE, Mariana - ELENA TASCA, Julia - PABLO BARRETO, Gaston - MARIA PAGANO, Ana. *Physicochemical characterization of pectin of rose grape Red Globe variety*. In *JOURNAL OF FOOD AND NUTRITION RESEARCH*. ISSN 1336-8672, 2020, vol. 59, no. 4, pp. 323-331., Registrované v: WOS

3. [1.1] FAN, Xuejing - CHANG, Haode - LIN, Yanan - ZHAO, Xingming - ZHANG, Ao - LI, Shuang - FENG, Zhen - CHEN, Xi. *Effects of ultrasound-assisted enzyme hydrolysis on the microstructure and physicochemical properties of okara fibers*. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2020, vol. 69, no., pp. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2020.105247>, Registrované v: WOS

4. [1.1] GHOSHAL, Gargi - NEGI, Pooja. *Isolation of pectin from kinnow peels and its characterization*. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 124, no., pp. 342-353. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.09.008>, Registrované v: WOS

5. [1.1] GOVINDARAJI, Praveen Kumar - VUPPU, Suneetha. *Characterisation of pectin and optimization of pectinase enzyme from novel Streptomyces fumigatiscleroticus VIT-SP4 for drug delivery and concrete crack-healing applications: An eco-friendly approach*. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2020, vol. 27, no. 12, pp. 3529-3540. Dostupné na: <https://doi.org/10.1016/j.sjbs.2020.07.024>, Registrované v: WOS

6. [1.1] LIU, Gongji - LIU, Yanzhao - YAN, Shoulei - LI, Jie. *Acetic acid reducing the softening of lotus rhizome during heating by regulating the chelate-soluble polysaccharides*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116209>, Registrované v: WOS

7. [1.1] LIU, Hua-Min - WEI, Ya-Nan - YAN, Yuan-Yuan - WU, Min - QIN, Guang-Yong - WANG, Xue-De. Extraction and Characterization of Pectic Polysaccharides from *Chaenomeles sinensis* Fruit by Hot Compressed Water. In *BIORESOURCES*. ISSN 1930-2126, 2020, vol. 15, no. 1, pp. 854-868. Dostupné na: <https://doi.org/10.15376/biores.15.1.854-868>., Registrované v: WOS
8. [1.1] LIU, Jianing - BI, Jinfeng - LIU, Xuan - LIU, Dazhi - WU, Xinye - LYU, Jian - DING, Yingying. Effects of pectins and sugars on beta-carotene bioaccessibility in an in vitro simulated digestion model. In *JOURNAL OF FOOD COMPOSITION AND ANALYSIS*. ISSN 0889-1575, 2020, vol. 91, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfca.2020.103537>., Registrované v: WOS
9. [1.1] MA, Xuemei - JING, Jing - WANG, Jingbao - XU, Jingjing - HU, Zhiyong. Extraction of Low Methoxyl Pectin from Fresh Sunflower Heads by Subcritical Water Extraction. In *ACS OMEGA*. ISSN 2470-1343, 2020, vol. 5, no. 25, pp. 15095-15104. Dostupné na: <https://doi.org/10.1021/acsomega.0c00928>., Registrované v: WOS
10. [1.1] SHAFIE, Muhammad Hakim - GAN, Chee-Yuen. Could choline chloride-citric acid monohydrate molar ratio in deep eutectic solvent affect structural, functional and antioxidant properties of pectin? In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 149, no., pp. 835-843. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.013>., Registrované v: WOS
11. [1.1] SHULGA, Oksana - LYSTOPAD, Volodymyr - SHULGA, Sergii - YURCHUK, Lyudmila. Method of pectin esterification determination degree by titrated acidity. In *UKRAINIAN FOOD JOURNAL*. ISSN 2304-974X, 2020, vol. 9, no. 2, pp. 383-393. Dostupné na: <https://doi.org/10.24263/2304-974X-2020-9-2-10>., Registrované v: WOS

ADCA466 PATEL, T.R. - HARDING, S.E. - EBRINGEROVÁ, Anna - DESZCZYNSKI, M. - HROMÁDKOVÁ, Zdenka - TOGOLA, A. - PAULSEN, B.S. - MORRIS, G.A. - ROWE, A.J. Weak self-association in carbohydrate system. In *Biophysical Journal*, 2007, vol. 93, p. 741-749. (2006: 4.757 - IF, Q1 - JCR, 2.857 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0006-3495. Dostupné na: <https://doi.org/10.1529/biophysj.106.100891>

Citácie:

1. [1.1] FEDOROV, Dmitrii - BATYS, Piotr - HAYES, David B. - SAMMALKORPI, Maria - LINDER, Markus B. Analyzing the weak dimerization of a cellulose binding module by analytical ultracentrifugation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 1995-2004. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.054>., Registrované v: WOS
2. [1.1] KAV, Batuhan - GRAFMUELLER, Andrea - SCHNECK, Emanuel - WEIKL, Thomas R. Weak carbohydrate-carbohydrate interactions in membrane adhesion are fuzzy and generic. In *NANOSCALE*. ISSN 2040-3364, 2020, vol. 12, no. 33, pp. 17342-17353. Dostupné na: <https://doi.org/10.1039/d0nr03696j>., Registrované v: WOS

ADCA467 PATEL, Trushar R. - MORRIS, Gordon A. - EBRINGEROVÁ, Anna - VODENIČAROVÁ, Melita - VELEBNÝ, Vladimír - ORTEGA, Alvaro - DE LA TORRE, Jose Garsia - HARDING, Stephen E. Global conformation analysis of irradiated xyloglucans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 74, s. 845-851. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.05.006>

Citácie:

1. [1.1] DEWAN, Mitali - DUTTA, Koushik - RANA, Dipak - BASU, Arijita - BHATTACHARYA, Amartya - ADHIKARY, Arghya - CHATTOPADHYAY, Dipankar. Effect of tamarind seed polysaccharide on thermogelation property and drug release profile of poloxamer 407-based ophthalmic formulation. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2020, vol. 44, no. 36, pp. 15708-15715. Dostupné na: <https://doi.org/10.1039/d0nj02767g>, Registrované v: WOS
2. [1.1] GRUBE, Mandy - CINAR, Gizem - SCHUBERT, Ulrich S. - NISCHANG, Ivo. Incentives of Using the Hydrodynamic Invariant and Sedimentation Parameter for the Study of Naturally- and Synthetically-Based Macromolecules in Solution. In *POLYMERS*, 2020, vol. 12, no. 2, pp. Dostupné na: <https://doi.org/10.3390/polym12020277>, Registrované v: WOS
3. [1.1] WU, Shao-Chi - SHYU, Yung-Shin - TSENG, Yi-Wen - SUNG, Wen-Chieh. The Effect of Tamarind Seed Gum on the Qualities of Gluten-Free Cakes. In *PROCESSES*, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/pr8030318>, Registrované v: WOS

ADCA468

PAULOVÍČOVÁ, Ema** - PAULOVÍČOVÁ, Lucia - FARKAŠ, Pavol - KARELIN, Alexander A. - TSVETKOV, Yury E. - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E.**. Importance of Candida Antigenic Factors: Structure-Driven Immunomodulation Properties of Synthetically Prepared Mannooligosaccharides in RAW264.7 Macrophages. In *Frontiers in Cellular and Infection Microbiology*, 2019, vol. 9, article no. 378, p. 1-14. (2018: 3.518 - IF, Q2 - JCR, 1.541 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2235-2988. Dostupné na: <https://doi.org/10.3389/fcimb.2019.00378>

Citácie:

1. [1.1] YAN, Lufeng - XIA, Ke - YU, Yanlei - MILIAKOS, Anna - CHATURVEDI, Sudha - ZHANG, Fuming - CHEN, Shiguo - CHATURVEDI, Vishnu - LINHARDT, Robert J. Unique Cell Surface Mannan of Yeast Pathogen *Candida auris* with Selective Binding to IgG. In *ACS INFECTIOUS DISEASES*. ISSN 2373-8227, 2020, vol. 6, no. 5, pp. 1018-1031. Dostupné na: <https://doi.org/10.1021/acsinfecdis.9b00450>, Registrované v: WOS

ADCA469

PAULOVÍČOVÁ, Ema - BUJDÁKOVÁ, Helena - CHUPÁČOVÁ, Jarmila - PAULOVÍČOVÁ, Lucia - KERTYS, Pavol - HRUBIŠKO, Martin. Humoral immune responses to *Candida albicans* complement receptor 3-related protein in the atopic subjects with vulvovaginal candidiasis. Novel sensitive marker for *Candida* infection. In *FEMS Yeast Research*, 2015, vol. 15, p. 1-8. (2014: 2.818 - IF, Q2 - JCR, 1.076 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/fou001>

Citácie:

1. [1.1] ARDIZZONI, Andrea - SALA, Arianna - COLOMBARI, Bruna - GIVA, Lavinia Beatrice - CERMELLI, Claudio - PEPPOLONI, Samuele - VECCHIARELLI, Anna - ROSELLETTI, Elena - BLASI, Elisabetta - WHEELER, Robert T. - PERICOLINI, Eva. Perinuclear Anti-Neutrophil Cytoplasmic Antibodies (pANCA) Impair Neutrophil Candidacidal Activity and Are Increased in the Cellular Fraction of Vaginal Samples from Women with Vulvovaginal Candidiasis. In *JOURNAL OF FUNGI*, 2020, vol. 6, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jof6040225>, Registrované v: WOS
2. [1.1] HU, Yongxuan - LU, Sha - XI, Liyan. Murine Macrophage Requires CD11b to Recognize *Talaromyces marneffei*. In *INFECTION AND DRUG RESISTANCE*. ISSN 1178-6973, 2020, vol. 13, no., pp. 911-920. Dostupné na: <https://doi.org/10.2147/IDR.S237401>, Registrované v: WOS
3. [1.1] MENG, Yanming - KANG, Mei - LI, Dongdong - WANG, Tingting - KUANG, Ziwei - MA, Ying. Performance of a new *Candida* anti-mannan IgM and

IgG assays in the diagnosis of candidemia. In REVISTA DO INSTITUTO DE MEDICINA TROPICAL DE SAO PAULO. ISSN 0036-4665, 2020, vol. 62, no., pp. Dostupné na: <https://doi.org/10.1590/S1678-9946202062025>., Registrované v: WOS

- ADCA470 PAULOVÍČOVÁ, Lucia** - PAULOVÍČOVÁ, Ema - FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - JANČINOVÁ, Viera - TURÁNEK, J. - PERICOLINI, Eva - GABRIELLI, Elena - VECCHIARELLI, Anna - HRUBIŠKO, M. Bioimmunological activities of *Candida glabrata* cellular mannan. In FEMS Yeast Research, 2019, vol. 19, no. 2, art. no. foz009. (2018: 2.458 - IF, Q2 - JCR, 1.126 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/foz009> (VEGA č. 2/0029/16 : Redoxná regulácia profesionálnych fagocytov v krvi a v centrálnom nervovom systéme: molekulárne mechanizmy a funkčný význam)

Citácie:

1. [1.1] *PODOLAKOVA, K. - BARAK, L. - JANCOVA, E. - STANIK, J. - PODRACKA, L. Increasing incidence of type 1 diabetes mellitus in young children in Slovakia. In BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY. ISSN 0006-9248, 2020, vol. 121, no. 2, p. 129-132., Registrované v: WOS*

2. [1.2] *RASHEED, Mubashshir - BATTU, Anamika - KAUR, Rupinder. Host-pathogen interaction in Candida glabrata infection: current knowledge and implications for antifungal therapy. In Expert Review of Anti-Infective Therapy. ISSN 14787210, 2020-01-01, pp. 1-11., Registrované v: SCOPUS*

- ADCA471 PAVLIÁKOVÁ, Dana - CHU, C.Y. - BYSTRICKÝ, Slavomír - TOLSON, N.W. - SHILOACH, J. - KAUFMAN, J.B. - BRYLA, D.A. - ROBBINS, J.B. - SCHNEERSON, R. Treatment with succinic anhydride improves the immunogenicity of *Shigella flexneri* type 2a O-specific polysaccharide-protein conjugates in mice. In Infection and Immunity, 1999, vol. 67, p. 5526-5529. (1998: 4.034 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0019-9567.

Citácie:

1. [1.1] *SEO, Hyesuk - DUAN, Qiangde - ZHANG, Weiping. Vaccines against gastroenteritis, current progress and challenges (Reprinted from Gut Microbes, vol 11, pg 1486-1517, 2020). In GUT MICROBES. ISSN 1949-0976, 2020, vol. 12, no., pp. Dostupné na: <https://doi.org/10.1080/19490976.2020.1770666>., Registrované v: WOS*

2. [1.1] *SEO, Hyesuk - DUAN, Qiangde - ZHANG, Weiping. Vaccines against gastroenteritis, current progress and challenges. In GUT MICROBES. ISSN 1949-0976, 2020, vol. 11, no. 6, pp. 1486-1517. Dostupné na: <https://doi.org/10.1080/19490976.2020.1770666>., Registrované v: WOS*

- ADCA472 PAWLACZYK, Izabela - CAPEK, Peter - CZERCHAWSKI, Leszek - BIJAK, Joanna - LEWIK-TSIRIGOTIS, Marta - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An anticoagulant effect and chemical characterization of *Lythrum salicaria* L. glycoconjugates. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2011, vol. 86, p. 277-284. (2010: 3.463 - IF, Q1 - JCR, 1.370 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2011.04.048>

Citácie:

1. [1.1] *COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous*

extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS

2. [1.1] SRECKOVIC, Nikola - STANKOVIC, Jelena S. Katanic - MATIC, Sanja - MIHAILOVIC, Nevena R. - IMBIMBO, Paola - MONTI, Daria Maria - MIHAILOVIC, Vladimir. *Lythrum salicaria L. (Lythraceae) as a promising source of phenolic compounds in the modulation of oxidative stress: Comparison between aerial parts and root extracts. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112781>., Registrované v: WOS*

3. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. *Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS*

ADCA473 PAWLACZYK, Izabela - CZERCHAWSKI, Leszek - KAŃSKA, Justyna - BIJAK, Joanna - CAPEK, Peter - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. *An acidic glycococnjugate from Lythrum salicaria L. with controversial effects on haemostasis. In Journal of Ethnopharmacology, 2010, vol. 131, p. 63-69. (2009: 2.322 - IF, Q2 - JCR, 1.085 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0378-8741.*

Citácie:

1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. *Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS*

2. [1.1] EBRAHIMI, Fatemeh - MAHMOUDI, Javad - TORBATI, Mohammadali - KARIMI, Poursan - VALIZADEH, Hadi. *Hemostatic activity of aqueous extract of Myrtus communis L. leaf in topical formulation: In vivo and in vitro evaluations. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2020, vol. 249, no., pp. Dostupné na: <https://doi.org/10.1016/j.jep.2019.112398>., Registrované v: WOS*

3. [1.1] EBRAHIMI, Fatemeh - TORBATI, Mohammadali - MAHMOUDI, Javad - VALIZADEH, Hadi. *Medicinal Plants as Potential Hemostatic Agents. In JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES. ISSN 1482-1826, 2020, vol. 23, no., pp. 10-23., Registrované v: WOS*

4. [1.1] MENDES, Tatiane C. - DOS REIS LIVERO, Francislaine Aparecida - DE SOUZA, Priscila - GEBARA, Karimi S. - GASPAROTTO JUNIOR, Arquimedes. *Cellular and Molecular Mechanisms of Antithrombogenic Plants: A Narrative Review. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2020, vol. 26, no. 1, pp. 176-190. Dostupné na: <https://doi.org/10.2174/1381612825666191216125135>., Registrované v: WOS*

5. [1.1] SRECKOVIC, Nikola - STANKOVIC, Jelena S. Katanic - MATIC, Sanja -

- MIHAILOVIC, Nevena R. - IMBIMBO, Paola - MONTI, Daria Maria - MIHAILOVIC, Vladimir. *Lythrum salicaria L. (Lythraceae) as a promising source of phenolic compounds in the modulation of oxidative stress: Comparison between aerial parts and root extracts. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2020, vol. 155, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112781>, Registrované v: WOS*
- ADCA474 PAWLACZYK, Izabela - LEWIK-TSIRIGOTIS, Marta - CAPEK, Peter - MATULOVÁ, Mária - SASINKOVÁ, Vlasta - DABROWSKI, Pawel - WITKIEWICZ, Wojciech - GANCARZ, Roman. Effects of extraction condition on structural features and anticoagulant activity of *F. vesca* L. conjugates. In *Carbohydrate Polymers*, 2013, vol. 92, p. 741-750. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.10.011>
- Citácie:
- [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. *Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>, Registrované v: WOS*
 - [1.1] KRZYKOWSKI, Andrzej - DZIKI, Dariusz - RUDY, Stanislaw - GAWLIK-DZIKI, Urszula - JANISZEWSKA-TURAK, Emilia - BIERNACKA, Beata. *Wild Strawberry Fragaria vesca L.: Kinetics of Fruit Drying and Quality Characteristics of the Dried Fruits. In PROCESSES, 2020, vol. 8, no. 10, pp. Dostupné na: <https://doi.org/10.3390/pr8101265>, Registrované v: WOS*
 - [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. *Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>, Registrované v: WOS*
- ADCA475 PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - MATULOVÁ, Mária - CAPEK, Peter - GANCZARZ, Roman. Polyphenolic-polysaccharide conjugates of *Sanguisorba officinalis* L. with anticoagulant activity mediated by a heparin cofactor II. In *International Journal of Biological Macromolecules*, 2016, vol. 93, p. 1019-1029. (2015: 3.138 - IF, Q1 - JCR, 0.808 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2016.09.082>
- Citácie:
- [1.1] BUNSE, Marek - LORENZ, Peter - STINTZING, Florian C. - KAMMERER, Dietmar R. *Characterization of Secondary Metabolites in Flowers of Sanguisorba officinalis L. by HPLC-DAD-MSn and GC/MS. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2020, vol. 17, no. 4, pp. Dostupné na: <https://doi.org/10.1002/cbdv.201900724>, Registrované v: WOS*
 - [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S.

Polysaccharide composition of an anticoagulant fraction from the aqueous extract of Marsypianthes chamaedrys (Lamiaceae). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.12.176>, Registrované v: WOS

3. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. *Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from Hovenia dulcis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na:*

<https://doi.org/10.1016/j.ijbiomac.2019.10.211>, Registrované v: WOS

4. [1.1] PEREZ-ESCALANTE, Emmanuel - ELIZABETH CRUZ-GUERRERO, Alma - ARTURO ALVAREZ-ROMERO, Gaaan - HUMBERTO MENDOZA-HUIZAR, Luis - FRANCISCO FLORES-AGUILAR, Juan - GUILLERMO GONZALEZ-OLIVARES, Luis. *Urea as the best fibrin solubilizer in the thrombin inhibition analysis: Theoretical and experimental modeling of fibrinogen denaturation. In CHEMICAL PHYSICS LETTERS. ISSN 0009-2614, 2020, vol. 748, no., pp. Dostupné na: <https://doi.org/10.1016/j.cplett.2020.137352>, Registrované v: WOS*

5. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. *Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>, Registrované v: WOS*

ADCA476 PAWLIKOWSKA, Ewelina** - JAMES, Steve A. - BREIEROVÁ, Emília - ANTOLAK, Hubert - KREGIEL, Dorota. *Biocontrol capability of local Metschnikowia sp. isolates. In Antonie van Leeuwenhoek, 2019, vol. 112, p. 1425-1445. (2018: 1.934 - IF, Q3 - JCR, 0.819 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0003-6072. Dostupné na: <https://doi.org/10.1007/s10482-019-01272-w>*

Citácie:

1. [1.1] BECKER, Regina - ULRICH, Kristina - BEHRENDT, Undine - KUBE, Michael - ULRICH, Andreas. *Analyzing Ash Leaf-Colonizing Fungal Communities for Their Biological Control of Hymenoscyphus fraxineus. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.590944>, Registrované v: WOS*

2. [1.1] FERNANDEZ-SAN MILLAN, A. - FARRAN, I - LARRAYA, L. - ANCIN, M. - ARREGUI, L. M. - VERAMENDI, J. *Plant growth-promoting traits of yeasts isolated from Spanish vineyards: benefits for seedling development. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2020, vol. 237, no., pp. Dostupné na: <https://doi.org/10.1016/j.micres.2020.126480>, Registrované v: WOS*

3. [1.1] MELVYDAS, Vytautas - SVEDIENE, Jurgita - SKRIDLAITE, Grazina - VAICIUNIENE, Jurate - GARJONYTE, Rasa. *In vitro inhibition of Saccharomyces cerevisiae growth by Metschnikowia spp. triggered by fast removal of iron via two ways. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, 2020, vol. 51, no. 4, pp. 1953-1964. Dostupné na: <https://doi.org/10.1007/s42770-020->*

00357-3., Registrované v: WOS

4. [1.1] NARDI, Tiziana. *Microbial Resources as a Tool for Enhancing Sustainability in Winemaking*. In *MICROORGANISMS*, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8040507>., Registrované v: WOS

5. [1.1] ROJAS-JIMENEZ, Keilor - GROSSART, Hans-Peter - CORDES, Erik - CORTES, Jorge. *Fungal Communities in Sediments Along a Depth Gradient in the Eastern Tropical Pacific*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na:

<https://doi.org/10.3389/fmicb.2020.575207>., Registrované v: WOS

6. [1.1] SIPICZKI, Matthias. *Metschnikowia pulcherrima and Related Pulcherrimin-Producing Yeasts: Fuzzy Species Boundaries and Complex Antimicrobial Antagonism*. In *MICROORGANISMS*, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8071029>., Registrované v: WOS

ADCA477 PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOGIKH, Dmitry - ARGENTOVA, Victoria** - KATRLÍK, Jaroslav**. *Influence of media composition on recombinant monoclonal IgA1 glycosylation analysed by lectin-based protein microarray and MALDI-MS*. In *Journal of Biotechnology*, 2020, vol. 314-315, p. 34-40. (2019: 3.503 - IF, Q2 - JCR, 0.992 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.03.009>

Citácie:

1. [1.1] MAZALOVSKA, Milena - KOUOKAM, J. Calvin. *Plant-Derived Lectins as Potential Cancer Therapeutics and Diagnostic Tools*. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/1631394>., Registrované v: WOS

ADCA478 PEDERSEN, H.L. - FANGEL, J.U. - MCCLEARY, B. - RUZANSKI, C. - GRO RYDAHI, M. - RALET, M.C. - FARKAŠ, Vladimír - VON SCHANTZ, L. - MARCOS, S.E. - ANDERSEN, M.C.F. - FIELD, R. - OHLIN, M. - KNOX, J.P. - CLAUSEN, M.H. - WILLATS, W.G.T. *Versatile high-resolution oligosaccharide microarrays for plant glycobiology and cell wall research*. In *The Journal of Biological Chemistry*, 2012, vol. 287, p. 39429-39438. (2011: 4.773 - IF, Q1 - JCR, 3.544 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M112.396598>

Citácie:

1. [1.1] BLENNOW, Andreas - SKRYHAN, Katsiaryna - TANACKOVIC, Vanja - KRUNIC, Susanne L. - SHAIK, Shahnoor S. - ANDERSEN, Mette S. - KIRK, Hanne-Grethe - NIELSEN, Kare L. *Non-GMO potato lines, synthesizing increased amylose and resistant starch, are mainly deficient in isoamylase debranching enzyme*. In *PLANT BIOTECHNOLOGY JOURNAL*. ISSN 1467-7644, 2020, vol. 18, no. 10, pp. 2096-2108. Dostupné na:

<https://doi.org/10.1111/pbi.13367>., Registrované v: WOS

2. [1.1] GAVRIN, Aleksandr - REY, Thomas - TORODE, Thomas A. - TOULOTTE, Justine - CHATTERJEE, Abhishek - KAPLAN, Jonathan Louis - EVANGELISTI, Edouard - TAKAGI, Hiroki - CHAROENSAWAN, Varodom - RENGEL, David - JOURNET, Etienne-Pascal - DEBELLE, Frederic - DE CARVALHO-NIEBEL, Fernanda - TERAUCHI, Ryohei - BRAYBROOK, Siobhan - SCHORNACK, Sebastian. *Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen*. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2020, vol. 30, no. 21, pp. 4165-+. Dostupné na: <https://doi.org/10.1016/j.cub.2020.08.011>., Registrované v: WOS

3. [1.1] GLADALA-KOSTARZ, Agnieszka - DOONAN, John H. - BOSCH, Maurice. *Mechanical stimulation in Brachypodium distachyon: Implications for fitness, productivity, and cell wall properties.* In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2020, vol. 43, no. 5, pp. 1314-1330. Dostupné na: <https://doi.org/10.1111/pce.13724>., Registrované v: WOS
4. [1.1] HENRY, Jason S. - LOPEZ, Renee A. - RENZAGLIA, Karen S. *Differential localization of cell wall polymers across generations in the placenta of Marchantia polymorpha.* In *JOURNAL OF PLANT RESEARCH*. ISSN 0918-9440, 2020, vol. 133, no. 6, pp. 911-924. Dostupné na: <https://doi.org/10.1007/s10265-020-01232-w>., Registrované v: WOS
5. [1.1] HIRANO, Seiya - YAMAGISHI, Yusuke - NAKABA, Satoshi - KAJITA, Shinya - FUNADA, Ryo - HORIKAWA, Yoshiki. *Artificially lignified cell wall catalyzed by peroxidase selectively localized on a network of microfibrils from cultured cells.* In *PLANTA*. ISSN 0032-0935, 2020, vol. 251, no. 6, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03396-0>., Registrované v: WOS
6. [1.1] IBRAGIMOVA, Nadezda - MOKSHINA, Natalia - AGEeva, Marina - GURJANOV, Oleg - MIKSHINA, Polina. *Rearrangement of the Cellulose-Enriched Cell Wall in Flax Phloem Fibers over the Course of the Gravitropic Reaction.* In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 15, pp. Dostupné na: <https://doi.org/10.3390/ijms21155322>., Registrované v: WOS
7. [1.1] JEMMAT, Achraf M. - RANOCHA, Philippe - LE RU, Aurelie - NEEL, Maxime - JAUNEAU, Alain - RAGGI, Sara - FERRARI, Simone - BURLAT, Vincent - DUNAND, Christophe. *Coordination of five class III peroxidase-encoding genes for early germination events of Arabidopsis thaliana.* In *PLANT SCIENCE*. ISSN 0168-9452, 2020, vol. 298, no., pp. Dostupné na: <https://doi.org/10.1016/j.plantsci.2020.110565>., Registrované v: WOS
8. [1.1] KOZLOVA, Liudmila V. - NAZIPOVA, Alsu R. - GORSHKOV, Oleg V. - PETROVA, Anna A. - GORSHKOVA, Tatyana A. *Elongating maize root: zone-specific combinations of polysaccharides from type I and type II primary cell walls.* In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-67782-0>., Registrované v: WOS
9. [1.1] MEI, Xuanwei - CHANG, Yaoguang - SHEN, Jingjing - ZHANG, Yuying - XUE, Changhu. *Expression and characterization of a novel alginate-binding protein: A promising tool for investigating alginate.* In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116645>., Registrované v: WOS
10. [1.1] NEUMANN, Ulla - HAY, Angela. *Seed coat development in explosively dispersed seeds of Cardamine hirsuta.* In *ANNALS OF BOTANY*. ISSN 0305-7364, 2020, vol. 126, no. 1, pp. 39-59. Dostupné na: <https://doi.org/10.1093/aob/mcz190>., Registrované v: WOS
11. [1.1] PERZON, Alixander - KRACUN, Stjepan Kresimir - JORGENSEN, Bodil - ULVSKOV, Peter. *Array-based microfibril surface assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres.* In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 15, pp. 8635-8651. Dostupné na: <https://doi.org/10.1007/s10570-020-03398-x>., Registrované v: WOS
12. [1.1] PFRENGLE, Fabian. *Automated Glycan Assembly of Plant Cell Wall Oligosaccharides.* In *PLANT CELL WALL, 2 EDITION*. ISSN 1064-3745, 2020, vol. 2149, no., pp. 503-512. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_28., Registrované v: WOS
13. [1.1] POPIELARSKA-KONIECZNA, Marzena - SALA, Katarzyna - ABDULLAH, Mohib - TULEJA, Monika - KURCZYNSKA, Ewa. *Extracellular*

matrix and wall composition are diverse in the organogenic and non-organogenic calli of Actinidia arguta. In PLANT CELL REPORTS. ISSN 0721-7714, 2020, vol. 39, no. 6, pp. 779-798. Dostupné na: <https://doi.org/10.1007/s00299-020-02530-2>, Registrované v: WOS

14. [1.1] REN, Guangxi - ROSQUETE, Michel Ruiz - PERALTA, Angelo G. - PATTATHIL, Sivakumar - HAHN, Michael G. - WILKOP, Thomas - DRAKAKAKI, Georgia. Isolation and Glycomic Analysis of Trans-Golgi Network Vesicles in Plants. In PLANT ENDOSOMES, 2 EDITION. ISSN 1064-3745, 2020, vol. 2177, no., pp. 153-167. Dostupné na: https://doi.org/10.1007/978-1-0716-0767-1_13, Registrované v: WOS

15. [1.1] RENZAGLIA, Karen S. - LOPEZ, Renee A. - WELSH, Ryan D. - OWEN, Heather A. - MERCED, Amelia. Callose in sporogenesis: novel composition of the inner spore wall in hornworts. In PLANT SYSTEMATICS AND EVOLUTION. ISSN 0378-2697, 2020, vol. 306, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00606-020-01631-5>, Registrované v: WOS

16. [1.1] ROPITAUX, Marc - BERNARD, Sophie - SCHAPMAN, Damien - FOLLET-GUEYE, Marie-Laure - VICRE, Maite - BOULOGNE, Isabelle - DRIOUICH, Azeddine. Root Border Cells and Mucilage Secretions of Soybean, Glycine Max (Merr) L.: Characterization and Role in Interactions with the Oomycete Phytophthora Parasitica. In CELLS, 2020, vol. 9, no. 10, pp. Dostupné na: <https://doi.org/10.3390/cells9102215>, Registrované v: WOS

17. [1.1] SATO-IZAWA, Kanna - ITO, Miyuki - NUOENDAGULA - KAJITA, Shinya - NAKAMURA, Shin-ichi - MATSUMOTO, Takashi - EZURA, Hiroshi. Distinct deposition of ester-linked ferulic and p-coumaric acids to the cell wall of developing sorghum internodes. In PLANT BIOTECHNOLOGY. ISSN 1342-4580, 2020, vol. 37, no. 1, pp. 15-23. Dostupné na: <https://doi.org/10.5511/plantbiotechnology.19.1125a>, Registrované v: WOS

18. [1.1] SHTEIN, Ilana - KOYFMAN, Alex - SCHWARTZ, Amnon - POPPER, Zoe A. - BAR-ON, Benny. Solanales Stem Biomechanical Properties Are Primarily Determined by Morphology Rather Than Internal Structural Anatomy and Cell Wall Composition. In PLANTS-BASEL, 2020, vol. 9, no. 6, pp. Dostupné na: <https://doi.org/10.3390/plants9060678>, Registrované v: WOS

19. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - RICHARDSON, Elizabeth A. - YE, Zheng-Hua. A Group of O-Acetyltransferases Catalyze Xyloglucan Backbone Acetylation and Can Alter Xyloglucan Xylosylation Pattern and Plant Growth When Expressed in Arabidopsis. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2020, vol. 61, no. 6, pp. 1064-1079. Dostupné na: <https://doi.org/10.1093/pcp/pcaa031>, Registrované v: WOS

ADCA479 PERIASAMY, Agalya - SHADIAC, Nadim - AMALRAJ, Amritha - GARAJOVÁ, Soňa - NAGARAJAN, Yagnesh - WATERS, Shane - MERTENS, Haydyn D.T. - HRMOVÁ, Mária. Cell-free protein synthesis of membrane (1,3)-beta-D-glucan (curdian) synthase: Co-translational insertion in liposomes and reconstitution in nanodiscs. In Biochimica et Biophysica Acta : Biomembranes, 2013, vol. 1828, p. 743-757. (2012: 3.389 - IF, Q2 - JCR, 1.860 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0005-2736. Dostupné na: <https://doi.org/10.1016/j.bbamem.2012.10.003>

Citácie:

1. [1.1] ADIR, Omer - SHARF-PAUKER, Noga - CHEN, Gal - KADURI, Maya - KRINSKY, Nitzan - SHAINSKY-ROITMAN, Janna - SHKLOVER, Jeny - SCHROEDER, Avi. Preparing Protein Producing Synthetic Cells using Cell Free Bacterial Extracts, Liposomes and Emulsion Transfer. In JOVE-JOURNAL OF

- VISUALIZED EXPERIMENTS. ISSN 1940-087X, 2020, vol., no. 158, pp. Dostupné na: <https://doi.org/10.3791/60829>, Registrované v: WOS*
2. [1.1] *AYOUBI-JOSHAGHANI, Mohammad H. - DIANAT-MOGHADAM, Hassan - SEIDI, Khaled - JAHANBAN-ESFAHALAN, Ali - ZARE, Peyman - JAHANBAN-ESFAHLAN, Rana. Cell-free protein synthesis: The transition from batch reactions to minimal cells and microfluidic devices. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2020, vol. 117, no. 4, pp. 1204-1229. Dostupné na: <https://doi.org/10.1002/bit.27248>, Registrované v: WOS*
3. [1.1] *MARTY, Michael T. Nanodiscs and mass spectrometry: Making membranes fly. In INTERNATIONAL JOURNAL OF MASS SPECTROMETRY. ISSN 1387-3806, 2020, vol. 458, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijms.2020.116436>, Registrované v: WOS*
4. [1.1] *MISHRA, Vibhor. Affinity Tags for Protein Purification. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2020, vol. 21, no. 8, pp. 821-830. Dostupné na: <https://doi.org/10.2174/1389203721666200606220109>, Registrované v: WOS*

ADCA480 PETRÍK, Igor - JANÁK, Marian - FROITZHEIM, Nikolaus - GEORGIEV, N. - YOSHIDA, Kenji - SASINKOVÁ, Vlasta - KONEČNÝ, Patrik - MILOVSKÁ, Stanislava. Triassic to Early Jurassic (c. 200 Ma) UHP metamorphism in the Central Rhodopes: evidence from U-Pb-Th dating of monazite in diamond-bearing gneiss from Chepelare (Bulgaria). In *Journal of Metamorphic Geology*, 2016, vol. 34, no. 3, p. 265-291. (2015: 3.673 - IF, Q1 - JCR, 3.229 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0263-4929. Dostupné na: <https://doi.org/10.1111/jmg.12181>

Citácie:

1. [1.1] *KOUNOV, Alexandre - SEWARD, Diane - BURG, Jean-Pierre - STOCKLI, Daniel - WUTHRICH, Eliane. Cenozoic thermal evolution of the Central Rhodope Metamorphic Complex (Southern Bulgaria). In INTERNATIONAL JOURNAL OF EARTH SCIENCES. ISSN 1437-3254, 2020, vol. 109, no. 5, pp. 1589-1611. Dostupné na: <https://doi.org/10.1007/s00531-020-01862-4>, Registrované v: WOS*
2. [1.1] *SCHMID, Stefan M. - FUEGENSCHUH, Bernhard - KOUNOV, Alexandre - MATENCO, Liviu - NIEVERGELT, Peter - OBERHAENSLI, Roland - PLEUGER, Jan - SCHEFER, Senecio - SCHUSTER, Ralf - TOMLJENOVIC, Bruno - USTASZEWSKI, Kamil - VAN HINSBERGEN, Douwe J. J. Tectonic units of the Alpine collision zone between Eastern Alps and western Turkey. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 78, no., pp. 308-374. Dostupné na: <https://doi.org/10.1016/j.gr.2019.07.005>, Registrované v: WOS*
3. [1.1] *VAN HINSBERGEN, Douwe J. J. - TORSVIK, Trond H. - SCHMID, Stefan M. - MATENCO, Liviu C. - MAFFIONE, Marco - VISSERS, Reinoud L. M. - GURER, Derya - SPAKMAN, Wim. Orogenic architecture of the Mediterranean region and kinematic reconstruction of its tectonic evolution since the Triassic. In GONDWANA RESEARCH. ISSN 1342-937X, 2020, vol. 81, no., pp. 79-229. Dostupné na: <https://doi.org/10.1016/j.gr.2019.07.009>, Registrované v: WOS*

ADCA481 PETRÍK, Igor** - JANÁK, Marian - KLONOWSKA, I. - MAJKA, Jarosław - FROITZHEIM, Nikolaus - YOSHIDA, Kenji - SASINKOVÁ, Vlasta - KONEČNÝ, Patrik - VACULOVIČ, T. Monazite behaviour during metamorphic evolution of a diamond-bearing gneiss: a case study from the Seve Nappe Complex, Scandinavian Caledonides. In *Journal of Petrology*, 2019, vol. 60, no. 9, p. 1773-1796. (2018: 3.380 - IF, Q2 - JCR, 2.435 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3530. Dostupné na: <https://doi.org/10.1093/petrology/egz051>

Citácie:

1. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. - DARLING, James - ANDERSON, Mark W. Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides. In *TECTONICS*. ISSN 0278-7407, 2020, vol. 39, no. 9, pp. Dostupné na: <https://doi.org/10.1029/2020TC006267>., Registrované v: WOS
- ADCA482 PETRUŠ, Ladislav - GRAY, D.G. - BEMILLER, J.N. Homogeneous alkylation of cellulose in lithium chloride-dimethyl sulfoxide solvent with dimsyl sodium activation - a proposal for the mechanism of cellulose dissolution in LiCl/Me₂SO. In *Carbohydrate Research*, 1995, vol. 268, p. 319-323. (1995 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(94\)00330-I](https://doi.org/10.1016/0008-6215(94)00330-I)
- Citácie:
1. [1.1] ADOLFSSON, Karin H. - MELILLI, Giuseppe - HAKKARAINEN, Minna. Oxidized Carbonized Cellulose-Coated Filters for Environmental Contaminant Adsorption and Detection. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2020, vol. 59, no. 30, pp. 13578-13587. Dostupné na: <https://doi.org/10.1021/acs.iecr.0c01973>., Registrované v: WOS
 2. [1.1] SHAO, Changyou - YANG, Jun. Dynamics in Cellulose-Based Hydrogels with Reversible Cross-Links. In *SELF-HEALING AND SELF-RECOVERING HYDROGELS*. ISSN 0065-3195, 2020, vol. 285, no., pp. 319-354. Dostupné na: https://doi.org/10.1007/12_2019_58., Registrované v: WOS
 3. [1.1] XIE, Di - GAN, Tao - SU, Chen - HAN, Yin - LIU, Zhulan - CAO, Yunfeng. Structural characterization and antioxidant activity of water-soluble lignin-carbohydrate complexes (LCCs) isolated from wheat straw. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 161, no., pp. 315-324. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.049>., Registrované v: WOS
- ADCA483 PETRUŠOVÁ, Mária - VOJTECH, Michal - PRIBULOVÁ, Božena - LATTOVÁ, Erika - MATULOVÁ, Mária - POLÁKOVÁ, Monika - BEMILLER, J.N. - KŘEN, V. - PETRUŠ, Ladislav. Extension of the Nef reaction to C-glycosylnitromethanes. In *Carbohydrate Research*, 2006, vol. 341, p. 2019-2025. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.04.050>
- Citácie:
1. [1.1] YANG, Lin - LIN, Zuming - ZHENG, Kuan - KONG, Luyao - HONG, Ran. A Modular Synthesis of Antitumor Macrolide (-)-Lasonolide A(dagger). In *CHINESE JOURNAL OF CHEMISTRY*. ISSN 1001-604X, 2020, vol. 38, no. 7, pp. 725-736. Dostupné na: <https://doi.org/10.1002/cjoc.202000026>., Registrované v: WOS
- ADCA484 PETRUŠOVÁ, Mária - SMRTIČOVÁ, Hana - PRIBULOVÁ, Božena - VLČKOVÁ, Silvia - UHLIARIKOVÁ, Iveta - DOSCA, Tibor - SOMSAK, László - PETRUŠ, Ladislav. One pot InCl₃-catalyzed synthesis of 1-glycosylmethyl-1H-imidazoles. In *Tetrahedron*, 2016, vol. 72, no. 17, p. 2116-2121. (2015: 2.645 - IF, Q2 - JCR, 0.941 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0040-4020. Dostupné na: <https://doi.org/10.1016/j.tet.2016.03.010>
- Citácie:
1. [1.1] DAGLI, Meltem - ER, Mustafa - KARAKURT, Tuncay - ONARAN, Abdurrahman - ALICI, Hakan - TAHTACI, Hakan. Synthesis, Characterization, Antimicrobial Evaluation, and Computational Investigation of Substituted Imidazo[2,1-b][1,3,4]Thiadiazole Derivatives. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2020, vol. 5, no. 38, pp. 11753-11763. Dostupné na: <https://doi.org/10.1002/slct.202002821>., Registrované v: WOS
- ADCA485 GAJDOŠOVÁ, Veronika* - LORENCOVÁ, Lenka* - PROCHÁZKA, Michal -

MIČUŠÍK, Matej - OMASTOVÁ, Mária - PROCHÁZKOVÁ, Simona - KVĚTONĚ, Filip - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - TKÁČ, Ján**. Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH₃)₆³⁺ of electrode interfaces modified with HF or LiF-HCl etched Ti₃C₂T_x MXene. In *Microchimica Acta*, 2020, vol. 187, no. 1, art. no. 52, [8] p. (2019: 6.232 - IF, Q1 - JCR, 1.300 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0026-3672. Dostupné na: <https://doi.org/10.1007/s00604-019-4049-6>

Citácie:

1. [1.1] SHAHZAD, Faisal - ZAIDI, Shabi Abbas - NAQVI, Rizwan Ali. 2D Transition Metal Carbides (MXene) for Electrochemical Sensing: A Review. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2020, vol., no., pp. Dostupné na: <https://doi.org/10.1080/10408347.2020.1836470>., Registrované v: WOS
2. [1.1] ZHANG, C. - MA, B. - ZHOU, Y.K. - WANG, C. Highly active and durable Pt/MXene nanocatalysts for ORR in both alkaline and acidic conditions. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, MAY 15 2020, vol. 865., Registrované v: WOS

ADCA486 POKKULURI, Phani Raj - DUKE, Norma E.C. - WOOD, Stephen J. - COTTA, Michael A. - LI, Xin-Liang - BIELY, Peter - SCHIFFER, Marianne. Structure of the catalytic domain of glucuronoyl esterase Cip2 from *Hypocrea jecorina*. In *Proteins : Structure Function and Bioinformatics*, 2011, vol. 79, p. 2588-2592. (2010: 2.813 - IF, Q2 - JCR, 1.934 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0887-3585. Dostupné na: <https://doi.org/10.1002/prot.23088>

Citácie:

1. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. The structural basis of fungal glucuronoyl esterase activity on natural substrates. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14833-9>., Registrované v: WOS
2. [1.1] KRŠKA, Daniel - LARSBRINK, Johan. Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01709-9>., Registrované v: WOS

ADCA487 POLÁKOVÁ, Monika - ROSLUND, Mattias U. - EKHOLM, Filip S. - SALORANTA, Tiina - LEINO, Reko. Synthesis of beta-(1-2)-Linked Oligomannosides. Filip S. Ekholm, Tiina Saloranta, Reko Leino. In *European Journal of Organic Chemistry*, 2009, pp.870-888. Dostupné na: <https://doi.org/10.1002/ejoc.200801024>

Citácie:

1. [1.1] ADAK, Taniya - MORALES, Daniela L. - COOK, Alina J. - GRIGG, Jason C. - MURPHY, Michael E. P. - TANNER, Martin E. ArnD is a deformylase involved in polymyxin resistance. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2020, vol. 56, no. 50, pp. 6830-6833. Dostupné na: <https://doi.org/10.1039/d0cc02241a>., Registrované v: WOS
2. [1.1] MAKI, Yuta - NOMURA, Kota - OKAMOTO, Ryo - IZUMI, Masayuki - MIZUTANI, Yasuhisa - KAJIHARA, Yasuhiro. Acceleration and Deceleration Factors on the Hydrolysis Reaction of 4,6-O-Benzylidene Acetal Group. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15849-15856. Dostupné na: <https://doi.org/10.1021/acs.joc.0c00395>., Registrované v: WOS

- ADCA488 POLÁKOVÁ, Monika - BELÁŇOVÁ, M. - PETRUŠ, Ladislav - MIKUŠOVÁ, K. Synthesis of alkyl and cycloalkyl alfa-D-mannopyranosides and derivatives thereof and their evaluation in the mycobacterial mannosyltransferase assay. In Carbohydrate Research, 2010, vol. 345, p. 1339-1347. (2009: 2.025 - IF, Q2 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2010.03.011>
 Citácie:
 1. [1.1] *ARIPIN, Nurul Fadhilah Kamalul - HEAP, Jonathan Maclean - PINOL, Rafael - MANICKAM-ACHARI, Vijayan - MARTINEZ-FELIPE, Alfonso. Unveiling the hydrogen bonding network in liquid crystalline natural-based glycosides containing polymeric complexes: Experimental and theoretical assessment. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2020, vol. 596, no., pp. Dostupné na: <https://doi.org/10.1016/j.colsurfa.2020.124685>, Registrované v: WOS*
 2. [1.1] *SLAVKO, Ekaterina - TAYLOR, Mark S. Site-Selective, Organoboron-Catalyzed Polymerization of Pyranosides: Access to Sugar-Derived Polyesters with Tunable Properties. In MACROMOLECULES. ISSN 0024-9297, 2020, vol. 53, no. 19, pp. 8192-8201. Dostupné na: <https://doi.org/10.1021/acs.macromol.0c01686>, Registrované v: WOS*
- ADCA489 POLÁKOVÁ, Monika - HORÁK, Radim - ŠESTÁK, Sergej - HOLKOVÁ, Ivana. Synthesis of modified D-mannose core derivatives and their impact on GH38 α -mannosidases. In Carbohydrate Research, 2016, vol. 428, p. 62-71. (2015: 1.817 - IF, Q2 - JCR, 0.588 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2016.04.004>
 Citácie:
 1. [1.1] *KOYAMA, Ryosuke - KANO, Yui - KIKUSHIMA, Kaori - MIZUTANI, Ayaka - SOEDA, Yuta - MIURA, Kazuki - HIRANO, Takako - NISHIO, Toshiyuki - HAKAMATA, Wataru. A novel Golgi mannosidase inhibitor: Molecular design, synthesis, enzyme inhibition, and inhibition of spheroid formation. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2020, vol. 28, no. 11, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115492>, Registrované v: WOS*
- ADCA490 POLÁKOVÁ, Monika - JANKOVIČ, Ľuboš - KUCKOVÁ, Lenka - KOŽÍŠEK, Jozef. Application of oxone immobilized on montmorillonite for an efficient oxidation of mannose thioglycoside. In Monatshefte für Chemie, 2013, vol. 144, p. 969-973. (2012: 1.629 - IF, Q2 - JCR, 0.533 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0026-9247. Dostupné na: <https://doi.org/10.1007/s00706-013-0964-0>
 Citácie:
 1. [1.1] *DIMITRIOU, Eleni - MILLER, Gavin J. Synthesis and Isolation of Diastereomeric Anomeric Sulfoxides from a d-Mannuronate Thioglycoside Building Block. In MOLBANK, 2020, vol. 2020, no. 1, pp. Dostupné na: <https://doi.org/10.3390/M1111>, Registrované v: WOS*
- ADCA491 POLAKOVIČ, Milan - ŠVITEL, Juraj - BUČKO, Marek - FILIP, Jaroslav - NEDĚLA, Vilém - ANSORGE-SCHUMACHER, Marion B. - GEMEINER, Peter. Progress in biocatalysis with immobilized viable whole cells: systems development, reaction engineering and applications. In Biotechnology Letters, 2017, vol. 39, p. 667-683. (2016: 1.730 - IF, Q3 - JCR, 0.628 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-017-2300-y>
 Citácie:

1. [1.1] CHANG, Ya-Wen - ZHANG, Jian-Dong - YANG, Xiao-Xiao - LI, Jing - GAO, Li-Li - HUANG, Shuang-Ping - GUO, Xing-Mei - ZHANG, Cao-Feng - CHANG, Hong-Hong - XU, Jian-He. High throughput solid-phase screening of bacteria with cyclic amino alcohol deamination activity for enantioselective synthesis of chiral cyclic beta-amino alcohols. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1501-1511. Dostupné na: <https://doi.org/10.1007/s10529-020-02869-2>, Registrované v: WOS
2. [1.1] GERARDY, Romaric - DEBECKER, Damien P. - ESTAGER, Julien - LUIS, Patricia - MONBALIU, Jean-Christophe M. Continuous Flow Upgrading of Selected C-2-C(6) Platform Chemicals Derived from Biomass. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2020, vol. 120, no. 15, pp. 7219-7347. Dostupné na: <https://doi.org/10.1021/acs.chemrev.9b00846>, Registrované v: WOS
3. [1.1] KAZEMZADEH, Somayeh - NAGHAVI, Nafiseh Sadat - EMAMI-KARVANI, Zarrindokht - FOULADGAR, Masoud - EMTIAZI, Giti. Gas chromatography-mass spectrometry analyses of crude oil bioremediation by the novel *Klebsiella variicola* SKV(2) immobilized in polyurethane polymer scaffold and two-layer microcapsulation. In *BIOREMEDIATION JOURNAL*. ISSN 1088-9868, 2020, vol. 24, no. 2-3, pp. 129-149. Dostupné na: <https://doi.org/10.1080/10889868.2020.1793722>, Registrované v: WOS
4. [1.1] PINTO, Andrea - CONTENTE, Martina Letizia - TAMBORINI, Lucia. Advances on whole-cell biocatalysis in flow. In *CURRENT OPINION IN GREEN AND SUSTAINABLE CHEMISTRY*. ISSN 2452-2236, 2020, vol. 25, no., pp. Dostupné na: <https://doi.org/10.1016/j.cogsc.2020.04.004>, Registrované v: WOS
5. [1.1] SANTILLAN, J. Y. - MUZLERA, A. - MOLINA, M. - LEWKOWICZ, E. S. - IRIBARREN, A. M. Microbial degradation of organophosphorus pesticides using whole cells and enzyme extracts. In *BIODEGRADATION*. ISSN 0923-9820, 2020, vol. 31, no. 4-6, pp. 423-433. Dostupné na: <https://doi.org/10.1007/s10532-020-09918-7>, Registrované v: WOS
6. [1.1] SANTILLAN, Julia Yamila - ROJAS, Natalia Lorena - GHIRINGHELLI, Pablo Daniel - NOBILE, Matias Leonardo - LEWKOWICZ, Elizabeth Sandra - IRIBARREN, Adolfo Marcelo. Organophosphorus compounds biodegradation by novel bacterial isolates and their potential application in bioremediation of contaminated water. In *BIORESOURCETECHNOLOGY*. ISSN 0960-8524, 2020, vol. 317, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.124003>, Registrované v: WOS
7. [1.1] SHEMSHEDINOVA, E. Sh. - ABDURAMANNOVA, E. R. - MOROZKINA, E. V. - KATSEV, A. M. Luminescent whole-cell biosensors in detection of environmental contaminants (review). In *THEORETICAL AND APPLIED ECOLOGY*. ISSN 1995-4301, 2020, vol., no. 2, pp. 6-13. Dostupné na: <https://doi.org/10.25750/1995-4301-2020-2-006-013>, Registrované v: WOS
8. [1.1] STOJKOVIC, Gorazd - ZNIDARSIC-PLAZL, Polona. Covalent Immobilization of Microbial Cells on Microchannel Surfaces. In *IMMOBILIZATION OF ENZYMES AND CELLS: METHODS AND PROTOCOLS, 4TH EDITION*. ISSN 1064-3745, 2020, vol. 2100, no., pp. 417-426. Dostupné na: https://doi.org/10.1007/978-1-0716-0215-7_28, Registrované v: WOS
9. [1.1] WILTSCHI, Birgit - CERNAVA, Tomislav - DENNIG, Alexander - CASAS, Meritxell Galindo - GEIER, Martina - GRUBER, Steffen - HABERBAUER, Marianne - HEIDINGER, Petra - ACERO, Enrique Herrero - KRATZER, Regina - LULEY-GOEDL, Christiane - MUELLER, Christina A. - PITZER, Julia - RIBITSCH, Doris - SAUER, Michael - SCHMOELZER, Katharina - SCHNITZHOFFER, Wolfgang - SENSEN, Christoph W. - SOH, Jung -

STEINER, Kerstin - WINKLER, Christoph K. - WINKLER, Margit - WRIESSNEGGER, Tamara. Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 40, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107520>., Registrované v: WOS

- ADCA492 PRISENŽŇÁKOVÁ, Lubica - NOSÁĽOVÁ, Gabriela - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. The pharmacological activity of wheat bran polysaccharides. In *Fitoterapia*, 2010, vol. 81, p. 1037-1044. Dostupné na: <https://doi.org/10.1016/j.fitote.2010.06.027>

Citácie:

1. [1.1] *ATTIA, Y. A. - AL-KHALAIFAH, H. - ABD EL-HAMID, H. S. - AL-HARTHI, M. A. - EL-SHAFFEY, A. A. Growth performance, digestibility, intestinal morphology, Carcass traits and meat quality of broilers fed marginal nutrients deficiency-diet supplemented with different levels of active Yeast. In LIVESTOCK SCIENCE. ISSN 1871-1413, 2020, vol. 233, no., pp. Dostupné na: <https://doi.org/10.1016/j.livsci.2020.103945>., Registrované v: WOS*
2. [1.1] *CAO, Rong-An - JI, RuiXue - TABARSA, Mehdi - PALANISAMY, Subramanian - TALAPPHET, Natchanok - YELITHAO, Khamphone - WANG, ChangYuan - YOU, SangGuan. Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides from wheat bran. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfbc.13364>., Registrované v: WOS*
3. [1.1] *WANG, Rui-Fang - AN, Xiao-Ping - WANG, Yuan - QI, Jing-Wei - ZHANG, Jun - LIU, Yu-Hui - WENG, Mei-Qi - YANG, Yan-Ping - GAO, Ai-Qin. Effects of polysaccharide from fermented wheat bran on growth performance, muscle composition, digestive enzyme activities and intestinal microbiota in juvenile common carp. In AQUACULTURE NUTRITION. ISSN 1353-5773, 2020, vol. 26, no. 4, pp. 1096-1107. Dostupné na: <https://doi.org/10.1111/anu.13067>., Registrované v: WOS*

- ADCA493 PROKSA, Bohumil - UHRÍN, Dušan - GROSSMANN, E. - VOTICKÝ, Zdeno. Vincarubine, a novel bisindole alkaloid from *Vinca minor* L. In *Tetrahedron Letters*, 1986, vol. 27, p. 5413-5416. ISSN 0040-4039.

Citácie:

1. [1.1] *DI PIETRO, Paola. BIOLOGICAL CHIRALITY Foreword (President of the Academy). In BIOLOGICAL CHIRALITY, 2020, vol., no., pp. VII-+., Registrované v: WOS*

- ADCA494 PROKSA, Bohumil - UHRÍN, Dušan - GROSSMANN, E. - VOTICKÝ, Zdeno - FUSKA, J. Relative configuration and cytotoxic activity of vincarubine, a novel bisindole alkaloid from *Vinca minor* L. In *Planta Medica : an international journal of natural products and medicinal plant research*, 1988, vol. 54, p. 214-218. ISSN 0032-0943.

Citácie:

1. [1.1] *DI PIETRO, Paola. BIOLOGICAL CHIRALITY Foreword (President of the Academy). In BIOLOGICAL CHIRALITY, 2020, vol., no., pp. VII-+., Registrované v: WOS*
2. [1.1] *STANDER, Emily Amor - SEPULVEDA, Liuda Johana - DUGE DE BERNONVILLE, Thomas - CARQUEIJEIRO, Ines - KOUDOUNAS, Konstantinos - LEMOS CRUZ, Pamela - BESSEAU, Sebastien - LANOUE, Arnaud - PAPON, Nicolas - GIGLIOLI-GUIVARC', H, Nathalie - DIRKS, Ron - O', CONNOR, Sarah Ellen - ATEHORTUA, Lucia - OUDIN, Audrey - COURDAVAULT, Vincent. Identifying Genes Involved in Alkaloid Biosynthesis in *Vinca minor* through*

Transcriptomics and Gene Co-Expression Analysis. In BIOMOLECULES, 2020, vol. 10, no. 12, pp. Dostupné na: <https://doi.org/10.3390/biom10121595>, Registrované v: WOS

- ADCA495 PRUSSE, U. - BILANCETTI, L. - BUČKO, Marek - BUGARSKI, B. - BUKOWSKI, J. - GEMEINER, Peter - LEWINSKA, D. - MANOJLOVIC, V. - MASSART, B. - NASTRUZZI, C. - NEDOVIC, V. - PONCELET, D. - SIEBENHAAR, S. - TOBLER, L. - TOSI, A. - VIKARTOVSKÁ, Alica - VORLOP, K.D. Comparison of different technologies for alginate beads production. In Chemical papers, 2008, vol. 62, p. 364-374. (2007: 0.367 - IF, Q4 - JCR, 0.176 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-008-0035-x>

Citácie:

1. [1.1] AURIEMMA, Giulia - RUSSO, Paola - DEL GAUDIO, Pasquale - GARCIA-GONZALEZ, Carlos A. - LANDIN, Mariana - AQUINO, Rita Patrizia. Technologies and Formulation Design of Polysaccharide-Based Hydrogels for Drug Delivery. In MOLECULES, 2020, vol. 25, no. 14, pp. Dostupné na: <https://doi.org/10.3390/molecules25143156>, Registrované v: WOS
2. [1.1] DARADMARE, Sneha - CHOI, Kyu Hwan - KIM, Jinsoo - PARK, Bum Jun. Preparation of eco-friendly alginate-based Pickering stabilizers using a dual ultrasonic nebulizer spray method. In JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY. ISSN 1226-086X, 2020, vol. 84, no., pp. 96-105. Dostupné na: <https://doi.org/10.1016/j.jiec.2019.12.025>, Registrované v: WOS
3. [1.1] HSU, Bryan B. - PLANT, Isaac N. - LYON, Lorena - ANASTASSACOS, Frances M. - WAY, Jeffrey C. - SILVER, Pamela A. In situ reprogramming of gut bacteria by oral delivery. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18614-2>, Registrované v: WOS
4. [1.1] KAMALDEEN, O. S. - ARIAHU, C. C. - YUSUFU, M. Application of soy protein isolate and cassava starch based film solutions as matrix for ionic encapsulation of carrot powders. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2020, vol. 57, no. 11, pp. 4171-4181. Dostupné na: <https://doi.org/10.1007/s13197-020-04455-w>, Registrované v: WOS
5. [1.1] LAPORTE, Camille - TUBBS, Emily - PIERRON, Maxime - GALLEG0, Amanda - MOISAN, Anaick - LAMARCHE, Frederic - LOZANO, Tamara - HERNANDEZ, Andrea - COTTET-ROUSSELLE, Cecile - GAUCHEZ, Anne-Sophie - PERSOONS, Virginie - BOTTAUSCI, Frederic - FONTELAYE, Caroline - BOIZOT, Francois - LABLANCHE, Sandrine - RIVERA, Florence. Improved human islets'; viability and functionality with mesenchymal stem cells and arg-gly-asp tripeptides supplementation of alginate micro-encapsulated islets in vitro. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2020, vol. 528, no. 4, pp. 650-657. Dostupné na: <https://doi.org/10.1016/j.bbrc.2020.05.107>, Registrované v: WOS
6. [1.1] SOTOMAYOR-GERDING, Daniela - MIGUEL TRONCOSO, Jose - PINO, Alejandro - ALMENDRAS, Felipe - RUBILAR DIAZ, Monica. Assessing the Immune Response of Atlantic Salmon (*Salmo salar*) after the Oral Intake of Alginate-Encapsulated *Piscirickettsia salmonis* Antigens. In VACCINES, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/vaccines8030450>, Registrované v: WOS
7. [1.1] STROBEL, Scott A. - KNOWLES, Lucille - NITIN, Nitin - SCHER, Herbert B. - JEOH, Tina. Comparative technoeconomic process analysis of industrial-scale microencapsulation of bioactives in cross-linked alginate. In

JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2020, vol. 266, no., pp. Dostupné na: <https://doi.org/10.1016/j.jfoodeng.2019.109695>., Registrované v: WOS

- ADCA496 PUCHART, Vladimír - BIELY, Peter. Simultaneous production of endo-beta-1,4-xylanase and branched xylooligosaccharides by *Thermomyces lanuginosus*. In *Journal of Biotechnology*, 2008, vol. 137, p. 34-43. (2007: 2.565 - IF, Q2 - JCR, 1.133 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2008.07.1789>
Citácie:
1. [1.1] CORNETTI, Aline A. A. - FERRAZ, Andre - MILAGRES, Adriane M. F. *Enzyme-aided xylan extraction from alkaline-sulfite pretreated sugarcane bagasse and its incorporation onto eucalyptus kraft pulps. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108003>., Registrované v: WOS*
- ADCA497 PUCHART, Vladimír - VRŠANSKÁ, Mária - SVOBODA, P. - POHL, J. - OGEL, Z.B. - BIELY, Peter. Purification and characterization of two forms of endo-beta-1,4-mannanase from a thermotolerant fungus, *Aspergillus fumigatus* IMI 385708 (formerly *Thermomyces lanuginosus* IMI 158749). In *Biochimica et Biophysica Acta : general subjects*, 2004, vol. 1647, p. 239-250. (2003: 2.557 - IF, karentované - CCC). (2004 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2004.06.022>
Citácie:
1. [1.1] KARAHALIL, Ercan - GERMEC, Mustafa - KARAOGLAN, Mert - YATMAZ, Ercan - COBAN, Hasan Bugra - INAN, Mehmet - TURHAN, Irfan. *Partial purification and characterization of a recombinant beta-mannanase from Aspergillus fumigatus expressed in Aspergillus sojae grown on carob extract. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2020, vol. 10, no. 4, pp. 1189-1205. Dostupné na: <https://doi.org/10.1007/s13399-019-00487-1>., Registrované v: WOS*
2. [1.1] SYARIFAH, Ab Rashid - DARAH, Ibrahim - IBRAHIM, Che Omar - RAMLI, Hassan - TONG, Woei Yenn. *Purification and physicochemical characterisation of Aspergillus niger USM F4 beta-mannanase. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2020, vol. 16, no. 5, pp. 396-406. Dostupné na: <https://doi.org/10.21161/mjm.200719>., Registrované v: WOS*
- ADCA498 PUCHART, Vladimír - VRŠANSKÁ, Mária - MASTIHUBOVÁ, Mária - TOPAKAS, E. - VAFIADI, C. - FAULDS, C.B. - TENKANEN, M. - CHRISTAKOPOULOS, P. - BIELY, Peter. Substrate and positional specificity of feruloyl esterases for monoacetylated 4-nitro-phenyl glycosides. In *Journal of Biotechnology*, 2007, vol. 127, p. 235-243. (2006: 2.600 - IF, Q2 - JCR, 1.109 - SJR, Q1 - SJR). ISSN 0168-1656.
Citácie:
1. [1.1] LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. - DILOKPIMOL, Adiphol. *Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694>., Registrované v: WOS*
- ADCA499 PUCHART, Vladimír - MørKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan 3-O-acetylated on uronic acid-substituted xylopyranosyl residues and its hydrolysis by GH10, GH11 and GH30 endoxylanases. In *Carbohydrate Polymers*, 2019, vol. 205, p. 217-224. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 -

SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2018.10.043>

Citácie:

1. [1.1] LIU, Xueqiang - YANG, Shaoqing - MA, Junwen - YU, Jing - YAN, Qiaojuan - JIANG, Zhengqiang. Efficient production of acetylated xylooligosaccharides from Hawthorn kernels by a xylanase from *Paecilomyces aeruginus*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2020, vol. 158, no., pp. Dostupné na: <https://doi.org/10.1016/j.indcrop.2020.112962>., Registrované v: WOS

2. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS

ADCA500 PUCHART, Vladimír - BIELY, Peter. Glycosylation of internal sugar residues of ologosaccharides catalyzed by alfa-galactosidase from *Aspergillus fumigatus*. In *Biochimica et Biophysica Acta : general subjects*, 2005, vol. 1726, p. 206-216. (2004: 3.369 - IF, karentované - CCC). (2005 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2005.07.015>

Citácie:

1. [1.1] PANWAR, Deepesh - SHUBHASHINI, A. - CHAUDHARI, Sachin Rama - PRASHANTH, K. V. Harish - KAPOOR, Mukesh. GH36 alpha-galactosidase from *Lactobacillus plantarum* WCFS1 synthesizes Gal-alpha-1,6 linked prebiotic alpha-galactooligosaccharide by transglycosylation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 144, no., pp. 334-342. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.032>., Registrované v: WOS

ADCA501 PUCHART, Vladimír. Glycoside phosphorylases: Structure, catalytic properties and biotechnological potential. In *Biotechnology Advances*, 2015, vol. 33, p. 261-276. (2014: 9.015 - IF, Q1 - JCR, 2.941 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0734-9750. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2015.02.002>

Citácie:

1. [1.1] BEHABTU, Natnael - KRALJ, Slavko. Enzymatic Polymerization Routes to Synthetic-Natural Materials: A Review. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 27, pp. 9947-9954. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01664>., Registrované v: WOS

2. [1.1] FRANCEUS, Jorick - DESMET, Tom. Sucrose Phosphorylase and Related Enzymes in Glycoside Hydrolase Family 13: Discovery, Application and Engineering. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 7, pp. Dostupné na: <https://doi.org/10.3390/ijms21072526>., Registrované v: WOS

3. [1.1] KADOKAWA, Jun-ichi - CHIGITA, Hirotaka - YAMAMOTO, Kazuya. Chemoenzymatic synthesis of carboxylate-terminated maltooligosaccharides and their use for cross-linking of chitin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 159, no., pp. 510-516. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.082>., Registrované v: WOS

4. [1.1] KADOKAWA, Jun-ichi - NAKAMURA, Shota - YAMAMOTO, Kazuya.

- Thermostable alpha-Glucan Phosphorylase-Catalyzed Enzymatic Copolymerization to Produce Partially 2-Deoxygenated Amyloses. In PROCESSES, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pr8091070>., Registrované v: WOS*
5. [1.1] KADOKAWA, Jun-ichi. *Synthesis of Amylosic Supramolecular Materials by Glucan Phosphorylase-Catalyzed Enzymatic Polymerization According to the Vine-Twining Approach. In SYNLETT. ISSN 0936-5214, 2020, vol. 31, no. 7, pp. 648-656. Dostupné na: <https://doi.org/10.1055/s-0039-1690804>., Registrované v: WOS*
6. [1.1] KRUSCHITZ, Andreas - NIDETZKY, Bernd. *Downstream processing technologies in the biocatalytic production of oligosaccharides. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107568>., Registrované v: WOS*
7. [1.1] KRUSCHITZ, Andreas - NIDETZKY, Bernd. *Reactive extraction of fructose for efficient separation of sucrose-derived glucosides produced by enzymatic glycosylation. In GREEN CHEMISTRY. ISSN 1463-9262, 2020, vol. 22, no. 15, pp. 4985-4994. Dostupné na: <https://doi.org/10.1039/d0gc01408g>., Registrované v: WOS*
8. [1.1] NIETO-DOMINGUEZ, Manuel - FERNANDEZ DE TORO, Beatriz - DE EUGENIO, Laura I. - SANTANA, Andres G. - BEJARANO-MUNOZ, Lara - ARMSTRONG, Zach - ANTONIO MENDEZ-LITER, Juan - LUIS ASENSIO, Juan - PRIETO, Alicia - WITHERS, Stephen G. - JAVIER CANADA, Francisco - JESUS MARTINEZ, Maria. *Thioglycoligase derived from fungal GH3 beta-xylosidase is a multi-glycoligase with broad acceptor tolerance. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-18667-3>., Registrované v: WOS*
9. [1.1] TEZE, David - COINES, Joan - RAICH, Lluís - KALICHUK, Valentina - SOLLEUX, Claude - TELLIER, Charles - ANDRE-MIRAL, Corinne - SVENSSON, Birte - ROVIRA, Carme. *A Single Point Mutation Converts GH84 O-GlcNAc Hydrolases into Phosphorylases: Experimental and Theoretical Evidence. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2020, vol. 142, no. 5, pp. 2120-2124. Dostupné na: <https://doi.org/10.1021/jacs.9b09655>., Registrované v: WOS*
10. [1.1] ZHONG, Chao - NIDETZKY, Bernd. *Three-Enzyme Phosphorylase Cascade for Integrated Production of Short-Chain Cellodextrins. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2020, vol. 15, no. 3, pp. Dostupné na: <https://doi.org/10.1002/biot.201900349>., Registrované v: WOS*
11. [1.1] ZHONG, Chao - UKOWITZ, Christina - DOMIG, Konrad J. - NIDETZKY, Bernd. *Short-Chain Cello-oligosaccharides: Intensification and Scale-up of Their Enzymatic Production and Selective Growth Promotion among Probiotic Bacteria. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 32, pp. 8557-8567. Dostupné na: <https://doi.org/10.1021/acs.jafc.0c02660>., Registrované v: WOS*

ADCA502 PUCHART, Vladimír - FRAŇOVÁ, Lucia - MORKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter**. *Action of different types of endoxylanases on eucalyptusxylan in situ. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 1725-1736. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-017-8722-6>*

Citácie:

1. [1.1] ARNAUD, B. - DURAND, S. - FANUEL, M. - GUILLON, F. - MECHIN,

V - ROGNIAUX, H. Imaging Study by Mass Spectrometry of the Spatial Variation of Cellulose and Hemicellulose Structures in Corn Stalks. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 13, pp. 4042-4050. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b07579>., Registrované v: WOS

2. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.073>., Registrované v: WOS

ADCA503 PUCHART, Vladimír - VRŠANSKÁ, Mária - BHAT, M. - BIELY, Peter. Purification and characterization of alfa-galactosidase from a thermophilic fungus *Thermomyces lanuginosus*. In *Biochimica et Biophysica Acta*, 2000, vol. 1524, p. 27-37. ISSN 0006-3002. Dostupné na: [https://doi.org/10.1016/S0304-4165\(00\)00138-0](https://doi.org/10.1016/S0304-4165(00)00138-0)

Citácie:

*1. [1.1] WANG, Jian - YANG, Xu - YANG, Yongzhi - LIU, Yajing - PIAO, Xiangshu - CAO, Yunhe. Characterization of a protease-resistant alpha-galactosidase from *Aspergillus oryzae* YZ1 and its application in hydrolysis of raffinose family oligosaccharides from soymilk. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 158, no., pp. 708-720. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.256>., Registrované v: WOS*

ADCA504 PUCHART, Vladimír** - GJERMANSEN, Morten - MASTIHUBOVÁ, Mária - Mørkeberg Krogh, Kristian B.R. - BIELY, Peter. Positional specificity of *Flavobacterium johnsoniae* acetyl xylan esterase and acetyl group migration on xylan main chain. In *Carbohydrate Polymers*, 2020, vol. 232, art. no. 115783 [8] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115783>

Citácie:

1. [1.1] QASEEM, Mirza Faisal - WU, Ai-Min. Balanced Xylan Acetylation is the Key Regulator of Plant Growth and Development, and Cell Wall Structure and for Industrial Utilization. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 21, pp. Dostupné na: <https://doi.org/10.3390/ijms21217875>., Registrované v: WOS

ADCA505 RAAB, Michal - TVAROŠKA, Igor. The binding properties of the H5N1 influenza virus neuraminidase as inferred from molecular modeling. In *Journal of molecular modeling*, 2011, vol. 17, p. 1445-1456. (2010: 1.871 - IF, Q1 - JCR, 0.930 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1610-2940. Dostupné na: <https://doi.org/10.1007/s00894-010-0852-z>

Citácie:

1. [1.1] LIPNICANOVA, Sabina - CHMELOVA, Daniela - ONDREJOVIC, Miroslav - FRECER, Vladimir - MIERTUS, Stanislav. Diversity of sialidases found in the human body A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 857-868. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.123>., Registrované v: WOS
2. [1.1] MUCHTARIDI, Muchtaridi - SUGIJANTO, Milyadi - GAZZALI, Amirah

- Mohd - WAHAB, Habibah A. Anti-Neuraminidase Bioactives from Manggis Hutan (Garcinia celebica L.) Leaves: Partial Purification and Molecular Characterization. In MOLECULES, 2020, vol. 25, no. 4, pp. Dostupné na: <https://doi.org/10.3390/molecules25040821>., Registrované v: WOS*
- ADCA506 RANTA, Kaarina - NIEMINEN, Kalsä - EKHOLM, Filip S. - POLÁKOVÁ, Monika - ROSLUND, Mattias U. - SALORANTA, Tiina - LEINO, Reko - SAVOLAINEN, Johannes. Evaluation of immunostimulatory activities of synthetic mannose-containing structures mimicking the beta-(1-2)-linked cell wall mannans of candida albicans. In Clinical and Vaccine Immunology, 2012, vol. 19, p. 1889-1893. (2011: 2.546 - IF, Q2 - JCR, 1.135 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1556-6811. Dostupné na: <https://doi.org/10.1128/CVI.00298-12>
- Citácie:
- [1.1] SHAMOUT, Fadi - FISCHER, Lukas - SNYDER, Nicole L. - HARTMANN, Laura. Recovery, Purification, and Reusability of Building Blocks for Solid Phase Synthesis. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, 2020, vol. 41, no. 2, pp. Dostupné na: <https://doi.org/10.1002/marc.201900473>., Registrované v: WOS
 - [1.1] WU, Hao - CHEN, Ming - GUANG, Cuie - ZHANG, Wenli - MU, Wanmeng. Identification of a novel recombinant D-lyxose isomerase from Thermoprotei archaeon with high thermostable, weak-acid and nickel ion dependent properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 1267-1274. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.07.222>., Registrované v: WOS
- ADCA507 RAPP, G. - KLAUDINY, Jaroslav - HAGENDORFF, G. - LUCK, M.R. - SCHEIT, K.H. Complete sequence of the coding region of human elongation of factor-II (EF-2) by enzymatic amplification of CDNA from human ovarian granulosa cells. In Biological Chemistry Hoppe-Seyler, 1989, vol. 370, p. 1071-1075. ISSN 1431-6730. Dostupné na: <https://doi.org/10.1515/bchm3.1989.370.2.1071>
- Citácie:
- [1.1] SA, Maria J. Nabais - OLSON, Alexandra N. - YOON, Grace - NIMMO, Graeme A. M. - GOMEZ, Christopher M. - WILLEMSSEN, Michel A. - MILLAN, Francisca - SCHNEIDER, Alexandra - PFUNDT, Rolph - DE BROUWER, Arjan P. M. - DINMAN, Jonathan D. - DE VRIES, Bert B. A. De Novo variants in EEF2 cause a neurodevelopmental disorder with benign external hydrocephalus. In HUMAN MOLECULAR GENETICS. ISSN 0964-6906, 2020, vol. 29, no. 24, pp. 3892-3899. Dostupné na: <https://doi.org/10.1093/hmg/ddaa270>., Registrované v: WOS
- ADCA508 REBROŠ, Martin - LIPTÁK, Lukáš - ROSENBERG, Michal - BUČKO, Marek - GEMEINER, Peter. Biocatalysis with Escherichia coli overexpressing cyclopentanone monooxygenase immobilized in polyvinyl alcohol gel. In Letters in Applied Microbiology, 2014, vol. 58, p. 556-563. (2013: 1.749 - IF, Q3 - JCR, 0.791 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0266-8254. Dostupné na: <https://doi.org/10.1111/lam.12227>
- Citácie:
- [1.1] GUAJARDO, Nadia - AHUMADA, Katherine - DE MARIA, Pablo Dominguez. Immobilized lipase-CLEA aggregates encapsulated in lentikats (R) as robust biocatalysts for continuous processes in deep eutectic solvents. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2020, vol. 310, no., pp. 97-102. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.02.003>., Registrované v: WOS

2. [1.1] SILVA, Andre Leonardo Patricio - DA SILVA CARIDADE, Taiza Nayara - MAGALHAES, Renata Rodrigues - DE SOUSA, Kelly Teotonio - DE SOUSA, Christian Carlos - VALE, Juliana Alves. Biocatalytic production of *ε*-caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8887-8895. Dostupné na: <https://doi.org/10.1007/s00253-020-10875-7>, Registrované v: WOS
- ADCA509 REDJALA, Tanegmart - ZELKO, Ivan - STERCKEMAN, Thibault - LEGUÉ, Valérie - LUX, Alexander. Relationship between root structure and root cadmium uptake in maize. In *Environmental and Experimental Botany*, 2011, vol. 71, p. 241-248. (2010: 2.699 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0098-8472. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2010.12.010>
- Citácie:
1. [1.1] DA SILVA, Deivisson Ferreira - CIPRIANO, Patriciani Estela - DE SOUZA, Ray Rodrigues - SIUEIA JUNIOR, Matias - DA SILVA, Rodrigo Fonseca - FAQUIN, Valdemar - DE SOUZA SILVA, Maria Ligia - GUIMARAES GUILHERME, Luiz Roberto. Anatomical and physiological characteristics of *Raphanus sativus* L. submitted to different selenium sources and forms application. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2020, vol. 260, no., pp. Dostupné na: <https://doi.org/10.1016/j.scienta.2019.108839>, Registrované v: WOS
2. [1.1] ELDRIDGE, Bethany M. - MANZONI, Lillian R. - GRAHAM, Calum A. - RODGERS, Billy - FARMER, Jack R. - DODD, Antony N. Getting to the roots of aeroponic indoor farming. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2020, vol. 228, no. 4, pp. 1183-1192. Dostupné na: <https://doi.org/10.1111/nph.16780>, Registrované v: WOS
3. [1.1] ILIC, Zorana Hrkic - PAJEVIC, Slobodanka - BORISEV, Milan - LUKOVIC, Jadranka. Assessment of phytostabilization potential of two *Salix* L. clones based on the effects of heavy metals on the root anatomical traits. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2020, vol. 27, no. 23, pp. 29361-29383. Dostupné na: <https://doi.org/10.1007/s11356-020-09228-8>, Registrované v: WOS
4. [1.1] KOLBERT, Zsuzsanna - OLAH, Dora - MOLNAR, Arpad - SZOLLOSI, Reka - ERDEI, Laszlo - ORDOG, Attila. Distinct redox signalling and nickel tolerance in *Brassica juncea* and *Arabidopsis thaliana*. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2019.109989>, Registrované v: WOS
5. [1.1] LIU, Yuankun - LU, Min - TAO, Qi - LUO, Jipeng - LI, Jinxing - GUO, Xinyu - LIANG, Yongchao - YANG, Xiaoe - LI, Tingqiang. A comparative study of root cadmium radial transport in seedlings of two wheat (*Triticum aestivum* L.) genotypes differing in grain cadmium accumulation. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2020, vol. 266, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.115235>, Registrované v: WOS
6. [1.1] NAMYSLOV, Jiri - BAURIEDLOVA, Zuzana - JANOUSKOVA, Jana - SOUKUP, Ales - TYLOVA, Edita. Exodermis and Endodermis Respond to Nutrient Deficiency in Nutrient-Specific and Localized Manner. In *PLANTS-BASEL*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/plants9020201>, Registrované v: WOS
7. [1.1] PERUZZO, Luca - CHOU, Chunwei - WU, Yuxin - SCHMUTZ, Myriam - MARY, Benjamin - WAGNER, Florian M. - PETROV, Petr - NEWMAN, Gregory -

- BLANCAFLOR, Elison B. - LIU, Xiuwei - MA, Xuefeng - HUBBARD, Susan. Imaging of plant current pathways for non-invasive root Phenotyping using a newly developed electrical current source density approach. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 450, no. 1-2, pp. 567-584. Dostupné na: <https://doi.org/10.1007/s11104-020-04529-w>, Registrované v: WOS*
8. [1.1] *QI, Xiaoli - TAM, Nora Fung-yee - LI, Wai Chin - YE, Zhihong. The role of root apoplastic barriers in cadmium translocation and accumulation in cultivars of rice (Oryza sativa L.) with different Cd-accumulating characteristics. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2020, vol. 264, no., pp. Dostupné na: <https://doi.org/10.1016/j.envpol.2020.114736>, Registrované v: WOS*
9. [1.1] *TEFERA, Wolde - LIU, Ting - LU, Lingli - GE, Jun - WEBB, Samuel M. - SEIFU, Weldemariam - TIAN, Shengke. Micro-XRF mapping and quantitative assessment of Cd in rice (Oryza sativa L.) roots. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2020, vol. 193, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2020.110245>, Registrované v: WOS*
10. [1.1] *TIMMERER, Ulrike - LEHMANN, Lennart - SCHNUG, Ewald - BLOEM, Elke. Toxic Effects of Single Antibiotics and Antibiotics in Combination on Germination and Growth of Sinapis alba L. In PLANTS-BASEL, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.3390/plants9010107>, Registrované v: WOS*
11. [1.1] *WU, Yingjie - MA, Luyao - LIU, Qizhen - VESTERGARD, Mette - TOPALOVIC, Olivera - WANG, Qiong - ZHOU, Qiyao - HUANG, Lukuan - YANG, Xiaoe - FENG, Ying. The plant-growth promoting bacteria promote cadmium uptake by inducing a hormonal crosstalk and lateral root formation in a hyperaccumulator plant Sedum alfredii. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 395, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.122661>, Registrované v: WOS*
12. [1.1] *YANG, Jia-Shuo - DAI, Yanjiao - LIU, Yongjun - DUAN, Shuhui - LI, Yang-Yang - HU, Risheng - ZHOU, Zhicheng - SHI, Yi - LIU, Haiwei - WANG, Shusheng. Reduced cadmium accumulation in tobacco by sodium chloride priming. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 30, pp. 37410-37418. Dostupné na: <https://doi.org/10.1007/s11356-020-09134-z>, Registrované v: WOS*

- ADCA510 **RENDIČ, D. - KLAUDINY, Jaroslav - STEMMER, U. - SCHMIDT, J. - PASCHINGER, K. - WILSON, I.B.H.** Towards abolition of immunogenic structures in insect cells: Characterization of a honey-bee (*Apis mellifera*) multi-gene family reveals both an allergy-related core alfa 1,3-fucosyltransferase and the first insect Lewis-histo-blood-group-related antigen-sythesizing enzyme. In *Biochemical Journal*, 2007, vol. 402, p. 105-115. (2006: 4.100 - IF, Q2 - JCR, 2.853 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0264-6021. Dostupné na: <https://doi.org/10.1042/BJ20060964>

Citácie:

1. [1.1] *RODERER, Daniel - BROECKER, Felix - SITSEL, Oleg - KAPLONEK, Paulina - LEIDREITER, Franziska - SEEBERGER, Peter H. - RAUNSER, Stefan. Glycan-dependent cell adhesion mechanism of Tc toxins. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-16536-7>, Registrované v: WOS*
- ADCA511 **REVAJOVÁ, V. - LEVKUT, Mikuláš - LEVKUTOVÁ, M. - BOŘUTOVÁ, Radka - GREŠÁKOVÁ, Ľubomíra - KOŠÍKOVÁ, Božena - LENG, Ľubomír.** Effect of lignin supplementation of a diet contaminated with *Fusarium* mycotoxins on blood and intestinal lymphocyte subpopulations in chickens. In *Acta Veterinaria*

Hungarica, 2013, vol. 61, no. 3, p. 354-365. (2012: 1.173 - IF, Q2 - JCR, 0.422 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0236-6290. Dostupné na: <https://doi.org/10.1556/AVet.2013.023>

Citácie:

1. [1.1] KARMANOV, Anatoly P. - KANARSKY, Albert V. - KANARSKAYA, Zosya A. - KOICHEVA, Ludmila S. - SEMENOV, Eduard I. - BOGDANOVICH, Nikolai I. - BELYY, Vladimir A. *In vitro* adsorption-desorption of aflatoxin B1 on Pepper's lignins isolated from grassy plants. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 144, no., pp. 111-117. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.081>., Registrované v: WOS

2. [1.1] YANG, Xue - GAO, Yanan - YAN, Qiaoyan - BAO, Xiaoyu - ZHAO, Shengguo - WANG, Jiaqi - ZHENG, Nan. Transcriptome Analysis of Ochratoxin A-Induced Apoptosis in Differentiated Caco-2 Cells. In *TOXINS*, 2020, vol. 12, no. 1, pp., Registrované v: WOS

ADCA512 ROBAJAC, Dragana** - MASNIKOSA, Romana - NEMČOVIČ, Marek - KRIŽÁKOVÁ, Martina, Zámorová - BELICKÁ, Ľudmila, Kľuková - BARÁTH, Peter - KATRLÍK, Jaroslav - NEDIČ, Olgica. Glycoanalysis of the placental membrane glycoproteins throughout placental development. In *Mechanisms of Ageing and Development*, 2019, vol. 183, art. no. 111151. (2018: 3.603 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0047-6374. Dostupné na: <https://doi.org/10.1016/j.mad.2019.111151>

Citácie:

1. [1.1] CAMPUZANO, Marisol - BUENO-SANCHEZ, Julio - AGUDELO-JARAMILLO, Bernardo - QUINTANA-CASTILLO, Juan C. - CHAOUAT, Gerard C. - MALDONADO-ESTRADA, Juan G. Glycan expression in chorionic villi from histocultures of women with early-onset preeclampsia: Immunomodulatory effects on peripheral natural killer cells. In *JOURNAL OF REPRODUCTIVE IMMUNOLOGY*. ISSN 0165-0378, 2020, vol. 142, no., pp. Dostupné na: <https://doi.org/10.1016/j.jri.2020.103212>., Registrované v: WOS

2. [1.1] ZHOU, Xiaoman - YANG, Ganglong - GUAN, Feng. Biological Functions and Analytical Strategies of Sialic Acids in Tumor. In *CELLS*, 2020, vol. 9, no. 2, pp. Dostupné na: <https://doi.org/10.3390/cells9020273>., Registrované v: WOS

ADCA513 ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav - MIKOVIČ, Željko - NEDIČ, Olgica. Screening for the best detergent for the isolation of placental membrane proteins. In *International Journal of Biological Macromolecules*, 2017, vol. 102, p. 431-437. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2017.04.046>

Citácie:

1. [1.1] SILVA, Livia Lais de Santana - SANTOS, Nataly Diniz de Lima - SILVA, Stella Cristina Cabral - LIMA, Thamarah de Albuquerque - COELHO, Luana Cassandra Breitenbach Barroso - ZINGALI, Russolina Benedeta - NAVARRO, Daniela Maria do Amaral Ferraz - NAPOLEAO, Thiago Henrique - PAIVA, Patricia Maria Guedes. Investigation of the ability of the oviposition-stimulant lectin from *Moringa oleifera* seeds (WSMoL) to bind with membrane proteins present in the legs of *Aedes aegypti*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 657-662. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.189>., Registrované v: WOS

ADCA514 ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina, Zámorová - MASNIKOSA, Romana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - NEDIČ, Olgica - KATRLÍK, Jaroslav**.

Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. In *International Journal of Biological Macromolecules*, 2020, vol. 144, p. 932-937. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.09.170>

Citácie:

1. [1.1] DUAN, Xiaoying - CHENG, Yuanfang - SANG, Feng - LIU, Lina - LIU, Zhen - CUI, Lin - LI, Haixia. *Enhanced Targeting Function and Anti-colon Cancer Efficacy by Wheat Germ Agglutinin-modified Nanoparticles for Matrine Delivery*. In *INTERNATIONAL JOURNAL OF PHARMACOLOGY*. ISSN 1811-7775, 2020, vol. 16, no. 6, pp. 470-478. Dostupné na:

<https://doi.org/10.3923/ijp.2020.470.478>, Registrované v: WOS

ADCA515

ROESSL, Ulrich - NAHÁLKA, Jozef - NIDETZKY, Bernd. Carrier-free immobilized enzymes for biocatalysis. In *Biotechnology Letters*, 2010, vol.32, p. 341-350. (2009: 1.636 - IF, Q3 - JCR, 0.704 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0141-5492. Dostupné na:

<https://doi.org/10.1007/s10529-009-0173-4>

Citácie:

1. [1.1] FOPASE, Rushikesh - PARAMASIVAM, Santhosh - KALE, Paresh - PARAMASIVAN, Balasubramanian. *Strategies, challenges and opportunities of enzyme immobilization on porous silicon for biosensing applications*. In *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*, 2020, vol. 8, no. 5, pp. Dostupné na: <https://doi.org/10.1016/j.jece.2020.104266>, Registrované v: WOS

2. [1.1] GRAJALES-HERNANDEZ, Daniel A. - VELASCO-LOZANO, Susana - ARMENDARIZ-RUIZ, Mariana A. - RODRIGUEZ-GONZALEZ, Jorge A. - MARIA CAMACHO-RUIZ, Rosa - ASAFF-TORRES, Ali - LOPEZ-GALLEGO, Fernando - CARLOS MATEOS-DIAZ, Juan. *Carrier-bound and carrier-free immobilization of type A feruloyl esterase from Aspergillus niger: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2020, vol. 316, no., pp. 6-16. Dostupné na:

<https://doi.org/10.1016/j.jbiotec.2020.04.004>, Registrované v: WOS

3. [1.1] HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. *Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in Escherichia coli*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 8, pp. 563-571.

Dostupné na: <https://doi.org/10.1007/s10295-020-02294-4>, Registrované v: WOS

4. [1.1] JAMWAL, Shivani - RANOTE, Sunita - DAUTOO, Umesh - CHAUHAN, Ghanshyam S. *Improving activity and stabilization of urease by crosslinking to nanoaggregate forms for herbicide degradation*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 158, no., pp. 521-529. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.224>, Registrované v: WOS

5. [1.1] LIU, Lin - BAO, Yanli - WANG, Jingze - XIAO, Chunsheng - CHEN, Li. *Construction of carrier-free porphyrin-based drug self-framed delivery system to reverse multidrug resistance through photodynamic-chemotherapy* (vol 177, 107922, 2020). In *DYES AND PIGMENTS*. ISSN 0143-7208, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.dyepig.2020.108650>, Registrované v: WOS

6. [1.1] RAHMAN, Noor Hidayah Abd - JAAFAR, Nardiah Rizwana - MURAD,

Abdul Munir Abdul - BAKAR, Farah Diba Abu - ANNUAR, Nur Arbainah Shamsul - ILLIAS, Rosli Md. Novel cross-linked enzyme aggregates of levanase from Bacillus lehensis G1 for short-chain fructooligosaccharides synthesis: Developmental, physicochemical, kinetic and thermodynamic properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 159, no., pp. 577-589. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.04.262>, Registrované v: WOS

7. [1.1] SINGH, Anupam - UPADHYAY, Vaibhav - SINGH, Akansha - PANDA, Amulya K. Structure-Function Relationship of Inclusion Bodies of a Multimeric Protein. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00876>, Registrované v: WOS

8. [1.1] TU, Chunhao - ZHOU, Jin - PENG, Lei - MAN, Shuli - MA, Long. Self-assembled nano-aggregates of fluorinases demonstrate enhanced enzymatic activity, thermostability and reusability. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 2, pp. 648-656. Dostupné na:

<https://doi.org/10.1039/c9bm00402e>, Registrované v: WOS

ADCA516 ROSENGREN, Anna - REDDY, Sumitha K. - SVANTESSON SJÖBERG, Johan - AURELIUS, Oskar - LOGAN, Derek - KOLENOVÁ, Katarína - STÅLBRAND, Henrik. An Aspergillus nidulans β -mannanase with high transglycosylation capacity revealed through comparative studies within glycosidase family 5. In Applied Microbiology and Biotechnology, 2014, vol. 98, p. 10091-10104. (2013: 3.811 - IF, Q1 - JCR, 1.533 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-014-5871-8>

Citácie:

1. [1.1] BONNIN, Estelle - LESSIRE, Michel - WACRENIER, Nathaele - ALLEMAN, Fabien. Mannose-based polymers in livestock production : the glucomannan-degrading enzymes in swine and poultry feeds. In INRA PRODUCTIONS ANIMALES. ISSN 2273-774X, 2020, vol. 33, no. 4, pp. 295-305. Dostupné na: <https://doi.org/10.20870/productions-animales.2020.33.4.4634>, Registrované v: WOS

2. [1.1] HSU, Yunhan - ARIOKA, Manabu. In vitro and in vivo characterization of genes involved in mannan degradation in Neurospora crassa. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2020, vol. 144, no., pp. Dostupné na: <https://doi.org/10.1016/j.fgb.2020.103441>, Registrované v: WOS

3. [1.1] LIU, Zhemin - NING, Chen - YUAN, Mingxue - YANG, Suxiao - WEI, Xinyi - XIAO, Mengshi - FU, Xiaodan - ZHU, Changliang - MOU, Haijin. High-level expression of a thermophilic and acidophilic beta-mannanase from Aspergillus kawachii IFO 4308 with significant potential in mannoooligosaccharide preparation. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 295, no., pp. Dostupné na:

<https://doi.org/10.1016/j.biortech.2019.122257>, Registrované v: WOS

4. [1.1] NIU, Kangle - LIU, Zhengyao - FENG, Yuhui - GAO, Tianlong - WANG, Zhenzhen - ZHANG, Piaopiao - DU, Zhiqiang - GAO, Daming - FANG, Xu. A novel strategy for efficient disaccharides synthesis from glucose by beta-glucosidase. In BIORESOURCES AND BIOPROCESSING, 2020, vol. 7, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s40643-020-00334-6>, Registrované v: WOS

5. [1.1] UECHI, Keiko - WATANABE, Masahiro - FUJII, Tatsuya - KAMACHI, Saori - INOUE, Hiroyuki. Identification and Biochemical Characterization of Major beta-Mannanase in Talaromyces cellulolyticus Mannanolytic System. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2020,

- vol. 192, no. 2, pp. 616-631. Dostupné na: <https://doi.org/10.1007/s12010-020-03350-6>, Registrované v: WOS
6. [1.1] YATMAZ, Ercan - GERMEC, Mustafa - KARAHALIL, Ercan - TURHAN, Irfan. Enhancing beta-mannanase production by controlling fungal morphology in the bioreactor with microparticle addition. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2020, vol. 121, no., pp. 123-130. Dostupné na: <https://doi.org/10.1016/j.fbp.2020.02.003>, Registrované v: WOS
- ADCA517 RUDD, T.R. - SKIDMORE, M.A. - GUERRINI, M. - HRICOVÍNI, Miloš - POWELL, A.K. - SILIGARDI, G. - YATES, E.A. The conformation and structure of GAGs: recent progress and perspectives. In *Current Opinion in Structural Biology*, 2010, vol. 20, p. 567-574. (2009: 9.344 - IF, 8.374 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0959-440X. Dostupné na: <https://doi.org/10.1016/j.sbi.2010.08.004>
- Citácie:
1. [1.1] DIEZ-ESCUADERO, Anna - ESPANOL, Montserrat - GINEBRA, Maria-Pau. Synthetic bone graft substitutes: Calcium-based biomaterials. In *DENTAL IMPLANTS AND BONE GRAFTS: MATERIALS AND BIOLOGICAL ISSUES*. ISSN 2049-9485, 2020, vol., no., pp. 125-157., Registrované v: WOS
- ADCA518 RUMBOLD, K. - BIELY, Peter - MASTIHUBOVÁ, Mária - GUDELJ, M. - GUBITZ, G. - ROBBA, K.-H. - PRIOR, B.A. Purification and properties of a feruloyl esterase involved in lignocellulose degradation by *Aureobasidium pullulans*. In *Applied and Environmental Microbiology*, 2003, vol. 69, p. 5622-5626. (2002: 3.691 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.69.9.5622-5626.2003>
- Citácie:
1. [1.1] FU, Zhilei - FAN, Guangsen - ZHU, Yuting - TENG, Chao - LI, Hehe - LIU, Qian - YANG, Ran - LI, Xiuting. Soluble expression of a novel feruloyl esterase from *Burkholderia pyrrocinia* B1213 in *Escherichia coli* and optimization of production conditions. In *BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT*. ISSN 1310-2818, 2020, vol. 34, no. 1, pp. 732-746. Dostupné na: <https://doi.org/10.1080/13102818.2020.1803129>, Registrované v: WOS
2. [1.1] HAMED, Abdelaaty - FRESE, Marcel - ELGAAFARY, Menna - SYROVETS, Tatiana - SEWALD, Norbert - SIMMET, Thomas - SHAABAN, Mohamed. Synthesis of novel feruloyl dipeptides with proapoptotic potential against different cancer cell lines. In *BIOORGANIC CHEMISTRY*. ISSN 0045-2068, 2020, vol. 97, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioorg.2020.103678>, Registrované v: WOS
- ADCA519 RYABOVÁ, Olena - VRŠANSKÁ, Mária - KANEKO, S. - VAN ZYL, W.H. - BIELY, Peter. A novel family of hemicellulolytic α -glucuronidase. In *FEBS Letters*, 2009, vol. 583, p. 1457-1462. (2008: 3.264 - IF, Q2 - JCR, 2.193 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2009.03.057>
- Citácie:
1. [1.1] VUONG, Thu V. - MASTER, Emma R. Enzymatic production of 4-O-methyl d-glucaric acid from hardwood xylan. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01691-2>, Registrované v: WOS
- ADCA520 SAHA, Sudipta - NOSÁĽOVÁ, Gabriela - GHOST, Debjani - FLEŠKOVÁ, Dana - CAPEK, Peter - RAY, Bimalendu. Structural features and in vivo antitussive activity of the water extracted polymer from *Glycyrrhiza glabra*. In *International Journal of Biological Macromolecules*, 2011, vol. 48, p. 634-638. (2010: 2.502 - IF, Q3 - JCR, 0.873 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2011.02.003>

Citácie:

1. [1.1] *GHAEMI, Hajar - MASOOMPOUR, Seyed Masoom - AFSHARYPUOR, Suleiman - MOSAFFA-JAHROMI, Maryam - PASALAR, Mehdi - AHMADI, Fatemeh - NIKNAHAD, Hossein. The effectiveness of a traditional Persian medicine preparation in the treatment of chronic cough: A randomized, double-blinded, placebo-controlled clinical trial. In COMPLEMENTARY THERAPIES IN MEDICINE. ISSN 0965-2299, 2020, vol. 49, no., pp. Dostupné na: <https://doi.org/10.1016/j.ctim.2020.102324>., Registrované v: WOS*
2. [1.1] *LUO, Chuan-hong - MA, Le-le - LIU, Hui-min - LIAO, Wei - XU, Run-chun - CI, Zhi-min - LIN, Jun-zhi - HAN, Li - ZHANG, Ding-kun. Research Progress on Main Symptoms of Novel Coronavirus Pneumonia Improved by Traditional Chinese Medicine. In FRONTIERS IN PHARMACOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.556885>., Registrované v: WOS*
3. [1.1] *MA, Xiaoyun - LIANG, Zhiyuan - GAN, Xiuhai - WEI, Gang - ZHOU, Qingdi. Synthesis and antitussive activity of obtucarbamate A derivatives. In SYNTHETIC COMMUNICATIONS. ISSN 0039-7911, 2020, vol. 50, no. 13, pp. 2026-2032. Dostupné na: <https://doi.org/10.1080/00397911.2020.1762093>., Registrované v: WOS*
4. [1.1] *WANG, Chengcheng - CHEN, Lihong - XU, Chaoqie - SHI, Jingjing - CHEN, Shuyu - TAN, Mengxia - CHEN, Jiali - ZOU, Lisi - CHEN, Cuihua - LIU, Zixiu - LIU, Xunhong. A Comprehensive Review for Phytochemical, Pharmacological, and Biosynthesis Studies on Glycyrrhiza spp. In AMERICAN JOURNAL OF CHINESE MEDICINE. ISSN 0192-415X, 2020, vol. 48, no. 1, pp. 17-45. Dostupné na: <https://doi.org/10.1142/S0192415X20500020>., Registrované v: WOS*
5. [1.1] *WEI, Wan - GAO, Xiuping - ZHAO, Lei - ZHUANG, Jianguo - JIAO, Yang - XU, Fadi. Liquiritin apioside attenuates laryngeal chemoreflex but not mechanoreflex in rat pups. In AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. ISSN 1040-0605, 2020, vol. 318, no. 1, pp. L89-L97. Dostupné na: <https://doi.org/10.1152/ajplung.00306.2019>., Registrované v: WOS*

- ADCA521 SAVIN, Corina L. - PEPTU, Cristian** - KRONEKOVÁ, Zuzana - SEDLAČÍK, Milan - MRLÍK, Miroslav - SASINKOVÁ, Vlasta - PEPTU, Catalina - POPA, Marcel - MOSNÁČEK, Jaroslav**. Polyglobalide-based porous networks containing poly(ethylene glycol) structures prepared by photoinitiated thiol-ene coupling. In Biomacromolecules, 2018, vol. 19, p. 3331-3342. (2017: 5.738 - IF, Q1 - JCR, 1.950 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/acs.biomac.8b00634>

Citácie:

1. [1.1] *POLLONI, A.E. - CHIARADIA, V. - DO AMARAL, R.J.F.C. - KEARNEY, C. - GOREY, B. - DE OLIVEIRA, D. - DE OLIVEIRA, J.V. - DE ARAUJO, P.H. - SAYER, C. - HEISE, A. Polyesters with main and side chain phosphoesters as structural motives for biocompatible electrospun fibres. In POLYMER CHEMISTRY. ISSN 1759-9954, MAR 28 2020, vol. 11, no. 12, p. 2157-2165., Registrované v: WOS*
2. [1.1] *ROWLEY, J.V. - WALL, P. - YU, H.Y. - TRONCI, G. - DEVINE, D.A. - VERNON, J.J. - THORNTON, P.D. Antimicrobial Dye-Conjugated Polyglobalide-Based Organogels. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, JUL 10 2020, vol. 2, no. 7, p. 2927-2933., Registrované v: WOS*

- ADCA522 SHAO, J. - ZHANG, J. - NAHÁLKA, Jozef - WANG, P.G. Biocatalytic synthesis of uridine 5'-diphosphate N-acetylglucosamine by multiple enzymes co-immobilized on

agarose beads. In *Chemical Communication*, 2002, vol. 2002, p. 2586-2587. ISSN 1359-7345. Dostupné na: <https://doi.org/10.1039/b207480j>

Citácie:

1. [1.1] XU, Kongliang - CHEN, Xuexiao - ZHENG, Renchao - ZHENG, Yuguo. *Immobilization of Multi-Enzymes on Support Materials for Efficient Biocatalysis. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na:*

<https://doi.org/10.3389/fbioe.2020.00660>, Registrované v: WOS

ADCA523 SHIPP, M. - NADELLA, R. - GAO, H. - FARKAŠ, Vladimír - SIGRIST, H. - FAIK, A. Glyco-array technology for efficient monitoring of plant cell wall glycosyltransferase activities. In *Glycoconjugate journal*, 2008, vol. 25, p. 49-58. (2007: 1.602 - IF, Q3 - JCR, 0.979 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0282-0080. Dostupné na: <https://doi.org/10.1007/s10719-007-9060-1>

Citácie:

1. [1.1] PALMA, Angelina S. - CHAI, Wengang. *Glycan Microarrays with Semi-synthetic Neoglycoconjugate Probes in Understanding Glycobiology. In SYNTHETIC GLYCOMES. ISSN 2055-1975, 2019, vol. 11, no., pp. 421-446., Registrované v: WOS*

2. [1.1] SHI, Liqiao - WU, Zhaoyuan - ZHANG, Yani - ZHANG, Zhigang - FANG, Wei - WANG, Yueying - WAN, Zhongyi - WANG, Kaimei - KE, Shaoyong. *Herbicidal Secondary Metabolites from Actinomycetes: Structure Diversity, Modes of Action, and Their Roles in the Development of Herbicides. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2020, vol. 68, no. 1, pp. 17-32. Dostupné na: <https://doi.org/10.1021/acs.jafc.9b06126>, Registrované v: WOS*

3. [1.1] SHIVATARE, Sachin S. - WONG, Chi-Huey. *Synthetic Carbohydrate Chemistry and Translational Medicine. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 24, pp. 15780-15800. Dostupné na: <https://doi.org/10.1021/acs.joc.0c01834>, Registrované v: WOS*

ADCA524 SHIRKOV, Leonid - SLÁDEK, Vladimír. Benchmark CCSD-SAPT study of rare gas dimers with comparison to MP-SAPT and DFT-SAPT. In *Journal of Chemical Physics*, 2017, vol. 147, art. no. 174103. (2016: 2.965 - IF, Q2 - JCR, 1.486 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS). ISSN 0021-9606. Dostupné na: <https://doi.org/10.1063/1.4997569>

Citácie:

1. [1.1] PATKOWSKI, Konrad. *Recent developments in symmetry-adapted perturbation theory. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.1002/wcms.1452>, Registrované v: WOS*

ADCA525 SHLEEV, S. - TKÁČ, Ján - CHRISTENSON, A. - BUZGAS, T. - YAROPOLOV, A.I. - WHITTAKER, J.W. - GORTON, L. Direct electron transfer between copper-containing proteins and electrodes. In *Biosensors and Bioelectronics*, 2005, vol. 20, p. 2517-2554. Dostupné na: <https://doi.org/10.1016/j.bios.2004.10.003>

Citácie:

1. [1.1] ABDULHALIM, Aya S. - ASAL, Yasser M. - MOHAMMAD, Ahmad M. - AL-AKRAA, Islam M. *Ni-Au Anodic Nano-Electrocatalyst for Direct Glucose Fuel Cells. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 4, pp. 3274-3282. Dostupné na:*

<https://doi.org/10.20964/2020.04.01>, Registrované v: WOS

2. [1.1] ABUZAIED, Mahmoud M. - ASAL, Yasser M. - MOHAMMAD, Ahmad M. - AL-AKRAA, Islam M. *Enhanced Glucose Electrooxidation at Ni-Cu Binary*

- Oxide Nanocatalyst. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 3, pp. 2449-2457. Dostupné na: <https://doi.org/10.20964/2020.03.57.>, Registrované v: WOS*
3. [1.1] ARSHI, Simin - NOZARI-ASBEMARZ, Mehran - MAGNER, Edmond. *Enzymatic Bioreactors: An Electrochemical Perspective. In CATALYSTS, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/catal10111232.>, Registrované v: WOS*
4. [1.1] BOLLELLA, Paolo. *Porous Gold: A New Frontier for Enzyme-Based Electrodes. In NANOMATERIALS, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/nano10040722.>, Registrované v: WOS*
5. [1.1] CHEN, Hui - SIMOSKA, Olja - LIM, Koun - GRATTIERI, Matteo - YUAN, Mengwei - DONG, Fangyuan - LEE, Yoo Seok - BEAVER, Kevin - WELIWATTE, Samali - GAFFNEY, Erin M. - MINTEER, Shelley D. *Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 23, pp. 12903-12993. Dostupné na: <https://doi.org/10.1021/acs.chemrev.0c00472.>, Registrované v: WOS*
6. [1.1] CHU, Xueqing - ZHANG, Mi - HUO, Wenshan - ZENG, Han - YAN, Yang. *2-hydroxy-4-amino-azobenzene modified Graphene Oxide with Incorporation of Bilirubin Oxidase for Photoelectrochemical Catalysis of Oxygen Reduction Reaction. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2020, vol. 15, no. 11, pp. 11531-11554. Dostupné na: <https://doi.org/10.20964/2020.11.46.>, Registrované v: WOS*
7. [1.1] COSTA DE OLIVEIRA, Maida Aysla - D'EPÍFANIO, Alessandra - OHNUKI, Hitoshi - MECHEIRI, Barbara. *Platinum Group Metal-Free Catalysts for Oxygen Reduction Reaction: Applications in Microbial Fuel Cells. In CATALYSTS, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/catal10050475.>, Registrované v: WOS*
8. [1.1] DU, Yiwen - MA, Hua - HUANG, Liping - PAN, Yu - HUANG, Juan - LIU, Yan. *Electrochemical characteristics of the decolorization of three dyes by laccase mediator system (LMS) with synthetic and natural mediators. In CHEMOSPHERE. ISSN 0045-6535, 2020, vol. 239, no., pp. Dostupné na: <https://doi.org/10.1016/j.chemosphere.2019.124779.>, Registrované v: WOS*
9. [1.1] GENTIL, Solene - ROUSSELOT-PAILLEY, Pierre - SANCHO, Ferran - ROBERT, Viviane - MEKMOUCHE, Yasmina - GUALLAR, Victor - TRON, Thierry - LE GOFF, Alan. *Efficiency of Site-Specific Clicked Laccase-Carbon Nanotubes Biocathodes towards O₂ Reduction. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2020, vol. 26, no. 21, pp. 4798-4804. Dostupné na: <https://doi.org/10.1002/chem.201905234.>, Registrované v: WOS*
10. [1.1] JANA, Narayan Ch. - BRANDAO, Paula - FRONTERA, Antonio - PANJA, Anangamohan. *A facile biomimetic catalytic activity through hydrogen atom abstraction by the secondary coordination sphere in manganese(III) complexes. In DALTON TRANSACTIONS. ISSN 1477-9226, 2020, vol. 49, no. 40, pp. 14216-14230. Dostupné na: <https://doi.org/10.1039/d0dt02431g.>, Registrované v: WOS*
11. [1.1] RAJHANS, Geetanjali - SEN, Sudip Kumar - BARIK, Adyasa - RAUT, Sangeeta. *LIGNINOLYTIC ENZYME SYSTEM OF WHITE-ROT FUNGI: A NATURAL APPROACH TO BIOREMEDIATION AND DETOXIFICATION OF AZO DYES IN TEXTILE WASTEWATER. In ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. ISSN 1582-9596, 2020, vol. 19, no. 11, pp. 1983-2002., Registrované v: WOS*
12. [1.1] RAMASAUSKAS, Lukas - MESKYS, Rolandas - RATAUTAS, Dalius.

Real-time glucose monitoring system containing enzymatic sensor and enzymatic reference electrodes. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 164, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112338>., Registrované v: WOS

13. [1.1] RAYMUNDO-PEREIRA, Paulo A. - SILVA, Tiago A. - CAETANO, Fabio R. - RIBOVSKI, Lais - ZAPP, Eduardo - BRONDANI, Daniela - BERGAMINI, Marcio F. - MARCOLINO, Luiz H. - BANKS, Craig E. - OLIVEIRA, Osvaldo N. - JANEGITZ, Bruno C. - FATIBELLO-FILHO, Orlando. Polyphenol oxidase-based electrochemical biosensors: A review. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2020, vol. 1139, no., pp. 198-221. Dostupné na: <https://doi.org/10.1016/j.aca.2020.07.055>., Registrované v: WOS

14. [1.1] TAKEDA, Kouta - KUSUOKA, Ryo - BIRRELL, James A. - YOSHIDA, Makoto - IGARASHI, Kiyohiko - NAKAMURA, Nobuhumi. Bioelectrocatalysis based on direct electron transfer of fungal pyrroloquinoline quinone-dependent dehydrogenase lacking the cytochrome domain. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2020, vol. 359, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.136982>., Registrované v: WOS

15. [1.1] WALTHER, Brandon K. - DINU, Cerasela Zoica - GULDI, Dirk M. - SERGEYEV, Vladimir G. - CREAGER, Stephen E. - COOKE, John P. - GUISEPPI-ELIE, Anthony. Nanobiosensing with graphene and carbon quantum dots: Recent advances. In MATERIALS TODAY. ISSN 1369-7021, 2020, vol. 39, no., pp. 23-46. Dostupné na: <https://doi.org/10.1016/j.mattod.2020.04.008>., Registrované v: WOS

16. [1.1] WAN, Jing - MI, Li - TIAN, Zhaoyan - LI, Quan - LIU, Songqin. A single-liquid miniature biofuel cell with boosting power density via gas diffusion bioelectrodes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2020, vol. 8, no. 16, pp. 3550-3556. Dostupné na: <https://doi.org/10.1039/c9tb02100k>., Registrované v: WOS

17. [1.1] ZUMPANO, Rosaceleste - LAMBERTINI, Laura - TORTOLINI, Cristina - BOLLELLA, Paolo - FAVERO, Gabriele - ANTIOCHIA, Riccarda - MAZZEI, Franco. A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. In JOURNAL OF POWER SOURCES. ISSN 0378-7753, 2020, vol. 476, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpowsour.2020.228615>., Registrované v: WOS

ADCA526 SCHENKMAYEROVÁ, Andrea - BERTÓKOVÁ, Anikó - ŠEFČOVIČOVÁ, Jana - ŠTEFUCA, Vladimír - BUČKO, Marek - VIKARTOVSKÁ, Alicia - GEMEINER, Peter - TKÁČ, Ján - KATRLÍK, Jaroslav. Whole-cell Gluconobacter oxydans biosensor for 2-phenylethanol biooxidation monitoring. In Analytica Chimica Acta, 2015, vol. 854, p. 140-144. (2014: 4.513 - IF, Q1 - JCR, 1.544 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2014.11.012>

Citácie:

1. [1.1] GARGALO, Carina L. - UDUGAMA, Isuru - PONTIUS, Katrin - LOPEZ, Pau C. - NIELSEN, Rasmus F. - HASANZADEH, Aliyeh - MANSOURI, Seyed Soheil - BAYER, Christoph - JUNICKE, Helena - GERNAEY, Krist. Towards smart biomanufacturing: a perspective on recent developments in industrial measurement and monitoring technologies for bio-based production processes. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2020, vol. 47, no. 11, pp. 947-964. Dostupné na: <https://doi.org/10.1007/s10295-020-02308-1>., Registrované v: WOS

- ADCA527 SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - KATRLÍK, Jaroslav. Microbial monooxygenase amperometric biosensor for monitoring of Baeyer–Villiger biotransformation. In *Biosensors and Bioelectronics*, 2013, vol. 50, p. 235-238. (2012: 5.437 - IF, Q1 - JCR, 2.397 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0956-5663. Dostupné na: <https://doi.org/10.1016/j.bios.2013.06.061>
- Citácie:
1. [1.1] *RONCEVIC, Ivana Skugor - KRIVIC, Denis - BULJAC, Masa - VLADISLAVIC, Nives - BUZUK, Marijo. Polyelectrolytes Assembly: A Powerful Tool for Electrochemical Sensing Application. In SENSORS, 2020, vol. 20, no. 11, pp. Dostupné na: https://doi.org/10.3390/s20113211., Registrované v: WOS*
- ADCA528 SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - CHORVÁT, Dušan Jr. - LACÍK, Igor. Viability of free and encapsulated *Escherichia coli* overexpressing cyclopentanone monooxygenase monitored during model Bayer-Villiger biooxidation by confocal laser scanning microscopy. In *Biotechnology Letters*, 2012, vol. 34, p. 309 - 314. (2011: 1.683 - IF, Q3 - JCR, 0.725 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-011-0765-7>
- Citácie:
1. [1.1] *SILVA, A.L.P. - CARIDADE, T.N.D. - MAGALHAES, R.R. - DE SOUSA, K.T. - DE SOUSA, C.C. - VALE, J.A. Biocatalytic production of ε-caprolactone using *Geotrichum candidum* cells immobilized on functionalized silica. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, OCT 2020, vol. 104, no. 20, p. 8887-8895., Registrované v: WOS*
- ADCA529 SCHMIDT, M.E.G. - BIELY, Peter - KRÁTKY, Z. - SCHWARZ, R. Metabolism of 2-deoxy-2-fluoro-D-3H-glucose and 2-deoxy-2-fluoro-D-3H-mannose in yeast and chick-embryo cells. In *European Journal of Biochemistry*, 1978, vol. 87, p. 55-68. ISSN 0014-2956.
- Citácie:
1. [1.1] *KEENAN, Tessa - PARMEGGIANI, Fabio - MALASSIS, Julien - FONTENELLE, Clement Q. - VENDEVILLE, Jean-Baptiste - OFFEN, Wendy - BOTH, Peter - HUANG, Kun - MARCHESI, Andrea - HEYAM, Alex - YOUNG, Carl - CHARNOCK, Simon J. - DAVIES, Gideon J. - LINCLAU, Bruno - FLITSCH, Sabine L. - FASCIONE, Martin A. Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. In CELL CHEMICAL BIOLOGY. ISSN 2451-9448, 2020, vol. 27, no. 9, pp. 1199-+. Dostupné na: https://doi.org/10.1016/j.chembiol.2020.06.005., Registrované v: WOS*
- ADCA530 SCHMITZOVÁ, J. - KLAUDINY, Jaroslav - ALBERT, S. - SCHRODER, W. - SCHRECKENGOST W. - HANES, Jozef - JÚDOVÁ, J. - ŠIMÚTH, Jozef. A family of major royal jelly proteins of the honeybee *Apis mellifera* L. In *Cellular and Molecular Life Sciences : (CMLS)*, 1998, vol. 54, p.1020-1030. ISSN 1420-682X. Dostupné na: <https://doi.org/10.1007/s000180050229>
- Citácie:
1. [1.1] *AHMAD, Saboor - CAMPOS, Maria Graca - FRATINI, Filippo - ALTAYE, Solomon Zewdu - LI, Jianke. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 2, pp. Dostupné na: https://doi.org/10.3390/ijms21020382., Registrované v: WOS*
2. [1.1] *ARAUJO, Wellington Luiz de Paula - NEGRAO, Adriana Fava - VIEIRA, Jose Cavalcante souza - BITTARELLO, Alis Correia - PADILHA, Pedro de Magalhaes - ORSI, Ricardo de Oliveira. Supplementation with an Inorganic Iron*

- Source Modulates the Metalloproteomic Profile of the Royal Jelly Produced by Apis mellifera L. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2020, vol. 195, no. 2, pp. 648-657. Dostupné na: <https://doi.org/10.1007/s12011-019-01863-8>, Registrované v: WOS*
3. [1.1] BUCEKOVA, Marcela - BUGAROVA, Veronika - GODOCIKOVA, Jana - MAJTAN, Juraj. *Demanding New Honey Qualitative Standard Based on Antibacterial Activity. In FOODS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/foods9091263>, Registrované v: WOS*
4. [1.1] CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - JASKUNE, Kristina - KRETAVICIUS, Justinas. *The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 862-875. Dostupné na: <https://doi.org/10.1080/00218839.2020.1804118>, Registrované v: WOS*
5. [1.1] CHENG, Ying - ZHI, Junrui - LI, Fengliang - WANG, Hua - ZHOU, Yuhang - JIN, Jianxue. *Transcriptome sequencing of Coccinella septempunctata adults (Coleoptera: Coccinellidae) feeding on artificial diet and Aphis craccivora. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 8, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0236249>, Registrované v: WOS*
6. [1.1] LIU, Xiao-Long - HAN, Wei-Kang - ZE, Long-Ji - PENG, Ying-Chuan - YANG, Yi-Lin - ZHANG, Jin - YAN, Qi - DONG, Shuang-Lin. *Clustered Regularly Interspaced Short Palindromic Repeats/CRISPR-Associated Protein 9 Mediated Knockout Reveals Functions of the yellow-y Gene in Spodoptera litura. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.615391>, Registrované v: WOS*
7. [1.1] LIU, Xin - JIANG, Chenmin - CHEN, Yong - SHI, Fangxiong - LAI, Chaoqiang - SHEN, Lirong. *Major royal jelly proteins accelerate onset of puberty and promote ovarian follicular development in immature female mice. In FOOD SCIENCE AND HUMAN WELLNESS, 2020, vol. 9, no. 4, pp. 338-345. Dostupné na: <https://doi.org/10.1016/j.fshw.2020.05.008>, Registrované v: WOS*
8. [1.1] NOH, Mi Young - KIM, Sung Hyun - GORMAN, Maureen J. - KRAMER, Karl J. - MUTHUKRISHNAN, Subbaratnam - ARAKANE, Yasuyuki. *Yellow-g and Yellow-g2 proteins are required for egg desiccation resistance and temporal pigmentation in the Asian tiger mosquito, Aedes albopictus. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2020, vol. 122, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibmb.2020.103386>, Registrované v: WOS*
9. [1.1] VERNAL, Sebastian - OLIVEIRA, Fabiano - OLIVEIRA, Wanderson H. C. - GOULART, Thais M. - ORISTIAN, James - CALVO, Eric - PINTO, Mara C. - ROSELINO, Ana Maria - RIBEIRO, Jose M. C. *RNA-sequencing of the Nyssomyia neivai sialome: a sand fly-vector from a Brazilian endemic area for tegumentary leishmaniasis and pemphigus foliaceus. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-74343-y>, Registrované v: WOS*
10. [1.1] WANG, Xueyu - DONG, Jie - QIAO, Jiangtao - ZHANG, Gensheng - ZHANG, Hongcheng. *Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, 2020, vol. 59, no. 5, pp. 1049-1060. Dostupné na: <https://doi.org/10.1080/00218839.2020.1761071>, Registrované v: WOS*

ADCA531

SCHOLTZOVA, Eva** - MACH, Pavel - HRICOVÍNI, Miloš. *Structure of sulfated monosaccharides studied by quantum chemical methods. In Molecules, 2003, vol. 8,*

no. 11, p. 770-779. ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/81100770>

Citácie:

1. [1.1] HAASNOOT, Cornelis A. G. - DE GELDER, Rene - KOOIJMAN, Huub - KELLENBACH, Edwin R. *The conformation of the idopyranose ring revisited: How subtle O-substituent induced changes can be deduced from vicinal H-1-NMR coupling constants. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 496, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108052>., Registrované v: WOS*

ADCA532 SCHWIKAL, K. - HEINZE, T. - EBRINGEROVÁ, Anna - PETZOLD, K. Cationic xylan derivatives with high degree of functionalization. In Macromolecular Symposia, 2006, vol. 232, p. 49-56. (2005: 0.913 - IF, Q3 - JCR, 0.559 - SJR, Q1 - SJR). ISSN 1022-1360. Dostupné na: <https://doi.org/10.1002/masy.200551406>

Citácie:

1. [1.1] XU, Guibin - LUO, Yuanchao - SONG, Tao - HE, Bei - CHANG, Minmin - REN, Junli. *Preparation and Application of a Xylan-based Antibacterial Papermaking Additive to Protect Against Escherichia coli Bacteria. In BIORESOURCES. ISSN 1930-2126, 2020, vol. 15, no. 3, pp. 4781-4801., Registrované v: WOS*

2. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO, Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming. *Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>., Registrované v: WOS*

ADCA533 SINGH, S. - REDDY, P. - HAARHOFF, J. - BIELY, Peter - JANSE, B. - PILLAY, B. - PILLAY, D. - PRIOR, B.A. Relatedness of Thermomyces lanuginosus strains producing a thermostable xylanase. In Journal of Biotechnology, 2000, vol. 81, p. 119-128. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(00\)00279-0](https://doi.org/10.1016/S0168-1656(00)00279-0)

Citácie:

1. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. *Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105639>., Registrované v: WOS*

2. [1.1] KIM, Young-Hee - CHOI, Kyoung-Hwa - HONG, Jin-Young - LEE, Jeung-Min - KIM, Soo-Ji - JO, Chang-Wook - JEONG, So Young. *Investigation of Microorganisms Deteriorating Ancient Ola Leaf Manuscripts. In RESTAURATOR-INTERNATIONAL JOURNAL FOR THE PRESERVATION OF LIBRARY AND ARCHIVAL MATERIAL. ISSN 0034-5806, 2020, vol. 41, no. 3, pp. 119-129. Dostupné na: <https://doi.org/10.1515/res-2020-0004>., Registrované v: WOS*

ADCA534 SLÁDEK, Vladimír - HOLKA, Filip - TVAROŠKA, Igor. Ab initio modelling of the anomeric and exo anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane corrected for intramolecular BSSE. In Physical Chemistry Chemical Physics, 2015, vol. 17, p. 18501-18513. (2014: 4.493 - IF, Q1 - JCR, 1.771 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1463-9076. Dostupné na: <https://doi.org/10.1039/c5cp02191j>

Citácie:

1. [1.1] SU, Peifeng - TANG, Zhen - WU, Wei. Generalized Kohn-Sham energy decomposition analysis and its applications. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.1002/wcms.1460>., Registrované v: WOS

ADCA535 SLÁDEK, Vladimír** - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein residue networks from energetic and geometric data: Are they identical? In Journal of Chemical Theory and Computation, 2018, vol. 14, p. 6623-6631. (2017: 5.399 - IF, Q1 - JCR, 2.497 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.8b00733>

Citácie:

1. [1.1] DAWSON, William - MOHR, Stephan - RATCLIFF, Laura E. - NAKAJIMA, Takahito - GENOVESE, Luigi. Complexity Reduction in Density Functional Theory Calculations of Large Systems: System Partitioning and Fragment Embedding. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2020, vol. 16, no. 5, pp. 2952-2964. Dostupné na: <https://doi.org/10.1021/acs.jctc.9b01152>., Registrované v: WOS
2. [1.1] FEDOROV, Dmitri G. - LI, Hui - MIRONOV, Vladimir - ALEXEEV, Yuri. Computational Methods for Biochemical Simulations Implemented in GAMESS. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 123-142. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_8., Registrované v: WOS
3. [1.1] FEDOROV, Dmitri G. Analyzing Interactions with the Fragment Molecular Orbital Method. In QUANTUM MECHANICS IN DRUG DISCOVERY. ISSN 1064-3745, 2020, vol. 2114, no., pp. 49-73. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_4., Registrované v: WOS
4. [1.1] FEDOROV, Dmitri G. Partition Analysis for Density-Functional Tight-Binding. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 49, pp. 10346-10358. Dostupné na: <https://doi.org/10.1021/acs.jpca.0c08204>., Registrované v: WOS
5. [1.1] FEDOROV, Dmitri G. Three-Body Energy Decomposition Analysis Based on the Fragment Molecular Orbital Method. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4956-4971. Dostupné na: <https://doi.org/10.1021/acs.jpca.0c03085>., Registrované v: WOS
6. [1.1] FELLINE, Angelo - SEEGER, Michele - FANELLI, Francesca. webPSN v2.0: a webserver to infer fingerprints of structural communication in biomacromolecules. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, 2020, vol. 48, no. W1, pp. W94-W103. Dostupné na: <https://doi.org/10.1093/nar/gkaa397>., Registrované v: WOS
7. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5'; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

ADCA536 SLÁDEK, Vladimír - TVAROŠKA, Igor. First-principles interaction analysis assessment of manganese cation in the catalytic activity of glycosyltransferases. In Journal of Physical Chemistry B, 2017, vol. 121, p. 6148-6162. (2016: 3.177 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1520-6106. Dostupné na: <https://doi.org/10.1021/acs.jpcc.7b03714>

Citácie:

1. [1.1] GARCIA, Javier - PODESZWA, Rafal - SZALEWICZ, Krzysztof. SAPT codes for calculations of intermolecular interaction energies. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2020, vol. 152, no. 18, pp. Dostupné na: <https://doi.org/10.1063/5.0005093>., Registrované v: WOS
2. [1.1] MASTRANGELI, Renato - AUDINO, Maria Concetta - PALINSKY, Wolf - BROLY, Herve - BIERAU, Horst. The Formidable Challenge of Controlling High Mannose-Type N-Glycans in Therapeutic mAbs. In *TRENDS IN BIOTECHNOLOGY*. ISSN 0167-7799, 2020, vol. 38, no. 10, pp. 1154-1168. Dostupné na: <https://doi.org/10.1016/j.tibtech.2020.05.009>., Registrované v: WOS
3. [1.1] PATKOWSKI, Konrad. Recent developments in symmetry-adapted perturbation theory. In *WILEY INTERDISCIPLINARY REVIEWS- COMPUTATIONAL MOLECULAR SCIENCE*. ISSN 1759-0876, 2020, vol. 10, no. 3, pp. Dostupné na: <https://doi.org/10.1002/wcms.1452>., Registrované v: WOS
4. [1.1] TURUPCU, Ayseguel - POLIAK, Peter - MARGREITTER, Christian - OOSTENBRINK, Chris - STAUDACHER, Erika. UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase from the snail *Biomphalaria glabrata* structural reflections. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 1, pp. 15-25. Dostupné na: <https://doi.org/10.1007/s10719-019-09886-y>., Registrované v: WOS
5. [1.1] VASQUEZ-PROCOPIO, Johana - OSORIO, Beatriz - CORTES-MARTINEZ, Leticia - HERNANDEZ-HERNANDEZ, Fidel - MEDINA-CONTRERAS, Oscar - RIOS-CASTRO, Emmanuel - COMJEAN, Aram - LI, Fangge - HU, Yanhui - MOHR, Stephanie - PERRIMON, Norbert - MISSIRLIS, Fanis. Intestinal response to dietary manganese depletion in *Drosophila*. In *METALLOMICS*. ISSN 1756-5901, 2020, vol. 12, no. 2, pp. 218-240. Dostupné na: <https://doi.org/10.1039/c9mt00218a>., Registrované v: WOS
6. [1.1] WALDROP, Jonathan M. - PATKOWSKI, Konrad. Interactions of CO(2) with cluster models of metal-organic frameworks. In *JOURNAL OF COMPUTATIONAL CHEMISTRY*. ISSN 0192-8651, 2020, vol. 41, no. 23, pp. 2066-2083. Dostupné na: <https://doi.org/10.1002/jcc.26377>., Registrované v: WOS

ADCA537 SLANINOVÁ, I. - ŠESTÁK, Sergej - SVOBODA, A. - FARKAŠ, Vladimír. Cell wall and cytoskeleton reorganization as the response to hyperosmotic shock in *Saccharomyces cerevisiae*. In *Archives of Microbiology*, 2000, vol. 173, p. 245-252. ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s002030000136>

Citácie:

1. [1.1] MARINI, Guendalina - NUESKE, Elisabeth - LENG, Weihua - ALBERTI, Simon - PIGINO, Gaia. Reorganization of budding yeast cytoplasm upon energy depletion. In *MOLECULAR BIOLOGY OF THE CELL*. ISSN 1059-1524, 2020, vol. 31, no. 12, pp. 1232-1245. Dostupné na: <https://doi.org/10.1091/mbc.E20-02-0125>., Registrované v: WOS
2. [1.1] MAZHEIKA, Igor - VORONKO, Oksana - KAMZOLKINA, Olga. Early endocytosis as a key to understanding mechanisms of plasma membrane tension regulation in filamentous fungi. In *BIOLOGY OF THE CELL*. ISSN 0248-4900, 2020, vol. 112, no. 12, pp. 409-426. Dostupné na: <https://doi.org/10.1111/boc.202000066>., Registrované v: WOS
3. [1.1] SEGUINOT, Pauline - ORTIZ-JULIEN, Anne - CAMARASA, Carole. Impact of Nutrient Availability on the Fermentation and Production of Aroma Compounds Under Sequential Inoculation With *M. pulcherrima* and *S. cerevisiae*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.00305>., Registrované v: WOS

- ADCA538 SLÁVIKOVÁ, Elena - KOŠÍKOVÁ, Božena - MIKULÁŠOVÁ, M.
Biotransformation of waste lignin products by the soil-inhabiting yeast *Trichosporon pullulans*. In Canadian journal of microbiology : revue canadienne de microbiologie, 2002, vol. 48, p. 200-203. ISSN 0008-4166. Dostupné na: <https://doi.org/10.1139/W02-013>
- Citácie:
- [1.1] LIU, Zhe - MA, Xuemiao - HE, Nan - ZHANG, Jia - WU, Juan - LIU, Cunshou. Shifts in microbial communities and networks are correlated with the soil ionome in a kiwifruit orchard under different fertilization regimes. In *APPLIED SOIL ECOLOGY*. ISSN 0929-1393, 2020, vol. 149, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsoil.2020.103517>., Registrované v: WOS
 - [1.1] LIU, Zhuxiu - LIU, Junjie - YU, Zhenhua - YAO, Qin - LI, Yansheng - LIANG, Aizhen - ZHANG, Wu - MI, Gang - JIN, Jian - LIU, Xiaobing - WANG, Guanghua. Long-term continuous cropping of soybean is comparable to crop rotation in mediating microbial abundance, diversity and community composition. In *SOIL & TILLAGE RESEARCH*. ISSN 0167-1987, 2020, vol. 197, no., pp. Dostupné na: <https://doi.org/10.1016/j.still.2019.104503>., Registrované v: WOS
 - [1.1] YANG, Fenghuan - ZHANG, Jie - ZHANG, Huaying - JI, Guanghai - ZENG, Liexian - LI, Yan - YU, Chao - FERNANDO, W. G. Dilantha - CHEN, Wen. Bacterial Blight Induced Shifts in Endophytic Microbiome of Rice Leaves and the Enrichment of Specific Bacterial Strains With Pathogen Antagonism. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00963>., Registrované v: WOS
 - [1.1] ZHANG, Huaying - CHEN, Wen - ZHAO, Baoping - PHILLIPS, Lori A. - ZHOU, Yi - LAPEN, David R. - LIU, Jinghui. Sandy soils amended with bentonite induced changes in soil microbiota and fungistasis in maize fields. In *APPLIED SOIL ECOLOGY*. ISSN 0929-1393, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.apsoil.2019.103378>., Registrované v: WOS
- ADCA539 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Effects of pesticides on yeasts isolated from agricultural soil. In *Zeitschrift für Naturforschung C*, 2003, vol. 58, p. 855-859.
- Citácie:
- [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS
- ADCA540 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. The occurrence of yeasts in the forest soils. In *Journal of Basic Microbiology*, 2000, vol. 40, p. 207-212. ISSN 0233-111X. Dostupné na: [https://doi.org/10.1002/1521-4028\(200007\)40:3::AID-JOBM207o.0.CO;2-H](https://doi.org/10.1002/1521-4028(200007)40:3::AID-JOBM207o.0.CO;2-H)
- Citácie:
- [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MANGARAVITE, Erica - VIEIRA, Nivea Moreira - DA SILVEIRA, Fernando Augusto - DA SILVEIRA, Wendel Batista - MARTINS DO VALE, Helson Mario. Yeast species and strains differing along an altitudinal gradient in the Brazilian forest domain. In *REVISTA BRASILEIRA DE CIENCIA DO SOLO*. ISSN 0100-0683, 2020, vol. 44, no., pp. Dostupné na: <https://doi.org/10.36783/18069657rbcs20200033>., Registrované v: WOS
 - [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Soil Yeast Communities in Revegetated Post-Mining and Adjacent

Native Areas in Central Brazil. In MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081116>., Registrované v: WOS

- ADCA541 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, D. Yeasts colonizing the leaf surfaces. In Journal of Basic Microbiology, 2007, vol.47, p.344-350. (2006: 0.722 - IF, Q4 - JCR, 0.364 - SJR, Q2 - SJR). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.200710310>

Citácie:

1. [1.1] BECKER, Regina - ULRICH, Kristina - BEHRENDT, Undine - KUBE, Michael - ULRICH, Andreas. Analyzing Ash Leaf-Colonizing Fungal Communities for Their Biological Control of *Hymenoscyphus fraxineus*. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.590944>., Registrované v: WOS
2. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS
3. [1.1] SORIANO, Keylee - CLAVIJO-MCCORMICK, Andrea. Volatile emissions of six New Zealand fern species in response to physical damage and herbivory. In NEW ZEALAND JOURNAL OF ECOLOGY. ISSN 0110-6465, 2020, vol. 44, no. 1, pp. Dostupné na: <https://doi.org/10.20417/nzj ecol.44.5>., Registrované v: WOS

- ADCA542 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Seasonal occurrence of yeasts and yeast-like organisms in the river Danube. In Antonie van Leeuwenhoek, 1997, vol. 72, p. 77-80. ISSN 0003-6072. Dostupné na: <https://doi.org/10.1023/A:1000287005253>

Citácie:

1. [1.1] LENGELER, Klaus B. - STOVICEK, Vratislav - FENNESSY, Ross T. - KATZ, Michael - FORSTER, Jochen. Never Change a Brewing Yeast? Why Not, There Are Plenty to Choose From. In FRONTIERS IN GENETICS, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fgene.2020.582789>., Registrované v: WOS
2. [1.1] MONAPATHI, Mzimkhulu Ephraim - BEZUIDENHOUT, Carlos Cornelius - RHODE, Owen Howard James. Aquatic yeasts: diversity, characteristics and potential health implications. In JOURNAL OF WATER AND HEALTH. ISSN 1477-8920, 2020, vol. 18, no. 2, pp. 91-105. Dostupné na: <https://doi.org/10.2166/wh.2020.270>., Registrované v: WOS

- ADCA543 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - KOCKOVÁ-KRATOCHVÍLOVÁ, A. Yeasts isolated from artificial lake waters. In Canadian journal of microbiology : revue canadienne de microbiologie, 1992, vol. 38, p. 1206-1209. ISSN 0008-4166.

Citácie:

1. [1.1] MONAPATHI, Mzimkhulu Ephraim - BEZUIDENHOUT, Carlos Cornelius - RHODE, Owen Howard James. Aquatic yeasts: diversity, characteristics and potential health implications. In JOURNAL OF WATER AND HEALTH. ISSN 1477-8920, 2020, vol. 18, no. 2, pp. 91-105. Dostupné na: <https://doi.org/10.2166/wh.2020.270>., Registrované v: WOS

- ADCA544 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, Dana. Yeasts colonizing the leaves of fruit trees. Dana Vránová. In Annals of Microbiology, 2009, vol.53, no.3., pp.419-424. Dostupné na: <https://doi.org/10.1007/BF03175125>

Citácie:

1. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In *AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE*. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS
 2. [1.1] CIANI, Maurizio - CANONICO, Laura - ORO, Lucia - COMITINI, Francesca. FOOTPRINT OF NONCONVENTIONAL YEASTS AND THEIR CONTRIBUTION IN ALCOHOLIC FERMENTATIONS. In *BIOTECHNOLOGICAL PROGRESS AND BEVERAGE CONSUMPTION*, 2020, vol. 19, no., pp. 435-465., Registrované v: WOS
 3. [1.1] INTO, Parichat - PONTES, Ana - SAMPAIO, Jose Paulo - LIMTONG, Savitree. Yeast Diversity Associated with the Phylloplane of Corn Plants Cultivated in Thailand. In *MICROORGANISMS*, 2020, vol. 8, no. 1, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8010080>., Registrované v: WOS
- ADCA545 SLUSNA, Lenka** - HAIZER, Ludovit - JÁNEĽ, Eduard - BONDAREV, Dmitrij - SZOCS, Vojtech - DRZIK, Milan - NOSKOVICOVA, Eva - LORENC, Dusan - VELIC, Dusan. Linear and multi-photon fluorescence of tiophene based copolymer with electron-accepting side chains. In *Journal of Fluorescence*, 2018, vol. 28, no. 6, p. 1333-1340. (2017: 1.665 - IF, Q3 - JCR, 0.391 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1053-0509. Dostupné na: <https://doi.org/10.1007/s10895-018-2295-3>
- Citácie:
1. [1.1] ZAREBA, J.K. - NYK, M. - SAMOC, M. Nonlinear Optical Pigments. Two-Photon Absorption in Crosslinked Conjugated Polymers and Prospects for Remote Nonlinear Optical Thermometry. In *POLYMERS*. AUG 2020, vol. 12, no. 8., Registrované v: WOS
- ADCA546 SMITH, W.Stevenson - TOMASEC, P. - AICHELER, R. - LOEWENDORF, A. - NEMČOVIČOVÁ, Ivana - WANG, E.C. - STANTON, R.J. - MACAULEY, M. - WILLEN, L. - RUCKOVA, E. - NOMOTO, A. - SCHNEIDER, P. - HAHN, G. - ZAJONC, D.M. - WARE, C.F. - WILKINSON, G.W. - BENEDICT, C.A. Human cytomegalovirus glycoprotein UL141 targets the TRAIL death receptors to thwart host innate antiviral defenses. In *Cell Host & Microbe*, 2013, vol. 13, no. 3, p. 324-335. (2012: 12.609 - IF, Q1 - JCR, 7.668 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1931-3128. Dostupné na: <https://doi.org/10.1016/j.chom.2013.02.003>
- Citácie:
1. [1.1] BERRY, R. - WATSON, G.M. - JONJIC, S. - DEGLI-ESPOSTI, M.A. - ROSSJOHN, J. Modulation of innate and adaptive immunity by cytomegaloviruses. In *NATURE REVIEWS IMMUNOLOGY*. ISSN 1474-1733, FEB 2020, vol. 20, no. 2, p. 113-127., Registrované v: WOS
 2. [1.1] DELL'OSTE, V. - BIOLATTI, M. - GALITSKA, G. - GRIFFANTE, G. - GUGLIESI, F. - PASQUERO, S. - ZINGONI, A. - CERBONI, C. - DE ANDREA, M. Tuning the Orchestra: HCMV vs. Innate Immunity. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, APR 15 2020, vol. 11., Registrované v: WOS
 3. [1.1] MANCINI, M. - VIDAL, S.M. Mechanisms of Natural Killer Cell Evasion Through Viral Adaptation. In *ANNUAL REVIEW OF IMMUNOLOGY*, VOL 38. ISSN 0732-0582, 2020, vol. 38, p. 511-539., Registrované v: WOS
 4. [1.1] NGUYEN, C.C. - DOMMA, A.J. - ZHANG, H.B. - KAMIL, J.P. Endoplasmic Reticulum (ER) Reorganization and Intracellular Retention of CD58 Are Functionally Independent Properties of the Human Cytomegalovirus ER-Resident Glycoprotein UL148. In *JOURNAL OF VIROLOGY*. ISSN 0022-538X, MAR 2020, vol. 94, no. 5., Registrované v: WOS

5. [1.1] SANDHU, P.K. - BUCHKOVICH, N.J. *Human Cytomegalovirus Decreases Major Histocompatibility Complex Class II by Regulating Class II Transactivator Transcript Levels in a Myeloid Cell Line. In JOURNAL OF VIROLOGY. ISSN 0022-538X, APR 2020, vol. 94, no. 7., Registrované v: WOS*
6. [1.1] TREVIRANUS, G.R.S. *PSYCHOSES BY ATTACKS FROM SUBVERTED MAST CELLS: A ROLE FOR ARTERIAL INTRAMURAL FLOW BADLY STEERED BY THE NASAL GANGLIA?. In PSYCHIATRIA DANUBINA. ISSN 0353-5053, 2020, vol. 32, p. 93-104., Registrované v: WOS*
- ADCA547 SMULEK, Wojciech - KACZOREK, Eva - HRICOVÍNIOVÁ, Zuzana. Alkyl xylosides: physico-chemical properties and influence on environmental bacteria cells. In *Journal of Surfactants and Detergents*, 2017, vol. 20, p. 1269-1279. (2016: 1.450 - IF, Q3 - JCR, 0.407 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1097-3958. Dostupné na: <https://doi.org/10.1007/s11743-017-2012-2>
- Citácie:
1. [1.1] WU, Xiubing - KUANG, Na - CHEN, Langqiu - FAN, Yulin - FU, Fang - LI, Jiping - ZHANG, Jing. *Synthesis and property of alkyl dioxethyl alpha-D-xyloside. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2020, vol. 315, no., pp. Dostupné na: https://doi.org/10.1016/j.molliq.2020.113770., Registrované v: WOS*
- ADCA548 SOBOLČIAK, Patrik - ŠPÍREK, Mário - KATRLÍK, Jaroslav - GEMEINER, Peter - LACÍK, Igor - KASÁK, Peter. Light-switchable polymer from cationic to zwitterionic form: Synthesis, characterization, and interactions with DNA and bacterial cells. In *Macromolecular Rapid Communications*, 2013, vol. 34, p. 635 - 639. (2012: 4.929 - IF, Q1 - JCR, 2.096 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1022-1336. Dostupné na: <https://doi.org/10.1002/marc.201200823>
- Citácie:
1. [1.1] GHOSH, S. - HALDAR, J. *Cationic polymer-based antibacterial smart coatings. In ADVANCES IN SMART COATINGS AND THIN FILMS FOR FUTURE INDUSTRIAL AND BIOMEDICAL ENGINEERING APPLICATIONS. 2020, p. 557-582., Registrované v: WOS*
2. [1.2] SUN, Z., ZHANG, Z.- ZHOU, R- YAN, S.- YIN, J. *Strateg-es in the Design of Zwitterionic Polymer Materials with Self-adaptive Transition Between Bactericidal and Anti-adhesive Functions. (2020) Cailiao Daobao/Materials Reports, 34 (23), p. 23199-23204., Registrované v: Scopus*
- ADCA549 SOBOLČIAK, Patrik - POPELKA, Anton - MIČUŠÍK, Matej - SLÁVIKOVÁ, Monika - KRUPA, Igor - MOSNÁČEK, Jaroslav - TKÁČ, Ján - LACÍK, Igor - KASÁK, Peter. Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. In *Journal of Colloid and Interface Science*, 2017, vol. 500, p. 294-303. (2016: 4.233 - IF, Q1 - JCR, 1.156 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0021-9797. Dostupné na: <https://doi.org/10.1016/j.jcis.2017.04.020>
- Citácie:
1. [1.1] ISHIHARA, K. - ITO, M. - FUKAZAWA, K. - INOUE, Y. *Interface of Phospholipid Polymer Grafting Layers to Analyze Functions of Immobilized Oligopeptides Involved in Cell Adhesion. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JUL 2020, vol. 6, no. 7, p. 3984-3993., Registrované v: WOS*
- ADCA550 SOUKUP, Milan - MARTINKA, Michal - CIGÁŇ, Marek - RAVASZOVÁ, Frederika - LUX, Alexander. New method for visualization of silica phytoliths in Sorghum bicolor roots by fluorescence microscopy revealed silicate concentration-

dependent phytolith formation. In *Planta*, 2014, vol. 240, p. 1365-1372. (2013: 3.376 - IF, Q1 - JCR, 1.562 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0032-0935. Dostupné na: <https://doi.org/10.1007/s00425-014-2179-y>

Citácie:

1. [1.1] KAISER, S. - WAGNER, S. - MOSCHNER, C. - FUNKE, C. - WICHE, O. *Accumulation of germanium (Ge) in plant tissues of grasses is not solely driven by its incorporation in phytoliths. In BIOGEOCHEMISTRY. ISSN 0168-2563, MAR 2020, vol. 148, no. 1, p. 49-68., Registrované v: WOS*
2. [1.1] PRUYNE, D.T. - SCHLOSSBERG, M.J. - UDDIN, W. *Creeping Bentgrass Fairway Wear Resistance by Granular Topdressing of Ca/Mg-rich Liming Agents. In AGRICULTURE-BASEL. FEB 2020, vol. 10, no. 2., Registrované v: WOS*
3. [1.1] ZEXER, N. - ELBAUM, R. *Unique lignin modifications pattern the nucleation of silica in sorghum endodermis. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6818-6829., Registrované v: WOS*

ADCA551 SOUKUP, Milan - MARTINKA, Michal - BOSNIČ, Dragana - ČAPLOVIČOVÁ, Mária - ELBAUM, Rivka - LUX, Alexander. *Formation of silica aggregates in sorghum root endodermis is predetermined by cell wall architecture and development. In Annals of Botany, 2017, vol. 120, p. 739-753. (2016: 4.041 - IF, Q1 - JCR, 1.942 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcx060>*

Citácie:

1. [1.1] DE TOMBEUR, Felix - VANDER LINDEN, Charles - CORNELIS, Jean-Thomas - GODIN, Bruno - COMPERE, Philippe - DELVAUX, Bruno. *Soil and climate affect foliar silicification patterns and silica-cellulose balance in sugarcane (Saccharum officinarum). In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 452, no. 1-2, pp. 529-546. Dostupné na: <https://doi.org/10.1007/s11104-020-04588-z>., Registrované v: WOS*
2. [1.1] GEORGE, Navomy - ANTONY, Asha - RAMACHANDRAN, Tholkappiyan - HAMED, Fathalla - KAMAL-ELDIN, Afaf. *Microscopic Investigations of Silicification and Lignification Suggest Their Coexistence in Tracheary Phytoliths in Date Fruits (Phoenix dactylifera L.). In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fpls.2020.00977>., Registrované v: WOS*
3. [1.1] KAISER, Sabine - WAGNER, Stephan - MOSCHNER, Christin - FUNKE, Claudia - WICHE, Oliver. *Accumulation of germanium (Ge) in plant tissues of grasses is not solely driven by its incorporation in phytoliths. In BIOGEOCHEMISTRY. ISSN 0168-2563, 2020, vol. 148, no. 1, pp. 49-68. Dostupné na: <https://doi.org/10.1007/s10533-020-00646-x>., Registrované v: WOS*
4. [1.1] KRESZIES, Tino - KRESZIES, Victoria - LY, Falko - THANGAMANI, Priya Dharshini - SHELLAKKUTTI, Nandhini - SCHREIBER, Lukas. *Suberized transport barriers in plant roots: the effect of silicon. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2020, vol. 71, no. 21, pp. 6799-6806. Dostupné na: <https://doi.org/10.1093/jxb/eraa203>., Registrované v: WOS*
5. [1.1] PRUYNE, Derek T. - SCHLOSSBERG, Maxim J. - UDDIN, Wakar. *Creeping Bentgrass Fairway Wear Resistance by Granular Topdressing of Ca/Mg-rich Liming Agents. In AGRICULTURE-BASEL, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/agriculture10020043>., Registrované v: WOS*
6. [1.1] PUTRA, Rocky - POWELL, Jeff R. - HARTLEY, Susan E. - JOHNSON, Scott N. *Is it time to include legumes in plant silicon research? In FUNCTIONAL ECOLOGY. ISSN 0269-8463, 2020, vol. 34, no. 6, pp. 1142-1157. Dostupné na:*

- <https://doi.org/10.1111/1365-2435.13565>, Registrované v: WOS
- ADCA552 SPIWOK, Vojtech - TVAROŠKA, Igor. Conformational Free Energy Surface of alfa-N-Acetylneuraminic Acid: An Interplay Between Hydrogen Bonding and Solvation. In *Journal of Physical Chemistry*, 2009, vol.113, pp. 9589-9594. Dostupné na: <https://doi.org/10.1021/jp8113495>
- Citácie:
- [1.1] LIPNICANOVA, Sabina - CHMELOVA, Daniela - ONDREJOVIC, Miroslav - FRECER, Vladimir - MIERTUS, Stanislav. Diversity of sialidases found in the human body A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 148, no., pp. 857-868. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.123>, Registrované v: WOS
 - [1.1] TURUPCU, Ayseguel - BLAUKOPF, Markus - KOSMA, Paul - OOSTENBRINK, Chris. Molecular Conformations of Di-, Tri-, and Tetra-alpha-(2> 8)-Linked Sialic Acid from NMR Spectroscopy and MD Simulations. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 1, pp. Dostupné na: <https://doi.org/10.3390/ijms21010030>, Registrované v: WOS
- ADCA553 SPIWOK, Vojtech - TVAROŠKA, Igor. Metadynamics modelling of the solvent effect on primary hydroxyl rotamer equilibria in hexopyranosides. In *Carbohydrate Research*, 2009, vol.344, p.1575-1581. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2009.05.019>
- Citácie:
- [1.1] MATSUO, Koichi - GEKKO, Kunihiro. Vacuum Ultraviolet Electronic Circular Dichroism Study of D-Glucose in Aqueous Solution. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2020, vol. 124, no. 4, pp. 642-651. Dostupné na: <https://doi.org/10.1021/acs.jpca.9b09210>, Registrované v: WOS
- ADCA554 STANKOVSKÁ, Monika - ŠOLTÉS, Ladislav - VIKARTOVSKÁ, Alica - MENDICHI, Raniero - LATH, Dieter - MOLNÁROVÁ, Marianna - GEMEINER, Peter. Study of hyaluronan degradation by means of rotational viscometry: contribution of the material of viscometer. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 2004, vol. 58, no. 5, p. 348-352. ISSN 0366-6352.
- Citácie:
- [1.1] NOUR, M.A. - HUSSAIN, M.M. A Review of the Real-Time Monitoring of Fluid-Properties in Tubular Architectures for Industrial Applications. In *SENSORS*. JUL 2020, vol. 20, no. 14., Registrované v: WOS
- ADCA555 STANKOVSKÁ, Monika - HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - MOLNÁROVÁ, Marianna - GEMEINER, Peter - ŠOLTÉS, Ladislav. The degradative action of peroxynitrite on high-molecular-weight hyaluronan. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 31-34. (2005: 1.005 - IF, Q4 - JCR, 0.453 - SJR, Q2 - SJR). (2006 - WOS, SCOPUS). ISSN 0172-780X.
- Citácie:
- [1.1] LAZRAK, A. - SONG, W.F. - ZHOU, T. - AGGARWAL, S. - JILLING, T. - GARANTZIOTIS, S. - MATALON, S. Hyaluronan and halogen-induced airway hyperresponsiveness and lung injury. In *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*. ISSN 0077-8923, NOV 2020, vol. 1479, no. 1, SI, p. 29-43., Registrované v: WOS
- ADCA556 STAŠKO, Andrej - BREZOVÁ, Vlasta - ZALIBERA, Michal - BISKUPIČ, Stanislav - ONDRIAŠ, Karol. Electron transfer: A primary step in the reactions of sodium hydrosulphide, an H₂S/HS⁻ donor. In *Free Radical Research : official journal of the Society for Free Radical Research -European Region*, 2009, vol. 46, iss. 6, p. 581-593. (2008: 2.826 - IF, Q2 - JCR, 1.087 - SJR, Q1 - SJR, karentované -

CCC). (2009 - Current Contents). ISSN 1071-5762.

Citácie:

1. [1.1] BERENYIOVA, Andrea - GRMAN, Marian - MISAK, Anton - GOLAS, Samuel - CUCHOROVA, Justina - CACANYIOVA, Sona. *The Possible Role of the Nitroso-Sulfide Signaling Pathway in the Vasomotoric Effect of Garlic Juice*. In *MOLECULES*, 2020, vol. 25, no. 3, pp. Dostupné na:

<https://doi.org/10.3390/molecules25030590>, Registrované v: WOS

2. [1.1] ZHU, Lin - YANG, Bo - MA, Dongxia - WANG, Lan - DUAN, Wu.

Hydrogen Sulfide, Adipose Tissue and Diabetes Mellitus. In *DIABETES METABOLIC SYNDROME AND OBESITY-TARGETS AND THERAPY*. ISSN 1178-7007, 2020, vol. 13, no., pp. 1873-1886. Dostupné na:

<https://doi.org/10.2147/DMSO.S249605>, Registrované v: WOS

ADCA557 STEINER, Bohumil - LANGER, Vratislav - KOŇŠ, Miroslav. Synthesis and X-ray structure of a C5-C4-linked glucofuranose-oxazolidin-2-one. Miroslav Koňš. In *Carbohydrate Research*, 2009, vol.344, p.2079-2082. (2008: 1.960 - IF, Q2 - JCR, 0.859 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215. Dostupné na:

<https://doi.org/10.1016/j.carres.2009.06.031>

Citácie:

1. [1.1] WOOD, Adam - BERNHARDT, Paul - VAN ALTENA, Ian - SIMONE, Michela. *Crystal structure of 6-azido-6-deoxy-1,2-O-iso-propylidene-alpha-D-glucofuranose*. In *ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS*. ISSN 2056-9890, 2020, vol. 76, no., pp. 1653-+. Dostupné na: <https://doi.org/10.1107/S2056989020012438>, Registrované v: WOS

ADCA558 STERN, Robert - KOGAN, Grigorij - JEDRZEJAS, Mark J. - ŠOLTÉS, Ladislav. The many ways to cleave hyaluronan. In *Biotechnology Advances*, 2007, vol. 25, p. 537-557. (2006: 4.943 - IF, Q1 - JCR, 1.715 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0734-9750. Dostupné na:

<https://doi.org/10.1016/j.biotechadv.2007.07.001>

Citácie:

1. [1.1] AIDA, T.M. - OSHIMA, M. - SHARMIN, T. - MISHIMA, K. - SMITH, R.L. *Controlled conversion of sodium hyaluronate into low-molecular-weight polymers without additives using high-temperature water and fast-heating-rates*. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2020, vol. 155, art. no. UNSP 104638., Registrované v: WOS

2. [1.1] ARNHOLD, J. *Oxidation and Reduction of Biological Material*. In *CELL AND TISSUE DESTRUCTION: MECHANISMS, PROTECTION, DISORDERS*. ISBN:978-0-12-816735-9; 978-0-12-816388-7, 2020, p. 55-97., Registrované v: WOS

3. [1.1] CHOUDHARY, A. - KUMAR, A. - KAUR, N. *ROS and oxidative burst: Roots in plant development*. In *PLANT DIVERSITY*. ISSN 2096-2703, 2020, vol. 42, no. 1, p. 33-43., Registrované v: WOS

4. [1.1] DOGNE, S. - FLAMION, B. *Endothelial Glycocalyx Impairment in Disease Focus on Hyaluronan Shedding*. In *AMERICAN JOURNAL OF PATHOLOGY*. ISSN 0002-9440, 2020, vol. 190, no. 4, p. 768-780., Registrované v: WOS

5. [1.1] FERGUSON, E.L. - VARACHE, M. - STOKNIENE, J. - THOMAS, D.W. *Polysaccharides for protein and peptide conjugation*. In *POLYMER-PROTEIN CONJUGATES: FROM PEGYLATION AND BEYOND*. ISBN:978-0-44-464082-6; 978-0-444-64081-9, 2020, p. 421-453., Registrované v: WOS

6. [1.1] FLEGEAU, K. - TOQUET, C. - RETHORE, G. - D'ARROS, C. -

- MESSAGER, L. - HALGAND, B. - DUPONT, D. - AUTRUSSEAU, F. - LESOEUR, J. - VEZIER, J. - BORDAT, P. - BRESIN, A. - GUICHEUX, J. - DELPLACE, V. - GAUTIER, H. - WEISS, P. *In Situ Forming, Silanized Hyaluronic Acid Hydrogels with Fine Control Over Mechanical Properties and In Vivo Degradation for Tissue Engineering Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 19, art. no. 2000981., Registrované v: WOS*
7. [1.1] HE, J. - HUANG, H. - ZOU, X.P. - WANG, Y. - DU, G.C. - KANG, Z. *Construction of saturated odd- and even-numbered hyaluronan oligosaccharide building block library. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 231, art. no. 115700., Registrované v: WOS*
8. [1.1] HELDIN, P. - KOLLIPOULOS, C. - LIN, C.Y. - HELDIN, C.H. *Involvement of hyaluronan and CD44 in cancer and viral infections. In CELLULAR SIGNALLING. ISSN 0898-6568, 2020, vol. 65, art. no. 109427., Registrované v: WOS*
9. [1.1] HUANG, H. - LIANG, Q.X. - WANG, Y. - CHEN, J. - KANG, Z. *High-level constitutive expression of leech hyaluronidase with combined strategies in recombinant Pichia pastoris. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 4, p. 1621-1632., Registrované v: WOS*
10. [1.1] KADOYA, H. - YU, N. - SCHIESSL, I.M. - RIQUIER-BRISON, A. - GYARMATI, G. - DESPOSITO, D. - KIDOKORO, K. - BUTLER, M.J. - JACOB, C.O. - PETI-PETERDI, J. *Essential role and therapeutic targeting of the glomerular endothelial glycocalyx in lupus nephritis. In JCI INSIGHT. 2020, vol. 5, no. 19., Registrované v: WOS*
11. [1.1] KAZEZIAN, Z. - JOYCE, K. - PANDIT, A. *The Role of Hyaluronic Acid in Intervertebral Disc Regeneration. In APPLIED SCIENCES-BASEL. 2020, vol. 10, no. 18., Registrované v: WOS*
12. [1.1] KIM, Y. - DE LA MOTTE, C.A. *The Role of Hyaluronan Treatment in Intestinal Innate Host Defense. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, APR 29 2020, vol. 11., Registrované v: WOS*
13. [1.1] KRUPKOVA, O. - GREUTERT, H. - BOOS, N. - LEMCKE, J. - LIEBSCHER, T. - WUERTZ-KOZAK, K. *Expression and activity of hyaluronidases HYAL-1, HYAL-2 and HYAL-3 in the human intervertebral disc. In EUROPEAN SPINE JOURNAL. ISSN 0940-6719, 2020, vol. 29, no. 3, p. 605-615., Registrované v: WOS*
14. [1.1] LEE, W. - OH, W. - OH, S.M. - YANG, E.J. *Comparative Effectiveness of Different Interventions of Perivascular Hyaluronidase. In PLASTIC AND RECONSTRUCTIVE SURGERY. ISSN 0032-1052, 2020, vol. 145, no. 4, p. 957-964., Registrované v: WOS*
15. [1.1] LI, J.M. - QIAO, M. - JI, Y. - LIN, L. - ZHANG, X. - LINHARDT, R.J. *Chemical, enzymatic and biological synthesis of hyaluronic acids. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 152, p. 199-206., Registrované v: WOS*
16. [1.1] MATSUDA, M. - SEKI, E. *The liver fibrosis niche: Novel insights into the interplay between fibrosis-composing mesenchymal cells, immune cells, endothelial cells, and extracellular matrix. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, SEP 2020, vol. 143., Registrované v: WOS*
17. [1.1] NIEMIETZ, Iwona - MORAES, Abigail T. - SUNDQVIST, Martina - BROWN, Kelly L. *Hyaluronan primes the oxidative burst in human neutrophils. In JOURNAL OF LEUKOCYTE BIOLOGY. ISSN 0741-5400, 2020, vol. 108, no. 2, pp. 705-713. Dostupné na: <https://doi.org/10.1002/JLB.3MA0220-216RR.>*

Registrované v: WOS

18. [1.1] RIPPE, M. - MICHELAS, M. - PUTAUX, J.L. - FRATZL, M. - ESLAVA, G.G. - DEMPSEY, N.M. - AUZELY-VELTY, R. - SZARPAK, A. *Synthesis and magnetic manipulation of hybrid nanobeads based on Fe₃O₄ nanoclusters and hyaluronic acid grafted with an ethylene glycol-based copolymer.* In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2020, vol. 510, art. no. 145354.,

Registrované v: WOS

19. [1.1] ROSHANBINFAR, K. - VOGT, L. - RUTHER, F. - ROETHER, J.A. - BOCCACCINI, A.R. - ENGEL, F.B. *Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering.* In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, 2020, vol. 30, no. 7, art. no. 1908612., *Registrované v: WOS*

20. [1.1] SALTI, G. - FUNDARO, S.P. *Evaluation of the Rheologic and Physicochemical Properties of a Novel Hyaluronic Acid Filler Range with eXcellent Three-Dimensional Reticulation (XTR (TM)) Technology.* In *POLYMERS*. AUG 2020, vol. 12, no. 8., *Registrované v: WOS*

21. [1.1] SCOGNAMIGLIO, F. - TRAVAN, A. - DONATI, I. - BORGOGNA, M. - MARSICH, E. *A hydrogel system based on a lactose-modified chitosan for viscosupplementation in osteoarthritis.* In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, NOV 15 2020, vol. 248., *Registrované v: WOS*

22. [1.1] SHA, Y.Y. - QIU, Y.B. - ZHU, Y.F. - SUN, T. - LUO, Z.S. - GAO, J. - FENG, X.H. - LI, S. - XU, H. *CRISPRi-Based Dynamic Regulation of Hydrolase for the Synthesis of Poly-gamma-Glutamic Acid with Variable Molecular Weights.* In *ACS SYNTHETIC BIOLOGY*. ISSN 2161-5063, 2020, vol. 9, no. 9, p. 2450-2459., *Registrované v: WOS*

23. [1.1] SHIOZAWA, J. - DE VEGA, S. - CILEK, M.Z. - YOSHINAGA, C. - NAKAMURA, T. - KASAMATSU, S. - YOSHIDA, H. - KANEKO, H. - ISHIIJIMA, M. - KANEKO, K. - OKADA, Y. *Implication of HYBID (Hyaluronan-Binding Protein Involved in Hyaluronan Depolymerization) in Hyaluronan Degradation by Synovial Fibroblasts in Patients with Knee Osteoarthritis.* In *AMERICAN JOURNAL OF PATHOLOGY*. ISSN 0002-9440, 2020, vol. 190, no. 5, p. 1046-1058., *Registrované v: WOS*

24. [1.1] SIMEK, M. - LEMR, K. - HERMANNOVA, M. - HAVLICEK, V. *Analysis of hyaluronan and its derivatives using chromatographic and mass spectrometric techniques.* In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 250., *Registrované v: WOS*

25. [1.1] SNETKOV, P. - ZAKHAROVA, K. - MOROZKINA, S. - OLEKHNOVICH, R. - USPENSKAYA, M. *Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer.* In *POLYMERS*. AUG 2020, vol. 12, no. 8., *Registrované v: WOS*

26. [1.1] SRIVASTAVA, T. - SHERMAN, L.S. - BACK, S.A. *Dysregulation of Hyaluronan Homeostasis During White Matter Injury.* In *NEUROCHEMICAL RESEARCH*. ISSN 0364-3190, 2020, vol. 45, no. 3, SI, p. 672-683., *Registrované v: WOS*

27. [1.1] TSENG, V. - NI, K. - ALLAWZI, A. - PROHASKA, C. - HERNANDEZ-LAGUNAS, L. - ELAJAILI, H. - CALI, V. - MIDURA, R. - HASCALL, V. - TRIGGS-RAINE, B. - PETRACHE, I. - HART, C.M. - NOZIK-GRAYCK, E. *Extracellular Superoxide Dismutase Regulates Early Vascular Hyaluronan Remodeling in Hypoxic Pulmonary Hypertension.* In *SCIENTIFIC REPORTS*. ISSN 2045-2322, JAN 14 2020, vol. 10, no. 1., *Registrované v: WOS*

28. [1.1] VALCARCEL, J. - GARCIA, M.R. - VARELA, U.R. - VAZQUEZ, J.A.

Hyaluronic acid of tailored molecular weight by enzymatic and acid depolymerization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, FEB 15 2020, vol. 145, p. 788-794., Registrované v: WOS

29. [1.1] VASVANI, S. - KULKARNI, P. - RAWTANI, D. *Hyaluronic acid: A review on its biology, aspects of drug delivery, route of administrations and a special emphasis on its approved marketed products and recent clinical studies. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, p. 1012-1029., Registrované v: WOS*

30. [1.1] WOLK, A. - HATIPOGLU, D. - CUTLER, A. - ALI, M. - BELL, L. - QI, J.H. - SINGH, R. - BATOKI, J. - KARLE, L. - BONILHA, V.L. - WESSELY, O. - STOEHR, H. - HASCALL, V. - ANAND-APTE, B. *Role of FGF and Hyaluronan in Choroidal Neovascularization in Sorsby Fundus Dystrophy. In CELLS. eISSN: 2073-4409, 2020, vol. 9, no. 3, art. no. 608., Registrované v: WOS*

31. [1.1] YANG, Y.B. - ABDALLA, S. *Scaffolds of Macroporous Tannin Spray With Human-Induced Pluripotent Stem Cells. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8., Registrované v: WOS*

32. [1.1] YEH, C.J. - ZULUETA, M.M.L. - LI, Y.K. - HUNG, S.C. *Synthesis of hyaluronic acid oligosaccharides with a GlcNAc-GlcA repeating pattern and their binding affinity with CD44. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, JUL 28 2020, vol. 18, no. 28, p. 5370-5387., Registrované v: WOS*

ADCA559 STRATILOVÁ, Barbora - KLAUDINY, Jaroslav - ŘEHULKA, Pavel - STRATILOVÁ, Eva - MÉSZÁROSOVÁ, Csilla - GARAJOVÁ, Soňa - PAVLATOVSKÁ, Barbora - ŘEHULKOVÁ, Helena - KOZMON, Stanislav - ŠESTÁK, Sergej - FIRÁKOVÁ, Zuzana, Zemková - VADKERTIOVÁ, Renáta**. *Characterization of a long-chain alfa-galactosidase from Papiliotrema flavescens. In World Journal of Microbiology & Biotechnology, 2018, vol. 34, article no. 19. (2017: 2.100 - IF, Q3 - JCR, 0.604 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0959-3993. Dostupné na: <https://doi.org/10.1007/s11274-017-2403-6>*

Citácie:

1. [1.1] BHATIA, Sonu - SINGH, Abhinashi - BATRA, Navneet - SINGH, Jagtar. *Microbial production and biotechnological applications of alpha-galactosidase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1294-1313. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.140>., Registrované v: WOS*

2. [1.1] INTO, Parichat - PONTES, Ana - SAMPAIO, Jose Paulo - LIMTONG, Savitree. *Yeast Diversity Associated with the Phylloplane of Corn Plants Cultivated in Thailand. In MICROORGANISMS, 2020, vol. 8, no. 1, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8010080>., Registrované v: WOS*

ADCA560 STRATILOVÁ, Barbora - FIRÁKOVÁ, Zuzana, Zemková - KLAUDINY, Jaroslav - ŠESTÁK, Sergej - KOZMON, Stanislav - STROUHALOVÁ, Dana - GARAJOVÁ, Soňa - AIT-MOHAND, Fairouz - HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír - STRATILOVÁ, Eva - HRMOVÁ, Mária**. *Engineering the acceptor substrate specificity in the xyloglucan endotransglycosylase TmXET6.3 from nasturtium seeds (Tropaeolum majus L.). In Plant Molecular Biology, 2019, vol. 100, no. 1-2, p. 181-197. (2018: 3.928 - IF, Q1 - JCR, 1.705 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0167-4412. Dostupné na: <https://doi.org/10.1007/s11103-019-00852-8>*

Citácie:

1. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - PICMANOVA, Martina - LOH, Jia Wooi - VALENZUELA-ORTEGA, Marcos - MEULEWAETER, Frank - HUDSON, Andrew D. - FRENCH, Christopher E. - FRY, Stephen C. Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In *MOLECULAR PLANT*. ISSN 1674-2052, 2020, vol. 13, no. 7, pp. 1047-1062. Dostupné na: <https://doi.org/10.1016/j.molp.2020.04.011>, Registrované v: WOS
2. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - SANHUEZA, Dayan - ROIG-SANCHEZ, Soledad - MEULEWAETER, Frank - HUDSON, Andrew - THOMSON, Axel - LAROMAINE, Anna - BUDTOVA, Tatiana - FRY, Stephen C. Enzymically attaching oligosaccharide-linked 'cargoes' to cellulose and other commercial polysaccharides via stable covalent bonds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 4359-4369. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.039>, Registrované v: WOS
3. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>, Registrované v: WOS
4. [1.1] WANG, Tianwen - LIANG, Chen - HOU, Yajing - ZHENG, Mengyuan - XU, Hongju - AN, Yafei - XIAO, Sa - LIU, Lu - LIAN, Shuaibin. Small design from big alignment: engineering proteins with multiple sequence alignment as the starting point. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 8, pp. 1305-1315. Dostupné na: <https://doi.org/10.1007/s10529-020-02914-0>, Registrované v: WOS

ADCA561 STRATILOVÁ, Eva - AIT-MOHAND, Fairouz - ŘEHULKA, Pavel - GARAJOVÁ, Soňa - FLODROVÁ, Dana - ŘEHULKOVÁ, Helena - FARKAŠ, Vladimír. Xyloglucan endotransglycosylases (XETs) from germinating nasturtium (*Tropaeolum majus*) seeds: Isolation and characterization of the major form. In *Plant Physiology and Biochemistry*, 2010, vol.48, p. 207-215. (2009: 2.485 - IF, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2010.01.016>

Citácie:

1. [1.1] HERBURGER, Klaus - FRANKOVA, Lenka - PICMANOVA, Martina - LOH, Jia Wooi - VALENZUELA-ORTEGA, Marcos - MEULEWAETER, Frank - HUDSON, Andrew D. - FRENCH, Christopher E. - FRY, Stephen C. Hetero-trans-beta-Glucanase Produces Cellulose-Xyloglucan Covalent Bonds in the Cell Walls of Structural Plant Tissues and Is Stimulated by Expansin. In *MOLECULAR PLANT*. ISSN 1674-2052, 2020, vol. 13, no. 7, pp. 1047-1062. Dostupné na: <https://doi.org/10.1016/j.molp.2020.04.011>, Registrované v: WOS
2. [1.1] HOLLAND, Claire - SIMMONS, Thomas J. - MEULEWAETER, Frank - HUDSON, Andrew - FRY, Stephen C. Three highly acidic Equisetum XTHs differ from hetero-trans-beta-glucanase in donor substrate specificity and are predominantly xyloglucan homo-transglucosylases. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2020, vol. 251, no., pp. Dostupné na: <https://doi.org/10.1016/j.jplph.2020.153210>, Registrované v: WOS

ADCA562 STREĎANSKÝ, Miroslav - REDIVO, Luca** - MAGDOLEN, Peter - STREĎANSKÝ, Adam - NAVARINI, Luciano. Rapid sucrose monitoring in green coffee samples using multienzymatic biosensor. In *Food Chemistry*, 2018, vol. 254, p. 8-12. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC).

(2018 - Current Contents). ISSN 0308-8146. Dostupné na:

<https://doi.org/10.1016/j.foodchem.2018.01.171>

Citácie:

1. [1.1] AKSORN, Jinakan - TEEPOO, Siriwan. Development of the simultaneous colorimetric enzymatic detection of sucrose, fructose and glucose using a microfluidic paper-based analytical device. In *TALANTA*. ISSN 0039-9140, 2020, vol. 207, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2019.120302>, Registrované v: WOS

2. [1.1] KUCHERENKO, I. S. - SOLDATKIN, O. O. - DZYADEVYCH, S. V. - SOLDATKIN, A. P. Electrochemical biosensors based on multienzyme systems: Main groups, advantages and limitations A review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1111, no., pp. 114-131. Dostupné na: <https://doi.org/10.1016/j.aca.2020.03.034>, Registrované v: WOS

3. [1.1] LEBOT, Vincent - MELTERAS, Marie - PILECKI, Andre - LABOUISSSE, Jean-Pierre. Chemometric evaluation of cocoa (*Theobroma cacao* L.) and coffee (*Coffea* spp.) germplasm using HPTLC. In *GENETIC RESOURCES AND CROP EVOLUTION*. ISSN 0925-9864, 2020, vol. 67, no. 4, pp. 895-911. Dostupné na: <https://doi.org/10.1007/s10722-020-00888-6>, Registrované v: WOS

4. [1.1] LI, Na - DONG, Jing - DONG, Chenglong - HAN, Yehua - LIU, Huwei - DU, Fuyou - NIE, Honggang. Spatial Distribution of Endogenous Molecules in Coffee Beans by Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2020, vol. 31, no. 12, pp. 2503-2510. Dostupné na: <https://doi.org/10.1021/jasms.0c00202>, Registrované v: WOS

5. [1.1] MACHIN, Belen - CHAVES, Silvina - AVILA, Cesar - PERA, Licia Maria - CHEHIN, Rosana Nieves - PINGITORE, Esteban Vera. Highly reusable invertase biocatalyst: Biological fibrils functionalized by photocrosslinking. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 331, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127322>, Registrované v: WOS

6. [1.1] WANG, Xiaodan - DUAN, Jinjiao - CAI, Yingming - LIU, Dengyong - LI, Xing - DONG, Yanli - HU, Feng. A modified nanocomposite biosensor for quantitative L-glutamate detection in beef. In *MEAT SCIENCE*. ISSN 0309-1740, 2020, vol. 168, no., pp. Dostupné na: <https://doi.org/10.1016/j.meatsci.2020.108185>, Registrované v: WOS

ADCA563

STREĎANSKÝ, Miroslav - MONOŠÍK, Rastislav - MASTIHUBA, Vladimír - ŠTURDÍK, Ernest. Monitoring of PQQ-Dependent Glucose Dehydrogenase Substrate Specificity for Its Potential Use in Biocatalysis and Bioanalysis. In *Applied Biochemistry and Biotechnology*, 2013, vol. 171, p. 1032-1041. (2012: 1.893 - IF, Q3 - JCR, 0.765 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0273-2289. Dostupné na: <https://doi.org/10.1007/s12010-013-0419-4>

Citácie:

1. [1.1] LISDAT, Fred. PQQ-GDH Structure, function and application in bioelectrochemistry. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2020, vol. 134, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107496>, Registrované v: WOS

2. [1.1] OH, Yu-Ri - JANG, Young-Ah - HONG, Soon Ho - EOM, Gyeong Tae. Purification and Characterization of a Malate:Quinone Oxidoreductase from *Pseudomonas taetrolens* Capable of Producing Valuable Lactobionic Acid. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2020, vol. 68, no. 47, pp. 13770-13778. Dostupné na:

- ADCA564 <https://doi.org/10.1021/acs.jafc.0c04094>., Registrované v: WOS
 SUCHÁNKOVÁ, Magda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MAJER, Ivan - TEDLOVÁ, Eva - NOVOSADOVÁ, Helena - TIBENSKÁ, Elena - TEDLA, Miroslav. Increased antifungal antibodies in bronchoalveolar lavage fluid and serum in pulmonary sarcoidosis. In Scandinavian Journal of Immunology, 2015, vol. 81, p. 259-264. (2014: 1.739 - IF, Q4 - JCR, 0.901 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0300-9475. Dostupné na: <https://doi.org/10.1111/sji.12273>
 Citácie:
 1. [1.1] HWANG, De-Kuang - SHEU, Shwu-Jiuan. An update on the diagnosis and management of ocular sarcoidosis. In CURRENT OPINION IN OPHTHALMOLOGY. ISSN 1040-8738, 2020, vol. 31, no. 6, pp. 521-531. Dostupné na: <https://doi.org/10.1097/ICU.0000000000000704>., Registrované v: WOS
 2. [1.1] JUDSON, Marc A. Environmental Risk Factors for Sarcoidosis. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fimmu.2020.01340>., Registrované v: WOS
 3. [1.1] ROSSIDES, Marios - KULLBERG, Susanna - ASKLING, Johan - EKLUND, Anders - GRUNEWALD, Johan - DI GIUSEPPE, Daniela - ARKEMA, Elizabeth V. Are infectious diseases risk factors for sarcoidosis or a result of reverse causation? Findings from a population-based nested case-control study. In EUROPEAN JOURNAL OF EPIDEMIOLOGY. ISSN 0393-2990, 2020, vol. 35, no. 11, pp. 1087-1097. Dostupné na: <https://doi.org/10.1007/s10654-020-00611-w>., Registrované v: WOS
- ADCA565 SULOVÁ, Zdena - BARAN, Richard - FARKAŠ, Vladimír. Release of complexed xyloglucan endotransglycosylase (XET) from plant cell walls by a transglycosylation reaction with xyloglucan-derived oligosaccharides. In Plant Physiology and Biochemistry, 2001, vol. 39, p. 927-932. ISSN 0981-9428. Dostupné na: [https://doi.org/10.1016/S0981-9428\(01\)01313-4](https://doi.org/10.1016/S0981-9428(01)01313-4)
 Citácie:
 1. [1.1] GUO, Xinyu - LIU, Yuankun - ZHANG, Ran - LUO, Jipeng - SONG, Yuchao - LI, Jinxing - WU, Keren - PENG, Liangcai - LIU, Yuying - DU, Yilin - LIANG, Yongchao - LI, Tingqiang. Hemicellulose modification promotes cadmium hyperaccumulation by decreasing its retention on roots in *Sedum alfredii*. In PLANT AND SOIL. ISSN 0032-079X, 2020, vol. 447, no. 1-2, pp. 241-255. Dostupné na: <https://doi.org/10.1007/s11104-019-04339-9>., Registrované v: WOS
- ADCA566 SULOVÁ, Zdena - LEDNICKA, M. - FARKAŠ, Vladimír. A colorimetric assay for xyloglucan-endotransglycosylase from germinating-seeds. In Analytical Biochemistry, 1995, vol. 229, issue 1, p. 80-85. ISSN 0003-2697. Dostupné na: <https://doi.org/10.1006/abio.1995.1381>
 Citácie:
 1. [1.1] JIANG, Yan - LI, Yuhua - LU, Chen - TANG, Yanni - JIANG, Xiangning - GAI, Ying. Isolation and characterization of *Populus* xyloglucan endotransglycosylase/hydrolase (XTH) involved in osmotic stress responses. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1277-1287. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.11.099>., Registrované v: WOS
 2. [1.1] MORALES-QUINTANA, Luis - BELTRAN, Dina - MENDEZ-YANEZ, Angela - VALENZUELA-RIFFO, Felipe - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria. Characterization of FcXTH2, a Novel Xyloglucan Endotransglycosylase/Hydrolase Enzyme of Chilean Strawberry with Hydrolase

- Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 9, pp. Dostupné na: <https://doi.org/10.3390/ijms21093380>., Registrované v: WOS*
3. [1.1] STRATILOVA, Barbora - KOZMON, Stanislav - STRATILOVA, Eva - HRMOVA, Maria. *Plant Xyloglucan Xyloglucosyl Transferases and the Cell Wall Structure: Subtle but Significant. In MOLECULES, 2020, vol. 25, no. 23, pp. Dostupné na: <https://doi.org/10.3390/molecules25235619>., Registrované v: WOS*
- ADCA567 SUSHYTSKYI, Leonid** - LUKÁČ, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVÁ, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - ČOPÍKOVÁ, Jana - KAŠTÁNEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga *Parachlorella kessleri* HY1 (Chlorellaceae). In *Carbohydrate Polymers*, 2020, vol. 246, art. no. 116588 [11] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116588>
- Citácie:
1. [1.1] MO';O, Faradila Ratu Cindana - WILAR, Gofarana - DEVKOTA, Hari Prasad - WATHONI, Nasrul. *Ulvan, a Polysaccharide from Macroalga Ulvasp.: A Review of Chemistry, Biological Activities and Potential for Food and Biomedical Applications. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 16, pp. Dostupné na: <https://doi.org/10.3390/app10165488>., Registrované v: WOS*
2. [1.1] YUAN, Qingxia - LI, Hong - WEI, Ziyi - LV, Kunling - GAO, Chenghai - LIU, Yonghong - ZHAO, Longyan. *Isolation, structures and biological activities of polysaccharides from Chlorella: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 163, no., pp. 2199-2209. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.080>., Registrované v: WOS*
- ADCA568 SYNYTSYA, Andriy - CHOI, Doo Jin - POHL, Radek - NA, Ye Seul - CAPEK, Peter - LATTOVÁ, Erika - TAUBNER, Tomáš - CHOI, Ji Won - LEE, Chang Won - PARK, Jae Kweon - KIM, Woo Jung - KIM, Sung Min - LEE, Jisun - PARK, Yong Il. Structural features and anti-coagulant activity of the sulphated polysaccharide SPS-CF from a green alga *Capsosiphon fulvescens*. In *Marine Biotechnology*, 2015, vol. 17, p. 718-735. (2014: 3.269 - IF, Q1 - JCR, 1.157 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1436-2228. Dostupné na: <https://doi.org/10.1007/s10126-015-9643-y>
- Citácie:
1. [1.1] BAILLY, Christian - HECQUET, Paul-Emile - KOUACH, Mostafa - THURU, Xavier - GOOSSENS, Jean-Francois. *Chemical reactivity and uses of 1-phenyl-3-methyl-5-pyrazolone (PMP), also known as edaravone. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2020, vol. 28, no. 10, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115463>., Registrované v: WOS*
2. [1.1] KUZNETSOVA, Tatyana A. - ANDRYUKOV, Boris G. - BESEDNOVA, Natalia N. - ZAPOROZHETS, Tatyana S. - KALININ, Andrey V. *Marine Algae Polysaccharides as Basis for Wound Dressings, Drug Delivery, and Tissue Engineering: A Review. In JOURNAL OF MARINE SCIENCE AND ENGINEERING, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/jmse8070481>., Registrované v: WOS*
- ADCA569 SZU, S.C. - BYSTRICKÝ, Slavomír - HINOJOSA-AHUMADA, M. - EGAN, W. - ROBBINS, J.B. Synthesis and some immunological properties of an O-acetyl pectin (poly(1-4)-alfa-D-galpA)-protein conjugate as a vaccine for typhoid-fever. In *Infection and Immunity*, 1994, p. 5545-5549, vol. 62. ISSN 0019-9567.

Citácie:

1. [1.1] MICOLI, Francesca - BJARNARSON, Stefania P. - ARCURI, Melissa - PIND, Audur Anna Aradottir - MAGNUSDOTTIR, Gudbjorg J. - NECCHI, Francesca - DI BENEDETTO, Roberta - CARDUCCI, Martina - SCHIAVO, Fabiola - GIANNELLI, Carlo - PISONI, Ivan - MARTIN, Laura B. - DEL GIUDICE, Giuseppe - MACLENNAN, Calman A. - RAPPUOLI, Rino - JONSDOTTIR, Ingileif - SAUL, Allan. Short Vi-polysaccharide abrogates T-independent immune response and hyporesponsiveness elicited by long Vi-CRM197 conjugate vaccine. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 39, pp. 24443-24449. Dostupné na:

<https://doi.org/10.1073/pnas.2005857117>, Registrované v: WOS

ADCA570 ŠAMSULOVA, Veronika - POLÁKOVÁ, Monika** - HORÁK, Radim - ŠEDIVÁ, Mária - KVAPIL, Lubomír - HRADIL, Pavel. Synthetic approach to novel glycosyltriazole-3-hydroxyquinolone conjugate and their antimicrobial properties. In Journal of Molecular Structure, 2019, vol. 1177, p. 16-25. (2018: 2.120 - IF, Q3 - JCR, 0.434 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-2860. Dostupné na: <https://doi.org/10.1016/j.molstruc.2018.09.030>

Citácie:

1. [1.1] FILALI BABA, Yassir - GOKCE, Halil - KANDRI RODI, Youssef - HAYANI, Sonia - OUZZANI CHAHDI, Fouad - BOUKIR, Abdellatif - JASINSKI, Jerry P. - KAUR, Manpreet - HOKELEK, Tuncer - KHEIRA SEBBAR, Nada - MOKHTAR ESSASSI, El. Syntheses of novel 2-oxo-1,2-dihydroquinoline derivatives: Molecular and crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies and density functional theory calculations. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1217, no., pp. Dostupné na:

<https://doi.org/10.1016/j.molstruc.2020.128461>, Registrované v: WOS

2. [1.1] FILALI BABA, Yassir - GOKCE, Halil - KANDRI RODI, Youssef - HAYANI, Sonia - OUZZANI CHAHDI, Fouad - BOUKIR, Abdellatif - JASINSKI, Jerry P. - KAUR, Manpreet - HOKELEK, Tuncer - KHEIRA SEBBAR, Nada - MOKHTAR ESSASSI, El. Syntheses of novel 2-oxo-1,2-dihydroquinoline derivatives: Molecular and crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies and density functional theory calculations. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2020, vol. 1217, no., pp., Registrované v: WOS

ADCA571 ŠEDIVÁ, Mária - LAHO, Maroš - KOHUTOVÁ, Lenka - MOJŽISOVÁ, Andrea - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. 10-HDA, a major fatty acid of royal jelly, exhibits pH dependent growth-inhibitory activity against different strains of Paenibacillus larvae. In Molecules, 2018, vol. 23, iss. 12, art. no. 3236, 14 p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na:

<https://doi.org/10.3390/molecules23123236>

Citácie:

1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2, 382., Registrované v: WOS

2. [1.1] BALAN, A. - MOGA, M.A. - DIMA, L. - TOMA, S. - NECULAU, A.E. - ANASTASIU, C.V. Royal Jelly-A Traditional and Natural Remedy for Postmenopausal Symptoms and Aging-Related Pathologies. In MOLECULES. JUL 2020, vol. 25, no. 14, 3291., Registrované v: WOS

3. [1.1] DE LEON-DOOR, A.P. - PEREZ-ORDONEZ, G. - ROMO-CHACON, A. - RIOS-VELASCO, C. - ORNELAS-PAZ, J.D.J. - ZAMUDIO-FLORES, P.B. - ACOSTA-MUNIZ, C.H. PATHOGENESIS, EPIDEMIOLOGY AND VARIANTS OF MELISSOCOCCUS PLUTONIUS (EX WHITE), THE CAUSAL AGENT OF EUROPEAN FOULBROOD. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, DEC 2020, vol. 64, no. 2, p. 173-188., Registrované v: WOS
4. [1.1] MOLINE, M.D. - FERNANDEZ, N.J. - DAMIANI, N. - CHURIO, M.S. - GENDE, L.B. The effect of diet on Apis mellifera larval susceptibility to Paenibacillus larvae. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, OCT 19 2020, vol. 59, no. 5, p. 817-824., Registrované v: WOS
5. [1.1] TASDOGAN, A.M. - KILIC, E.T. - PANCAR, Z. - OZDAL, M. A folk remedy: royal jelly improves lung capacity in smokers. In PROGRESS IN NUTRITION. ISSN 1129-8723, MAR 2020, vol. 22, no. 1, p. 297-303., Registrované v: WOS

ADCA572 ŠESTÁK, Sergej - BELLA, Maroš - KLUNDA, Tomáš - GURSKÁ, Soňa - DŽUBÁK, Petr - WOLS, Florian - WILSON, Iain B.H. - SLÁDEK, Vladimír - HAJDÚCH, Marián - POLÁKOVÁ, Monika** - KÓŇA, Juraj**. N-benzyl substitution of polyhydroxypyrrolidines: The way to selective inhibitors of Golgi alfa-mannosidase II. In ChemMedChem, 2018, vol. 13, p. 373-383. (2017: 3.009 - IF, Q2 - JCR, 1.137 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1860-7179. Dostupné na: <https://doi.org/10.1002/cmdc.201700607>
Citácie:

1. [1.1] LI, Chenglong - GUO, Linjie - CHEN, Fan - YU, Weiming - RAO, Ting - RUAN, Yuan. Golgi Alpha-Mannosidase II as a Novel Biomarker Predicts Prognosis in Clear Cell Renal Cell Carcinoma. In ONCOLOGY RESEARCH AND TREATMENT. ISSN 2296-5270, 2020, vol. 43, no. 6, pp. 264-274. Dostupné na: <https://doi.org/10.1159/000505931>., Registrované v: WOS
2. [1.1] WOOD, Adam - BERNHARDT, Paul - VAN ALTENA, Ian - SIMONE, Michela. Crystal structure of 6-azido-6-deoxy-1,2-O-iso-propylidene-alpha-D-glucofuranose. In ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS. ISSN 2056-9890, 2020, vol. 76, no., pp. 1653-+. Dostupné na: <https://doi.org/10.1107/S2056989020012438>., Registrované v: WOS
3. [1.1] YANG, Lin-Feng - SHIMADATE, Yuna - KATO, Atsushi - LI, Yi-Xian - JIA, Yue-Mei - FLEET, George W. J. - YU, Chu-Yi. Synthesis and glycosidase inhibition of N-substituted derivatives of 1,4-dideoxy-1,4-imino-d-mannitol (DIM). In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 5, pp. 999-1011. Dostupné na: <https://doi.org/10.1039/c9ob02029b>., Registrované v: WOS

ADCA573 ŠIMKOVIČ, Ivan - LASZLO, J.A. - THOMPSON, A.R. Preparation of weakly basic ion exchanger by crosslinking starch with epichlorohydrin in the presence of NH₄OH. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 1996, vol. 30, p. 25-30. ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(96\)00060-4](https://doi.org/10.1016/S0144-8617(96)00060-4)

Citácie:

1. [1.1] GAO, Xiangpeng - GUO, Cheng - HAO, Junjie - ZHAO, Zhuo - LONG, Hongming - LI, Mingyang. Adsorption of heavy metal ions by sodium alginate based adsorbent-a review and new perspectives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 4423-4434. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.09.046>., Registrované v: WOS
2. [1.1] KEMIN, Lionel Victor - CHIN, Suk-Fun. Amino-starch Nanoparticles as

- ADCA574 *Controlled Release Nanocarriers for Curcumin. In JOURNAL OF PHYSICAL SCIENCE. ISSN 1675-3402, 2020, vol. 31, no. 2, pp. 1-14. Dostupné na: <https://doi.org/10.21315/jps2020.31.2.1>, Registrované v: WOS*
- ŠIMKOVIC, Ivan - DLAPA, P. - DOERR, S.H. - MATAIX-SOLERA, J. - SASINKOVÁ, Vlasta. Thermal destruction of soil water repellency and associated changes to soil organic matters as observed by FTIR spectroscopy. In CATENA, 2008, vol.74, p. 205-211. (2007: 1.346 - IF, Q2 - JCR, 0.897 - SJR, Q1 - SJR). ISSN 0341-8162. Dostupné na: <https://doi.org/10.1016/j.catena.2008.03.003>
- Citácie:
1. [1.1] CHEN, Jingjing - MCGUIRE, Kevin J. - STEWART, Ryan D. Effect of soil water-repellent layer depth on post-wildfire hydrological processes. In HYDROLOGICAL PROCESSES. ISSN 0885-6087, 2020, vol. 34, no. 2, pp. 270-283. Dostupné na: <https://doi.org/10.1002/hyp.13583>, Registrované v: WOS
 2. [1.1] CHEN, Jingjing - PANGLE, Luke A. - GANNON, John P. - STEWART, Ryan D. Soil water repellency after wildfires in the Blue Ridge Mountains, United States. In INTERNATIONAL JOURNAL OF WILDLAND FIRE. ISSN 1049-8001, 2020, vol. 29, no. 11, pp. 1009-1020. Dostupné na: <https://doi.org/10.1071/WF20055>, Registrované v: WOS
 3. [1.1] COMINO, Francisco - ARANDA, Victor - DOMINGUEZ-VIDAL, Ana - AYORA-CANADA MARIA, Jose. Improvement of quality and agronomic properties of raw organic amendment mixtures by thermal treatment. In JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT. ISSN 1438-4957, 2020, vol. 22, no. 1, pp. 159-166. Dostupné na: <https://doi.org/10.1007/s10163-019-00923-4>, Registrované v: WOS
 4. [1.1] LIU, Junguang - LIU, Lingling - SHU, Yuehong - JIANG, Shaojun - HUANG, Renlong - JIA, Zhenzhen - WEI, Dongyang. Effect of ageing process on bisphenol A sorption and retention in agricultural soils amended with biochar. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 14, pp. 17401-17411. Dostupné na: <https://doi.org/10.1007/s11356-020-08330-1>, Registrované v: WOS
 5. [1.1] NASONOVA, Alla - LEVY, Guy J. - BORISOVER, Mikhail. Bulk and water-extractable organic matter from compost: evaluation of the selective dissolution in water using infrared absorbance ratios. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2020, vol. 27, no. 34, pp. 42644-42655. Dostupné na: <https://doi.org/10.1007/s11356-020-10153-z>, Registrované v: WOS
 6. [1.1] RAKHMATULINA, Ekaterina - THOMPSON, Sally. Freeze-thaw processes degrade post-fire water repellency in wet soils. In HYDROLOGICAL PROCESSES. ISSN 0885-6087, 2020, vol. 34, no. 26, pp. 5229-5241. Dostupné na: <https://doi.org/10.1002/hyp.13931>, Registrované v: WOS
 7. [1.1] TAN, Lianshuai - SUN, Cengceng - WANG, Ying - WANG, Tongtong - WU, Gao-Lin - HE, Honghua - ZHENG, Jiyong. Changes in biochar properties in typical loess soil under a 5-year field experiment. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, 2020, vol. 20, no. 1, pp. 340-351. Dostupné na: <https://doi.org/10.1007/s11368-019-02398-0>, Registrované v: WOS
 8. [1.1] WU, Yichen - ZHANG, Nan - SLATER, Greg - WADDINGTON, James Michael - DE LANNOY, Charles-Francois. Hydrophobicity of peat soils: Characterization of organic compound changes associated with heat-induced water repellency. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2020, vol. 714, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2019.136444>, Registrované v: WOS

- ADCA575 ŠIMKOVIC, Ivan - KELNAR, Ivan - MENDICHI, Raniero - BERTÓK, Tomáš - FILIP, Jaroslav. Composite films prepared from agricultural by-products. In Carbohydrate Polymers, 2017, vol. 156, p. 77-85. (2016: 4.811 - IF, Q1 - JCR, 1.419 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.09.014>
Citácie:
1. [1.1] SASIMOWSKI, Emil - MAJEWSKI, Lukasz - GROCHOWICZ, Marta. Analysis of Selected Properties of Biocomposites Based on Polyethylene with a Natural Origin Filler. In MATERIALS, 2020, vol. 13, no. 18, pp. Dostupné na: <https://doi.org/10.3390/ma13184182>., Registrované v: WOS
- ADCA576 ŠIMKOVIC, Ivan - JAKAB, E. Thermogravimetry/mass spectrometry study of weakly basic starch-based ion exchanger. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2001, vol. 45, p. 53-59. (2000: 1.184 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(00\)00230-7](https://doi.org/10.1016/S0144-8617(00)00230-7)
Citácie:
1. [1.1] HASSAN, M. M. - TUCKER, N. - LE GUEN, M. J. Thermal, mechanical and viscoelastic properties of citric acid-crosslinked starch/cellulose composite foams. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 230, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2019.115675>., Registrované v: WOS
- ADCA577 ŠIMKOVIC, Ivan - KELNAR, Ivan - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - MANDALIKA, Anurag - ELDER, Thomas. Carboxymethylated-, hydroxypropylsulfonated- and quaternized xylan derivative films. In Carbohydrate Polymers, 2014, vol. 110, p. 464-471. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2014.04.055>
Citácie:
1. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-ming - PAL, Lokendra - FORD, Ericka. Carboxymethylation of hemicellulose isolated from poplar (Populus grandidentata) and its potential in water-soluble oxygen barrier films. In CELLULOSE. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3359-3377. Dostupné na: <https://doi.org/10.1007/s10570-020-02993-2>., Registrované v: WOS
2. [1.1] MARQUEZ-ESCALANTE, Jorge A. - RASCON-CHU, Agustin - CARNPA-MADA, Alma - MARTINEZ-ROBINSON, Karla G. - CARVAJAL-MILLAN, Elizabeth. Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2020, vol. 137, no. 5, pp. Dostupné na: <https://doi.org/10.1002/app.48325>., Registrované v: WOS
- ADCA578 ŠIMKOVIC, Ivan - ŠURINA, Igor - MIKULÁŠIK, Radoslav - ORSÁGOVÁ, Anna - HÁZ, Aleš - SCHWARZINGER, Clemens. Evaluation of the phytomass source for composite preparation. In Journal of Applied Polymer Science, 2013, vol. 127, p. 508-515. (2012: 1.395 - IF, Q2 - JCR, 0.658 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.37807>
Citácie:
1. [1.1] SLEZAK, Radoslaw - KRZYTEK, Liliana - DZIUGAN, Piotr - LEDAKOWICZ, Stanislaw. Co-Pyrolysis of Beet Pulp and Defecation Lime in TG-MS System. In ENERGIES, 2020, vol. 13, no. 9, pp. Dostupné na: <https://doi.org/10.3390/en13092304>., Registrované v: WOS
- ADCA579 ŠIMKOVIC, Ivan - ŠURINA, I. - VRIČAN, M. Primary reaction of sucrose thermal

degradation. In *Journal of Analytical and Applied Pyrolysis*, 2003, vol. 70, p. 493-504. ISSN 0165-2370. Dostupné na: [https://doi.org/10.1016/S0165-2370\(03\)00007-X](https://doi.org/10.1016/S0165-2370(03)00007-X)

Citácie:

1. [1.1] *CHKHARTISHVILI, L. - MIKELADZE, A. - CHEDIA, R. - TSAGAREISHVILI, O. - BARBAKADZE, N. - SARAJISHVILI, K. - DARCHIASHVILI, M. - UGREKHELIDZE, V - KORKIA, T. Synthesizing fine-grained powders of complex compositions B4C-TiB2-WC-Co. In SOLID STATE SCIENCES. ISSN 1293-2558, 2020, vol. 108, no., pp. Dostupné na: <https://doi.org/10.1016/j.solidstatesciences.2020.106439>, Registrované v: WOS*
2. [1.1] *HOU, Feina - MU, Taihua - MA, Mengmei - BLECKER, Christophe. Sensory evaluation of roasted sweet potatoes influenced by different cultivars: A correlation study with respect to sugars, amino acids, volatile compounds, and colors. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2020, vol. 44, no. 9, pp. Dostupné na: <https://doi.org/10.1111/jfpp.14646>, Registrované v: WOS*
3. [1.1] *LI, Ye - LIANG, Jun - SHEN, Yu - KUANG, Hai-Xue - XIA, Yong-Gang. A new application of acetylation for analysis of acidic heteropolysaccharides by liquid chromatography-electrospray mass spectrometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 245, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116439>, Registrované v: WOS*

ADCA580 ŠIMKOVIČ, Ivan - SYNYTSYA, Andriy - UHĽIARIKOVÁ, Iveta - ČOPÍKOVÁ, J. Amidated pectin derivatives with n-propyl-, 3-aminopropyl-, 3-propanol- or 7-aminoheptyl-substituent. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2009, vol. 76, s. 602-606. (2008: 2.644 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.11.022>

Citácie:

1. [1.1] *CHEN, Jun - NIU, Xiaoqin - DAI, Taotao - HUA, Hui - FENG, Sijie - LIU, Chengmei - MCCLEMENTS, David Julian - LIANG, Ruihong. Amino acid-amidated pectin: Preparation and characterization. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 309, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2019.125768>, Registrované v: WOS*
2. [1.1] *LIANG, Rui-hong - LI, Ya - HUANG, Li - WANG, Xue-dong - HU, Xiaoxue - LIU, Cheng-mei - CHEN, Ming-shun - CHEN, Jun. Pb²⁺ adsorption by ethylenediamine-modified pectins and their adsorption mechanisms. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115911>, Registrované v: WOS*

ADCA581 ŠIMKOVIČ, Ivan - WHITE, Robert, H. - FULLER, Anne, M. Flammability studies of impregnated paper sheets. In *Journal of Thermal Analysis and Calorimetry*, 2012, vol. 107, p. 519-526. (2011: 1.604 - IF, Q3 - JCR, 0.532 - SJR, Q2 - SJR). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-011-1690-7>

Citácie:

1. [1.1] *ZHANG, X. J. - ZHAO, H. F. - SHA, L. Z. - LI, J. - LI, Y. - MA, C. - HU, H. W. TERNARY FLAME RETARDANT SYSTEM OF AMMONIUM POLYPHOSPHATE-DIATOMITE-NANO-SiO₂ AND ITS APPLICATION IN FIBROUS MATERIALS. In DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES. ISSN 1842-3582, 2020, vol. 15, no. 1, pp. 85-92., Registrované v: WOS*

ADCA582 ŠIMKOVIČ, Ivan - TRACZ, Adam - KELNAR, Ivan - UHĽIARIKOVÁ, Iveta - MENDICHI, Raniero. Quaternized and sulfated xylan derivative films. In

Carbohydrate Polymers, 2014, vol. 99, p. 356-364. (2013: 3.916 - IF, Q1 - JCR, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.08.075>

Citácie:

1. [1.1] ZEMPLJIC, Lidija Fras - DIMITRUSEV, Nena - ZAPLOTNIK, Rok - STRNAD, Simona. *Insights into Adsorption Characterization of Sulfated Xylans onto Poly(ethylene terephthalate)*. In POLYMERS, 2020, vol. 12, no. 4, pp.

Dostupné na: <https://doi.org/10.3390/polym12040825>, Registrované v: WOS

ADCA583

ŠIMKOVIC, Ivan - MLYNÁR, Juraj - ALFOLDI, Juraj. Modification of corn cob meal with quaternary ammonium groups. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides. - Oxford : Elsevier, 1992, vol. 17, p. 285-288. ISSN 0144-8617.

Citácie:

1. [1.1] TYAGI, Rakhi - SHARMA, Pradeep - NAUTIYAL, Raman - LAKHERA, Ajeet K. - KUMAR, Vineet. *Synthesis of quaternised guar gum using Taguchi L-(16) orthogonal array*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 237, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116136>, Registrované v: WOS

ADCA584

ŠIMKOVIC, Ivan - MENDRICHI, R. - UHLIARIKOVÁ, Iveta. Modification of polygalacturonic acid hydroxyls with trimethylammonium-and/or sulfonate-2-hydroxypropyl group. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2008, vol. 74, p. 611-616. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.04.024>

Citácie:

1. [1.1] VALARIKOVA, Jana - CIZOVA, Alzbeta - RACKOVA, Lucia - BYSTRICKY, Slavomir. *Anti-staphylococcal activity of quaternized mannan from the yeast Candida albicans*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 240, no., pp. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2020.116288>, Registrované v: WOS

ADCA585

ŠIMKOVIC, Ivan - MLYNÁR, Juraj - ALFOLDI, Juraj - MICKO, M.M. New aspects in cationization of lignocellulose materials. 11. Modification of bagasse with quaternary ammonium groups. In Holzforschung, 1990, vol. 44, p. 113-116. ISSN 0018-3830. Dostupné na: <https://doi.org/10.1515/hfsg.1990.44.2.113>

Citácie:

1. [1.1] JAMAL, Nahi - RADHAKRISHNAN, Asha - RAGHAVAN, Raveendran - BHASKARAN, Beena. *Efficient photocatalytic degradation of organic dye from aqueous solutions over zinc oxide incorporated nanocellulose under visible light irradiation*. In MAIN GROUP METAL CHEMISTRY. ISSN 0792-1241, 2020, vol. 43, no. 1, pp. 84-91. Dostupné na: <https://doi.org/10.1515/mgmc-2020-0009>, Registrované v: WOS

ADCA586

ŠIMKOVIC, Ivan. What could be greener than composites made from polysaccharides? In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2008, vol. 74, p. 759-762. (2007: 1.782 - IF, Q2 - JCR, 0.889 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2008.07.009>

Citácie:

1. [1.1] BASAK, Sayan. *A Reflection on the Modern Fuel Cells Based on Chitosan and Alginate Reinforced Biomembranes*. In RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1990-7931, 2020, vol. 14, no. 3, pp. 450-456. Dostupné na: <https://doi.org/10.1134/S1990793120030021>, Registrované v: WOS
2. [1.1] CHI, Kai - WANG, Hui - CATCHMARK, Jeffrey M. *Sustainable starch-*

- based barrier coatings for packaging applications. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2020, vol. 103, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodhyd.2020.105696>., Registrované v: WOS*
3. [1.1] DE SOUSA, Ana K. A. - RIBEIRO, Fabio O. S. - DE OLIVEIRA, Taiane M. - DE ARAUJO, Alyne R. - DIAS, Jhones do N. - ALBUQUERQUE, Patricia - SILVA-PEREIRA, Ildinete - DE JESUS OLIVEIRA, Antonia C. - QUELEMES, Patrick V. - LEITE, Jose R. S. A. - DA SILVA, Durcilene A. Quaternization of angico gum and evaluation of anti-staphylococcal effect and toxicity of their derivatives. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 1175-1183. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.126>., Registrované v: WOS
4. [1.1] NOREEN, Aqdas - ZIA, Khalid Mahmood - TABASUM, Shazia - KHALID, Sana - SHAREEF, Rahila. A review on grafting of hydroxyethylcellulose for versatile applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 150, no., pp. 289-303. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.01.265>., Registrované v: WOS
5. [1.1] ZHANG, Xihe - ZHOU, Juan - YING, Huiyan - ZHOU, Yuting - LAI, Jiahui - CHEN, Jinghua. Glycogen as a Cross-Linking Agent of Collagen and Nanohydroxyapatite To Form Hydrogels for bMSC Differentiation. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 4, pp. 2106-2114. Dostupné na: <https://doi.org/10.1021/acssuschemeng.9b07051>., Registrované v: WOS

ADCA587 ŠIMKOVIČ, Ivan. Unexplored possibilities of all-polysaccharide composites. In Carbohydrate Polymers, 2013, vol. 95, p. 697-715. (2012: 3.479 - IF, Q1 - JCR, 1.394 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2013.03.040>

Citácie:

1. [1.1] BULATOVIC, Vesna Ocelic - JAKIC, Mice - GRGIC, Dajana Kucic. Kinetic Analysis of Poly(epsilon-caprolactone)/poly(lactic acid) Blends with Low-cost Natural Thermoplastic Starch. In ACTA CHIMICA SLOVENICA. ISSN 1318-0207, 2020, vol. 67, no. 2, pp. 651-665. Dostupné na: <https://doi.org/10.17344/acsi.2019.5676>., Registrované v: WOS
2. [1.1] CHEN, Pei - XIE, Fengwei - TANG, Fengzai - MCNALLY, Tony. Unexpected Plasticization Effects on the Structure and Properties of Polyelectrolyte Complexed Chitosan/Alginate Materials. In ACS APPLIED POLYMER MATERIALS. ISSN 2637-6105, 2020, vol. 2, no. 7, pp. 2957-2966. Dostupné na: <https://doi.org/10.1021/acsapm.0c00433>., Registrované v: WOS
3. [1.1] KELNAR, Ivan - ZHIGUNOV, Alexander - KAPRALOV, Ludmila - KREJCIKOVA, Sabina - DYBAL, Jiri. Synergistic effects in Methylcellulose/Hydroxyethylcellulose blend: Influence of components ratio and graphene oxide. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 236, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116077>., Registrované v: WOS
4. [1.1] MARCUELLO, Carlos - FOULON, Laurence - CHABBERT, Brigitte - AGUIE-BEGHIN, Veronique - MOLINARI, Michael. Atomic force microscopy reveals how relative humidity impacts the Young's modulus of lignocellulosic polymers and their adhesion with cellulose nanocrystals at the nanoscale. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 147, no., pp. 1064-1075. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.074>., Registrované v: WOS

5. [1.1] MOSTAFAVI, Fatemeh Sadat - ZAEIM, Davood. Agar-based edible films for food packaging applications A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 159, no., pp. 1165-1176. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.05.123>., Registrované v: WOS
 6. [1.1] SCOGNAMIGLIO, Fabrizio - GATTIA, Daniele Mirabile - ROSELLI, Graziella - PERSIA, Franca - DE ANGELIS, Ugo - SANTULLI, Carlo. Thermoplastic Starch (TPS) Films Added with Mucilage from *Opuntia Ficus Indica*: Mechanical, Microstructural and Thermal Characterization. In *MATERIALS*, 2020, vol. 13, no. 4, pp. Dostupné na: <https://doi.org/10.3390/ma13041000>., Registrované v: WOS
 7. [1.1] STANESCU, Marius Marinel - BOLCU, Dumitru. A Study of Some Mechanical Properties of Composite Materials with a Dammar-Based Hybrid Matrix and Reinforced by Waste Paper. In *POLYMERS*, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081688>., Registrované v: WOS
 8. [1.1] VINCENT, Thierry - VINCENT, Chloe - DUMAZERT, Loic - OTAZAGHINE, Belkacem - SONNIER, Rodolphe - GUIBAL, Eric. Fire behavior of innovative alginate foams. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116910>., Registrované v: WOS
 9. [1.1] YANG, Yu - KHAN, Bilal Muhammad - ZHANG, Xiping - ZHAO, Yongjie - CHEONG, Kit-Leong - LIU, Yang. Advances in Separation and Purification of Bioactive Polysaccharides through High-speed Counter-Current Chromatography. In *JOURNAL OF CHROMATOGRAPHIC SCIENCE*. ISSN 0021-9665, 2020, vol. 58, no. 10, pp. 992-1000. Dostupné na: <https://doi.org/10.1093/chromsci/bmaa063>., Registrované v: WOS
- ADCA588 ŠIMKOVIC, Ivan. TG/DTG/DTA evaluation of flame retarded cotton fabrics and comparison to cone calorimeter data. In *Carbohydrate Polymers*, 2012, vol. 90, p. 976-981. (2011: 3.628 - IF, Q1 - JCR, 1.291 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2012.06.030>
- Citácie:
1. [1.1] TANG, Hao - ZHOU, Hong. A novel nitrogen, phosphorus, and boron ionic pair compound toward fire safety and mechanical enhancement effect for epoxy resin. In *POLYMERS FOR ADVANCED TECHNOLOGIES*. ISSN 1042-7147, 2020, vol. 31, no. 4, pp. 885-897. Dostupné na: <https://doi.org/10.1002/pat.4823>., Registrované v: WOS
 2. [1.1] WAN, Caiyan - ZHANG, Guangxian - ZHANG, Fengxiu. A novel guanidine ammonium phosphate for preparation of a reactive durable flame retardant for cotton fabric. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 6, pp. 3469-3483. Dostupné na: <https://doi.org/10.1007/s10570-020-03003-1>., Registrované v: WOS
- ADCA589 ŠIMKOVIC, Ivan. Flame retarded composite panels from sugar beet residues. In *Journal of Thermal Analysis and Calorimetry*, 2012, vol. 109, p. 1445-1455. ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-011-1879-9>
- Citácie:
1. [1.1] WANG, Wenjia - GUO, Jia - LIU, Xiaodong - LI, Hongfei - SUN, Jun - GU, Xiaoyu - WANG, Julin - ZHANG, Sheng - LI, Wei. Constructing eco-friendly flame retardant coating on cotton fabrics by layer-by-layer self-assembly. In *CELLULOSE*. ISSN 0969-0239, 2020, vol. 27, no. 9, pp. 5377-5389. Dostupné na: <https://doi.org/10.1007/s10570-020-03140-7>., Registrované v: WOS
- ADCA590 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - ŠOLTÉS, Ladislav - MENDICHI, Raniero

- COSENTINO, C. Preparation of water-soluble/insoluble derivatives of hyaluronic acid by cross-linking with epichlorohydrin in aqueous NaOH/NH₄OH solution. In Carbohydrate Polymers, 2000, vol. 41, p. 9-14. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617. Dostupné na: [https://doi.org/10.1016/S0144-8617\(99\)00061-2](https://doi.org/10.1016/S0144-8617(99)00061-2)

Citácie:

1. [1.1] LINK, J.M. - SALINAS, E.Y. - HU, J.C. - ATHANASIOU, K.A. The tribology of cartilage: Mechanisms, experimental techniques, and relevance to translational tissue engineering. In CLINICAL BIOMECHANICS. ISSN 0268-0033, OCT 2020, vol. 79, SI., Registrované v: WOS
2. [1.1] SEDLACEK, J. - HERMANNOVA, M. - SATINSKY, D. - VELEBNY, V. Current analytical methods for the characterization of N-deacetylated hyaluronan: A critical review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, DEC 1 2020, vol. 249, art. no. 116720., Registrované v: WOS

ADCA591 ŠIMKOVIC, Ivan - PASTÝR, J. - CSOMOROVÁ, Katarína - BALOG, K. - MICKO, M.M. Flame Retardancy Effect of Crosslinking of Lignocellulose Materials. In Journal of Applied Polymer Science, 1990, vol. 41, no. 6, p. 1333-1337.

Citácie:

1. [1.1] TABRIZI, A.K. - KHADEMIESLAM, H. - HEMMASI, A.H. - BAZYAR, B. - ATGHIA, S.V. Luffa as a lignocellulosic material for fabrication of a new and green catalyst in promoting of coumarin and bis(indolyl)methane derivatives. In GREEN CHEMISTRY LETTERS AND REVIEWS. ISSN 1751-8253, OCT 1 2020, vol. 13, no. 4, p. 64-76., Registrované v: WOS

ADCA592 ŠIMKOVIC, Ivan - CSOMOROVÁ, Katarína. Thermogravimetric analysis of agricultural residues: Oxygen effect and environmental impact. In Journal of Applied Polymer Science, 2006, vol. 100, no. 2, p. 1318-1322. (2005: 1.072 - IF, Q2 - JCR, 0.778 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.23818>

Citácie:

1. [1.1] AHOUE, Y.S. - CHRISTAMI, M.N.A. - AWAD, S. - PRIADI, C.R. - BABAMOUSA, L. - MOERSIDIK, S.S. - ANDRES, Y. Wet Oxidation Pretreatment Effect for Enhancing Bioethanol Production from Cassava Peels, Water Hyacinth, and Green Algae (Ulva). In 4TH INTERNATIONAL TROPICAL RENEWABLE ENERGY CONFERENCE (I-TREC 2019). ISSN 0094-243X, 2020, vol. 2255., Registrované v: WOS
2. [1.1] CRUZ, G. - SILVA, A.V.S. - DA SILVA, J.B.S. - CALDEIRAS, R.D. - DE SOUZA, M.E.P. Biofuels from oilseed fruits using different thermochemical processes: opportunities and challenges. In BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR. ISSN 1932-104X, MAY 2020, vol. 14, no. 3, p. 696-719., Registrované v: WOS
3. [1.1] SIDDIQI, M.H. - LIU, X.M. - QURESHI, T. - TABISH, A.N. - NAWAZ, S. - IQBAL, T. Performance analysis of bio-fuel blends for clean energy production: Thermogravimetric analysis. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, NOV 10 2020, vol. 273., Registrované v: WOS

ADCA593 ŠIMKOVIC, Ivan - PASTÝR, J. - ANTAL, Miroslav - BALOG, K. - KOŠÍK, M. - PLÁČEK, J. New aspects in cationization of lignocellulose materials. IX. Flame retardancy effect of modification with nitrogen- and sulfur-containing groups. In Journal of Applied Polymer Science, 1987, vol. 33, p. 1057-. ISSN 0021-8995. Dostupné na: <https://doi.org/10.1002/app.1987.070340315>

Citácie:

1. [1.1] NIE, Kangchen - XU, Lulu - QIAN, Temeng - SHEN, Xiaoping - SUN,

Qingfeng. Fabrication of a Robust and Flame-Retardant Alooh-Lignocellulose Composite with a Lotus-Leaf-Like Superhydrophobic Coating. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2020, vol. 40, no. 1, pp. 44-57. Dostupné na: <https://doi.org/10.1080/02773813.2019.1654517>., Registrované v: WOS

- ADCA594 ŠIMŮTH, Jozef - BÍLIKOVÁ, Katarína - KOVÁČOVÁ, Elena - KUZMOVÁ, Z. - SCHRODER, W. Immunochemical Approach to Detection of Adulteration in Honey: Physiologically Active Royal Jelly Protein Stimulating TNF-alpha Release is a Regular Component of Honey. In Journal of agricultural and food chemistry, 2004, vol. 52, p. 2154-2158. (2003: 2.102 - IF). ISSN 0021-8561. Dostupné na: <https://doi.org/10.1021/jf034777y>

Citácie:

1. [1.1] HABASHY, N.H. - ABU-SERIE, M.M. The potential antiviral effect of major royal jelly protein2 and its isoform X1 against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Insight on their sialidase activity and molecular docking. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, DEC 2020, vol. 75., Registrované v: WOS
2. [1.1] TAMAS-KRUMPE, O. - MARGAOAN, R. - BOBIS, O. - LATIU, C. - URCAN, A. - OGNEAN, L. NATURAL HONEY AS A POTENTIAL NUTRACEUTICAL SOURCE (REVIEW). In SCIENTIFIC PAPERS-SERIES D-ANIMAL SCIENCE. ISSN 2285-5750, 2020, vol. 63, no. 1, p. 106-115., Registrované v: WOS
3. [1.1] WANG, X.Y. - DONG, J. - QIAO, J.T. - ZHANG, G.S. - ZHANG, H.C. Purification and characteristics of individual major royal jelly protein 1-3. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, OCT 19 2020, vol. 59, no. 5, p. 1049-1060., Registrované v: WOS

- ADCA595 ŠÍPOŠOVÁ, Kristína - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - VATEHOVÁ, Zuzana, Vatehová**. The effects of IBA on the composition of maize root cell walls. In Journal of Plant Physiology, 2019, vol. 239, p. 10-17. (2018: 2.825 - IF, Q1 - JCR, 1.096 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0176-1617. Dostupné na: <https://doi.org/10.1016/j.jplph.2019.04.004>

Citácie:

1. [1.1] DEMECSOVA, Lorian - ZELINOVA, Veronika - LIPTAKOVA, Lubica - VALENTOVICOVA, Katarina - TAMAS, Ladislav. Indole-3-butyric acid priming reduced cadmium toxicity in barley root tip via NO generation and enhanced glutathione peroxidase activity. In PLANTA. ISSN 0032-0935, 2020, vol. 252, no. 3, pp. Dostupné na: <https://doi.org/10.1007/s00425-020-03451-w>., Registrované v: WOS
2. [1.1] HOU MING - HUO YAN - YANG XINHAN - HE ZHICHENG. Chemical form and subcellular distribution of vanadium in corn seedlings. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 153, no., pp. Dostupné na: <https://doi.org/10.1016/j.microc.2019.104468>., Registrované v: WOS
3. [1.1] KACZMAREK, Damian Krystian - KLEIBER, Tomasz - LIU WENPING - NIEMCZAK, Michal - CHRZANOWSKI, Lukasz - PERNAK, Juliusz. Transformation of Indole-3-butyric Acid into Ionic Liquids as a Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators (vol 8, pg 1591, 2020). In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 11, pp. 4676-4676. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01782>., Registrované v: WOS
4. [1.1] KACZMAREK, Damian Krystian - KLEIBER, Tomasz - LIU WENPING - NIEMCZAK, Michal - CHRZANOWSKI, Lukasz - PERNAK, Juliusz.

Transformation of Indole-3-butyric Acid into Ionic Liquids as a Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 3, pp. 1591-1598. Dostupné na:

<https://doi.org/10.1021/acssuschemeng.9b06378>., Registrované v: WOS 5. [1.1] KHADR, Ahmed - WANG, Guang-Long - WANG, Ya-Hui - ZHANG, Rong-Rong - WANG, Xin-Rui - XU, Zhi-Sheng - TIAN, Yong-Sheng - XIONG, Ai-Sheng. Effects of auxin (indole-3-butyric acid) on growth characteristics, lignification, and expression profiles of genes involved in lignin biosynthesis in carrot taproot. In PEERJ. ISSN 2167-8359, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.7717/peerj.10492>., Registrované v: WOS

- ADCA596 ŠOLTĚS, Ladislav - BREZOVÁ, Vlasta - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter. Degradation of high-molecular-weight hyaluronan by hydrogen peroxide in the presence of cupric ions. In Carbohydrate Research, 2006, vol. 341, no. 5, p. 639 - 644. (2005: 1.669 - IF, Q1 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.01.014>

Citácie:

1. [1.1] JOZEFÍKOVÁ, Flora - PERONTSIS, Spyros - SIMUNKOVÁ, Miriama - BARBIERIKOVÁ, Zuzana - SVORC, L'ubomir - VALKO, Marian - PSOMAS, George - MONCOL, Jan. Novel copper(II) complexes with fenamates and isonicotinamide: structure and properties, and interactions with DNA and serum albumin. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, AUG 7 2020, vol. 44, no. 29, p. 12827-12842., Registrované v: WOS

2. [1.1] TOLOMAN, D. - POPA, A. - STEFAN, M. - SILIPAS, T.D. - SUCIU, R.C. - BARBU-TUDORAN, L. - PANA, O. Enhanced photocatalytic activity of Co doped SnO₂ nanoparticles by controlling the oxygen vacancy states. In OPTICAL MATERIALS. ISSN 0925-3467, DEC 2020, vol. 110., Registrované v: WOS

- ADCA597 ŠOLTĚS, Ladislav - KOGAN, Grigorij - STANKOVSKÁ, Monika - MENDICHI, Raniero - RYCHLÝ, Jozef - SCHILLER, Jürgen - GEMEINER, Peter. Degradation of high-molar-mass hyaluronan and characterization of fragments. In Biomacromolecules, 2007, vol. 8, p. 2697-2705. (2006: 3.664 - IF, Q1 - JCR, 1.868 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/bm070309b>

Citácie:

1. [1.1] JONSSON, P. - ANTTI, H. - SPATH, F. - MELIN, B. - BJORKBLUM, B. Identification of Pre-Diagnostic Metabolic Patterns for Glioma Using Subset Analysis of Matched Repeated Time Points. In CANCERS. NOV 2020, vol. 12, no. 11., Registrované v: WOS

2. [1.1] MULLER-LIERHEIM, W.G.K. Why Chain Length of Hyaluronan in Eye Drops Matters. In DIAGNOSTICS. AUG 2020, vol. 10, no. 8., Registrované v: WOS

3. [1.1] SNETKOV, P. - ZAKHAROVA, K. - MOROZKINA, S. - OLEKHNOVICH, R. - USPENSKAYA, M. Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer. In POLYMERS. AUG 2020, vol. 12, no. 8., Registrované v: WOS

- ADCA598 ŠOLTĚS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter - STERN, Robert. Contribution of oxidative-reductive reactions to high-molecular-weight hyaluronan catabolism. In Chemistry & biodiversity, 2005, vol. 2, no. 9, p.1242-1245. (2005 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200590094>

Citácie:

1. [1.1] BERGEMANN, C. - WALDNER, A.C. - EMMERT, S. - NEBE, J.B. *The Hyaluronan Pericellular Coat and Cold Atmospheric Plasma Treatment of Cells. In APPLIED SCIENCES-BASEL. AUG 2020, vol. 10, no. 15., Registrované v: WOS*
- ADCA599 ŠOLTÉS, Ladislav - VALACHOVÁ, Katarína - MENDICHI, Raniero - KOGAN, Grigorij - ARNHOLD, Juergen - GEMEINER, Peter. Solution properties of high-molar-mass hyaluronans: the biopolymer degradation by ascorbate. In Carbohydrate Research, 2007, vol. 342, p.1071-1077. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.02.018>
- Citácie:
1. [1.1] MUELLER-LIERHEIM, Wolfgang G. K. *Why Chain Length of Hyaluronan in Eye Drops Matters. In DIAGNOSTICS. AUG 2020, vol. 10, no. 8., Registrované v: WOS*
- ADCA600 ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - SCHILLER, Jürgen - STANKOVSKÁ, Monika - AMHOLD, Jürgen. Degradative action of reactive oxygen species on hyaluronan. In Biomacromolecules [seriál], 2006, vol. 7, no. 3, p. 659-668. (2005: 3.618 - IF, Q1 - JCR, 1.665 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1525-7797. Dostupné na: <https://doi.org/10.1021/bm050867v>
- Citácie:
1. [1.1] GEORGIEV, T. *Multimodal approach to intraarticular drug delivery in knee osteoarthritis. In RHEUMATOLOGY INTERNATIONAL. ISSN 0172-8172, NOV 2020, vol. 40, no. 11, p. 1763-1769., Registrované v: WOS*
 2. [1.1] LAZRAK, A. - SONG, W.F. - ZHOU, T. - AGGARWAL, S. - JILLING, T. - GARANTZIOTIS, S. - MATALON, S. *Hyaluronan and halogen-induced airway hyperresponsiveness and lung injury. In ANNALS OF THE NEW YORK ACADEMY OF SCIENCES. ISSN 0077-8923, 2020, vol. 1479, no. 1, SI, p. 29-43., Registrované v: WOS*
 3. [1.1] LIAO, C. - HU, L. - LAN, C. *HASHIMOTO'S THYROIDITIS ASSOCIATED WITH AN EXTRA-THYROIDAL TRIAD OF PRETIBIAL MYXEDEMA, OPHTHALMOPATHY, AND ACROPACHY. In JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS. ISSN 0393-974X, MAY-JUN 2020, vol. 34, no. 3, p. 1085-1090., Registrované v: WOS*
 4. [1.1] MULLER-LIERHEIM, W.G.K. *Why Chain Length of Hyaluronan in Eye Drops Matters. In DIAGNOSTICS. AUG 2020, vol. 10, no. 8., Registrované v: WOS*
 5. [1.1] NANTARAT, N. - MUELLER, M. - LIN, W.C. - LUE, S.C. - VIERNSTEIN, H. - CHANSAKAOW, S. - SIRITHUNYALUG, J. - LEELAPORNPISED, P. *Sesaminol diglucoside isolated from black sesame seed cake and its antioxidant, anti-collagenase and anti-hyaluronidase activities. In FOOD BIOSCIENCE. ISSN 2212-4292, AUG 2020, vol. 36., Registrované v: WOS*
 6. [1.1] RAO, N.V. - RHO, J.G. - UM, W. - EK, P.K. - NGUYEN, V.Q. - OH, B.H. - KIM, W. - PARK, J.H. *Hyaluronic Acid Nanoparticles as Nanomedicine for Treatment of Inflammatory Diseases. In PHARMACEUTICS. 2020, vol. 12, no. 10., Registrované v: WOS*
 7. [1.1] ROWLEY, J.E. - RUBENSTEIN, G.E. - MANUEL, S.L. - JOHNSON, N.L. - SURGNIER, J. - KAPITSINOU, P.P. - DUNCAN, F.E. - PRITCHARD, M.T. *Tissue-specific Fixation Methods Are Required for Optimal In Situ Visualization of Hyaluronan in the Ovary, Kidney, and Liver. In JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY. ISSN 0022-1554, 2020, vol. 68, no. 1, p. 75-91., Registrované v: WOS*

8. [1.1] SAPUDOM, J. - NGUYEN, K.T. - MARTIN, S. - WIPPOLD, T. - MOLLER, S. - SCHNABELRAUCH, M. - ANDEREGG, U. - POMPE, T. *Biomimetic tissue models reveal the role of hyaluronan in melanoma proliferation and invasion. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2020, vol. 8, no. 5, p. 1405-1417., Registrované v: WOS*
9. [1.1] SEMMLER, M.L. - BEKESCHUS, S. - SCHAFER, M. - BERNHARDT, T. - FISCHER, T. - WITZKE, K. - SEEBAUER, C. - REBL, H. - GRAMBOW, E. - VOLLMAR, B. - NEBE, J.B. - METELMANN, H.R. - VON WOEDTKE, T. - EMMERT, S. - BOECKMANN, L. *Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. In CANCERS. eISSN: 2072-6694, 2020, vol. 12, no. 2, art. no. 269., Registrované v: WOS*
10. [1.1] SHIROKOVA, L. - NOSKOV, S. - GOROKHOVA, V. - REINECKE, J. - SHIROKOVA, K. *Intra-Articular Injections of a Whole Blood Clot Secretome, Autologous Conditioned Serum, Have Superior Clinical and Biochemical Efficacy Over Platelet-Rich Plasma and Induce Rejuvenation-Associated Changes of Joint Metabolism: A Prospective, Controlled Open-Label Clinical Study in Chronic Knee Osteoarthritis. In REJUVENATION RESEARCH. ISSN 1549-1684, 2020, vol. 23, no. 5, p. 401-410., Registrované v: WOS*
11. [1.1] SORIA, F.N. - PAVIOLO, C. - DOUDNIKOFF, E. - AROTARENA, M.L. - LEE, A. - DANNE, N. - MANDAL, A.K. - GOSSET, P. - DEHAY, B. - GROG, L. - COGNET, L. - BEZARD, E. *Synucleinopathy alters nanoscale organization and diffusion in the brain extracellular space through hyaluronan remodeling. In NATURE COMMUNICATIONS. ISSN 2041-1723, JUL 10 2020, vol. 11, no. 1., Registrované v: WOS*
12. [1.1] TRUONG, J.L. - LIU, M.H. - TOLG, C. - BARR, M. - DAI, C. - RAISSI, T.C. - WONG, E. - DELYZER, T. - YAZDANI, A. - TURLEY, E.A. *Creating a Favorable Microenvironment for Fat Grafting in a Novel Model of Radiation-Induced Mammary Fat Pad Fibrosis. In PLASTIC AND RECONSTRUCTIVE SURGERY. ISSN 0032-1052, 2020, vol. 145, no. 1, p. 116-126., Registrované v: WOS*
13. [1.1] TSENG, V. - NI, K. - ALLAWZI, A. - PROHASKA, C. - HERNANDEZ-LAGUNAS, L. - ELAJAILI, H. - CALI, V. - MIDURA, R. - HASCALL, V. - TRIGGS-RAINE, B. - PETRACHE, I. - HART, C.M. - NOZIK-GRAYCK, E. *Extracellular Superoxide Dismutase Regulates Early Vascular Hyaluronan Remodeling in Hypoxic Pulmonary Hypertension. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2020, vol. 10, no. 1., Registrované v: WOS*
14. [1.1] WANG, G.Q. - TIEMEIER, G.L. - VAN DEN BERG, B.M. - RABELINK, T.J. *Endothelial Glycocalyx Hyaluronan Regulation and Role in Prevention of Diabetic Complications. In AMERICAN JOURNAL OF PATHOLOGY. ISSN 0002-9440, 2020, vol. 190, no. 4, p. 781-790., Registrované v: WOS*
15. [1.1] WOO, Y.K. - PARK, J. - RYU, J.H. - CHO, H.J. *The anti-inflammatory and anti-apoptotic effects of advanced anti-inflammation composition (AAIC) in heat shock-induced human HaCaT keratinocytes. In JOURNAL OF COSMETIC DERMATOLOGY. ISSN 1473-2130, AUG 2020, vol. 19, no. 8, p. 2114-2124., Registrované v: WOS*
16. [1.1] ZERBINATI, N. - ESPOSITO, C. - CIPOLLA, G. - CALLIGARO, A. - MONTICELLI, D. - MARTINA, V. - GOLUBOVIC, M. - BINIC, I. - SIGOVA, J. - GALLO, A.L. - D'ESTE, E. - JAFFERANY, M. - PRATOSONI, M. - TIRANT, M. - THUONG, N.V. - SANGALLI, F. - RAUSO, R. - LOTTI, T. *Chemical and mechanical characterization of hyaluronic acid hydrogel cross-linked with polyethylen glycol and its use in dermatology. In DERMATOLOGIC THERAPY. ISSN 1396-0296, JUL 2020, vol. 33, no. 4., Registrované v: WOS*

17. [1.2] MAGNO, Valentina - MEINHARDT, Andrea - WERNER, Carsten. *Polymer Hydrogels to Guide Organotypic and Organoid Cultures. In Advanced Functional Materials. ISSN 1616301X, 2020-11-01, 30, 48, pp., Registrované v: SCOPUS*
18. [1.2] SVOLACCHIA, F. - SVOLACCHIA, L. *Adult Mesenchymal Stem Cells (MSCa) derived from adipose tissue (ADSCa) in a scaffold of free hyaluronic acid in the regeneration of peri-ocular tissues. In Journal of Applied Cosmetology. ISSN 03928543, 2019-07-01, 37, 2, pp., Registrované v: SCOPUS*
- ADCA601 ŠPÁNIKOVÁ, Silvia - BIELY, Peter. Glucuronoyl esterase - Novel carbohydrate produced by *Schizophyllum commune*. In *FEBS Letters*, 2006, vol. 580, p. 4597-4601. (2005: 3.415 - IF, Q2 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2006.07.033>
- Citácie:
1. [1.1] DERBA-MACELUCH, Marta - MELLEROWICZ, Ewa J. *Expression of Cell Wall-Modifying Enzymes in Aspen for Improved Lignocellulose Processing. In PLANT CELL WALL, 2 EDITION. ISSN 1064-3745, 2020, vol. 2149, no., pp. 145-164. Dostupné na: https://doi.org/10.1007/978-1-0716-0621-6_9., Registrované v: WOS*
2. [1.1] KRSKA, Daniel - LARSBRINK, Johan. *Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1186/s13068-020-01709-9., Registrované v: WOS*
3. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. - PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian - DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. *Evidence for ligninolytic activity of the ascomycete fungus *Podospora anserina*. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1186/s13068-020-01713-z., Registrované v: WOS*
- ADCA602 ŠPÁNIKOVÁ, Silvia - POLÁKOVÁ, Monika - JONIAK, Dušan - HIRSCH, Ján - BIELY, Peter. Synthetic esters recognized by glucuronoyl esterase from *Schizophyllum commune*. In *Archives of Microbiology*, 2007, vol. 188, p. 185-189. (2006: 1.820 - IF, Q3 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0302-8933. Dostupné na: <https://doi.org/10.1007/s00203-007-0241-x>
- Citácie:
1. [1.1] ERNST, Heidi A. - MOSBECH, Caroline - LANGKILDE, Annette E. - WESTH, Peter - MEYER, Anne S. - AGGER, Jane W. - LARSEN, Sine. *The structural basis of fungal glucuronoyl esterase activity on natural substrates. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2020, vol. 11, no. 1, pp. Dostupné na: https://doi.org/10.1038/s41467-020-14833-9., Registrované v: WOS*
- ADCA603 ŠROBÁROVÁ, Antónia - DA SILVA, J. A. T. - KOGAN, Grigorij - RITIENI, Alberto - SANTINI, Antonello. Beauvericin decreases cell viability of wheat. In *Chemistry & Biodiversity*, 2009, vol. 6, no. 8, p. 1208-1215. (2008: 1.659 - IF, Q2 - JCR, 0.641 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1612-1872. Dostupné na: <https://doi.org/10.1002/cbdv.200800158>
- Citácie:
1. [1.1] LOI, M. - DE LEONARDIS, S. - MULE, G. - LOGRIECO, A.F. - PACIOLLA, C. *A Novel and Potentially Multifaceted Dehydroascorbate Reductase Increasing the Antioxidant Systems is Induced by Beauvericin in Tomato. In ANTIOXIDANTS. MAY 2020, vol. 9, no. 5., Registrované v: WOS*
2. [1.1] NCUBE, E. - TRUTER, M. - FLETT, B.C. - VAN DEN BERG, J. - ERASMUS, A. - VILJOEN, A. *Fungal mycoflora associated with *Busseola fusca**

- frass in maize plants. In AFRICAN ENTOMOLOGY. ISSN 1021-3589, SEP 2020, vol. 28, no. 2, p. 394-405., Registrované v: WOS*
- ADCA604 ŠTURDÍKOVÁ, Marta - FUSKA, J. - GROSSMANN, E. - VOTICKÝ, Zdeno. New compounds with cytotoxic and antitumor effects. Part 6: Monomeric indole alkaloids of Vinca minor L. and their effect on P388 cells. In Pharmazie, 1986, vol. 41, p. 270-272. ISSN 0031-7144.
- Citácie:
- [1.1] HIJAZIN, Tahani - RADWAN, Alzahraa - LEWERENZ, Laura - ABOUZEID, Sara - SELMAR, Dirk. The uptake of alkaloids by plants from the soil is determined by rhizosphere pH. In RHIZOSPHERE, 2020, vol. 15, no., pp. Dostupné na: <https://doi.org/10.1016/j.rhisph.2020.100234>., Registrované v: WOS
 - [1.1] PALYI, G. Biological Chirality. In BIOLOGICAL CHIRALITY, 2020, vol., no., pp. 1-257., Registrované v: WOS
- ADCA605 KOLENOVÁ, Katarína - RYABOVÁ, Olena - VRŠANSKÁ, Mária - BIELY, Peter. Inverting character of family GH115 α -glucuronidases. In FEBS Letters, 2010, vol.584, p. 4063-4068. (2009: 3.541 - IF, Q2 - JCR, 2.170 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1016/j.febslet.2010.08.031>
- Citácie:
- [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS
- ADCA606 KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter. Purification and characterization of two minor endo-beta-1,4-xylanases of Schizophyllum commune. In Enzyme and Microbial Technology, 2005, vol. 36, p. 903-910. ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2005.01.006>
- Citácie:
- [1.1] SEEMAKRAM, Wasan - BOONRUNG, Santhaya - AIMI, Tadanori - EKPRASERT, Jindarat - LUMYONG, Saisamorn - BOONLUE, Sophon. Purification, characterization and partial amino acid sequences of thermo-alkali-stable and mercury ion-tolerant xylanase from Thermomyces dupontii KCU-CLD-E2-3. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-78670-y>., Registrované v: WOS
- ADCA607 KOLENOVÁ, Katarína - VRŠANSKÁ, Mária - BIELY, Peter. Mode of action of endo- β -1,4-xylanases of families 10 and 11 on acidic xylooligosaccharides. In Journal of Biotechnology, 2006, vol. 121, p. 338-345. (2005: 2.687 - IF, Q2 - JCR, 1.193 - SJR, Q1 - SJR). ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2005.08.001>
- Citácie:
- [1.1] BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - HARDER, Soenke - SCHLUETER, Hartmut - HAHNKE, Richard L. - RUEHL, Martin - SCHAEFER, Wilhelm - GAND, Martin. Aspergillus sydowii: Genome Analysis and Characterization of Two Heterologous Expressed, Non-redundant Xylanases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fmicb.2020.573482>., Registrované v: WOS
 - [1.1] ENJALBERT, Thomas - DE LA MARE, Marion - ROBLIN, Pierre - BADRUNA, Louise - VERNET, Thierry - DUMON, Claire - MONTANIER, Cedric Y. Characterisation of the Effect of the Spatial Organisation of Hemicellulases on the Hydrolysis of Plant Biomass Polymer. In INTERNATIONAL JOURNAL OF

MOLECULAR SCIENCES, 2020, vol. 21, no. 12, pp. Dostupné na:

<https://doi.org/10.3390/ijms21124360>., Registrované v: WOS

3. [1.1] POLETTTO, Patricia - PEREIRA, Gabriela N. - MONTEIRO, Carla R. M. - PEREIRA, Maria Angelica F. - BORDIGNON, Sidnei E. - DE OLIVEIRA, Debora. Xylooligosaccharides: Transforming the lignocellulosic biomasses into valuable 5-carbon sugar prebiotics. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2020, vol. 91, no., pp. 352-363. Dostupné na:

<https://doi.org/10.1016/j.procbio.2020.01.005>., Registrované v: WOS

4. [1.1] SEEMAKRAM, Wasan - BOONRUNG, Santhaya - KOKAEW, Urachart - AIMI, Tadanori - BOONLUE, Sophon. Optimization of Culture Conditions for Xylanase Production from Cellulase-free Xylanase-producing Thermophilic Fungus, *Thermomyces dupontii* KCU-CLD-E2-3. In *CHIANG MAI JOURNAL OF SCIENCE*. ISSN 0125-2526, 2020, vol. 47, no. 3, pp. 391-402., Registrované v: WOS

5. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

ADCA608

ŠUCHOVÁ, Katarína** - KOZMON, Stanislav - PUCHART, Vladimír - MALOVÍKOVÁ, Anna - HOFF, Tine - MORKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan recognition by GH 30 xylanases: A study with enzyme and substrate variants. In *Archives of Biochemistry and Biophysics*, 2018, vol. 643, p. 42-49. (2017: 3.118 - IF, Q2 - JCR, 1.350 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-9861. Dostupné na: <https://doi.org/10.1016/j.abb.2018.02.014>

Citácie:

1. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinosyl from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>., Registrované v: WOS

2. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>., Registrované v: WOS

3. [1.1] UNDERLIN, Emilie N. - D'ERRICO, Clotilde - BOHM, Maximilian - MADSEN, Robert. Synthesis of Glucuronoxylan Hexasaccharides by Preactivation-Based Glycosylations. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2020, vol. 2020, no. 20, pp. 3050-3058. Dostupné na: <https://doi.org/10.1002/ejoc.202000211>., Registrované v: WOS

ADCA609

ŠUCHOVÁ, Katarína** - PUCHART, Vladimír - SPODSBERGH, Nikolaj - MØRKEBERG KROGH, Kristian B.R. - BIELY, Peter. A novel GH30 xylobiohydrolase from *Acremonium alcalophilum* releasing xylobiose from the non-reducing end. In *Enzyme and Microbial Technology*, 2020, vol. 134, art. no. 109484 [11] p. (2019: 3.448 - IF, Q2 - JCR, 0.795 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0141-0229. Dostupné na:

<https://doi.org/10.1016/j.enzmictec.2019.109484>

Citácie:

1. [1.1] ZHANG, Yu - YANG, Jinshui - LUO, Lijin - WANG, Entao - WANG, Ruonan - LIU, Liang - LIU, Jiawen - YUAN, Hongli. Low-Cost Cellulase-Hemicellulase Mixture Secreted by *Trichoderma harzianum* EM0925 with Complete Saccharification Efficacy of Lignocellulose. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 2, pp. Dostupné na: <https://doi.org/10.3390/ijms21020371>., Registrované v: WOS
- ADCA610 ŠUNDERIČ, Miloš - HOLAZOVÁ, Alena - ROBAJAC, Dragana - MILJUŠ, Goran - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav. Lectin-based protein microarray analysis of differences in serum alpha-2-macroglobulin glycosylation between patients with colorectal cancer and noncancer persons. In *Biotechnology and Applied Biochemistry*, 2016, vol. 63, p. 457-464. (2015: 1.429 - IF, Q3 - JCR, 0.411 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0885-4513. Dostupné na: <https://doi.org/10.1002/bab.1407>
- Citácie:
1. [1.1] DANG, Kai - ZHANG, Wenjuan - JIANG, Shanfeng - LIN, Xiao - QIAN, Airong. Application of Lectin Microarrays for Biomarker Discovery. In *CHEMISTRYOPEN*. ISSN 2191-1363, 2020, vol. 9, no. 3, pp. 285-300. Dostupné na: <https://doi.org/10.1002/open.201900326>., Registrované v: WOS
 2. [1.1] EYLEM, Cemil Can - YILMAZ, Mehmet - DERKUS, Burak - NEMUTLU, Emirhan - CAMCI, Can Berk - YILMAZ, Erkan - TURKOGLU, Mehmet Akif - AYTAC, Bulent - OZYURT, Neslihan - EMREGUL, Emel. Untargeted multi-omic analysis of colorectal cancer-specific exosomes reveals joint pathways of colorectal cancer in both clinical samples and cell culture. In *CANCER LETTERS*. ISSN 0304-3835, 2020, vol. 469, no., pp. 186-194. Dostupné na: <https://doi.org/10.1016/j.canlet.2019.10.038>., Registrované v: WOS
 3. [1.1] YU, Hanjie - SHU, Jian - LI, Zheng. Lectin microarrays for glycoproteomics: an overview of their use and potential. In *EXPERT REVIEW OF PROTEOMICS*. ISSN 1478-9450, 2020, vol. 17, no. 1, pp. 27-39. Dostupné na: <https://doi.org/10.1080/14789450.2020.1720512>., Registrované v: WOS
 4. [1.1] YUE, Yuanyi - ZHANG, Qiang - WU, Si - WANG, Shuang - CUI, Changwan - YU, Miao - SUN, Zhengrong. Identification of key genes involved in JAK/STAT pathway in colorectal cancer. In *MOLECULAR IMMUNOLOGY*. ISSN 0161-5890, 2020, vol. 128, no., pp. 287-297. Dostupné na: <https://doi.org/10.1016/j.molimm.2020.10.007>., Registrované v: WOS
- ADCA611 ŠUTOVSKÁ, M. - FRAŇOVÁ, S. - SADLOŇOVÁ, V. - GRONHAUG, T.E. - DIALLO, D. - PAULSEN, B.S. - CAPEK, Peter. The relationship between dose-dependent antitussive and bronchodilatory effects of *Opilia celtidifolia* polysaccharide and nitric oxide in guinea pigs. In *International Journal of Biological Macromolecules*, 2010, vol. 47, p. 508-513. (2009: 2.366 - IF, Q3 - JCR, 0.806 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2010.07.006>
- Citácie:
1. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS
- ADCA612 ŠUTOVSKÁ, Martina - CAPEK, Peter - KAZIMIEROVÁ, Ivana - PAPPOVÁ, Lenka - JOŠKOVÁ, Marta - MATULOVÁ, Mária - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Echinacea complex – chemical view and anti-asthmatic profile. In *Journal of Ethnopharmacology*, 2015, vol. 175, p. 163-171. (2014: 2.998 - IF, Q1 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0378-8741. Dostupné na:

<https://doi.org/10.1016/j.jep.2015.09.007>

Citácie:

1. [1.1] HANAFY, Amr Shaaban - ABD-ELSALAM, Sherief. Challenges in COVID-19 drug treatment in patients with advanced liver diseases: A hepatology perspective. In *WORLD JOURNAL OF GASTROENTEROLOGY*. ISSN 1007-9327, 2020, vol. 26, no. 46, pp. 7272-7286. Dostupné na:

<https://doi.org/10.3748/wjg.v26.i46.7272>, Registrované v: WOS

ADCA613

ŠUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Antitussive bronchodilatory effect of *Lythrum salicaria* polysaccharide-polyphenolic conjugate. In *International Journal of Biological Macromolecules*, 2012, vol. 51, p. 794-799. (2011: 2.453 - IF, Q3 - JCR, 0.692 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2012.07.015>

Citácie:

1. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from *Hovenia dulcis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2019.10.211>, Registrované v: WOS

2. [1.1] WU, Ding-Tao - LIU, Wen - XIAN, Mei-Lin - DU, Gang - LIU, Xin - HE, Jing-Jing - WANG, Ping - QIN, Wen - ZHAO, Li. Polyphenolic-Protein-Polysaccharide Complexes from *Hovenia dulcis*: Insights into Extraction Methods on Their Physicochemical Properties and In Vitro Bioactivities. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040456>,

Registrované v: WOS

ADCA614

ŠUTOVSKÁ, Martina - FRAŇOVÁ, Soňa - PRISEŽŇAKOVÁ, L. - NOSÁLOVÁ, Gabriela - TOGOLA, A. - DIALLO, D. - PAULSEN, B.S. - CAPEK, Peter. Antitussive activity of polysaccharides isolated from Malian medicinal plants. L. Prisežňaková, Gabriela Nosálová, A. Togola, D. Diallo, B.S. Paulsen, Peter Capek. In *International Journal of Biological Macromolecules*, 2009, vol.44, pp.236-239. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2008.12.013>

Citácie:

1. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In *FITOTERAPIA*. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na:

<https://doi.org/10.1016/j.fitote.2020.104676>, Registrované v: WOS

ADCA615

ŠUTOVSKÁ, Martina - CAPEK, Peter - KOCMÁLOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Characterization and biological activity of *Solidago canadensis* complex. In *International Journal of Biological Macromolecules*, 2013, vol. 52, p. 192-197. (2012: 2.596 - IF, Q3 - JCR, 0.787 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2012.09.021>

Citácie:

1. [1.1] LIU, Wen - LI, Fen - WANG, Ping - LIU, Xin - HE, Jing-Jing - XIAN, Mei-Lin - ZHAO, Li - QIN, Wen - GAN, Ren-You - WU, Ding-Tao. Effects of drying methods on the physicochemical characteristics and bioactivities of polyphenolic-protein-polysaccharide conjugates from *Hovenia dulcis*. In

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 148, no., pp. 1211-1221. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.10.211>., Registrované v: WOS
 2. [1.1] WU, Ding-Tao - LIU, Wen - XIAN, Mei-Lin - DU, Gang - LIU, Xin - HE, Jing-Jing - WANG, Ping - QIN, Wen - ZHAO, Li. Polyphenolic-Protein-Polysaccharide Complexes from *Hovenia dulcis*: Insights into Extraction Methods on Their Physicochemical Properties and In Vitro Bioactivities. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040456>., Registrované v: WOS

- ADCA616 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - ŠUTOVSKÝ, J. - FRAŇOVÁ, Soňa - PRÍSENŽŇÁKOVÁ, Ľubica - CAPEK, Peter. Possible mechanisms of dose-dependent cough suppressive effect of *Althaea officinalis* rhamnogalacturonan in guinea pigs test system. J. Šutovský, Soňa Fraňová, Ľubica Prísenžňáková, Peter Capek. In *International Journal of Biological Macromolecules*, 2009, vol.45, pp.27-32. (2008: 1.867 - IF, Q3 - JCR, 0.751 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2009.03.008>

Citácie:

1. [1.1] MAHBOUBI, Mohaddese. Marsh Mallow (*Althaea officinalis*L.) and Its Potency in the Treatment of Cough. In *COMPLEMENTARY MEDICINE RESEARCH. ISSN 2504-2092, 2020, vol. 27, no. 3, pp. 174-182. Dostupné na: <https://doi.org/10.1159/000503747>., Registrované v: WOS*
 2. [1.1] ZAITSEVA, Oksana - KHUDYAKOV, Andrey - SERGUSHKINA, Marta - SOLOMINA, Olga - POLEZHAEVA, Tatyana. Pectins as a universal medicine. In *FITOTERAPIA. ISSN 0367-326X, 2020, vol. 146, no., pp. Dostupné na: <https://doi.org/10.1016/j.fitote.2020.104676>., Registrované v: WOS*

- ADCA617 ŠVITEL, Juraj - TKÁČ, Ján - VOŠTIAR, I. - NAVRÁTIL, M. - ŠTEFUCA, Vladimír - BUČKO, Marek - GEMEINER, Peter. Gluconobacter in biosensors: applications of whole cells and enzymes isolated from *Gluconobacter* and *Acetobacter* to biosensor construction. In *Biotechnology Letters*, 2006, vol. 28, p. 2003-2010. (2005: 1.108 - IF, Q3 - JCR, 0.468 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0141-5492. Dostupné na: <https://doi.org/10.1007/s10529-006-9195-3>

Citácie:

1. [1.1] RANI, Ruma - SINGH, Geeta - BATRA, Kanisht - MINAKSHI, Prasad. Bioengineered Polymer/Composites as Advanced 'Biological Detection Sorbitol: An Application in Healthcare Sector. In *CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 11, pp. 963-981. Dostupné na: <https://doi.org/10.2174/1568026620666200306131416>., Registrované v: WOS*

- ADCA618 TAPPINO, Barbara - CHUZHANOVA, Nadia A. - REGIS, Stefano - DARDIS, Andrea - CORSOLINI, Fabio - STROPPIANO, Marina - TONOLI, Emmanuel - BECCARI, Tomasso - MUCHA, Ján - BLANCO, Mariana - SZLAGO, Marina - DI ROCCO, Maja - COOPER, David N. - FILOCAMO, Mirella. Molecular Characterization of 22 Novel UDP-N-Acetylglucosamine-1-Phosphate Transferase alfa- and beta- Subunit (GNT-PAB) Gene Mutations Causing Mucopolidosis Types II alfa/beta and III alfa/beta in 46 Patients. In *Human Mutation*, 2009, vol. 30, e956-E973. (2008: 7.033 - IF, Q1 - JCR, 2.421 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1059-7794. Názov prebraný z obrazovky. Dostupné na: <https://doi.org/10.1002/humu.21099>

Citácie:

1. [1.1] MATOS, Liliana - VILELA, Regina - ROCHA, Melissa - SANTOS, Juliana - COUTINHO, Maria Francisca - GASPARI, Paulo - PRATA, Maria Joao -

- ALVES, Sandra. Development of an Antisense Oligonucleotide-Mediated Exon Skipping Therapeutic Strategy for Mucopolysaccharidosis II: Validation at RNA Level. In HUMAN GENE THERAPY. ISSN 1043-0342, 2020, vol. 31, no. 13-14, pp. 775-783. Dostupné na: <https://doi.org/10.1089/hum.2020.034>., Registrované v: WOS
2. [1.1] PASUMARTHI, Divya - GUPTA, Neerja - SHETH, Jayesh - JAIN, S. Jamal Md Nurul - RUNGSUNG, Ikrormi - KABRA, Madhulika - RANGANATH, Prajnya - AGGARWAL, Shagun - PHADKE, Shubha R. - GIRISHA, Katta M. - SHUKLA, Anju - DATAR, Chaitanya - VERMA, Ishwar C. - PURI, Ratna Dua - BHAVSAR, Riddhi - MISTRY, Mehul - SANKAR, V. H. - GOWRISHANKAR, Kalpana - AGRAWAL, Divya - NAIR, Mohandas - DANDA, Sumita - SONI, Jai Prakash - DALAL, Ashwin. Identification and characterization of 30 novel pathogenic variations in 69 unrelated Indian patients with Mucopolysaccharidosis Type II and Type III. In JOURNAL OF HUMAN GENETICS. ISSN 1434-5161, 2020, vol. 65, no. 11, pp. 971-984. Dostupné na: <https://doi.org/10.1038/s10038-020-0797-8>., Registrované v: WOS
3. [1.1] SOARES, Malu Bettio - TURCHETTO-ZOLET, Andreia C. - SCHWARTZ, Ida V. D. - SPERB-LUDWIG, Fernanda. Haplotype analysis and origin of the most common pathogenic mutation causing Mucopolysaccharidosis II and III alpha/beta in Brazilian patients. In GENE REPORTS, 2020, vol. 19, no., pp. Dostupné na: <https://doi.org/10.1016/j.genrep.2020.100645>., Registrované v: WOS
4. [1.1] ZANETTI, Alessandra - D'AVANZO, Francesca - BERTOLDI, Loris - ZAMPIERI, Guido - FELTRIN, Erika - DE PASCALE, Fabio - RAMPAZZO, Angelica - FORZAN, Monica - VALLE, Giorgio - TOMANIN, Rosella. Setup and Validation of a Targeted Next-Generation Sequencing Approach for the Diagnosis of Lysosomal Storage Disorders. In JOURNAL OF MOLECULAR DIAGNOSTICS. ISSN 1525-1578, 2020, vol. 22, no. 4, pp. 488-502. Dostupné na: <https://doi.org/10.1016/j.jmoldx.2020.01.010>., Registrované v: WOS
- ADCA619 TAYLOR, E.J. - GLOSTER, T.M. - TURKENBURG, J.P. - VINCENT, F. - BRZOZOWSKI, A.M. - DUPONT, C. - SHARECK, F. - CENTENO, M.S.J. - PRATES, J.A.M. - PUCHART, Vladimír - FERREIRA, L.M.A. - FONTES, C.M.G.A. - BIELY, Peter - DAVIES, G.J. Structure and activity of two metal ion-dependent acetylxylen esterases involved in plant cell wall degradation reveals a close similarity to peptidoglycan deacetylases. In Journal of Biological Chemistry, 2006, vol. 281, p. 10968-10975. (2005: 5.854 - IF, Q1 - JCR, 4.178 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0021-9258. Dostupné na: <https://doi.org/10.1074/jbc.M513066200>
- Citácie:
1. [1.1] SATO, Kazuki - CHIBA, Daisuke - YOSHIDA, Sayaka - TAKAHASHI, Mayu - TOTANI, Kazuhide - SHIDA, Yosuke - OGASAWARA, Wataru - NAKAGAWA, Yuko S. Functional analysis of a novel lytic polysaccharide monooxygenase from *Streptomyces griseus* on cellulose and chitin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, no., pp. 2085-2091. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.08.015>., Registrované v: WOS
2. [1.1] VAAJE-KOLSTAD, Gustav - TUVENG, Tina Rise - MEKASHA, Sophanit - ELJISINK, Vincent G. H. Enzymes for Modification of Chitin and Chitosan. In CHITIN AND CHITOSAN: PROPERTIES AND APPLICATIONS, 2020, vol., no., pp. 189-228., Registrované v: WOS
3. [1.1] XIE, Mingming - ZHAO, Xiaobing - LU, Yang - JIN, Cheng. Chitin deacetylases Cod4 and Cod7 are involved in polar growth of *Aspergillus fumigatus*. In MICROBIOLOGYOPEN. ISSN 2045-8827, 2020, vol. 9, no. 1, pp. Dostupné na: <https://doi.org/10.1002/mbo3.943>., Registrované v: WOS

- ADCA620 TENKANEN, M. - EIZAGUIRRE, J. - ISONIEMI, R. - FAULDS, C.B. - BIELY, Peter. Comparison of catalytic properties of acetyl xylan esterases from three carbohydrate esterase families. In ACS Symposium Series 855: Application of Enzymes to Lignocellulosics. - Washington, DC : American Chemical Society, 2003, p.211-229. ISBN 0-8412-3831-6.
Citácie:
1. [1.1] LI, Xinxin - GRIFFIN, Kelli - LANGEVELD, Sandra - FROMMHAGEN, Matthias - UNDERLIN, Emilie N. - KABEL, Mirjam A. - DE VRIES, Ronald P. - DILOKPIMOL, Adiphol. Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fbioe.2020.00694>., Registrované v: WOS
- ADCA621 TENKANEN, Maija - VRŠANSKÁ, Mária - SIIKA-AHO, Matti - WONG, Dominic W. - PUCHART, Vladimír - PENTILLA, Merja - SALOHEIMO, Markku - BIELY, Peter. Xylanase XYN IV from Trichoderma reesei showing exo- and endo-xylanase activity. In FEBS Journal, 2013, vol. 280, p. 285-301. (2012: 4.250 - IF, Q2 - JCR, 2.085 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/febs.12069>
Citácie:
1. [1.1] IKE, Masakazu - TOKUYASU, Ken. Control of pH by CO₂ Pressurization for Enzymatic Saccharification of Ca(OH)(2)-Pretreated Rice Straw in the Presence of CaCO₃. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2020, vol. 67, no. 2, pp. 59-62. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0019., Registrované v: WOS
2. [1.1] LI, Chanjuan - KUMAR, Ashok - LUO, Xuan - SHI, Hui - LIU, Ziduo - WU, Gaobing. Highly alkali-stable and cellulase-free xylanases from Fusarium sp. 21 and their application in clarification of orange juice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 572-580. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.03.249>., Registrované v: WOS
- ADCA622 TKÁČ, Ján - DAVIS, J.J. An optimised electrode pre-treatment for SAM formation on polycrystalline gold. In Journal of Electroanalytical Chemistry, 2008, vol. 621, p. 117-120. (2007: 2.580 - IF, Q2 - JCR, 1.279 - SJR, Q1 - SJR). ISSN 0022-0728. Dostupné na: <https://doi.org/10.1016/j.jelechem.2008.04.010>
Citácie:
1. [1.1] HONDRED, John A. - JOHNSON, Zachary T. - CLAUSSEN, Jonathan C. Nanoporous gold peel-and-stick biosensors created with etching inkjet maskless lithography for electrochemical pesticide monitoring with microfluidics. In JOURNAL OF MATERIALS CHEMISTRY C. ISSN 2050-7526, 2020, vol. 8, no. 33, pp. 11376-11388. Dostupné na: <https://doi.org/10.1039/d0tc01423k>., Registrované v: WOS
2. [1.1] KALIMUTHU, Palraj - PETITGENET, Melanie - NIKS, Dimitri - DINGWALL, Stephanie - HARMER, Jeffrey R. - HILLE, Russ - BERNHARDT, Paul V. The oxidation-reduction and electrocatalytic properties of CO dehydrogenase from Oligotropha carboxidovorans. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS. ISSN 0005-2728, 2020, vol. 1861, no. 1, pp. Dostupné na: <https://doi.org/10.1016/j.bbabi.2019.148118>., Registrované v: WOS
3. [1.1] YU, Chaofan - YU, Jie - ZHANG, Huirong - HE, Ziyan - SHA, Yunfei - LIU, Baizhan - WANG, Ying. A facile approach for rapid on-site screening of nicotine in natural tobacco. In ENVIRONMENTAL POLLUTION. ISSN 0269-

- 7491, 2020, vol. 259, no., pp. Dostupné na:
<https://doi.org/10.1016/j.enypol.2019.113841>., Registrované v: WOS
- ADCA623 TKÁČ, Ján - VOŠTIAR, I. - GEMEINER, Peter - ŠTURDÍK, Ernest. Stabilization of ferrocene leakage by physical retention in a cellulose acetate membrane. The fructose biosensor. In *Bioelectrochemistry*, 2002, vol. 55, p. 149-151. (2002 - Current Contents). ISSN 1567-5394. Dostupné na: [https://doi.org/10.1016/S1567-5394\(01\)00130-X](https://doi.org/10.1016/S1567-5394(01)00130-X)
- Citácie:
 1. [1.1] KAMEL, Samir - KHATTAB, Tawfik A. Recent Advances in Cellulose-Based Biosensors for Medical Diagnosis. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 6, pp. Dostupné na: <https://doi.org/10.3390/bios10060067>., Registrované v: WOS
- ADCA624 TKÁČ, Ján - WHITTAKER, J.W. - RUZGAS, T. The use of single walled carbon nanotubes dispersed in a chitosan matrix for preparation of a galactose biosensor. In *Biosensors and Bioelectronic*, 2007, vol. 22, p. 1820-1824. (2006: 4.132 - IF, Q1 - JCR, 1.911 - SJR, Q1 - SJR). Dostupné na: <https://doi.org/10.1016/j.bios.2006.08.014>
- Citácie:
 1. [1.1] ALSUHYBANI, Mohammed - ALSHAHRANI, Ahmed - HAIDYRAH, Ahmed S. Synthesis, Characterization, and Evaluation of Evaporated Casting MWCNT/Chitosan Composite Membranes for Water Desalination. In *JOURNAL OF CHEMISTRY*. ISSN 2090-9063, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/5207680>., Registrované v: WOS
 2. [1.1] KARIMIAN, Nashmil - HASHEMI, Pegah - KHANMOHAMMADI, Akbar - AFKHAMI, Abbas - BAGHERI, Hasan. The Principles and Recent Applications of Bioelectrocatalysis. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY RESEARCH*. ISSN 2383-093X, 2020, vol. 7, no. 3, pp. 281-301., Registrované v: WOS
 3. [1.1] MIE, Yasuhiro - KATAGAI, Shizuka - IKEGAMI, Masiki. Electrochemical Oxidation of Monosaccharides at Nanoporous Gold with Controlled Atomic Surface Orientation and Non-Enzymatic Galactose Sensing. In *SENSORS*, 2020, vol. 20, no. 19, pp. Dostupné na: <https://doi.org/10.3390/s20195632>., Registrované v: WOS
 4. [1.1] REDONDO-GOMEZ, Carlos - LEANDRO-MORA, Rocio - BLANCH-BERMUDEZ, Daniela - ESPINOZA-ARAYA, Christopher - HIDALGO-BARRANTES, David - VEGA-BAUDRIT, Jose. Recent Advances in Carbon Nanotubes for Nervous Tissue Regeneration. In *ADVANCES IN POLYMER TECHNOLOGY*. ISSN 0730-6679, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.1155/2020/6861205>., Registrované v: WOS
 5. [1.1] YIN, Zuo - ZHI, Jinfang. A photoelectrochemical biosensor based on the direct electron transfer to galactose oxidase. In *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY*. ISSN 1010-6030, 2020, vol. 397, no., pp. Dostupné na: <https://doi.org/10.1016/j.jphotochem.2020.112560>., Registrované v: WOS
- ADCA625 TKÁČ, Ján - NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Monitoring of dihydroxyacetone production during oxidation of glycerol by immobilized *Gluconobacter oxydans* cells with an enzyme biosensor. In *Enzyme and Microbial Technology*, 2001, vol. 28, p. 383-388. ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(00\)00328-8](https://doi.org/10.1016/S0141-0229(00)00328-8)
- Citácie:
 1. [1.1] FRICKE, Philipp Moritz - LINK, Tobias - GAETGENS, Jochem - SONNTAG, Christiane - OTTO, Maike - BOTT, Michael - POLEN, Tino. A

- tunable-l-arabinose-inducible expression plasmid for the acetic acid bacterium Gluconobacter oxydans. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 21, pp. 9267-9282. Dostupné na: <https://doi.org/10.1007/s00253-020-10905-4>, Registrované v: WOS*
2. [1.1] KISIJA, Emina - OSMANOVIC, Dina - NUHIC, Jasna - CIFRIC, Selma. *Review of Biosensors in Industrial Process Control. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, CMBEBIH 2019. ISSN 1680-0737, 2020, vol. 73, no., pp. 687-694. Dostupné na: https://doi.org/10.1007/978-3-030-17971-7_103, Registrované v: WOS*
3. [1.1] LIU, Yujia - XIAO, Yao - XIA, Changjiu - YI, Xianfeng - ZHAO, Yi - YUAN, Jiamin - HUANG, Kaimeng - ZHU, Bin - ZHENG, Anmin - LIN, Min - PENG, Xinxin - LUO, Yibin - SHU, Xingtian. *Insight into the effects of acid characteristics on the catalytic performance of Sn-MFI zeolites in the transformation of dihydroxyacetone to methyl lactate. In JOURNAL OF CATALYSIS. ISSN 0021-9517, 2020, vol. 391, no., pp. 386-396. Dostupné na: <https://doi.org/10.1016/j.jcat.2020.09.004>, Registrované v: WOS*
- ADCA626 TKÁČ, Ján - GEMEINER, Peter - ŠTURDÍK, E. Rapid and sensitive galactose oxidase-peroxidase biosensor for galactose detection with prolonged stability. In *Biotechnology Techniques*, 1999, vol. 13, p. 931-936. Dostupné na: <https://doi.org/10.1023/A:1008966413722>
- Citácie:
1. [1.1] ADACHI, Taiki - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. *Development Perspective of Bioelectrocatalysis-Based Biosensors. In SENSORS, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174826>, Registrované v: WOS*
- ADCA627 TKÁČ, Ján - VOŠTIAR, I. - ŠTURDÍK, Ernest - GEMEINER, Peter - MASTIHUBA, Vladimír - ANNUS, J. Fructose biosensor based on D-fructose dehydrogenase immobilised on a ferrocene-embedded cellulose acetate membrane. In *Analytica Chimica Acta*, 2001, vol. 439, p. 39-46. ISSN 0003-2670. Dostupné na: [https://doi.org/10.1016/S0003-2670\(01\)01021-2](https://doi.org/10.1016/S0003-2670(01)01021-2)
- Citácie:
1. [1.1] ALAM, M. M. - ASIRI, Abdullah M. - RAHMAN, Mohammed M. - ISLAM, M. A. *Fabrication of sensitive D-fructose sensor based on facile ternary mixed ZnO/CdO/SnO₂ nanocomposites by electrochemical approach. In SURFACES AND INTERFACES. ISSN 2468-0230, 2020, vol. 19, no., pp. Dostupné na: <https://doi.org/10.1016/j.surfin.2020.100540>, Registrované v: WOS*
2. [1.1] VOITECHOVIC, Edita - VEKTARIENE, Ausra - VEKTARIS, Gytis - JANCIENTE, Regina - RAZUMIENE, Julija - GUREVICIENE, Vidute. *1,4-Benzoquinone Derivatives for Enhanced Bioelectrocatalysis by Fructose Dehydrogenase from Gluconobacter Japonicus: towards Promising D-fructose Biosensor Development. In ELECTROANALYSIS. ISSN 1040-0397, 2020, vol. 32, no. 5, pp. 1005-1016. Dostupné na: <https://doi.org/10.1002/elan.201900612>, Registrované v: WOS*
- ADCA628 TKÁČ, Ján - ŠVITEL, Juraj - VOSTIAR, Igor - NAVRÁTIL, Marian - GEMEINER, Peter. Membrane-bound dehydrogenases from *Gluconobacter* sp.: Interfacial electrochemistry and direct bioelectrocatalysis. Igor Vostiar, Marian Navrátil, Peter Gemeiner. In *Bioelectrochemistry*, 2009, vol.76, p.53-62. (2008: 2.444 - IF, Q2 - JCR, 1.038 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1567-5394. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2009.02.013>
- Citácie:

1. [1.1] BOLLELLA, Paolo - KATZ, Evgeny. *Enzyme-Based Biosensors: Tackling Electron Transfer Issues*. In *SENSORS*, 2020, vol. 20, no. 12, pp. Dostupné na: <https://doi.org/10.3390/s20123517>., Registrované v: WOS
2. [1.1] HU, Zhong-Ce - ZHAO, Zi-Yu - KE, Xia - ZHENG, Yu-Guo. *Repeated production of 6-(N-hydroxyethyl)-amino-6-deoxy-alpha-l-sorbofuranose by immobilized Gluconobacter oxydans cells with a strategy of in situ exhaustive cell regeneration*. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2020, vol. 43, no. 10, pp. 1781-1789. Dostupné na: <https://doi.org/10.1007/s00449-020-02368-8>., Registrované v: WOS
3. [1.1] HUA, Xia - DU, GenLai - HAN, Jian - XU, Yong. *Bioprocess Intensification for Whole-Cell Catalysis of Catabolized Chemicals with 2,4-Dinitrophenol Uncoupling*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 41, pp. 15782-15790. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c06466>., Registrované v: WOS
4. [1.1] STOLARCZYK, Krzysztof - ROGALSKI, Jerzy - BILEWICZ, Renata. *NAD(P)-dependent glucose dehydrogenase: Applications for biosensors, bioelectrodes, and biofuel cells*. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2020, vol. 135, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2020.107574>., Registrované v: WOS
5. [1.1] TAKEDA, Kouta - IGARASHI, Kiyohiko - YOSHIDA, Makoto - NAKAMURA, Nobuhumi. *Discovery of a novel quinoxaline protein from a eukaryote and its application in electrochemical devices*. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.bioelechem.2019.107372>., Registrované v: WOS
6. [1.1] TAKEDA, Kouta - KUSUOKA, Ryo - BIRRELL, James A. - YOSHIDA, Makoto - IGARASHI, Kiyohiko - NAKAMURA, Nobuhumi. *Bioelectrocatalysis based on direct electron transfer of fungal pyrroloquinoline quinone-dependent dehydrogenase lacking the cytochrome domain*. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2020, vol. 359, no., pp. Dostupné na: <https://doi.org/10.1016/j.electacta.2020.136982>., Registrované v: WOS

ADCA629 TKÁČ, Ján - ŠTURDÍK, E. - GEMEINER, Peter. *Novel glucose non-interference biosensor for lactose detection based on galactose oxidase-peroxidase with and without co-immobilised beta-galactosidase*. In *Analyst*, 2000, vol. 125, p. 1285-1289. ISSN 0003-2654. Dostupné na: <https://doi.org/10.1039/b001432j>

Citácie:

1. [1.1] ADACHI, Taiki - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. *Development Perspective of Bioelectrocatalysis-Based Biosensors*. In *SENSORS*, 2020, vol. 20, no. 17, pp. Dostupné na: <https://doi.org/10.3390/s20174826>., Registrované v: WOS
2. [1.1] ZINNA, Jessica - LOCKWOOD, Tracy-Lynn E. - LIEBERMAN, Marya. *Enzyme-based paper test for detection of lactose in illicit drugs*. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2020, vol. 12, no. 8, pp. 1077-1084. Dostupné na: <https://doi.org/10.1039/c9ay02459j>., Registrované v: WOS

ADCA630 TKÁČ, Ján - RUZGAS, T. *Dispersion of single walled carbon nanotubes. Comparison of different dispersing strategies for preparation of modified electrodes toward hydrogen peroxide detection*. In *Electrochemistry Communications*, 2006, vol. 8, p. 899-903. (2005: 3.388 - IF, Q1 - JCR, 1.712 - SJR, Q1 - SJR). ISSN 1388-2481. Dostupné na: <https://doi.org/10.1016/j.elecom.2006.03.028>

Citácie:

1. [1.1] TAVAKKOLI, Hamed - AKHOND, Morteza - GHORBANKHANI, Gholam Abbas - ABSALAN, Ghodrattollah. *Electrochemical sensing of hydrogen peroxide*

- using a glassy carbon electrode modified with multiwalled carbon nanotubes and zein nanoparticle composites: application to HepG2 cancer cell detection. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00604-019-4064-7>, Registrované v: WOS*
2. [1.1] TORRINHA, Alvaro - OLIVEIRA, Thiago M. B. F. - RIBEIRO, Francisco W. P. - CORREIA, Adriana N. - LIMA-NETO, Pedro - MORAIS, Simone. *Application of Nanostructured Carbon-Based Electrochemical (Bio)Sensors for Screening of Emerging Pharmaceutical Pollutants in Waters and Aquatic Species: A Review. In NANOMATERIALS, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/nano10071268>, Registrované v: WOS*
- ADCA631 TKÁČ, Ján - VOŠTIAR, I. - GORTON, I. - GEMEINER, Peter - ŠTURDÍK, Ernest. *Improved selectivity of microbial biosensor using membrane coating. Application to the analysis of ethanol during fermentation. In Biosensors and Bioelectronics, 2003, vol. 18, p. 1125-1134. Dostupné na: [https://doi.org/10.1016/S0956-5663\(02\)00244-0](https://doi.org/10.1016/S0956-5663(02)00244-0)*
- Citácie:*
1. [1.1] LV, Feng - GONG, Yuzhu - CAO, Yingying - DENG, Yaoyao - LIANG, Shufeng - TIAN, Xin - GU, Hongwei - YIN, Jun-Jie. *A convenient detection system consisting of efficient Au@PtRu nanozymes and alcohol oxidase for highly sensitive alcohol biosensing. In NANOSCALE ADVANCES. ISSN 2516-0230, 2020, vol. 2, no. 4, pp. 1583-1589. Dostupné na: <https://doi.org/10.1039/d0na00002g>, Registrované v: WOS*
2. [1.1] NURHIDAYAT, N. - ISWANTINI, D. - BESTARI, P. - PURWANINGSIH, H. - SUGIARTI, S. *The Accuracy of Ethanol Biosensor Based with Acetobacter acetii Biofilm in Certifying Halal Food Products. In 8TH INTERNATIONAL CONFERENCE OF THE INDONESIAN CHEMICAL SOCIETY (ICICS)) 2019. ISSN 0094-243X, 2020, vol. 2243, no., pp. Dostupné na: <https://doi.org/10.1063/5.0004769>, Registrované v: WOS*
3. [1.1] SONAWANE, Jayesh M. - EZUGWU, Chizoba - GHOSH, Prakash C. *Microbial Fuel Cell-Based Biological Oxygen Demand Sensors for Monitoring Wastewater: State-of-the-Art and Practical Applications. In ACS SENSORS. ISSN 2379-3694, 2020, vol. 5, no. 8, pp. 2297-2316. Dostupné na: <https://doi.org/10.1021/acssensors.0c01299>, Registrované v: WOS*
- ADCA632 TOKIWA, Takaki - NAKANO, Shogo** - YAMAMOTO, Yuta - ISHIKAWA, Takeshi - ITO, Sohei - SLÁDEK, Vladimír - FUKUZAWA, Kaori - MOCHIZUKI, Yuji - TOKIWA, Hiroaki** - MISAIZU, Fuminori - SHIGETA, Yasuteru**. *Development of an analysis toolkit, analysisFMO, to visualize interaction energies generated by fragment molecular orbital calculations. In Journal of Chemical Information and Modeling, 2019, vol. 59, p. 25-30. (2018: 3.966 - IF, Q1 - JCR, 1.446 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1549-9596. Dostupné na: <https://doi.org/10.1021/acs.jcim.8b00649>*
- Citácie:*
1. [1.1] BOONYASUPPAYAKORN, Siwaporn - SAELEE, Thanaphon - VISITCHANAKUN, Peerapat - LEELAHAVANICHKUL, Asada - HENGPHASATPORN, Kowit - SHIGETA, Yasuteru - HUYNH, Thao Nguyen Thanh - CHU, Justin Jang Hann - RUNGROTMONGKOL, Thanyada - CHAVASIRI, Warinthorn. *Dibromopinocembrin and Dibromopinostrobin Are Potential Anti-Dengue Leads with Mild Animal Toxicity. In MOLECULES, 2020, vol. 25, no. 18, pp. Dostupné na: <https://doi.org/10.3390/molecules25184154>, Registrované v: WOS*
2. [1.1] FEDOROV, Dmitri G. *Three-Body Energy Decomposition Analysis Based on the Fragment Molecular Orbital Method. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2020, vol. 124, no. 24, pp. 4956-4971.*

Dostupné na: <https://doi.org/10.1021/acs.jpca.0c03085>., Registrované v: WOS
 3. [1.1] NAKLIANG, Pratanphorn - LAZIM, Raudah - CHANG, Hyerim - CHOI, Sun. Multiscale Molecular Modeling in G Protein-Coupled Receptor (GPCR)-Ligand Studies. In BIOMOLECULES, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/biom10040631>., Registrované v: WOS
 4. [1.1] ZHANG, Baohua - MA, Yingjin - JIN, Xinsheng - WANG, Ying - SUO, Bingbing - HE, Xiao - JIN, Zhong. GridMol2.0: Implementation and application of linear-scale quantum mechanics methods and molecular visualization. In INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY. ISSN 0020-7608, 2020, vol. 120, no. 23, pp. Dostupné na: <https://doi.org/10.1002/qua.26402>., Registrované v: WOS

- ADCA633 TOMANOVÁ, Vladimíra - SROKOVÁ, Iva - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta. Surface-active and associative properties of ionic polymeric surfactants based on carboxymethylcellulose. In Polymer Engineering and Science, 2011, vol. 51, p. 1476-1483. (2010: 1.296 - IF, Q2 - JCR, 0.765 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0032-3888. Dostupné na: <https://doi.org/10.1002/pen.22014>

Citácie:

1. [1.1] ZHANG, Buyao - YU, Gaobo - LI, Jiacheng - LIU, Yuanyuan - ZHOU, Yang - LI, Yafei - FANG, Xiuqin - JIANG, Yue. Optimization of extraction technology of poly-mannuronic acid to a green delivery system for the water-insoluble pesticide, lambda-Cyhalothrin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 153, no., pp. 17-25. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.228>., Registrované v: WOS

- ADCA634 TOMÁŠKA, M. - STREDŇANSKÝ, M. - GEMEINER, Peter - ŠTURDÍK, E. Improvement of the thermostability of beta-galactosidase from Kluyveromyces marxianus. In Process Biochemistry, 1995, vol. 30, p. 649-652. ISSN 1359-5113. Dostupné na: [https://doi.org/10.1016/0032-9592\(94\)00056-5](https://doi.org/10.1016/0032-9592(94)00056-5)

Citácie:

1. [1.1] KARIM, Ahasanul - GERLIANI, Natela - AIDER, Mohammed. Kluyveromyces marxianus: An emerging yeast cell factory for applications in food and biotechnology. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2020, vol. 333, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijfoodmicro.2020.108818>., Registrované v: WOS

- ADCA635 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - CHRISTAKOPOULOS, P. Purification and characterization of a type B feruloyl esterase (StF AE-A) from the thermophilic fungus Sporotrichum thermophile. In Applied Microbiology and Biotechnology, 2004, vol. 63, p. 686-690. ISSN 0175-7598. Dostupné na: <https://doi.org/10.1007/s00253-003-1481-6>

Citácie:

1. [1.1] WANG, Ruonan - YANG, Jinshui - JANG, Jin Myong - LIU, Jiawen - ZHANG, Yu - LIU, Liang - YUAN, Hongli. Efficient ferulic acid and xylo-oligosaccharides production by a novel multi-modular bifunctional xylanase/feruloyl esterase using agricultural residues as substrates. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2020, vol. 297, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2019.122487>., Registrované v: WOS

- ADCA636 TOPAKAS, E. - KYRIAKOPOULOS, S. - BIELY, Peter - HIRSCH, Ján - VAFIADI, C. - CHRISTAKOPOULOS, P. Carbohydrate esterases of family 2 are 6-O-deacetylases. In FEBS Letters, 2010, vol. 584, p. 543-548. (2009: 3.541 - IF, Q2 - JCR, 2.170 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na:

<https://doi.org/10.1016/j.febslet.2009.11.095>

Citácie:

1. [1.1] MICHALAK, Leszek - LA ROSA, Sabina Leanti - LEIVERS, Shaun - LINDSTAD, Lars Jordhoy - ROHR, Asmund Kjendseth - AACHMANN, Finn Lillelund - WESTERENG, Bjorge. *A pair of esterases from a commensal gut bacterium remove acetylations from all positions on complex beta-mannans. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 13, pp. 7122-7130. Dostupné na: <https://doi.org/10.1073/pnas.1915376117>, Registrované v: WOS*

- ADCA637 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - KEKOS, D. - MACRIS, B.J. Purification and characterization of a feruloyl esterase from *Fusarium oxysporum* catalyzing esterification of phenolic acids in ternary water-organic solvent mixtures. In *Journal of Biotechnology*, 2003, vol. 102, p. 33-44. ISSN 0168-1656. Dostupné na: [https://doi.org/10.1016/S0168-1656\(02\)00363-2](https://doi.org/10.1016/S0168-1656(02)00363-2)

Citácie:

1. [1.1] GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ, Mariana - VELASCO-LOZANO, Susana - LOPEZ-GALLEGO, Fernando - MATEOS-DIAZ, Juan Carlos. *Chitosan-based CLEAs from *Aspergillus niger* type A feruloyl esterase: high-productivity biocatalyst for alkyl ferulate synthesis. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 23, pp. 10033-10045. Dostupné na: <https://doi.org/10.1007/s00253-020-10907-2>, Registrované v: WOS*

2. [1.1] GRAJALES-HERNANDEZ, Daniel A. - VELASCO-LOZANO, Susana - ARMENDARIZ-RUIZ, Mariana A. - RODRIGUEZ-GONZALEZ, Jorge A. - MARIA CAMACHO-RUIZ, Rosa - ASAFF-TORRES, Ali - LOPEZ-GALLEGO, Fernando - CARLOS MATEOS-DIAZ, Juan. *Carrier-bound and carrier-free immobilization of type A feruloyl esterase from *Aspergillus niger*: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2020, vol. 316, no., pp. 6-16. Dostupné na:*

<https://doi.org/10.1016/j.jbiotec.2020.04.004>, Registrované v: WOS

3. [1.1] SURABHI, Singh - KUMAR, Nigam Vinod - ASHISH, Sachan. *Purification and characterization of an extracellular ferulic acid esterase from *Bacillus safensis* SS3006. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2020, vol. 15, no. 12, pp. 1-10., Registrované v: WOS*

- ADCA638 TOPAKAS, E. - STAMATIS, H. - MASTIHUBOVÁ, Mária - BIELY, Peter - KEKOS, D. - MACRIS, B.J. - CHRISTAKOPOULOS, P. Purification and characterization of a *Fusarium oxysporum* feruloyl esterase (FoFAE-I) catalysing transesterification of phenolic acid esters. In *Enzyme and Microbial Technology*, 2003, vol. 33, p. 729-737. (2003 - Current Contents). ISSN 0141-0229. Dostupné na: [https://doi.org/10.1016/S0141-0229\(03\)00213-8](https://doi.org/10.1016/S0141-0229(03)00213-8)

Citácie:

1. [1.1] OCHIENO, Dennis M. W. *Towards consensus on the transfer of *Fusarium oxysporum* V5w2-enhanced tissue culture banana technology to farmers through public-private partnerships in East Africa. In SCIENTIFIC AFRICAN. ISSN 2468-2276, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.1016/j.sciaf.2020.e00605>, Registrované v: WOS*

- ADCA639 TRNKA, Tomáš - TVAROŠKA, Igor - KOČA, Jaroslav**. Automated training of reaxFF reactive force fields for energetics of enzymatic reactions. In *Journal of Chemical Theory and Computation*, 2018, vol. 14, p. 291-302. (2017: 5.399 - IF, Q1 - JCR, 2.497 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN

1549-9618. Dostupné na: <https://doi.org/10.1021/acs.jctc.7b00870>

Citácie:

1. [1.1] DULONG, Clement - MADEBENE, Bruno - MONTI, Susanna - RICHARDI, Johannes. Optimization of a New Reactive Force Field for Silver-Based Materials. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2020, vol. 16, no. 11, pp. 7089-7099. Dostupné na: <https://doi.org/10.1021/acs.jctc.0c00480>., Registrované v: WOS
2. [1.1] HAO, Huali - CHOW, Cheuk Lun - LAU, Denvi. Carbon monoxide release mechanism in cellulose combustion using reactive forcefield. In *FUEL*. ISSN 0016-2361, 2020, vol. 269, no., pp. Dostupné na: <https://doi.org/10.1016/j.fuel.2020.117422>., Registrované v: WOS
3. [1.1] MUELLER, Tim - HERNANDEZ, Alberto - WANG, Chuhong. Machine learning for interatomic potential models. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2020, vol. 152, no. 5, pp. Dostupné na: <https://doi.org/10.1063/1.5126336>., Registrované v: WOS
4. [1.1] RAHNAMOUN, Ali - KAYMAK, Mehmet Cagri - MANATHUNGA, Madushanka - GOTZ, Andreas W. - VAN DUIN, Adri C. T. - MERZ, Kenneth M. - AKTULGA, Hasan Metin. ReaxFF/AMBER-A Framework for Hybrid Reactive/Nonreactive Force Field Molecular Dynamics Simulations. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2020, vol. 16, no. 12, pp. 7645-7654. Dostupné na: <https://doi.org/10.1021/acs.jctc.0c00874>., Registrované v: WOS

ADCA640

TSIRIGOTIS-MANIECKA, Marta - PAWLACZYK-GRAJA, Izabela** - ZIEWIECKI, Rafal - BALICKI, Sebastian - MATULOVÁ, Mária - CAPEK, Peter - CZECHOWSKI, Franciszek - GANCARZ, Roman. The polyphenolic-polysaccharide complex of Agrimonia L. as an indirect thrombin inhibitor - isolation and chemical characterization. In *International Journal of Biological Macromolecules*, 2019, vol. 125, p. 124-132. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0141-8130. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2018.12.017>

Citácie:

1. [1.1] COELHO, Mariana N. - SOARES, Paulo A. G. - FRATTANI, Flavia S. - CAMARGO, Luiza M. M. - TOVAR, Ana M. F. - DE AGUIAR, Paula F. - ZINGALI, Russolina B. - MOURAO, Paulo A. S. - COSTA, Sonia S. Polysaccharide composition of an anticoagulant fraction from the aqueous extract of *Marsypianthes chamaedrys* (Lamiaceae). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 145, no., pp. 668-681. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2019.12.176>., Registrované v: WOS
2. [1.1] GARCIA-OLIVEIRA, P. - FRAGA-CORRAL, M. - PEREIRA, A. G. - LOURENCO-LOPES, C. - JIMENEZ-LOPEZ, C. - PRIETO, M. A. - SIMAL-GANDARA, J. Scientific basis for the industrialization of traditionally used plants of the Rosaceae family. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2020, vol. 330, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127197>., Registrované v: WOS
3. [1.1] PALUCH, Zoltan - BIRICZOVA, Lilla - PALLAG, Gergely - MARQUES, Emanuel Carvalho - VARGOVA, Natalia - KMONICKOVA, Eva. The Therapeutic Effects of *Agrimonia eupatoria* L. In *PHYSIOLOGICAL RESEARCH*. ISSN 0862-8408, 2020, vol. 69, no., pp. S555-S571. Dostupné na: <https://doi.org/10.33549/physiolres.934641>., Registrované v: WOS
4. [1.1] SPIRIDON, Iuliana. Extraction of lignin and therapeutic applications of lignin-derived compounds. A review. In *ENVIRONMENTAL CHEMISTRY*

- LETTERS. ISSN 1610-3653, 2020, vol. 18, no. 3, pp. 771-785. Dostupné na: <https://doi.org/10.1007/s10311-020-00981-3>, Registrované v: WOS*
5. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo. *Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>, Registrované v: WOS*
6. [1.1] ZHOU, Peng - FENG, Ru - LUO, Zhen - LI, Xiaoyu - WANG, Lu - GAO, Lili. *Synthesis, identification and bioavailability of Juglans regia L. polyphenols-Hohenbuehelia serotina polysaccharides nanoparticles. In FOOD CHEMISTRY. ISSN 0308-8146, 2020, vol. 329, no., pp. Dostupné na: <https://doi.org/10.1016/j.foodchem.2020.127158>, Registrované v: WOS*

ADCA641

TVAROŠKA, Igor. Atomistic insight into the catalytic mechanism of glycosyltransferases by combined quantum mechanics/molecular mechanics (QM/MM) methods. In Carbohydrate Research, 2015, vol.403, p. 38-47. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2014.06.017>

Citácie:

1. [1.1] BARATH, Marek - JAKUBCINOVA, Jana - KONYARIKOVA, Zuzana - KOZMON, Stanislav - MIKUSOVA, Katarina - BELLA, Maros. *Synthesis, docking study and biological evaluation of D-fructofuranosyl and D-tagatofuranosyl sulfones as potential inhibitors of the mycobacterial galactan synthesis targeting the galactofuranosyltransferase GlfT2. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2020, vol. 16, no., pp. 1853-1862. Dostupné na: <https://doi.org/10.3762/bjoc.16.152>, Registrované v: WOS*
2. [1.1] JAKUBCINOVA, Jana - KOZMON, Stanislav - SESTAK, Sergej - BARATH, Marek. *Novel 1-O-Sulfono-alpha-d-Fructofuranosyl Sulfones as Possible Inhibitors of Human GnT-I Enzyme. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 16, pp. 4967-4972. Dostupné na: <https://doi.org/10.1002/slct.202001098>, Registrované v: WOS*
3. [1.1] KONA, J. *How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-) in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5'; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>, Registrované v: WOS*
4. [1.1] SCHERBININA, Sofya I. - TOUKACH, Philip V. *Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>, Registrované v: WOS*
5. [1.1] TURUPCU, Ayseguel - POLIAK, Peter - MARGREITTER, Christian - OOSTENBRINK, Chris - STAUDACHER, Erika. *UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase from the snail Biomphalaria glabrata structural reflections. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2020, vol. 37, no. 1, pp. 15-25. Dostupné na: <https://doi.org/10.1007/s10719-019-09886-y>, Registrované v: WOS*
6. [1.1] ZHANG HAO-WEN - CAO HAO - WANG YU-LU - XIN FENG-JIAO.

Research Progress on Carbohydrate Active Enzymes (CAZYmes) Derived From Human Gut Microbiota. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, 2020, vol. 47, no. 7, pp. 607-625. Dostupné na: <https://doi.org/10.16476/j.pibb.2020.0059>., Registrované v: WOS

- ADCA642 TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. A QM/MM Investigation of the Catalytic Mechanism of Metal-Ion-Independent Core 2 beta 1,6-N-Acetylglucosaminyltransferase. In Chemistry -A European Journal, 2013, vol. 19, p. 8153-8162. (2012: 5.831 - IF, Q1 - JCR, 2.935 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201300383>

Citácie:

1. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

- ADCA643 TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Substrate-Assisted Catalytic Mechanism of O-GlcNAc Transferase Discovered by Quantum Mechanics/Molecular Mechanics Investigation. In Journal of the American Chemical Society, 2012, vol. 134, p. 15563-15571. (2011: 9.907 - IF, Q1 - JCR, 5.478 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0002-7863. ??? (2011: 9.907 - IF, Q1 - JCR, 5.478 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0002-7863. Dostupné na: <https://doi.org/10.1021/ja307040m>

Citácie:

1. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

- ADCA644 TVAROŠKA, Igor. Structural insights into the catalytic mechanism and transition state of glycosyltransferases using ab initio molecular modeling. In Trends in Glycoscience and Glycotechnology, 2005, vol. 17, p. 177-190. Dostupné na: <https://doi.org/10.4052/tigg.17.177>

Citácie:

1. [1.1] KONA, J. How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>., Registrované v: WOS

- ADCA645 TVAROŠKA, Igor - TARAVEL, F.R. - UTILLE, J.P. - CARVER, J.P. Quantum mechanical and NMR spectroscopy studies on the conformations of the hydroxymethyl and methoxymethyl groups in aldohexosides. In Carbohydrate Research, 2002, vol. 337, p. 353-367. (2001: 1.349 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/S0008-6215\(01\)00315-9](https://doi.org/10.1016/S0008-6215(01)00315-9)

Citácie:

1. [1.1] DVORES, M. P. - CARCABAL, P. - MAITRE, P. - SIMONS, J. P. - GERBER, R. B. Gas phase dynamics, conformational transitions and

spectroscopy of charged saccharides: the oxocarbenium ion, protonated anhydrogalactose and protonated methyl galactopyranoside. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2020, vol. 22, no. 7, pp. 4144-4157. Dostupné na: <https://doi.org/10.1039/c9cp06572e>., Registrované v: WOS

2. [1.1] FENG, Xuan - LI, Fan - DING, Mingming - ZHANG, Ran - SHI, Tongfei. *Molecular dynamic simulation: Conformational properties of single-stranded curdlan in aqueous solution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 250, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116906>., Registrované v: WOS*

ADCA646 TVAROŠKA, Igor - TARAVEL, F.R. Carbon-proton coupling constants in the conformational analysis of sugar-molecules. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1995, vol. 51, p. 15-61. ISSN 0065-2318.

Citácie:

1. [1.1] ALSARRAF, Jerome - GORMAND, Paul - LEGAULT, Jean - MIHOUB, Mouadh - PICHETTE, Andre. *Synthesis of a first-generation L-rhamnose dendron. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2020, vol. 61, no. 14, pp. Dostupné na: <https://doi.org/10.1016/j.tetlet.2020.151706>., Registrované v: WOS*

2. [1.1] DEVANTHERY, Thierry - NAKAMURA, Keisuke - HASHIGUCHI, Shuhei - HASHIMOTO, Masahito. *Structure of a heptose-containing polysaccharide derived from Komagataeibacter europaeus NBRC 3261. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 492, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.107989>., Registrované v: WOS*

3. [1.1] GAST, Daniel - KOLLER, Franziska - KRAFCZYK, Ralph - BAUER, Lukas - WUNDER, Svetlana - LASSAK, Juergen - HOFFMANN-ROEDER, Anja. *A set of rhamnosylation-specific antibodies enables detection of novel protein glycosylations in bacteria. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 35, pp. 6823-6828. Dostupné na: <https://doi.org/10.1039/d0ob01289k>., Registrované v: WOS*

ADCA647 TVAROŠKA, Igor - BLEHA, Tomáš. Anomeric and exoanomeric effects in carbohydrate chemistry. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1989, vol. 47, p. 45-123. ISSN 0065-2318.

Citácie:

1. [1.1] CARBAJO-GORDILLO, A.I. - BLANCO, J.L.J. - BENITO, J.M. - LANA, H. - MARCELO, G. - DI GIORGIO, C. - PRZYBYLSKI, C. - HINOUE, H. - CENA, V. - MELLET, C.O. - MENDICUTI, F. - DE ILARDUYA, C.T. - FERNANDEZ, J.M.G. *Click Synthesis of Size- and Shape-Tunable Star Polymers with Functional Macrocyclic Cores for Synergistic DNA Complexation and Delivery. In BIOMACROMOLECULES. ISSN 1525-7797, DEC 2020, vol. 21, no. 12, p. 5173-5188., Registrované v: WOS*

2. [1.1] GAWEDA, K. - PLAZINSKI, W. *The endo- and exo-Anomeric Effects in Furanosides. A Computational Study. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, FEB 14 2020, vol. 2020, no. 6, p. 674-679., Registrované v: WOS*

3. [1.1] GENG, X.Y. - WANG, G.R. - GUO, Z.W. - GU, G.F. *Synthesis of the Oligosaccharides of Burkholderia pseudomallei and B. mallei Capsular Polysaccharide and Preliminary Immunological Studies of Their Protein Conjugates. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, FEB 21 2020, vol. 85, no. 4, p. 2369-2384., Registrované v: WOS*

4. [1.1] KHANAM, A. - TIWARI, A. - MANDAL, P.K. *Chiral auxiliaries: Usefulness in stereoselective glycosylation reactions and their synthetic*

applications. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, SEP 2020, vol. 495., Registrované v: WOS

5. [1.1] *TAMBURRINI, A. - COLOMBO, C. - BERNARDI, A. Design and synthesis of glycomimetics: Recent advances. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, MAR 2020, vol. 40, no. 2, p. 495-531., Registrované v: WOS*

- ADCA648 TVAROŠKA, Igor** - SELVARAJ, Chandrabose - KOČA, Jaroslav. Selectins—The two Dr. Jekyll and Mr. Hyde faces of adhesion molecules—A review. In *Molecules*, 2020, vol. 25, art. no. 2835 [61] p. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules25122835>

Citácie:

1. [1.1] *AGUILAR, Gaynor - KONING, Tania - EHRENFELD, Pamela - SANCHEZ, Fabiola A. Role of NO and S-nitrosylation in the Expression of Endothelial Adhesion Proteins That Regulate Leukocyte and Tumor Cell Adhesion. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: https://doi.org/10.3389/fphys.2020.595526., Registrované v: WOS*

- ADCA649 UHLIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - MCCLEARY, Barry V. - BIELY, Peter. Positional specificity of acetylxyylan esterases on natural polysaccharide: An NMR study. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 3365-3372. (2012: 3.848 - IF, Q1 - JCR, 2.121 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2013.01.011>

Citácie:

1. [1.1] *SZNAIDER, Frank - ROJAS, Ana M. - STORTZ, Carlos A. - NAVARRO, Diego A. Chemical structure and rheological studies of arabinoglucuronoxylans from the Cercidium praecox exudate brea gum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 228, no., pp. Dostupné na: https://doi.org/10.1016/j.carbpol.2019.115388., Registrované v: WOS*

- ADCA650 URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, K.B.R. - HOFF, T. - BIELY, Peter. Structural basis for substrate recognition by Erwinia chrysanthemi GH30 glucuronoxylanase. In *FEBS Journal*, 2011, vol. 278, p. 2105-2116. (2010: 3.129 - IF, Q2 - JCR, 1.669 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1742-464X. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2011.08127.x>

Citácie:

1. [1.1] *BHARDWAJ, Nisha - VERMA, Vijay Kumar - CHATURVEDI, Venkatesh - VERMA, Pradeep. Cloning, expression and characterization of a thermo-alkali-stable xylanase from Aspergillus oryzae LC1 in Escherichia coli BL21(DE3). In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2020, vol. 168, no., pp. Dostupné na: https://doi.org/10.1016/j.pep.2019.105551., Registrované v: WOS*

2. [1.1] *BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxyloligosaccharides (UXOS) and arabinoxyloligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2019.11.073., Registrované v: WOS*

3. [1.1] *CROOKS, Casey - LONG, Liangkun - ST JOHN, Franz J. CaXyn30B*

- from the solventogenic bacterium *Clostridium acetobutylicum* a glucuronic acid-dependent endoxylanase. In *BMC RESEARCH NOTES*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13104-020-05091-5>, Registrované v: WOS 4. [1.1] HAGIWARA, Yusuke - MIHARA, Yasuhiro - SAKAGAMI, Koichi - SAGARA, Ryuta - BAT-ERDENE, Undramaa - YATSUNAMI, Rie - NAKAMURA, Satoshi. Isolation of four xylanases capable of hydrolyzing corn fiber xylan from *Paenibacillus* sp. H2C. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2020, vol. 84, no. 3, pp. 640-650. Dostupné na: <https://doi.org/10.1080/09168451.2019.1693253>, Registrované v: WOS 5. [1.1] JIMENEZ-ORTEGA, Elena - VALENZUELA, Susana - RAMIREZ-ESCUADERO, Mercedes - PASTOR, Francisco Javier - SANZ-APARICIO, Julia. Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 deciphers its molecular specificity. In *FEBS JOURNAL*. ISSN 1742-464X, 2020, vol. 287, no. 24, pp. 5362-5374. Dostupné na: <https://doi.org/10.1111/febs.15332>, Registrované v: WOS 6. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>, Registrované v: WOS 7. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus *Talaromyces cellulolyticus*. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2020, vol. 76, no., pp. 341-349. Dostupné na: <https://doi.org/10.1107/S2053230X20009024>, Registrované v: WOS 8. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>, Registrované v: WOS

ADCA651 VAAJE-KOLSTAD, G. - FARKAŠ, Vladimír - HRMOVÁ, Mária - FINCHER, G.B. Xyloglucan xyloglucosyl transferases from barley (*Hordeum vulgare* L.) bind oligomeric and polymeric xyloglucan molecules in their acceptor binding sites. In *Biochimica et Biophysica Acta : general subjects*, 2010, vol. 1800, p. 674-684. (2009: 2.958 - IF, Q2 - JCR, 1.256 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0304-4165. Dostupné na: <https://doi.org/10.1016/j.bbagen.2010.04.001>

Citácie:

1. [1.1] VALENZUELA-RIFFO, Felipe - MORALES-QUINTANA, Luis. Study of the structure and binding site features of FaEXPA2, an alpha-expansin protein involved in strawberry fruit softening. In *COMPUTATIONAL BIOLOGY AND CHEMISTRY*. ISSN 1476-9271, 2020, vol. 87, no., pp. Dostupné na: <https://doi.org/10.1016/j.combiolchem.2020.107279>, Registrované v: WOS
- ADCA652 VACULÍK, Marek - LUX, Alexander - LUXOVÁ, Miroslava - TANIMOTO, Eiichi - LICHTSCHEIDL, Irene. Silicon mitigates cadmium inhibitory effects in young maize plants. In *Environmental and Experimental Botany*, 2009, vol. 67, no. 1, p. 52-58. (2008: 2.301 - IF, Q1 - JCR, 0.963 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, SCOPUS, GEOBASE, BIOSIS). ISSN 0098-8472. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2009.06.012>

Citácie:

1. [1.1] ADHIKARI, A. - KHAN, M.A. - LEE, K.E. - KANG, S.M. - DHUNGANA, S.K. - BHUSAL, N. - LEE, I.J. *The Halotolerant Rhizobacterium-Pseudomonas koreensis*MU2 Enhances Inorganic Silicon and Phosphorus Use Efficiency and Augments Salt Stress Tolerance in Soybean (*Glycine max*L.). In *MICROORGANISMS*. SEP 2020, vol. 8, no. 9., Registrované v: WOS
2. [1.1] BECKER, M. - NGO, N.S. - SCHENK, M.K.A. *Silicon reduces the iron uptake in rice and induces iron homeostasis related genes*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, MAR 19 2020, vol. 10, no. 1., Registrované v: WOS
3. [1.1] DELPLACE, G. - SCHRECK, E. - POKROVSKY, O.S. - ZOUITEN, C. - BLONDET, I. - DARROZES, J. - VIERS, J. *Accumulation of heavy metals in phytoliths from reeds growing on mining environments in Southern Europe*. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, APR 10 2020, vol. 712., Registrované v: WOS
4. [1.1] EMAMVERDIAN, A. - DING, Y.L. - MOKHBERDORAN, F. - AHMAD, Z. - XIE, Y.F. *Determination of heavy metal tolerance threshold in a bamboo species (*Arundinaria pygmaea*) as treated with silicon dioxide nanoparticles*. In *GLOBAL ECOLOGY AND CONSERVATION*. ISSN 2351-9894, DEC 2020, vol. 24., Registrované v: WOS
5. [1.1] HU, Y.H. - WANG, Y.C. - LIANG, Y.F. - GUO, J. - GONG, H.J. - XU, Z.M. *Silicon alleviates mercury toxicity in garlic plants*. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, OCT 1 2020, vol. 43, no. 16, p. 2508-2517., Registrované v: WOS
6. [1.1] KRESZIES, T. - KRESZIES, V. - LY, F. - THANGAMANI, P.D. - SHELLAKKUTTI, N. - SCHREIBER, L. *Suberized transport barriers in plant roots: the effect of silicon*. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6799-6806., Registrované v: WOS
7. [1.1] LIU, H.B. - MENCHYK, N. - BETHEA, F. - BALDWIN, C. - TAYLOR, J. - PATRICK, C. *Nutrient Management of Golf Course Putting Greens under Stress*. In *HANDBOOK OF PLANT AND CROP STRESS, 4TH EDITION*. 2020, p. 315-341., Registrované v: WOS
8. [1.1] LIU, H.B. - MENCHYK, N. - BETHEA, F. - BALDWIN, C. - TAYLOR, J. - PATRICK, C. *Turfgrass Nutrient Management under Stresses A Part of Integrated Stress Management*. In *HANDBOOK OF PLANT AND CROP STRESS, 4TH EDITION*. 2020, p. 293-313., Registrované v: WOS
9. [1.1] LIU, Y.K. - TAO, Q. - GUO, X.Y. - LUO, J.P. - LI, J.X. - LIANG, Y.C. - LI, T.Q. *Low calcium-induced delay in development of root apoplastic barriers enhances Cd uptake and accumulation in *Sedum alfredii**. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, JUN 25 2020, vol. 723., Registrované v: WOS
10. [1.1] MAGHSOUDI, K. - ARVIN, M.J. - ASHRAF, M. *Mitigation of Arsenic Toxicity in Wheat by the Exogenously Applied Salicylic Acid, 24-Epi-Brassinolide and Silicon*. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9508, JUN 2020, vol. 20, no. 2, p. 577-588., Registrované v: WOS
11. [1.1] MAJUMDAR, S. - PRAKASH, N.B. *An Overview on the Potential of Silicon in Promoting Defence Against Biotic and Abiotic Stresses in Sugarcane*. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9508, DEC 2020, vol. 20, no. 4, p. 1969-1998., Registrované v: WOS
12. [1.1] RAHMAN, S.H.U. - QI, X. - ZHANG, Z. - ASHRAF, M.N. - DU, Z. - ZHONG, Y.L. - MEHMOOD, F. - RAHMAN, S.U. - SHEHZAD, M. *THE EFFECT OF SILICON FOLIAR AND ROOT APPLICATION ON GROWTH, PHYSIOLOGY, AND ANTIOXIDANT ENZYME ACTIVITY OF WHEAT PLANTS*

- UNDER CADMIUM TOXICITY. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2020, vol. 18, no. 2, p. 3349-3371., Registrované v: WOS*
13. [1.1] SHABAYEV, V.P. - BOCHARNIKOVA, E.A. - OSTROUMOV, V.E. *Remediation of Cadmium-Polluted Soil Using Plant Growth-Promoting Rhizobacteria and Natural Zeolite. In EURASIAN SOIL SCIENCE. ISSN 1064-2293, JUN 2020, vol. 53, no. 6, p. 809-819., Registrované v: WOS*
14. [1.1] SOHAIL, M.I. - REHMAN, M.Z.U. - RIZWAN, M. - YOUSAF, B. - ALI, S. - UL HAQ, M.A. - ANAYAT, A. - WARIS, A.A. *Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. In CHEMOSPHERE. ISSN 0045-6535, APR 2020, vol. 244., Registrované v: WOS*
15. [1.1] STERCKEMAN, T. - THOMINE, S. *Mechanisms of Cadmium Accumulation in Plants. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, JUL 3 2020, vol. 39, no. 4, p. 322-359., Registrované v: WOS*
16. [1.1] TIAN, J. - LIU, F.W. - FAN, W.H. - JIA, X.R. - WANG, G.L. *Effect of Silicon on Cadmium Absorption of Cucumber Organs in Calcareous Soil. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, JUL 16 2020, vol. 231, no. 7., Registrované v: WOS*
17. [1.1] YANG, J.S. - DAI, Y.J. - LIU, Y.J. - DUAN, S.H. - LI, Y.Y. - HU, R.S. - ZHOU, Z.C. - SHI, Y. - LIU, H.W. - WANG, S.S. *Reduced cadmium accumulation in tobacco by sodium chloride priming. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, OCT 2020, vol. 27, no. 30, p. 37410-37418., Registrované v: WOS*
18. [1.1] ZEHRA, A. - CHOUDHARY, S. - WANI, K.I. - NAEEM, M. - KHAN, M.M.A. - AFTAB, T. *Silicon-mediated cellular resilience mechanisms against copper toxicity and glandular trichomes protection for augmented artemisinin biosynthesis in Artemisia annua. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, NOV 1 2020, vol. 155., Registrované v: WOS*
19. [1.2] BOCHARNIKOVA, E. A. - SHABAYEV, V. P. - OSTROUMOV, V. E. - DEMIN, D. V. *Natural zeolites: Prospects for heavy metal polluted soil remediation. In IOP Conference Series: Materials Science and Engineering. ISSN 17578981, 2020-09-10, 921, 1, pp. Dostupné na: <https://doi.org/10.1088/1757-899X/921/1/012003>., Registrované v: SCOPUS*
20. [1.2] IVANOV, Anatoly A. - KOSOBRYUKHOV, Anatoly A. *Ecophysiology of plants under cadmium toxicity: Photosynthetic and physiological responses. In Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I: General Consequences and Plant Responses, 2020-01-01, pp. 429-484. Dostupné na: https://doi.org/10.1007/978-981-15-2156-0_15., Registrované v: SCOPUS*

ADCA653 VACULÍK, Marek** - LUKAČOVÁ, Zuzana - BOKOR, Boris - MARTINKA, Michal - TRIPATHI, Durgesh Kumar - LUX, Alexander. *Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In Journal of Experimental Botany, 2020, vol. 71, no. 21, p. 6744-6757. (2019: 5.908 - IF, Q1 - JCR, 2.647 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-0957. Dostupné na: <https://doi.org/10.1093/jxb/eraa288>*

Citácie:

1. [1.1] GOMEZ-MERINO, F.C. - TREJO-TELLEZ, L.I. - GARCIA-JIMENEZ, A. - ESCOBAR-SEPULVEDA, H.F. - RAMIREZ-OLVERA, S.M. *Silicon flow from root to shoot in pepper: a comprehensive in silico analysis reveals a potential linkage between gene expression and hormone signaling that stimulates plant growth and metabolism. In PEERJ. ISSN 2167-8359, NOV 4 2020, vol. 8.,*

Registrované v: WOS

2. [1.1] VEGA, I. - RUMPEL, C. - RUIZ, A. - MORA, M.D. - CALDERINI, D.F. - CARTES, P. *Silicon Modulates the Production and Composition of Phenols in Barley under Aluminum Stress. In AGRONOMY-BASEL. AUG 2020, vol. 10, no. 8., Registrované v: WOS*

ADCA654 KOVÁČOVÁ, Kristína - DEGANI, Genny - STRATILOVÁ, Eva - FARKAŠ, Vladimír - POPOLO, Laura. Catalytic properties of Phr family members of cell wall glucan remodeling enzymes: implications for the adaption of *Candida albicans* to ambient pH. In FEMS Yeast Research, 2015, vol.15, p. fou11 (13 pages. ISSN 1567-1356. Dostupné na: <https://doi.org/10.1093/femsyr/fou011>

Citácie:

1. [1.1] CHEN, Hui - ZHOU, Yujie - ZHOU, Xuedong - LIAO, Binyou - XU, Hockin H. K. - CHU, Chun-Hung - CHENG, Lei - REN, Biao.

Dimethylaminododecyl methacrylate inhibits Candida albicans and oropharyngeal candidiasis in a pH-dependent manner. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 8, pp. 3585-3595. Dostupné na: <https://doi.org/10.1007/s00253-020-10496-0>., Registrované v: WOS

2. [1.1] LIU, Yuntao - LI, Yiwen - ZHANG, Huilan - LI, Cheng - ZHANG, Zhiqing - LIU, Aiping - CHEN, Hong - HU, Bin - LUO, Qingying - LIN, Bokun - WU, Wenjuan. Polysaccharides from *Cordyceps militaris* cultured at different pH: Sugar composition and antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 162, no., pp. 349-358. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.182>., Registrované v: WOS

ADCA655 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Metal tolerance of yeasts isolated from water, soil and plant environments. In Journal of Basic Microbiology, 2006, vol. 46, p. 145-152. (2005: 1.000 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0233-111X. Dostupné na: <https://doi.org/10.1002/jobm.200510609>

Citácie:

1. [1.1] AL-HAGAR, Ola E. A. - BAYOUMI, Reda A. - AZIZ, Osama A. Abdel - MOUSA, Abeer Mohamed. Biosorption and adsorption of some heavy metals by *Fusarium sp. F6c* isolate as affected by gamma irradiation and agricultural wastes. In SCIENCEASIA. ISSN 1513-1874, 2020, vol. 46, no. 1, pp. 37-+. Dostupné na: <https://doi.org/10.2306/scienceasia1513-1874.2020.008>., Registrované v: WOS

2. [1.1] GARCIA-BEJAR, Beatriz - AREVALO-VILLENA, Maria - GUI SANTES-BATAN, Eduardo - RODRIGUEZ-FLORES, Juana - BRIONES, Ana. Study of the bioremediatory capacity of wild yeasts. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41598-020-68154-4>., Registrované v: WOS

3. [1.1] KERFAHI, Dorsaf - OGWU, Matthew Chidozie - ARIUNZAYA, Dagvatseren - BALT, Altantsetseg - DAVAASUREN, Dulamsuren - ENKHMANDAL, Orsoo - PUREVSUREN, Tsolmonjav - BATBAATAR, Amgaa - TIBBETT, Mark - UNDRAKHBOLD, Sainbileg - BOLDGIV, Bazartseren - ADAMS, Jonathan M. Metal-Tolerant Fungal Communities Are Delineated by High Zinc, Lead, and Copper Concentrations in Metalliferous Gobi Desert Soils. In MICROBIAL ECOLOGY. ISSN 0095-3628, 2020, vol. 79, no. 2, pp. 420-431. Dostupné na: <https://doi.org/10.1007/s00248-019-01405-8>., Registrované v: WOS

4. [1.1] KIM CUC THI NGUYEN - PHU VAN NGUYEN - HAI THI HONG TRUONG. Heavy Metal Tolerance of Novel *Papiliotrema* Yeast Isolated from

Vietnamese Mangosteen. In MYCOBIOLOGY. ISSN 1229-8093, 2020, vol. 48, no. 4, pp. 296-303. Dostupné na: <https://doi.org/10.1080/12298093.2020.1767020>., Registrované v: WOS

5. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS*

6. [1.1] MANNA, M. C. - SAHU, Asha - DE, Nirmal - THAKUR, J. K. - MANDAL, Asit - BHATTACHARJYA, Sudeshna - GHOSH, Avijit - RAHMAN, Mohammad Mahmudur - NAIDU, Ravi - SINGH, Udai Bhan - DAKHLI, Raja - SHARMA, M. P. - MISRA, Sukanya. Novel bio-filtration method for the removal of heavy metals from municipal solid waste. In *ENVIRONMENTAL TECHNOLOGY & INNOVATION. ISSN 2352-1864, 2020, vol. 17, no., pp. Dostupné na: <https://doi.org/10.1016/j.eti.2020.100619>., Registrované v: WOS*

7. [1.1] MARTINS, Luis C. - MONTEIRO, Catarina C. - SEMEDO, Paula M. - SA-CORREIA, Isabel. Valorisation of pectin-rich agro-industrial residues by yeasts: potential and challenges. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2020, vol. 104, no. 15, pp. 6527-6547. Dostupné na: <https://doi.org/10.1007/s00253-020-10697-7>., Registrované v: WOS*

8. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Soil Yeast Communities in Revegetated Post-Mining and Adjacent Native Areas in Central Brazil. In *MICROORGANISMS, 2020, vol. 8, no. 8, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8081116>., Registrované v: WOS*

9. [1.1] SOLTYS, Katarina - PLANY, Matej - BIOCCA, Paola - VIANELLO, Valentina - BUCKOVA, Maria - PUSKAROVA, Andrea - SCLOCCHI, Maria Carla - COLAIZZI, Piero - BICCHIERI, Marina - PANGALLO, Domenico - PINZARI, Flavia. Lead soaps formation and biodiversity in a XVIII Century wax seal coloured with minium. In *ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2020, vol. 22, no. 4, pp. 1517-1534. Dostupné na: <https://doi.org/10.1111/1462-2920.14735>., Registrované v: WOS*

ADCA656 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Influence of pesticides on the yeasts colonizing the leaves. In *Zeitschrift für Naturforschung C, 2011, vol. 66c, p. 588-594. (2010: 0.718 - IF, Q4 - JCR, 0.397 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0939-5075.*

Citácie:

1. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS*

2. [1.1] POTOCKI, Leszek - BARAN, Aleksandra - OKLEJEWICZ, Bernadetta - SZPYRKA, Ewa - PODBIELSKA, Magdalena - SCHWARZBACHEROVA, Viera. Synthetic Pesticides Used in Agricultural Production Promote Genetic Instability and Metabolic Variability in *Candida* spp. In *GENES, 2020, vol. 11, no. 8, pp. Dostupné na: <https://doi.org/10.3390/genes11080848>., Registrované v: WOS*

ADCA657 VADKERTIOVÁ, Renáta** - DUDÁŠOVÁ, Hana - STRATILOVÁ, Eva - BALAŠČÁKOVÁ, Marta. Diversity of yeasts in the soil adjacent to fruit trees of the Rosaceae family. In *Yeast, 2019, vol. 36, p. 617-631. (2018: 2.395 - IF, Q3 - JCR,*

0.874 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0749-503X. Dostupné na: <https://doi.org/10.1002/yea.3430>

Citácie:

1. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In *AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE*. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS

2. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and *Aureobasidium pullulans* Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In *ANTIBIOTICS-BASEL*. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS

ADCA658 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - LUX, Alexander - VACULÍK, Marek - LIŠKOVÁ, Desana. Yeasts associated with an abandoned mining area in Pernek and their tolerance to different chemical elements. In *Folia Microbiologica*, 2016, vol. 61, p.199-207. (2015: 1.335 - IF, Q4 - JCR, 0.472 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0015-5632. Dostupné na: <https://doi.org/10.1007/s12223-015-0424-9>

Citácie:

1. [1.1] ONETTO, Cristobal A. - SCHMIDT, Simon A. - ROACH, Michael J. - BORNEMAN, Anthony R. Comparative genome analysis proposes three new *Aureobasidium* species isolated from grape juice. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2020, vol. 20, no. 6, pp. Dostupné na: <https://doi.org/10.1093/femsyr/foaa052>., Registrované v: WOS

ADCA659 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - VRÁNOVÁ, Dana - SLÁVIKOVÁ, Elena. Yeasts and yeast-like organisms associated with fruits and blossoms of different fruit trees. In *Canadian Journal of Microbiology*, 2012, vol. 58, p. 1344-1352. (2011: 1.363 - IF, Q3 - JCR, 0.523 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0008-4166. Dostupné na: <https://doi.org/10.1139/cjm-2012-0468>

Citácie:

1. [1.1] BAIG, Farrukh - FARNIER, Kevin - PIPER, Alexander M. - SPEIGHT, Robert - CUNNINGHAM, John Paul. Yeasts Influence Host Selection and Larval Fitness in Two Frugivorous *Carpophilus* Beetle Species. In *JOURNAL OF CHEMICAL ECOLOGY*. ISSN 0098-0331, 2020, vol. 46, no. 8, pp. 675-687. Dostupné na: <https://doi.org/10.1007/s10886-020-01167-5>., Registrované v: WOS

2. [1.1] CHANDRA, Mahesh - MOTA, Mariana - SILVA, Ana Carla - FERREIRA, Manuel Malfeito. Forest Oak Woodlands and Fruit Tree Soils Are Reservoirs of Wine-Related Yeast Species. In *AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE*. ISSN 0002-9254, 2020, vol. 71, no. 3, pp. 191-197. Dostupné na: <https://doi.org/10.5344/ajev.2020.19067>., Registrované v: WOS

3. [1.1] CINI, Alessandro - MERIGGI, Niccolo - BACCI, Giovanni - CAPPA, Federico - VITALI, Francesco - CAVALIERI, Duccio - CERVO, Rita. Gut microbial composition in different castes and developmental stages of the invasive hornet *Vespa velutina nigrithorax*. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2020, vol. 745, no., pp. Dostupné na: <https://doi.org/10.1016/j.scitotenv.2020.140873>., Registrované v: WOS

4. [1.1] LENEVEU-JENVRIN, Charlene - QUENTIN, Baptiste - ASSEMAT, Sophie - HOARAU, Mathilde - MEILE, Jean-Christophe - REMIZE, Fabienne. Changes of Quality of Minimally-Processed Pineapple (*Ananas comosus*, var.

- ';Queen Victoria';) during Cold Storage: Fungi in the Leading Role. In MICROORGANISMS, 2020, vol. 8, no. 2, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8020185>., Registrované v: WOS
5. [1.1] LUKSA, Juliana - SERVIENE, Elena. WHITE MULBERRY (MORUS ALBA L.) FRUIT-ASSOCIATED BACTERIAL AND FUNGAL MICROBIOTA. In JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT. ISSN 1648-6897, 2020, vol. 28, no. 4, pp. 183-191. Dostupné na: <https://doi.org/10.3846/jeelm.2020.13735>., Registrované v: WOS
6. [1.1] LUKSA, Juliana - VEPSTAITE-MONSTAVICE, Igle - APSEGAITE, Violeta - BLAZYTE-CERESKIENE, Laima - STANEVICIENE, Ramune - STRAZDAITE-ZIELIENE, Zivile - RAVOITYTE, Bazile - ALEKNAVICIUS, Dominykas - BUDA, Vincas - MOZURAITIS, Raimondas - SERVIENE, Elena. Fungal Microbiota of Sea Buckthorn Berries at Two Ripening Stages and Volatile Profiling of Potential Biocontrol Yeasts (vol 8, 456, 2020). In MICROORGANISMS, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8071090>., Registrované v: WOS
7. [1.1] LYONS, Naomi - SOFTLEY, Isabel - BALFOUR, Andrew - WILLIAMSON, Carolyn - O'BRIEN, Heath E. - SHETTY, Amol C. - BRUNO, Vincent M. - DIEZMANN, Stephanie. Tobacco Hornworm (Manduca sexta) caterpillars as a novel host model for the study of fungal virulence and drug efficacy. In VIRULENCE. ISSN 2150-5594, 2020, vol. 11, no. 1, pp. 1075-1089. Dostupné na: <https://doi.org/10.1080/21505594.2020.1806665>., Registrované v: WOS
8. [1.1] MAGOYE, Electine - HILBER-BODMER, Maja - PFISTER, Melanie - FREIMOSER, Florian M. Unconventional Yeasts Are Tolerant to Common Antifungals, and Aureobasidium pullulans Has Low Baseline Sensitivity to Captan, Cyprodinil, and Difenoconazole. In ANTIBIOTICS-BASEL. ISSN 2079-6382, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/antibiotics9090602>., Registrované v: WOS
9. [1.1] MOZURAITIS, Raimondas - ALEKNAVICIUS, Dominykas - VEPSTAITE-MONSTAVICE, Igle - STANEVICIENE, Ramune - EMAMI, Seyedeh Noushin - APSEGAITE, Violeta - RADZIUTE, Sandra - BLAZYTE-CERESKIENE, Laima - SERVIENE, Elena - BUDA, Vincas. Hippophae rhamnoides berry related Pichia kudriavzevii yeast volatiles modify behaviour of Rhagoletis batava flies. In JOURNAL OF ADVANCED RESEARCH. ISSN 2090-1232, 2020, vol. 21, no., pp. 71-77. Dostupné na: <https://doi.org/10.1016/j.jare.2019.08.001>., Registrované v: WOS
10. [1.1] SARE, Abdoul Razack - STOUVENAKERS, Gilles - ECK, Mathilde - LAMPENS, Amber - GOORMACHTIG, Sofie - JIJAKLI, M. Haissam - MASSART, Sebastien. Standardization of Plant Microbiome Studies: Which Proportion of the Microbiota is Really Harvested? In MICROORGANISMS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8030342>., Registrované v: WOS
11. [1.1] SIPICZKI, Matthias. Metschnikowia pulcherrima and Related Pulcherrimin-Producing Yeasts: Fuzzy Species Boundaries and Complex Antimicrobial Antagonism. In MICROORGANISMS, 2020, vol. 8, no. 7, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8071029>., Registrované v: WOS
12. [1.1] SKOTNICZNY, Magdalena - SATORA, Pawel - PANCZYSZYN, Katarzyna - CIOCH-SKONECZNY, Monika. Growth Dynamics and Diversity of Yeasts during Spontaneous Plum Mash Fermentation of Different Varieties. In FOODS, 2020, vol. 9, no. 8, pp. Dostupné na:

<https://doi.org/10.3390/foods9081054>, Registrované v: WOS

13. [1.1] VEGAS, Carlos - ZAVALA, Amparo - CANALES, Pamela E. - ESTEVE-ZARZOSO, Braulio. *Yeasts Associated with Various Amazonian Native Fruits. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331, 2020, vol. 69, no. 3, pp. 251-261. Dostupné na: <https://doi.org/10.33073/pjm-2020-027>, Registrované v: WOS*

- ADCA660 VAFIADI, Christina - TOPAKAS, Evangelos - BIELY, Peter. Purification, characterization and mass spectrometric sequencing of a thermophilic glucuronoyl esterase from *Sporotrichum thermophile*. Peter Biely. In FEMS Microbiology Letters, 2009, vol.296, p. 178-184. (2008: 2.021 - IF, Q3 - JCR, 1.084 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0378-1097. Dostupné na: <https://doi.org/10.1111/j.1574-6968.2009.01631.x>

Citácie:

1. [1.1] KRSKA, Daniel - LARSBRINK, Johan. *Investigation of a thermostable multi-domain xylanase-glucuronoyl esterase enzyme from *Caldicellulosiruptor kristjanssonii* incorporating multiple carbohydrate-binding modules. In BIOTECHNOLOGY FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01709-9>, Registrované v: WOS*

- ADCA661 VALACH, Milan - KATRLÍK, Jaroslav - ŠTURDÍK, Ernest - GEMEINER, Peter. Ethanol Gluconobacter biosensor designed for flow injection analysis Application in ethanol fermentation off-line monitoring. Ernest Šturdík, Peter Gemeiner. In Sensors and Actuators B, 2009, vol.138, p. 581-586. (2008: 3.122 - IF, Q1 - JCR, 1.448 - SJR, Q1 - SJR). Dostupné na: <https://doi.org/10.1016/j.snb.2009.02.017>

Citácie:

1. [1.1] CHEN, Hui - SIMOSKA, Olja - LIM, Koun - GRATTIERI, Matteo - YUAN, Mengwei - DONG, Fangyuan - LEE, Yoo Seok - BEAVER, Kevin - WELIWATTE, Samali - GAFFNEY, Erin M. - MINTEER, Shelley D. *Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 23, pp. 12903-12993. Dostupné na: <https://doi.org/10.1021/acs.chemrev.0c00472>, Registrované v: WOS*

- ADCA662 VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOĽSKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTĚS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In Carbohydrate Polymers, 2015, vol. 134, p. 516-523. (2014: 4.074 - IF, Q1 - JCR, 1.587 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0144-8617. Dostupné na:

<https://doi.org/10.1016/j.carbpol.2015.07.029> (VEGA č. 2/0065/15 : Protektívne účinky prírodných a syntetických látok pred oxidačným poškodením vysokomolekulového hyaluronanu, izolovaných živočíšnych buniek a ich mitochondrií. VEGA č. 2/0149/12 : Zlyhanie mozgového energetického metabolizmu v patobiochemickom mechanizme hypoxicko-ischemického poškodenia mozgu novorodencov)

Citácie:

1. [1.1] CAMBRA, J.M. - MARTINEZ, C.A. - RODRIGUEZ-MARTINEZ, H. - MARTINEZ, E.A. - CUELLO, C. - GIL, M.A. *N-(2-mercaptopropionyl)-glycine enhances in vitro pig embryo production and reduces oxidative stress. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1., Registrované v: WOS*

2. [1.1] GAO, Y.L. - LIU, Q.L. - KONG, W.L. - WANG, J. - HE, L. - GUO, L.K. - LIN, H. - FAN, H.S. - FAN, Y.J. - ZHANG, X.D. *Activated hyaluronic acid/collagen composite hydrogel with tunable physical properties and improved*

- biological properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, p. 2186-2196., Registrované v: WOS*
3. [1.1] GAO, Z.Y. - YANG, X.B. - JONES, E. - BINGHAM, P.A. - SCRIMSHIRE, A. - THORNTON, P.D. - TRONCI, G. *An injectable, self-healing and MMP-inhibiting hyaluronic acid gel via iron coordination. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 165, B, p. 2022-2029., Registrované v: WOS*
4. [1.1] KHACHATRYAN, G. - KHACHATRYAN, K. - KRSTYJAN, M. - KRZAN, M. - KHACHATRYAN, L. *Functional properties of composites containing silver nanoparticles embedded in hyaluronan and hyaluronan-lecithin matrix. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, p. 417-423., Registrované v: WOS*
5. [1.1] LIU, G.X. - LIN, T.S. - ZHANG, Q. - ZHANG, S.J. - JI, C.W. - ZHANG, S.W. - GUO, H.Q. *Hyaluronic Acid-IR780 Nanoparticles for Photothermal Ablation in Orthotopic Renal Cancer. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2020, vol. 2020, art. no. 2421971., Registrované v: WOS*
6. [1.1] MOHAMMADI, H. - ALIHOSSEINI, F. - HOSSEINI, S.A. *Improving physical and biological properties of nylon monofilament as suture by Chitosan/Hyaluronic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 164, p. 3394-3402., Registrované v: WOS*
7. [1.1] THANUSHA, A.V. - MOHANTY, S. - DINDA, A.K. - KOUL, V. *Fabrication and evaluation of gelatin/hyaluronic acid/chondroitin sulfate/asiatic acid based biopolymeric scaffold for the treatment of second-degree burn wounds - Wistar rat model study. In BIOMEDICAL MATERIALS. ISSN 1748-6041, SEP 2020, vol. 15, no. 5., Registrované v: WOS*

ADCA663 VALACHOVÁ, Katarína - TOPOLESKÁ, Dominika - MENDICHI, Raniero - COLLINS, Maurice N. - SASINKOVÁ, Vlasta - ŠOLTÉS, Ladislav. *Hydrogen peroxide generation by the Weissberger biogenic oxidative system during hyaluronan degradation. In Carbohydrate Polymers, 2016, vol. 148, p. 189-193. (2015: 4.219 - IF, Q1 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617. Dostupné na: <https://doi.org/10.1016/j.carbpol.2016.04.063> (VEGA č. 2/0065/15 : Protektívne účinky prírodných a syntetických látok pred oxidačným poškodením vysokomolekulového hyalurónanu, izolovaných živočíšnych buniek a ich mitochondrii)*

Citácie:

1. [1.1] BUCATARIU, S.M. - CONSTANTIN, M. - VARGANICI, C.D. - RUSU, D. - NICOLESCU, A. - PRISACARU, I. - CARNUTA, M. - ANGHELACHE, M. - CALIN, M. - ASCENZI, P. - FUNDUEANU, G. *A new sponge-type hydrogel based on hyaluronic acid and poly (methylvinylether-alt-maleic acid) as a 3D platform for tumor cell growth. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, B, p. 2528-2540., Registrované v: WOS*
2. [1.1] GAO, Y.L. - LIU, Q.L. - KONG, W.L. - WANG, J. - HE, L. - GUO, L.K. - LIN, H. - FAN, H.S. - FAN, Y.J. - ZHANG, X.D. *Activated hyaluronic acid/collagen composite hydrogel with tunable physical properties and improved biological properties. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 2186-2196., Registrované v: WOS*
3. [1.1] GAO, Z.Y. - YANG, X.B. - JONES, E. - BINGHAM, P.A. - SCRIMSHIRE,

- A. - THORNTON, P.D. - TRONCI, G. *An injectable, self-healing and MMP-inhibiting hyaluronic acid gel via iron coordination. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, B, p. 2022-2029., Registrované v: WOS*
4. [1.1] KHACHATRYAN, G. - KHACHATRYAN, K. - KRYSTYJAN, M. - KRZAN, M. - KHACHATRYAN, L. *Functional properties of composites containing silver nanoparticles embedded in hyaluronan and hyaluronan-lecithin matrix. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 149, p. 417-423., Registrované v: WOS*
5. [1.1] LEE, S. - KIM, S. - PARK, J. - LEE, J.Y. *Universal surface modification using dopamine-hyaluronic acid conjugates for anti-biofouling. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, p. 1314-1321., Registrované v: WOS*
6. [1.1] LIU, G.X. - LIN, T.S. - ZHANG, Q. - ZHANG, S.J. - JI, C.W. - ZHANG, S.W. - GUO, H.Q. *Hyaluronic Acid-IR780 Nanoparticles for Photothermal Ablation in Orthotopic Renal Cancer. In JOURNAL OF NANOMATERIALS. ISSN 1687-4110, 2020, vol. 2020, art. no. 2421971., Registrované v: WOS*
7. [1.1] MOHAMMADI, H. - ALIHOSSEINI, F. - HOSSEINI, S.A. *Improving physical and biological properties of nylon monofilament as suture by Chitosan/Hyaluronic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 3394-3402., Registrované v: WOS*
8. [1.1] TAVSANLI, B. - OKAY, O. *Macroporous methacrylated hyaluronic acid cryogels of high mechanical strength and flow-dependent viscoelasticity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 229, art. no. 115458., Registrované v: WOS*
9. [1.1] ZAMBONI, F. - RYAN, E. - CULEBRAS, M. - COLLINS, M.N. *Labile crosslinked hyaluronic acid via urethane formation using bis(beta-isocyanatoethyl) disulphide with tuneable physicochemical and immunomodulatory properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, OCT 1 2020, vol. 245., Registrované v: WOS*

ADCA664 VALENZUELA, Susana - LOPEZ, Sergi - BIELY, Peter - SANZ-APARICIO, Julia - PASTOR, F.I.Javier. *The GH8 reducing end xylose-releasing exo-oligoxylanase Rex8A from Paenibacillus barcinonensis BP-23 is active on branched xylooligosaccharides. = The Glycoside Hydrolase Family 8 Reducing-End Xylose-Releasing Exo-oligoxylanase Rex8A from Paenibacillus barcinonensis BP-23 Is Active on Branched Xylooligosaccharides. In Applied and Environmental Microbiology, 2016, vol. 82, iss. 17, p. 5116-5124. (2015: 3.823 - IF, Q1 - JCR, 1.877 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0099-2240. Dostupné na: <https://doi.org/10.1128/AEM.01329-16>*

Citácie:

1. [1.1] DA FONSECA, Maria Joao Mauricio - ARMSTRONG, Zachary - WITHERS, Stephen G. - BRIERS, Yves. *High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2020, vol. 86, no. 23, pp. Dostupné na: <https://doi.org/10.1128/AEM.01505-20>., Registrované v: WOS*

ADCA665 VASSOVÁ, Anna - VOTICKÝ, Zdeno - TOMKO, J. *Structure of veramiline, an alkaloid from Veratrum album subsp. Lobelianum (Bernh.) Suessenguth. In Collection of Czechoslovak Chemical Communications, 1977, vol. 42, p. 3643-3645. ISSN 0010-0765. Dostupné na: <https://doi.org/10.1135/cccc19773643>*

Citácie:

1. [1.1] WANG, Yun - SHI, Yong - TIAN, Wei-Sheng - TANG, Pei - ZHUANG,

- Chunlin - CHEN, Fen-Er. Stereoselective Synthesis of (-)-Verazine and Congeners via a Cascade Ring-Switching Process of Furostan-26-acid. In ORGANIC LETTERS. ISSN 1523-7060, 2020, vol. 22, no. 7, pp. 2761-2765. Dostupné na: <https://doi.org/10.1021/acs.orglett.0c00747>., Registrované v: WOS*
- ADCA666 VELEBNÝ, Samuel - HRČKOVÁ, Gabriela - KOGAN, Grigorij. Impact of treatment with praziquantel, silymarin and/or beta-glucan on pathophysiological markers of liver damage and fibrosis in mice infected with *Mesocostoides vogae* (Cestoda) tetrathyridia. In *Journal of Helminthology*, 2008, vol. 82, p. 211-219. (2007: 1.155 - IF, Q2 - JCR, 0.478 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1475-2697. Dostupné na: <https://doi.org/10.1017/S0022149X08960776>
- Citácie:
- 1. [1.1] NONO, Justin Komguep - FU, Kai - MPOTJE, Thabo - VARRONE, Georgianna - AZIZ, Nada Abdel - MOSALA, Paballo - HLAKA, Lerato - KAMDEM, Severin Donald - XU, Daigen - SPANGENBERG, Thomas - BROMBACHER, Frank. Investigating the antifibrotic effect of the antiparasitic drug Praziquantel in in vitro and in vivo preclinical models. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2020, vol. 10, no. 1, pp., Registrované v: WOS*
- ADCA667 VIKARTOVSKÁ, Alica - BUČKO, Marek - MISLOVIČOVÁ, Danica - PÄTOPRSTÝ, Vladimír - LACÍK, Igor - GEMEINER, Peter. Improvement of the stability of glucose oxidase via encapsulation in sodium alginate-cellulose sulfate-poly(methylene-co-guanidine) capsules. In *Enzyme and Microbial Technology*, 2007, vol. 41, p. 748-755. (2006: 1.897 - IF, Q3 - JCR, 0.908 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0141-0229. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2007.06.010>
- Citácie:
- 1. [1.1] EIN ALI AFJEH, M. - POURAHMAD, R. - AKBARI-ADERGANI, B. - AZIN, M. Characteristics of glucose oxidase immobilized on Magnetic Chitosan Nanoparticles. In FOOD SCIENCE AND TECHNOLOGY. ISSN 0101-2061, JAN-MAR 2020, vol. 40, no. 1, p. 68-75., Registrované v: WOS*
- 2. [1.1] STRATZ, J. - LIEDMANN, A. - HEINZE, T. - FISCHER, S. - GROTH, T. Effect of Sulfation Route and Subsequent Oxidation on Derivatization Degree and Biocompatibility of Cellulose Sulfates. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, FEB 2020, vol. 20, no. 2., Registrované v: WOS*
- ADCA668 VATEHOVÁ-VIVODOVÁ, Zuzana** - KOLLÁROVÁ, Karin - MALOVÍKOVÁ, Anna - LIŠKOVÁ, Desana. Maize shoot cell walls under cadmium stress. In *Environmental Science and Pollution Research*, 2018, vol. 25, p. 22318-22322. (2017: 2.800 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0944-1344. Dostupné na: <https://doi.org/10.1007/s11356-018-2602-1>
- Citácie:
- 1. [1.1] CHENG, Yiran - BAO, Yunjing - CHEN, Xing - YAO, Qin - WANG, Chao - CHAI, Songyue - ZENG, Jian - FAN, Xing - KANG, Houyang - SHA, Lina - ZHANG, Haiqin - ZHOU, Yonghong - WANG, Yi. Different nitrogen forms differentially affect Cd uptake and accumulation in dwarf Polish wheat (*Triticum polonicum* L.) seedlings. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 400, no., pp. Dostupné na: <https://doi.org/10.1016/j.jhazmat.2020.123209>., Registrované v: WOS*
- 2. [1.1] SHEN, Mi - SCHNEIDER, Harald - XU, Runbing - CAO, Guanhua - ZHANG, Hanbo - LI, Tao - ZHAO, Zhiwei. Dark septate endophyte enhances maize cadmium (Cd) tolerance by the remodeled host cell walls and the altered Cd subcellular distribution. In ENVIRONMENTAL AND EXPERIMENTAL*

BOTANY. ISSN 0098-8472, 2020, vol. 172, no., pp. Dostupné na: <https://doi.org/10.1016/j.envexpbot.2020.104000>., Registrované v: WOS
3. [1.1] WANG, Xue-song - FU, Hui-ling - GONG, Fei-yue - ZHANG, Yan - HE, Chun-tao - YANG, Zhong-yi. Lignin side chain region participates in Cd detoxification related to the cultivar-dependent Cd accumulation in Brassica chinensis L. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2020, vol. 392, no., pp. Dostupné na:

<https://doi.org/10.1016/j.jhazmat.2020.122264>., Registrované v: WOS

ADCA669

VATEHOVÁ, Zuzana - MALOVÍKOVÁ, Anna - KOLLÁROVÁ, Karin - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Impact of cadmium stress on two maize hybrids. In Plant Physiology and Biochemistry, 2016, vol. 108, p. 90-98. (2015: 2.928 - IF, Q1 - JCR, 1.185 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0981-9428. Dostupné na: <https://doi.org/10.1016/j.plaphy.2016.06.035>

Citácie:

1. [1.1] ABDEL LATEF, Arafat Abdel Hamed - ZAID, Abbu - ABO-BAKER, Abo-Baker Abd-Elmoniem - SALEM, Wesam - ABU ALHMAD, Mona Fawzy.

Mitigation of Copper Stress in Maize by Inoculation with Paenibacillus polymyxa and Bacillus circulans. In PLANTS-BASEL, 2020, vol. 9, no. 11, pp. Dostupné na: <https://doi.org/10.3390/plants9111513>., Registrované v: WOS

2. [1.1] LI, Cong - LIU, Yu - TIAN, Jing - ZHU, Yanshu - FAN, Jinjuan. *Changes in sucrose metabolism in maize varieties with different cadmium sensitivities under cadmium stress. In PLOS ONE. ISSN 1932-6203, 2020, vol. 15, no. 12, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0243835>., Registrované v: WOS*

3. [1.1] MATAYOSHI, Carolina L. - PENA, Liliana B. - ARBONA, Vicent - GOMEZ-CADENAS, Aurelio - GALLEGO, Susana M. *Early responses of maize seedlings to Cu stress include sharp decreases in gibberellins and jasmonates in the root apex. In PROTOPLASMA. ISSN 0033-183X, 2020, vol. 257, no. 4, pp. 1243-1256. Dostupné na: <https://doi.org/10.1007/s00709-020-01504-1>., Registrované v: WOS*

4. [1.1] PERVEEN, Shagufta - SAEED, Muhammad - PARVEEN, Abida - JAVED, Muhammad Tariq - ZAFAR, Sara - IQBAL, Naeem. *Modulation of growth and key physiobiochemical attributes after foliar application of zinc sulphate (ZnSO₄) on wheat (Triticum aestivumL.) under cadmium (Cd) stress. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2020, vol. 26, no. 9, pp. 1787-1797. Dostupné na: <https://doi.org/10.1007/s12298-020-00861-8>., Registrované v: WOS*

5. [1.1] SEIFIKALHOR, Maryam - HASSANI, Seyedeh Batool - ALINIAEIFARD, Sasan. *Seed Priming by Cyanobacteria (Spirulina platensis) and Salep Gum Enhances Tolerance of Maize Plant Against Cadmium Toxicity. In JOURNAL OF PLANT GROWTH REGULATION. ISSN 0721-7595, 2020, vol. 39, no. 3, pp. 1009-1021. Dostupné na: <https://doi.org/10.1007/s00344-019-10038-7>., Registrované v: WOS*

ADCA670

VODENIČAROVÁ, M. - DŘÍMALOVÁ, E. - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna. Xyloglucan degradation using different radiation sources: A comparative study. In Ultrasonics Sonochemistry, 2006, vol. 13, p. 157-164. (2005: 1.953 - IF, Q1 - JCR, 0.943 - SJR, Q1 - SJR). ISSN 1350-4177. Dostupné na: <https://doi.org/10.1016/j.ultsonch.2005.03.001>

Citácie:

1. [1.1] DING, Qingzhi - LI, Zhikun - WU, Wei - SU, Yingying - SUN, Nianzhen - LUO, Lin - MA, Haile - HE, Ronghai. *Physicochemical and functional properties*

- of dietary fiber from Nannochloropsis oceanica: A comparison of alkaline and ultrasonic-assisted alkaline extractions. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.110080>., Registrované v: WOS*
2. [1.1] YI, Yang - XU, Wei - WANG, Hong-Xun - HUANG, Fei - WANG, Li-Mei. *Natural polysaccharides experience physiochemical and functional changes during preparation: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115896>., Registrované v: WOS*
- ADCA671 VOJTECH, Michal - PETRUŠOVÁ, Mária - SLÁVIKOVÁ, Elena - BEKEŠOVÁ, Slávka - PETRUŠ, Ladislav. One-pot synthesis of 2-C-glycosylated benzimidazoles from the corresponding methanal dimethyl acetals. In Carbohydrate Research, 2007, vol. 342, p. 119-123. (2006: 1.703 - IF, Q2 - JCR, 0.643 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2006.10.019>
- Citácie:
1. [1.1] MISHRA, Sarita - ROY, Soumik - GHOSH, Rina - DEY, Diganta - HAZRA, Banasri. *FeCl₃ catalyzed tandem synthesis of optically pure sugar based benzimidazoles. In JOURNAL OF THE INDIAN CHEMICAL SOCIETY. ISSN 0019-4522, 2020, vol. 97, no. 2, pp. 197-211., Registrované v: WOS*
- ADCA672 VOJTECH, Michal - PETRUŠOVÁ, Mária - VALENT, Ivan - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Preparation of D-galactofuranosyl nitromethanes: a revision and a new approach. In Carbohydrate Research, 2011, vol. 346, p. 715-721. (2010: 1.898 - IF, Q2 - JCR, 0.730 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2011.02.007>
- Citácie:
1. [1.1] YANG, Lin - LIN, Zuming - ZHENG, Kuan - KONG, Luyao - HONG, Ran. *A Modular Synthesis of Antitumor Macrolide (-)-Lasonolide A(dagger). In CHINESE JOURNAL OF CHEMISTRY. ISSN 1001-604X, 2020, vol. 38, no. 7, pp. 725-736. Dostupné na: <https://doi.org/10.1002/cjoc.202000026>., Registrované v: WOS*
- ADCA673 VOS, Paul de - BUČKO, Marek - GEMEINER, Peter - NAVRÁTIL, Marián - ŠVITEL, Juraj - FAAS, Marijke - STRAND, Berit Lokensgard - SKJAK-BRAEK, Gudmund - MORCH, Yrr A. - VIKARTOVSKÁ, Alica - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - ORIVE, Gorka - PONCELET, Dennis - PEDRAZ, Jose Luis - ANSORGE-SCHUMACHER, Marion B. Multiscale requirements for bioencapsulation in medicine and biotechnology. In Biomaterials, 2009, vol. 30, p. 2559 - 2570. (2008: 6.646 - IF, Q1 - JCR, 3.012 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0142-9612. Dostupné na: <https://doi.org/10.1016/j.biomaterials.2009.01.014>
- Citácie:
1. [1.1] ALINEJAD, Y. - BITAR, C.M.E. - VILLEGAS, K.M. - PERIGNON, S. - HOESLI, C.A. - LEROUGE, S. *Chitosan Microbeads Produced by One-Step Scalable Stirred Emulsification: A Promising Process for Cell Therapy Applications. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JAN 2020, vol. 6, no. 1, p. 288-297., Registrované v: WOS*
2. [1.1] CORREIA, C.R. - NADINE, S. - MANO, J.F. *Cell Encapsulation Systems Toward Modular Tissue Regeneration: From Immunoisolation to Multifunctional Devices. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, JUN 2020, vol. 30, no. 26, SI., Registrované v: WOS*
3. [1.1] FACKLAM, A.L. - VOLPATTI, L.R. - ANDERSON, D.G. *Biomaterials for*

Personalized Cell Therapy. In ADVANCED MATERIALS. ISSN 0935-9648, APR 2020, vol. 32, no. 13, SI., Registrované v: WOS

4. [1.1] FACKLAM, Amanda L. - VOLPATTI, Lisa R. - ANDERSON, Daniel G. *Biomaterials for Personalized Cell Therapy. In ADVANCED MATERIALS. ISSN 0935-9648, 2020, vol. 32, no. 13, pp. Dostupné na:*

<https://doi.org/10.1002/adma.201902005>., Registrované v: WOS

5. [1.1] FUCHS, S. - SHARIATI, K. - MA, M.L. *Specialty Tough Hydrogels and Their Biomedical Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, JAN 2020, vol. 9, no. 2., Registrované v: WOS*

6. [1.1] FUCHS, Stephanie - SHARIATI, Kaavian - MA, Minglin. *Specialty Tough Hydrogels and Their Biomedical Applications. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 2, pp. Dostupné na:*

<https://doi.org/10.1002/adhm.201901396>., Registrované v: WOS

7. [1.1] GIESE, E.C. *MINING APPLICATIONS OF IMMOBILIZED MICROBIAL CELLS IN AN ALGINATE MATRIX: AN OVERVIEW. In REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL. ISSN 0188-4999, 2020, vol. 36, no. 3, p. 775-787., Registrované v: WOS*

8. [1.1] MACIK, M. - GRYTA, A. - FRAC, M. *Biofertilizers in agriculture: An overview on concepts, strategies and effects on soil microorganisms. In ADVANCES IN AGRONOMY, VOL 162. ISSN 0065-2113, 2020, vol. 162, p. 31-87., Registrované v: WOS*

9. [1.1] MARFIL-GARZA, B.A. - POLISHEVSKA, K. - PEPPER, A.R. - KORBUTT, G.S. *Current State and Evidence of Cellular Encapsulation Strategies in Type 1 Diabetes. In COMPREHENSIVE PHYSIOLOGY. ISSN 2040-4603, JUL 2020, vol. 10, no. 3, p. 839-878., Registrované v: WOS*

10. [1.1] PEREIRA, M.S. - CARDOSO, L.M.D. - DA SILVA, T.B. - TEIXEIRA, A.J. - MIZRAHI, S.E. - FERREIRA, G.S.M. - DANTAS, F.M.L. - COTTA-DE-ALMEIDA, V. - ALVES, L.A. *A Low-Cost Open Source Device for Cell Microencapsulation. In MATERIALS. NOV 2020, vol. 13, no. 22., Registrované v: WOS*

ADCA674 VOŠTIAR, I. - TKÁČ, Ján - ŠTURDÍK, Ernest - GEMEINER, Peter. *Amperometric urea biosensor based on urease and electropolymerized toluidine blue dye as a pH-sensitive redox probe. In Bioelectrochemistry, 2002, vol. 56, p. 113-115. (2002 - Current Contents). ISSN 1567-5394. Dostupné na: [https://doi.org/10.1016/S1567-5394\(02\)00042-7](https://doi.org/10.1016/S1567-5394(02)00042-7)*

Citácie:

1. [1.1] QIN, Yanan - CHEN, Fei - HALDER, Arnab - ZHANG, Minwei. *Free-Standing NiO Nanosheets as Non-Enzymatic Electrochemical Sensors. In CHEMISTRYSELECT. ISSN 2365-6549, 2020, vol. 5, no. 8, pp. 2424-2429. Dostupné na: <https://doi.org/10.1002/slct.201904511>., Registrované v: WOS*

2. [1.1] RAZUMIENE, Julija - GUREVICIENE, Vidute - SAKINYTE, Ieva - RIMSEVICIUS, Laurynas - LAURINAVICIUS, Valdas. *The Synergy of Thermally Reduced Graphene Oxide in Amperometric Urea Biosensor: Application for Medical Technologies. In SENSORS, 2020, vol. 20, no. 16, pp. Dostupné na: <https://doi.org/10.3390/s20164496>., Registrované v: WOS*

ADCA675 VRŠANSKÁ, Mária - BIELY, Peter. *The cellobiohydrolase I from Trichoderma reesei QM 9414: action on cello-oligosaccharides. In Carbohydrate Research, 1992, vol. 227, p. 19-27. (1991: 1.299 - IF). ISSN 0008-6215. Dostupné na: [https://doi.org/10.1016/0008-6215\(92\)85058-8](https://doi.org/10.1016/0008-6215(92)85058-8)*

Citácie:

1. [1.1] KARI, Jeppe - SCHIANO-DI-COLA, Corinna - HANSEN, Stine Fredslund - BADINO, Silke Flindt - SORENSEN, Trine Holst - CAVALEIRO, Ana Mafalda -

BORCH, Kim - WESTH, Peter. A steady-state approach for inhibition of heterogeneous enzyme reactions. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2020, vol. 477, no. 10, pp. 1971-1982. Dostupné na:

<https://doi.org/10.1042/BCJ20200083>, Registrované v: WOS

2. [1.1] *MAFA, Mpho S. - MALGAS, Samkelo - RASHAMUSE, Konanani - PLETSCHE, Brett I. Delineating functional properties of a cello-oligosaccharide and β -glucan specific cellobiohydrolase (GH5_38): Its synergism with Cel6A and Cel7A for beta-(1,3)-(1,4)-glucan degradation. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na: <https://doi.org/10.1016/j.carres.2020.108081>, Registrované v: WOS*

3. [1.1] *UCHIYAMA, Taku - UCHIHASHI, Takayuki - NAKAMURA, Akihiko - WATANABE, Hiroki - KANEKO, Satoshi - SAMEJIMA, Masahiro - IGARASHI, Kiyohiko. Convergent evolution of processivity in bacterial and fungal cellulases. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2020, vol. 117, no. 33, pp. 19896-19903. Dostupné na: <https://doi.org/10.1073/pnas.2011366117>, Registrované v: WOS*

ADCA676 VRŠANSKÁ, Mária - NERINCKX, W. - CLAEYSSSENS, M. - BIELY, Peter. An alternative approach for the synthesis of fluorogenic substrates of endo-beta-(1-4)-xylanases and some applications. In Carbohydrate Research, 2008, vol.343, p. 541-548. (2007: 1.723 - IF, Q2 - JCR, 0.759 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0008-6215. Dostupné na: <https://doi.org/10.1016/j.carres.2007.11.011>

Citácie:

1. [1.1] *GERARD, D. - MELINE, T. - MUZARD, M. - DELEU, M. - PLANTIER-ROYON, R. - REMOND, C. Enzymatically-synthesized xylo-oligosaccharides laurate esters as surfactants of interest. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2020, vol. 495, no., pp. Dostupné na:*

<https://doi.org/10.1016/j.carres.2020.108090>, Registrované v: WOS

ADCA677 VRŠANSKÁ, Mária - KOLENOVÁ, Katarína - PUCHART, Vladimír - BIELY, Peter. Mode of action of glycoside hydrolase family 5 glucuronoxylan xylanohydrolase from *Erwinia chrysanthemi*. In FEBS Letters, 2007, vol.274, p. 1666-1677. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: <https://doi.org/10.1111/j.1742-4658.2007.05710.x>

Citácie:

1. [1.1] *CROOKS, Casey - LONG, Liangkun - ST JOHN, Franz J. CaXyn30B from the solventogenic bacterium *Clostridium acetobutylicum* is a glucuronic acid-dependent endoxylanase. In BMC RESEARCH NOTES, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13104-020-05091-5>, Registrované v: WOS*

2. [1.1] *MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c00663>, Registrované v: WOS*

3. [1.1] *NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus *Talaromyces cellulolyticus*. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2020, vol. 76, no., pp. 341-349. Dostupné na:*

<https://doi.org/10.1107/S2053230X20009024>, Registrované v: WOS

4. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from *Talaromyces cellulolyticus*. In *FEBS OPEN BIO*. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: <https://doi.org/10.1002/2211-5463.12873>, Registrované v: WOS

ADCA678 WOJCIECHOWICZ, M. - HEINRICHOVÁ, Kvetoslava - ZIOLECKI, A. A polygalacturonate lyase produced by *Lachnospira multiparus* isolated from the bovine rumen. In *Journal of General Microbiology*, 1980, vol. 117, p. 193-199.

Citácie:

1. [1.1] ZHOU, Xin - ZHANG, Zhao - HUANG, Fenghong - YANG, Chen - HUANG, Qingde. In Vitro Digestion and Fermentation by Human Fecal Microbiota of Polysaccharides from Flaxseed. In *MOLECULES*, 2020, vol. 25, no. 19, pp. Dostupné na: <https://doi.org/10.3390/molecules25194354>, Registrované v: WOS

ADCA679 XU, Peng** - KORCOVÁ, Jana, Vráblová - BARÁTH, Peter - ČÍŽOVÁ, Alžbeta - VALÁRIKOVÁ, Jana - QADRI, Firdausi - KELLY, Megan - O'CONNOR, Robert D. - RYAN, Edward T. - BYSTRICKÝ, Slavomír - KOVÁČ, Pavol. Isolation, purification, characterization and direct conjugation of the lipid A-free lipopolysaccharide of *Vibrio cholerae* O139. In *Chemistry -A European Journal*, 2019, vol. 25, p. 12946-12956. (2018: 5.160 - IF, Q1 - JCR, 1.842 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0947-6539. Dostupné na: <https://doi.org/10.1002/chem.201902263>

Citácie:

1. [1.1] AHADI, Somayeh - AWAN, Shahid - WERZ, Daniel B. Total Synthesis of Tri-, Hexa- and Heptasaccharidic Substructures of the O-Polysaccharide of *Providencia rustigianii* O34. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2020, vol. 26, no. 28, pp. 6264-6270. Dostupné na: <https://doi.org/10.1002/chem.202000496>, Registrované v: WOS

ADCA680 YAMAMOTO, Yuta - TAKEI, Kenta - ARULMOZHIRAJA, Sundaram - SLÁDEK, Vladimír - MATSUO, Naoya - HAN, Song-gee - MATSUZAKA, Takashi - SEKIYA, Motohiro - TOKIWA, Takaki - SHOJI, Mitsuo - SHIGETA, Yasuteru - NAKAGAWA, Yoshimi - TOKIWA, Hiroaki - SHIMANO, Hitoshi**. Molecular association model of PPAR α and its new specific and efficient ligand, pemaifibrate: Structural basis for SPPARM α . In *Biochemical and Biophysical Research Communications*, 2018, vol. 499, p. 239-245. (2017: 2.559 - IF, Q2 - JCR, 1.087 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-291X. Dostupné na: <https://doi.org/10.1016/j.bbrc.2018.03.135>

Citácie:

1. [1.1] DOU, Xiaozheng - DUERFELDT, Adam S. Small-Molecule Modulation of PPARs for the Treatment of Prevalent Vascular Retinal Diseases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 23, pp. Dostupné na: <https://doi.org/10.3390/ijms21239251>, Registrované v: WOS

2. [1.1] FRUCHART, Jean-Charles - HERMANS, Michel P. - FRUCHART-NAJIB, Jamila. Selective Peroxisome Proliferator-Activated Receptor Alpha Modulators (SPPARM α): New Opportunities to Reduce Residual Cardiovascular Risk in Chronic Kidney Disease? In *CURRENT ATHEROSCLEROSIS REPORTS*. ISSN 1523-3804, 2020, vol. 22, no. 8, pp. Dostupné na: <https://doi.org/10.1007/s11883-020-00860-w>, Registrované v: WOS

3. [1.1] OGAWA, Kento - YAGI, Takashi - GUO, Tingting - TAKEDA, Katsushi -

OHGUCHI, Hideomi - KOYAMA, Hiroyuki - AOTANI, Daisuke - IMAEDA, Kenro - KATAOKA, Hiromi - TANAKA, Tomohiro. Pemaifibrate, a selective PPAR alpha modulator, and fenofibrate suppress microglial activation through distinct PPAR alpha and SIRT1-dependent pathways. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2020, vol. 524, no. 2, pp. 385-391. Dostupné na:

<https://doi.org/10.1016/j.bbrc.2020.01.118>, Registrované v: WOS

4. [1.1] SANDOVAL-RODRIGUEZ, Ana - CHRISTIAN MONROY-RAMIREZ, Hugo - MEZA-RIOS, Alejandra - GARCIA-BANUELOS, Jesus - VERA-CRUZ, Jose - GUTIERREZ-CUEVAS, Jorge - SILVA-GOMEZ, Jorge - STAELS, Bart - DOMINGUEZ-ROSALES, Jose - GALICIA-MORENO, Marina - VAZQUEZ-DEL MERCADO, Monica - NAVARRO-PARTIDA, Jose - SANTOS-GARCIA, Arturo - ARMENDARIZ-BORUNDA, Juan. Pirfenidone Is an Agonistic Ligand for PPAR alpha and Improves NASH by Activation of SIRT1/LKB1/pAMPK. In *HEPATOLOGY COMMUNICATIONS*, 2020, vol. 4, no. 3, pp. 434-449. Dostupné na: <https://doi.org/10.1002/hep4.1474>, Registrované v: WOS

5. [1.1] SIRTORI, Cesare R. - YAMASHITA, Shizuya - GRECO, Maria Francesca - CORSINI, Alberto - WATTS, Gerald F. - RUSCICA, Massimiliano. Recent advances in synthetic pharmacotherapies for dyslipidaemias. In *EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY*. ISSN 2047-4873, 2020, vol. 27, no. 15, pp. 1576-1596. Dostupné na: <https://doi.org/10.1177/2047487319845314>, Registrované v: WOS

6. [1.1] TOMITA, Yohei - LEE, Deokho - TSUBOTA, Kazuo - KURIHARA, Toshihide. PPAR alpha Agonist Oral Therapy in Diabetic Retinopathy. In *BIOMEDICINES*, 2020, vol. 8, no. 10, pp. Dostupné na:

<https://doi.org/10.3390/biomedicines8100433>, Registrované v: WOS

7. [1.1] YAMASHITA, Shizuya - MASUDA, Daisaku - MATSUZAWA, Yuji. Pemaifibrate, a New Selective PPAR alpha Modulator: Drug Concept and Its Clinical Applications for Dyslipidemia and Metabolic Diseases. In *CURRENT ATHEROSCLEROSIS REPORTS*. ISSN 1523-3804, 2020, vol. 22, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s11883-020-0823-5>, Registrované v: WOS

8. [1.1] YANG, Yu - ZHAO, Yu - LI, Wenzhen - WU, Yuyao - WANG, Xin - WANG, Yijie - LIU, Tingmei - YE, Tinghong - XIE, Yongmei - CHENG, Zhiqiang - HE, Jun - BAI, Peng - ZHANG, Yiwen - OUYANG, Liang. Emerging targets and potential therapeutic agents in non-alcoholic fatty liver disease treatment. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2020, vol. 197, no., pp. Dostupné na: <https://doi.org/10.1016/j.ejmech.2020.112311>, Registrované v: WOS

ADCA681 ZAVAHIR, Sifani - KRUPA, Igor - AL-MAADEED, Sumaya Ali - TKÁČ, Ján - KASÁK, Peter*. Polyzwitterionic hydrogels in engines based on the antipolyelectrolyte effect and driven by the salinity gradient. In *Environmental Science and Technology*, 2019, vol. 53, p. 9260-9268. (2018: 7.149 - IF, Q1 - JCR, 2.514 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0013-936X. Dostupné na: <https://doi.org/10.1021/acs.est.8b06377>

Citácie:

1. [1.1] ZHANG, Sui - LIN, Shaoting - ZHAO, Xuanhe - KARNIK, Rohit. Thermodynamic analysis and material design to enhance chemo-mechanical coupling in hydrogels for energy harvesting from salinity gradients. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, 2020, vol. 128, no. 4, pp. Dostupné na: <https://doi.org/10.1063/5.0013357>, Registrované v: WOS

ADCA682 ZELKO, Ivan - LUX, Alexander - STERCKEMAN, Thibault - MARTINKA, Michal - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. An easy method for cutting

and fluorescent staining of thin roots. In *Annals of Botany*, 2012, vol. 110, p. 475-478. (2011: 4.030 - IF, Q1 - JCR, 1.777 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0305-7364. Dostupné na: <https://doi.org/10.1093/aob/mcs046>

Citácie:

1. [1.1] KITIN, Peter - NAKABA, Satoshi - HUNT, Christopher G. - LIM, Sierin - FUNADA, Ryo. Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. In *AOB PLANTS*. ISSN 2041-2851, 2020, vol. 12, no. 4, pp. Dostupné na: <https://doi.org/10.1093/aobpla/plaa032>, Registrované v: WOS

2. [1.1] KOLBERT, Zsuzsanna - OLAH, Dora - MOLNAR, Arpad - SZOLLOSI, Reka - ERDEI, Laszlo - ORDOG, Attila. Distinct redox signalling and nickel tolerance in *Brassica juncea* and *Arabidopsis thaliana*. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2020, vol. 189, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2019.109989>, Registrované v: WOS

3. [1.1] MOLNAR, Arpad - RONAARI, Andrea - BELTEKY, Peter - SZOLLOSI, Reka - VALYON, Emil - OLAH, Dora - RAZGA, Zsolt - ORDOG, Attila - KONYA, Zoltan - KOLBERT, Zsuzsanna. ZnO nanoparticles induce cell wall remodeling and modify ROS/RNS signalling in roots of *Brassica* seedlings. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2020, vol. 206, no., pp. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2020.111158>, Registrované v: WOS

ADCA683 ZEMEK, J. - VALENT, M. - PODOVÁ, M. - KOŠÍKOVÁ, Božena - JONIAK, Dušan. Antimicrobial properties of aromatic compounds of plant origin. In *Folia microbiologica*, 1987, vol. 32, p. 421-425. ISSN 0015-5632.

Citácie:

1. [1.1] GROSSMAN, Adam B. - RICE, Kelly C. - VERMERRIS, Wilfred. Lignin solvated in zwitterionic Good's buffers displays antibacterial synergy against *Staphylococcus aureus*. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2020, vol. 137, no. 37, pp. Dostupné na: <https://doi.org/10.1002/app.49107>, Registrované v: WOS

2. [1.1] SCHARF, Michael E. Challenges and physiological implications of wood feeding in termites. In *CURRENT OPINION IN INSECT SCIENCE*. ISSN 2214-5745, 2020, vol. 41, no., pp. 79-85. Dostupné na: <https://doi.org/10.1016/j.cois.2020.07.007>, Registrované v: WOS

ADCA684 ZEMEK, Juraj - KOŠÍKOVÁ, Božena - JONIAK, Dušan. Antimicrobial effects of lignin compounds. In *Folia Microbiologica*, 1979, vol. 24, p. 483-486. ISSN 0015-5632.

Citácie:

1. [1.1] GROSSMAN, Adam B. - RICE, Kelly C. - VERMERRIS, Wilfred. Lignin solvated in zwitterionic Good's buffers displays antibacterial synergy against *Staphylococcus aureus*. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2020, vol. 137, no. 37, pp. Dostupné na: <https://doi.org/10.1002/app.49107>, Registrované v: WOS

2. [1.1] KALINOSKI, Ryan M. - LI, Wenqi - MOBLEY, Justin K. - ASARE, Shadrack O. - DORRANI, Masoumeh - LYNN, Bert C. - CHEN, Xiaowen - SHI, Jian. Antimicrobial Properties of Corn Stover Lignin Fractions Derived from Catalytic Transfer Hydrogenolysis in Supercritical Ethanol with a Ru/C Catalyst. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18455-18467. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05812>, Registrované v: WOS

3. [1.1] MEDEIROS, Daianne - OLIVEIRA-JUNIOR, Jose - NOBREGA, Jefferson

- CORDEIRO, Laisa - JARDIM, Jeane - SOUZA, Helivaldo - SILVA, Gracielle - ATHAYDE-FILHO, Petronio - BARBOSA-FILHO, Jose - SCOTTI, Luciana - LIMA, Edeltrudes. Isoleugenol and Hybrid Acetamides against *Candida albicans* Isolated from the Oral Cavity. In *PHARMACEUTICALS*, 2020, vol. 13, no. 10, pp. Dostupné na: <https://doi.org/10.3390/ph13100291>., Registrované v: WOS 4. [1.1] ROEHE, I - METZGER, F. - VAHJEN, W. - BROCKMANN, G. A. - ZENTEK, J. Effect of feeding different levels of lignocellulose on performance, nutrient digestibility, excreta dry matter, and intestinal microbiota in slow growing broilers. In *POULTRY SCIENCE*, 2020, vol. 99, no. 10, pp. 5018-5026. Dostupné na: <https://doi.org/10.1016/j.psj.2020.06.053>., Registrované v: WOS 5. [1.1] SCHARF, Michael E. Challenges and physiological implications of wood feeding in termites. In *CURRENT OPINION IN INSECT SCIENCE*. ISSN 2214-5745, 2020, vol. 41, no., pp. 79-85. Dostupné na: <https://doi.org/10.1016/j.cois.2020.07.007>., Registrované v: WOS 6. [1.1] SUNTHORNVARABHAS, Jackapon - RUNGTHAWORN, Prapassorn - SUKATTA, Udomlak - JUNTRATIP, Narissara - SRIROTH, Klanarong. Antimicrobial Tendency of Bagasse Lignin Extracts by Raman Peak Intensity. In *SUGAR TECH*. ISSN 0972-1525, 2020, vol. 22, no. 4, pp. 697-705. Dostupné na: <https://doi.org/10.1007/s12355-019-00778-x>., Registrované v: WOS 7. [1.1] YANG, Shujuan - WANG, Tianhao - TANG, Rong - YAN, Qinglin - TIAN, Weiqian - ZHANG, Liping. Enhanced permeability, mechanical and antibacterial properties of cellulose acetate ultrafiltration membranes incorporated with lignocellulose nanofibrils. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 151, no., pp. 159-167. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.02.124>., Registrované v: WOS

ADCA685 ZEMEK, Juraj - FARKAŠ, Vladimír - BIELY, Peter - BAUER, Štefan. Transglycosylic reactions of nucleotides of 2-deoxy sugars. II. 2-Deoxyglucose incorporation into glycogen. In *Biochimica et Biophysica Acta*, 1971, vol. 252, p. 432-438. Dostupné na: [https://doi.org/10.1016/0304-4165\(71\)90145-0](https://doi.org/10.1016/0304-4165(71)90145-0)

Citácie:

1. [1.1] LAUSSEL, Clotilde - LEON, Sebastien. Cellular toxicity of the metabolic inhibitor 2-deoxyglucose and associated resistance mechanisms. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcp.2020.114213>., Registrované v: WOS

ADCA686 ZICHOVÁ, Miroslava - STRATILOVÁ, Eva - ROSENBERG, Michal - OMELKOVÁ, Jiřina. Imobilizace celulólytických enzymů na nosiče z polyethylentereftalátu a polyakrylamidu. In *Chemické Listy*, 2015, vol. 109, p. 946-949. (2014: 0.272 - IF, Q4 - JCR, 0.198 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Citácie:

1. [1.1] DESKA, Malgorzata - KONCZAK, Beata. Operational stability of laccases under immobilization conditions. In *PRZEMYSŁ CHEMICZNY*. ISSN 0033-2496, 2020, vol. 99, no. 3, pp. 472-476. Dostupné na: <https://doi.org/10.15199/62.2020.3.22>., Registrované v: WOS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

ADCB01 DAMBORSKÁ, Dominika - KASÁK, Peter - TKÁČ, Ján. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In *Open Chemistry*, 2015, vol. 13, p. 636-655. (2015 - Current Contents, WOS). ISSN 2391-5420. Dostupné na: <https://doi.org/10.1515/chem-2015-0082>

Citácie:

1. [1.1] TSANEVA, Mariya - VAN DAMME, Els J. M. 130 years of Plant Lectin Research. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2020, vol. 37, no. 5, pp. 533-551. Dostupné na: <https://doi.org/10.1007/s10719-020-09942-y>, Registrované v: WOS

***ADD Vedecké práce v domácich karentovaných časopisoch**

- ADD01 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation of carbohydrate model compounds. 5. Anomeric, exo-anomeric, and reverse anomeric effects in C-, N-, and S-glycosyl compounds. In *Journal of physical chemistry*. - Washington : American Chemical Society, -1995, 1996, vol. 100, p. 11305-11313. (1995: 3.395 - IF). ISSN 0022-3654.

Citácie:

1. [1.1] KARIMI, Fatemeh - YARIE, Meysam - ZOLFIGOL, Mohammad Ali. A convenient method for synthesis of terpyridines via a cooperative vinylogous anomeric based oxidation. In *RSC ADVANCES*, 2020, vol. 10, no. 43, pp. 25828-25835. Dostupné na: <https://doi.org/10.1039/d0ra04461j>, Registrované v: WOS
2. [1.1] KARIMI, Fatemeh - YARIE, Meysam - ZOLFIGOL, Mohammad Ali. *Fe3O4@SiO2@(CH2)(3)-urea-thiourea: A novel hydrogen-bonding and reusable catalyst for the construction of bipyridine-5-carbonitriles via a cooperative vinylogous anomeric based oxidation*. In *MOLECULAR CATALYSIS*. ISSN 2468-8231, 2020, vol. 497, no., pp. Dostupné na: <https://doi.org/10.1016/j.mcat.2020.111201>, Registrované v: WOS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 BABOR, K. - KALÁČ, Vladimír - TIHLÁRIK, Karol. Periodate oxidation of saccharides. III. Comparison of the methods of determining the consumption of sodium periodate and the amount of formic acid formed. In *Chemické zvesti*, 1973, vol. 27, p. 676-680. ISSN 0366-6352.

Citácie:

1. [1.1] DOGHRI, Ibtissem - BRIAN-JAISSON, Florence - GRABER, Marianne - BAZIRE, Alexis - DUFOUR, Alain - BELLON-FONTAINE, Marie-Noelle - HERRY, Jean-Marie - FERRO, Ana Caroline - SOPENA, Valerie - LANNELUC, Isabelle - SABLE, Sophie. Antibiofilm activity in the culture supernatant of a marine *Pseudomonas* sp. bacterium. In *MICROBIOLOGY-SGM*. ISSN 1350-0872, 2020, vol. 166, no. 3, pp. 239-252. Dostupné na: <https://doi.org/10.1099/mic.0.000878>, Registrované v: WOS
2. [1.1] DOGHRI, Ibtissem - PORTIER, Emilie - DESRIAC, Florie - ZHAO, Jean Michel - BAZIRE, Alexis - DUFOUR, Alain - ROCHETTE, Vincent - SABLE, Sophie - LANNELUC, Isabelle. Anti-Biofilm Activity of a Low Weight Proteinaceous Molecule from the Marine Bacterium *Pseudoalteromonas* sp. IIIA004 against Marine Bacteria and Human Pathogen Biofilms. In *MICROORGANISMS*, 2020, vol. 8, no. 9, pp. Dostupné na: <https://doi.org/10.3390/microorganisms8091295>, Registrované v: WOS

- ADDA02 BÍLIK, Vojtech - MATULOVÁ, Mária. Reactions of saccharides catalyzed by molybdate ions. XLII. Epimerization and the molybdate complexes of the aldoses. In *Chemical Papers - Chemické zvesti*, 1990, vol. 44, p. 257-262. ISSN 0366-6352.

Citácie:

1. [1.1] WANG, Hui - WANG, Meiyin - SHANG, Jining - REN, Yuanhang - YUE, Bin - HE, Heyong. H3PMo12O40 Immobilized on Amine Functionalized SBA-15

- as a Catalyst for Aldose Epimerization. In MATERIALS, 2020, vol. 13, no. 3, pp. Dostupné na: <https://doi.org/10.3390/ma13030507>, Registrované v: WOS*
- ADDA03 ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - TKÁČ, Ján. Interfacing of microbial cells with nanoparticles: Simple and cost-effective preparation of a highly sensitive microbial ethanol biosensor. In Chemical Papers, 2015, vol. 69, p. 176-182. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0012>
- Citácie:
1. [1.1] JATOI, Abdul Sattar - BALOCH, A. G. - JADHAV, Ankit - NIZAMUDDIN, Sabzoi - AZIZ, Shaheen - SOOMRO, Suhail Ahmed - NAZIR, Imran - ABRO, Masroor - BALOCH, Humair Ahmed - AHMED, Jawad - MUBARAK, N. M. Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s42452-019-1826-0>, Registrované v: WOS
- ADDA04 ŠEFČOVIČOVÁ, Jana - TKÁČ, Ján. Application of nanomaterials in microbial-cell biosensor constructions. In Chemical Papers, 2015, vol. 69, p. 42-53. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-014-0602-2>
- Citácie:
1. [1.1] AZAR, Sepideh Alizad Derakhshi - ALEMZADEH, Iran. L-Sorbose Production by Gluconobacter oxydans using Submerged Fermentation in a Bench Scale Fermenter. In APPLIED FOOD BIOTECHNOLOGY. ISSN 2345-5357, 2020, vol. 7, no. 1, pp. 41-48., Registrované v: WOS
2. [1.1] DENMARK, Daniel J. - MOHAPATRA, Subhra - MOHAPATRA, Shyam S. Point-of-Care Diagnostics: Molecularly Imprinted Polymers and Nanomaterials for Enhanced Biosensor Selectivity and Transduction. In EUROBIOTECH JOURNAL, 2020, vol. 4, no. 4, pp. 184-206. Dostupné na: <https://doi.org/10.2478/ebtj-2020-0023>, Registrované v: WOS
3. [1.1] JATOI, Abdul Sattar - BALOCH, A. G. - JADHAV, Ankit - NIZAMUDDIN, Sabzoi - AZIZ, Shaheen - SOOMRO, Suhail Ahmed - NAZIR, Imran - ABRO, Masroor - BALOCH, Humair Ahmed - AHMED, Jawad - MUBARAK, N. M. Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. In SN APPLIED SCIENCES. ISSN 2523-3963, 2020, vol. 2, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s42452-019-1826-0>, Registrované v: WOS
- ADDA05 BRIESTENSKÁ, Katarína - ŠAMŠULOVÁ, Veronika - POLÁKOVÁ, Monika - MISTRÍKOVÁ, Jela**. Recombinant luciferase-expressing murine gammaherpesvirus 68 as a tool for rapid antiviral screening. In Acta Virologica, 2019, vol. 63, no. 4, p. 439-449. (2018: 0.554 - IF, Q4 - JCR, 0.283 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0001-723X. Dostupné na: https://doi.org/10.4149/av_2019_411
- Citácie:
1. [1.1] TROMPET, Erika - TOPALIS, Dimitrios - GILLEMOT, Sarah - SNOECK, Robert - ANDREI, Graciela. Viral fitness of MHV-68 viruses harboring drug resistance mutations in the protein kinase or thymidine kinase. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2020, vol. 182, no., pp. Dostupné na: <https://doi.org/10.1016/j.antiviral.2020.104901>, Registrované v: WOS
- ADDA06 BUČKO, Marek - MISLOVIČOVÁ, Danica - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - ŠEFČOVIČOVÁ, Jana - KATRLÍK, Jaroslav - TKÁČ,

Ján - GEMEINER, Peter - LACÍK, Igor - ŠTEFUCA, Vladimír - POLAKOVIČ, Milan - ROSENBERG, Michal - REBROŠ, Martin - ŠMOGROVIČOVÁ, Daniela - ŠVITEL, Juraj. Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. In Chemical papers, 2012, vol. 66, no. 11, p. 983 - 998. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0226-3>

Citácie:

1. [1.1] KAMINIARIS, M.D. - MAVRIKOU, S. - GEORGIADOU, M. - PAIVANA, G. - TSITSIGIANNIS, D.I. - KINTZIOS, S. An Impedance Based Electrochemical Immunosensor for Aflatoxin B-1 Monitoring in Pistachio Matrices. In CHEMOSENSORS. DEC 2020, vol. 8, no. 4., Registrované v: WOS
2. [1.1] KHAN, M. - HUSAIN, Q. Multiwalled carbon nanotubes bound beta-galactosidase: It's activity, stability and reusability. In METHODS IN ENZYMOLOGY: NANOARMORING OF ENZYMES WITH CARBON NANOTUBES AND MAGNETIC NANOPARTICLES. ISSN 0076-6879, 2020, vol. 630, p. 365-405., Registrované v: WOS
3. [1.1] TAVARES, T.D. - ANTUNES, J.C. - FERREIRA, F. - FELGUEIRAS, H.P. Biofunctionalization of Natural Fiber-Reinforced Biocomposites for Biomedical Applications. In BIOMOLECULES. JAN 2020, vol. 10, no. 1., Registrované v: WOS

ADDA07 BYSTRICKÝ, Peter - DOBROTA, Dušan - RAČAY, Peter - BYSTRICKÝ, Slavomír. NMR characteristics of alpha-D-Man-(1→2)-D-Man and alpha-D-Man-(1→3)-D-Man mannobioses related to Candida albicans yeast mannan structures. In Chemical Papers, 2017, vol. 71, no. 12, p. 2485-2493. (2016: 1.258 - IF, Q3 - JCR, 0.347 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-017-0242-4>

Citácie:

1. [1.1] LI, Jin - KARBOUNE, Salwa - SEDMAN, Jacqueline - ISMAIL, Ashraf. Characterization of the structural properties of mannoproteins isolated from selected yeast-based products upon the enzymatic treatment. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2020, vol. 131, no., pp. Dostupné na: <https://doi.org/10.1016/j.lwt.2020.109596>., Registrované v: WOS
2. [1.1] SIVASANKAR, Palaniappan - POONGODI, Subramaniam - LOBO, Anderson O. - PUGAZHENDHI, Arivalagan. Characterization of a novel polymeric bioflocculant from marine actinobacterium Streptomyces sp. and its application in recovery of microalgae. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, 2020, vol. 148, no., pp. Dostupné na: <https://doi.org/10.1016/j.ibiod.2020.104883>., Registrované v: WOS

ADDA08 CAPEK, Peter - KARDOŠOVÁ, Alžbeta - LATH, Dieter. A neutral heteropolysaccharide from the flowers of Malva mauritiana L. In Chemical Papers - Chemické zvesti, 1999, vol. 53, p. 131-136. (1998: 0.160 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] SILVEIRA, Damaris - PRIETO-GARCIA, Jose Maria - BOYLAN, Fabio - ESTRADA, Omar - FONSECA-BAZZO, Yris Maria - JAMAL, Claudia Masrouah - MAGALHAES, Perola Oliveira - PEREIRA, Edson Oliveira - TOMCZYK, Michal - HEINRICH, Michael. COVID-19: Is There Evidence for the Use of Herbal Medicines as Adjuvant Symptomatic Therapy? In FRONTIERS IN PHARMACOLOGY, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphar.2020.581840>., Registrované v: WOS

- ADDA09 EBRINGEROVÁ, Anna - PASTÝR, Ján. Sulfoethylierung von D-Xylanen in heterogener Phase. In Chemical Papers - Chemické zvesti, 1988, vol. 42, p. 407-414. ISSN 0366-6352.
Citácie:
1. [1.1] *GABRIEL, Lars - KOSCHELLA, Andreas - TIED, Antje - PFEIFER, Annett - HEINZE, Thomas. Sulfoethylation of polysaccharides-A comparative study. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 246, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116533>., Registrované v: WOS*
- ADDA10 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Chemical conjugation of biomacromolecules: A mini-review. In Chemical papers, 2010, vol. 64, p. 683-695. (2009: 0.791 - IF, Q3 - JCR, 0.245 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-010-0057-z>
Citácie:
1. [1.1] *BEDNAREK, Christin - WEHL, Ilona - JUNG, Nicole - SCHEPERS, Ute - BRAESE, Stefan. The Staudinger Ligation. In CHEMICAL REVIEWS. ISSN 0009-2665, 2020, vol. 120, no. 10, pp. 4301-4354. Dostupné na: <https://doi.org/10.1021/acs.chemrev.9b00665>., Registrované v: WOS*
2. [1.1] *CHEN, Qi - WANG, Yuanyuan - MAO, Fujing - SU, Benchao - BAO, Kunlu - ZHANG, Zeling - XIE, Guifang - LIU, Xing. Development of a horseradish peroxidase-nanobody fusion protein for visual detection of ochratoxin A by dot immunoassay. In RSC ADVANCES, 2020, vol. 10, no. 56, pp. 33700-33705. Dostupné na: <https://doi.org/10.1039/d0ra06576e>., Registrované v: WOS*
3. [1.1] *LEE, SeonHyung - HAN, Beom-Ku - KIM, Yang-Hoon - AHN, Ji-Young. SpyCatcher-SpyTagged ApxIA Toxoid and the Immune-Modulating Yeast Ghost Shells. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2020, vol. 16, no. 11, pp. 1644-1657. Dostupné na: <https://doi.org/10.1166/jbn.2020.2992>., Registrované v: WOS*
- ADDA11 FEDORONKO, Michal. Electroreduction of DL-glyceraldehyde and D-forms of its 2,3-di-O-methyl- and 2,3-O-isopropylidene derivatives. In Chemical Papers - Chemické zvesti, 1987, vol. 41, p. 767-776. ISSN 0366-6352.
Citácie:
1. [1.1] *LIANG, Zhiqin - VILLALBA, Matias A. - MARCANDALLI, Giulia - OJHA, Kasinath - SHIH, Arthur J. - KOPER, Marc T. M. Electrochemical Reduction of the Simplest Monosaccharides: Dihydroxyacetone and Glyceraldehyde. In ACS CATALYSIS. ISSN 2155-5435, 2020, vol. 10, no. 23, pp. 13895-13903. Dostupné na: <https://doi.org/10.1021/acscatal.0c04131>., Registrované v: WOS*
- ADDA12 FEDORONKO, Michal - PETRUŠOVÁ, Mária - ALFOLDI, Juraj. Electroreduction of triose oximes. In Chemical Papers, 1989, vol.43, p. 335-341. ISSN 0366-6352.
Citácie:
1. [1.1] *BARBERA, Vincenzina - LEONARDI, Gabriella - VALERIO, Antonio Marco - RUBINO, Lucia - SUN, Shuquan - FAMULARI, Antonino - GALIMBERTI, Maurizio - CITTERIO, Attilio - SEBASTIANO, Roberto. Environmentally Friendly and Regioselective One-Pot Synthesis of Imines and Oxazolidines Serinol Derivatives and Their Use for Rubber Cross-Linking. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 25, pp. 9356-9366. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c01603>., Registrované v: WOS*
- ADDA13 FILIP, Jaroslav - KASÁK, Peter - TKÁČ, Ján. Graphene as signal amplifier for

preparation of ultrasensitive electrochemical biosensors. In *Chemical Papers*, 2015, vol. 69, p. 112-133. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0051>

Citácie:

1. [1.1] HAN, Xiaobing - GAO, Jie - CHEN, Tao - ZHAO, Yuan. *Interfacial interaction and steric repulsion in polymer-assisted liquid exfoliation to produce high-quality graphene*. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2020, vol. 74, no. 3, pp. 757-765. Dostupné na: <https://doi.org/10.1007/s11696-019-00928-1>, Registrované v: WOS

- ADDA14 HIRSCH, Ján - KOŮŠ, Miroslav - TVAROŠKA, Igor. Synthesis of saccharide precursors for preparation of potential inhibitors of glycosyltransferases. Igor Tvaroška. In *Chemical papers*, 2009, vol. 63, no. 3, p.329-335. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] ZHU, Ruonan - LIU, Xin - LI, Lijun - WANG, Qi - ZHAO, Qiang - LIU, Shijie - FENG, Wenjun - XU, Feng - ZHANG, Xueming. *Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 163, no., pp. 457-463. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.289>, Registrované v: WOS

- ADDA15 HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Pro-oxidative effect of peroxyxynitrite regarding biological systems: a special focus on high-molar-mass hyaluronan degradation. In *General Physiology and Biophysics*, 2011, vol. 30, p. 223-238. (2010: 1.146 - IF, Q4 - JCR, 0.400 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2011_03_223 (ITMS 26240220040 : Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení. VEGA č. 2/0083/09 : Energetický metabolismus mozgu sledovaný pomocou magnetickej rezonancie ako podklad pre štúdium mechanizmov hypoxicko-ischemického poškodenia mozgu novorodenca. VEGA č. 2/0011/11 : Štúdium pôsobenia reaktívnych foriem kyslíka a dusíka na vysokomolekulový hyalurónan, synoviocyty a chondrocyty. VEGA č. 2/0056/10 : Štúdium využitia patogén-hostiteľ glykoproteínových interakcií v boji so samotným patogénom. VEGA č. 2/0115/09 : Degradácia polyuretánov v muzeálnych artefaktoch – hodnotenie pomocou chemiluminiscencie a termoanalytických metód a predikcia zvyškovej životnosti)

Citácie:

1. [3.1] GILFILLANA MARGARET - BHANDARI VINEET. *Immune modulators for the therapy of BPD.(Book Chapter)*. In *TANTALIZING THERAPEUTICS IN BRONCHOPULMONARY DYSPLASIA*. ISBN 978-0-12-818987-0, 2020, Academic Press, p. 207-231. doi: 10.1016/B978-0-12-818987-0.00011-4
2. [3.1] JOHN IBRAHIM J. - GARANTZIOTIS S. - SAVANI R.C. *Chapter 9 - The Inflammation Superhighway: Tolls, Signals, and Pathways to Bronchopulmonary Dysplasia. (Book Chapter)*. In *UPDATES ON NEONATAL CHRONIC LUNG DISEASE*. ISBN 978-0-323-68353-1, 2020, P. 131-150. <https://doi.org/10.1016/B978-0-323-68353-1.00009-9>

- ADDA16 HRICOVÍNIOVÁ, Zuzana** - HRICOVÍNĽ, Michal - KOZICS, Katarína. New series of quinazolinone derived Schiff's bases: synthesis, spectroscopic properties and evaluation of their antioxidant and cytotoxic activity. In *Chemical Papers*, 2018, vol. 72, no. 4, p. 1041-1053. (2017: 0.963 - IF, Q4 - JCR, 0.306 - SJR, Q2 - SJR,

karentované - CCC). (2018 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-017-0345-y> (VEGA č. 1/0041/15 : Fotoindukované procesy N-heterocyklov v homogénnych a heterogénnych systémoch: štruktúra versus reaktivita. VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro. VEGA 2/0022/18 : Nové prekursor pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou)

Citácie:

1. [1.1] BULDURUN, Kenan - TURAN, Nevin - BURSAL, Ercan - MANTARCI, Asim - TURKAN, Fikret - TASLIMI, Parham - GULCIN, İlhami. *Synthesis, spectroscopic properties, crystal structures, antioxidant activities and enzyme inhibition determination of Co(II) and Fe(II) complexes of Schiff base. In RESEARCH ON CHEMICAL INTERMEDIATES. ISSN 0922-6168, 2020, vol. 46, no. 1, pp. 283-297. Dostupné na: <https://doi.org/10.1007/s11164-019-03949-3>, Registrované v: WOS*

2. [1.1] SALEM, Marwa Sayed - AL-MABROOK, Selima Ali Mohamed - EL-HASHASH, Maher Abd El-Aziz Mahmoud. *Synthesis and antiproliferative evaluation of some novel quinazolin-4(3H)-one derivatives. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2020, vol. 57, no. 11, pp. 3898-3906. Dostupné na: <https://doi.org/10.1002/jhet.4096>, Registrované v: WOS*

ADDA17 KÓŇA, Juraj - TVAROŠKA, Igor. Comparative DFT study on the alfa-glycosidic bond in reactive species of galactosyl diphosphates. In Chemical papers, 2009, vol. 63, no. 5, p.598-607. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-009-0060-4>

Citácie:

1. [1.1] YAN, Lijuan - LIU, Yongjun. *The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYLT1): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>, Registrované v: WOS*

ADDA18 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Chemical evaluation of seeded fruit biomass of oil pumpkin (*Curcubita pepo* L. var. *Styriaca*). Anna Ebringerová. In Chemical papers, 2009, vol. 63, no. 4, pp.406-413. (2008: 0.758 - IF, Q3 - JCR, 0.284 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-009-0035-5>

Citácie:

1. [1.1] JIWANI, Shahwar Imran - GILLIS, Richard B. - BESONG, David - ALMUTAIRI, Fahad - ERTEN, Tayyibe - KOK, M. Samil - HARDING, Stephen E. - PAULSEN, Berit S. - ADAMS, Gary G. *Isolation and Biophysical Characterisation of Bioactive Polysaccharides from Cucurbita Moschata (Butternut Squash). In POLYMERS, 2020, vol. 12, no. 8, pp. Dostupné na: <https://doi.org/10.3390/polym12081650>, Registrované v: WOS*

ADDA19 KOZMON, Stanislav - TVAROŠKA, Igor. Molecular dynamic studies of amyloid-beta interactions with curcumin and Cu²⁺ ions. In Chemical Papers, 2015, vol. 69, p. 1262-1276. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0134>

Citácie:

1. [1.1] AHMED, Aya - GHALLAB, Enas H. - SHEHATA, Magdi - ZEKRI, Abdel-Rahman N. - AHMED, Ola S. Impact of nano-conjugate on Drosophila for early diagnosis of Alzheimer's disease. In NANOTECHNOLOGY. ISSN 0957-4484, 2020, vol. 31, no. 36, pp. Dostupné na: <https://doi.org/10.1088/1361-6528/ab7535>., Registrované v: WOS
 2. [1.1] JAKUBOWSKI, Joseph M. - ORR, Asuka A. - LE, Doan A. - TAMAMIS, Phanourios. Interactions between Curcumin Derivatives and Amyloid-beta Fibrils: Insights from Molecular Dynamics Simulations. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 1, pp. 289-305. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00561>., Registrované v: WOS
- ADDA20 MISLOVIČOVÁ, Danica - GEMEINER, Peter - KOZAROVA, Anna - KOŽÁR, Tibor. Lectinomics I. Relevance of exogenous plant lectins in Biomedical diagnostics. In Biologia : journal of the Slovak Academy of Science, 2009, vol. 64, no. 1, p. 1-19. (2008: 0.406 - IF, Q4 - JCR, 0.138 - SJR, Q3 - SJR, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-009-0029-3>
- Citácie:
1. [1.1] BUCKLE, Tessa - VAN DER WAL, Steffen - VAN WILLIGEN, Danny M. - AALDERINK, Germaine - KLEINJAN, Gijis H. - VAN LEEUWEN, Fijis W. B. Fluorescence background quenching as a means to increase Signal to Background ratio a proof of concept during Nerve Imaging. In THERANOSTICS. ISSN 1838-7640, 2020, vol. 10, no. 21, pp. 9890-9898. Dostupné na: <https://doi.org/10.7150/thno.46806>., Registrované v: WOS
 2. [1.1] LASTOVICKOVA, Marketa - STROUHALOVA, Dana - BOBALOVA, Janette. Use of Lectin-based Affinity Techniques in Breast Cancer Glycoproteomics: A Review. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2020, vol. 19, no. 5, pp. 1885-1899. Dostupné na: <https://doi.org/10.1021/acs.jproteome.9b00818>., Registrované v: WOS
- ADDA21 NOVOTNÁ, Z. - KOÓŠ, Miroslav** - MATULOVÁ, Mária. Preparation and characterization of 2-alkylthio-4-(4-bromomethylbenzoyloxy)-6-methylpyrimidines. In Chemical Papers, 1991, vol. 45, p. 651-656. ISSN 0366-6352.
- Citácie:
1. [1.1] KOESE, Meryem - PILLAIYAR, Thanigaimalai - NAMASIVAYAM, Vigneshwaran - DE FILIPPO, Elisabetta - SYLVESTER, Katharina - ULVEN, Trond - VON KUEGELGEN, Ivar - MUELLER, Christa E. An Agonist Radioligand for the Proinflammatory Lipid-Activated G Protein-Coupled Receptor GPR84 Providing Structural Insights. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2020, vol. 63, no. 5, pp. 2391-2410. Dostupné na: <https://doi.org/10.1021/acs.jmedchem.9b01339>., Registrované v: WOS
- ADDA22 PAKANOVÁ, Zuzana** - MATULOVÁ, Mária - UHLIARIKOVÁ, Iveta - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - JURÍČKOVÁ, Katarína - NEMČOVIČ, Marek - PĀTOPRSTÝ, Vladimír - MUCHA, Ján. Case study: monitoring of Glc4 tetrasaccharide in the urine of Pompe patients, use of MALDI-TOF MS, and 1H NMR. In Chemical Papers, 2019, vol. 73, no. 3, p. 701-711. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] ELMONEM, Mohamed A. - ABDELAZIM, Aya M. Novel biomarkers for lysosomal storage disorders: Metabolomic and proteomic approaches. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2020, vol. 509, no., pp. 195-209. Dostupné na: <https://doi.org/10.1016/j.cca.2020.06.028>., Registrované v: WOS

- ADDA23 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BYSTRICKÝ, Peter - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - WILSON, I.B.H. - MUCHA, Ján. Comparative ESI FT-MS and MALDI-TOF structural analyses of representative human N-linked glycans. In Chemical Papers, 2015, vol. 69, p. 1633-1638. (2014: 1.468 - IF, Q3 - JCR, 0.378 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1515/chempap-2015-0182>
- Citácie:
1. [1.1] HARVEY, David J. Negative ion mass spectrometry for the analysis of N-linked glycans. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2020, vol. 39, no. 5-6, pp. 586-679. Dostupné na: <https://doi.org/10.1002/mas.21622>., Registrované v: WOS
- ADDA24 SUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - JOSKOVA, Marta - SUTOVSKÝ, Juraj - MARCINEK, J. - KALMAN, Michal. Antitussive activity of Althaea officinalis L. polysaccharide rhamnogalacturonan and its changes in guinea pigs with ovalbumin-induced airways inflammation. In Bratislava Medical Journal, 2011, vol. 112, p. 670-675. (2010: 0.345 - IF, Q4 - JCR, 0.158 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0006-9248.
- Citácie:
1. [1.1] MOMBEINI, Tajmah - BEHZADI, Babak Asadpour - EDJTEMAEE, Ramtin - TAHMASBI, Freidoun - KAMALINEJAD, Mohammad - DEHPOUR, Ahmad Reza. Anticonvulsant Effect of Alcea aucheri on Pentylene-tetrazole and Maximal Electroshock Seizures in Mice. In BASIC AND CLINICAL NEUROSCIENCE. ISSN 2008-126X, 2020, vol. 11, no. 3, pp. 369-377. Dostupné na: <https://doi.org/10.32598/bcn.11.2.?2064.1>., Registrované v: WOS
- ADDA25 ŠURANSKÁ, Hana - VRÁNOVÁ, Dana - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta. Monitoring of yeast population isolated during spontaneous fermentation of Moravian wine. In Chemical papers, 2012, vol. 66, p. 861-868. (2011: 1.096 - IF, Q3 - JCR, 0.359 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0366-6352. Dostupné na: <https://doi.org/10.2478/s11696-012-0198-3>
- Citácie:
1. [1.1] CORBU, Viorica - PECETE, Ionut - VASSU, Tatiana - CSUTAK, Ortansa. New yeast strains from Black Sea and oil polluted soil with lipolytic potential. In ROMANIAN BIOTECHNOLOGICAL LETTERS. ISSN 1224-5984, 2020, vol. 25, no. 5, pp. 1998-2007. Dostupné na: <https://doi.org/10.25083/rbl/25.5/1998.2007>., Registrované v: WOS
2. [1.1] JANKURA, Ervin - PIKNOVA, Lubica - LOPASOVSKA, Janka. Identification and technological characteristics of yeast strains from vineyards in Slovakia. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020, vol. 59, no. 3, pp. 241-249., Registrované v: WOS
- ADDA26 TALÁBA, P. - SROKOVÁ, Iva - HODÚL, P. - EBRINGEROVÁ, Anna. New procedure for the preparation of cellulose esters with aromatic carboxylic acids. In Chemical Papers - Chemické zvesti, 1996, vol. 50, p. 365-368. ISSN 0366-6352.
- Citácie:
1. [1.1] TEACA, Carmen-Alice - TANASA, Fulga. Wood Surface Modification-Classic and Modern Approaches in Wood Chemical Treatment by Esterification Reactions. In COATINGS, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/coatings10070629>., Registrované v: WOS
- ADDA27 UHLIARIKOVÁ, Iveta - CHVÁLOVÁ, Beáta - MATULOVÁ, Mária - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter**. Extracellular biopolymers produced by freshwater cyanobacteria: a screening study. In Chemical Papers, 2019, vol. 73, p. 771-776. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, karentované

- CCC). (2019 - Current Contents). ISSN 0366-6352. Dostupné na:

<https://doi.org/10.1007/s11696-018-0625-1>

Citácie:

1. [1.1] *BERBEE, Mary L. - STRULLU-DERRIEN, Christine - DELAUX, Pierre-Marc - STROTHER, Paul K. - KENRICK, Paul - SELOSSE, Marc-Andre - TAYLOR, John W. Genomic and fossil windows into the secret lives of the most ancient fungi. In NATURE REVIEWS MICROBIOLOGY. ISSN 1740-1526, 2020, vol. 18, no. 12, pp. 717-730. Dostupné na: <https://doi.org/10.1038/s41579-020-0426-8>, Registrované v: WOS*

2. [1.1] *CRUZ, Diogo - VASCONCELOS, Vitor - PIERRE, Guillaume - MICHAUD, Philippe - DELATTRE, Cedric. Exopolysaccharides from Cyanobacteria: Strategies for Bioprocess Development. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/app10113763>, Registrované v: WOS*

ADDA28

VATEHOVÁ, Zuzana - KOLLÁROVÁ, Karin - ZELKO, Ivan - RICHTEROVÁ, Danica, Richterová - BUJDOŠ, Marek - LIŠKOVÁ, Desana. Interaction of silicon and cadmium in Brassica juncea and Brassica napus. In Biologia : journal of the Slovak Academy of Sciences, 2012, vol. 67, no. 3, p. 498-504. (2011: 0.557 - IF, Q4 - JCR, 0.256 - SJR, Q3 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3088. Dostupné na: <https://doi.org/10.2478/s11756-012-0034-9>

Citácie:

1. [1.1] *KRESZIES, T. - KRESZIES, V. - LY, F. - THANGAMANI, P.D. - SHELLAKKUTTI, N. - SCHREIBER, L. Suberized transport barriers in plant roots: the effect of silicon. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6799-6806., Registrované v: WOS*

2. [1.1] *VACULIK, M. - LUKACOVA, Z. - BOKOR, B. - MARTINKA, M. - TRIPATHI, D.K. - LUX, A. Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 2 2020, vol. 71, no. 21, SI, p. 6744-6757., Registrované v: WOS*

3. [1.1] *ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Application of titanium dioxide nanoparticles to promote phytoremediation of Cd-polluted soil: contribution of PGPR inoculation. In BIOREMEDIATION JOURNAL. ISSN 1088-9868, JUL 2 2020, vol. 24, no. 2-3, p. 171-189., Registrované v: WOS*

4. [1.1] *ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Co-application of biochar and titanium dioxide nanoparticles to promote remediation of antimony from soil by Sorghum bicolor: metal uptake and plant response. In HELIYON. AUG 2020, vol. 6, no. 8., Registrované v: WOS*

5. [1.1] *ZAND, A.D. - TABRIZI, A.M. - HEIR, A.V. Incorporation of biochar and nanomaterials to assist remediation of heavy metals in soil using plant species. In ENVIRONMENTAL TECHNOLOGY & INNOVATION. ISSN 2352-1864, NOV 2020, vol. 20., Registrované v: WOS*

6. [1.2] *ZAND, Ali Daryabeigi. Toxicity of zero-valent iron nanoparticles and its fate in zea mays. In Advances in Environmental Technology. ISSN 24766674, 2019-06-01, 5, 3, pp. 149-156. Dostupné na: <https://doi.org/10.22104/AET.2020.4181.1208>, Registrované v: SCOPUS*

ADDA29

ZICHOVÁ, Miroslava - STRATILOVÁ, Eva - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - BABÁK, Libor - ROSENBERG, Michal. Production of ethanol from waste paper using immobilized yeasts. In Chemical Papers, 2017, vol. 71, p. 553-561. (2016: 1.258 - IF, Q3 - JCR, 0.347 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0366-6352. Dostupné na:

<https://doi.org/10.1007/s11696-016-0036-0>

Citácie:

1. [1.1] NDUBUISI, Ifeanyi A. - QIN, Qijian - LIAO, Guiyan - WANG, Bin - MONEKE, Anene N. - OGBONNA, James C. - JIN, Cheng - FANG, Wenxia. *Effects of various inhibitory substances and immobilization on ethanol production efficiency of a thermotolerant Pichia kudriavzevii*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01729-5>, Registrované v: WOS
2. [1.1] NOBILE, Matias L. - IRIBARREN, Adolfo M. - LEWKOWICZ, Elizabeth S. *Citrobacter koseri immobilized on agarose beads for nucleoside synthesis: a potential biocatalyst for preparative applications*. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2020, vol. 43, no. 4, pp. 637-644. Dostupné na: <https://doi.org/10.1007/s00449-019-02261-z>, Registrované v: WOS

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

- ADEA01 BIELY, Peter - KLUEPFEL, D. - MOROSOLI, R. - SHARECK, F. Mode of action of three endo- β -1,4-xylanases of *Streptomyces lividans*. In *Biochimica et Biophysica Acta* : protein structure and molecular enzymology, 1993, vol. 1162, p. 246-254. ISSN 0167-4838. Dostupné na: [https://doi.org/10.1016/0167-4838\(93\)90288-3](https://doi.org/10.1016/0167-4838(93)90288-3)
Citácie:
1. [1.1] ALYILEILI, Salem R. - EL-TARABILI, Khaled A. - BELAL, Ibrahim E. H. - IBRAHIM, Wissam H. - SULAIMAN, Mohsin - HUSSEIN, Ahmed S. *Intestinal Development and Histomorphometry of Broiler Chickens Fed Trichoderma reesei Degraded Date Seed Diets*. In *FRONTIERS IN VETERINARY SCIENCE*, 2020, vol. 7, no., pp. Dostupné na: <https://doi.org/10.3389/fvets.2020.00349>, Registrované v: WOS
2. [1.1] BRAR, Kamalpreet Kaur - SANTO, Melissa C. Espirito - PELLEGRINI, Vanessa O. A. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. C. - POLIKARPOV, Igor - CHADHA, Bhupinder Singh. *Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification*. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2020, vol. 139, no., pp. Dostupné na: <https://doi.org/10.1016/j.biombioe.2020.105639>, Registrované v: WOS
3. [1.1] ENEYSKAYA, Elena V. - BOBROV, Kirill S. - KASHINA, Maria V. - BORISOVA, Anna S. - KULMINSKAYA, Anna A. *A novel acid-tolerant beta-xylanase from *Scytalidium candidum* 3C for the synthesis of o-nitrophenyl xylooligosaccharides*. In *JOURNAL OF BASIC MICROBIOLOGY*. ISSN 0233-111X, 2020, vol. 60, no. 11-12, pp. 971-982. Dostupné na: <https://doi.org/10.1002/jobm.202000303>, Registrované v: WOS
- ADEA02 BUČKO, Marek - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MISLOVIČOVÁ, Danica - LACÍK, Igor - TKÁČ, Ján. Coencapsulation of oxygen carriers and glucose oxidase in polyelectrolyte complex capsules for the enhancement of D-gluconic acid and beta-gluconolactone production. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2010, vol. 38, p. 90 - 98. (2009: 0.939 - IF, Q4 - JCR). ISSN 1073-1199. Dostupné na: <https://doi.org/10.3109/10731191003634745>
Citácie:
1. [1.1] HAMZAH, H.H. - KAMAL, N.N.A. - MENEGHELLO, M. - SHAFIEE, S.A. - SONMEZ, T. - TAIB, M.N.A.M. - SAMSURI, S.H.M. - ZULKIFII, M.F.M. *Hexanediamine Monolayer Electrografted at Glassy Carbon Electrodes Enhances Oxygen Reduction Reaction in Aqueous Neutral Media*. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, DEC 1 2020, vol. 167, no. 16., Registrované v: WOS

- ADEA03 HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - MOZEŠ, Štefan - SROKOVÁ, I. - EBRINGEROVÁ, Anna. Hydrophobically modified pectates as novel functional polymers in food and non-food applications. In BioResources, 2008, vol. 3, p. 71-78. ISSN 1930-2126.

Citácie:

1. [1.1] JAFAR MAZUMDER, Mohammad A. A Review of Green Scale Inhibitors: Process, Types, Mechanism and Properties. In COATINGS, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/coatings10100928>., Registrované v: WOS

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 HROMÁDKOVÁ, Zdenka - STAVOVÁ, A. - EBRINGEROVÁ, Anna - HIRSCH, Ján. Effect of buckwheat hull hemicelluloses addition on the bread-making quality of wheat flour. In Journal of Food and Nutrition Research, 2007, vol. 46, p. 158-166. ISSN 1336-8672.

Citácie:

1. [1.1] ZHU, Fan. Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2020, vol. 248, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.116819>., Registrované v: WOS

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

- ADFB01 DŘÍMAL, Ján - KNEZL, Vladimír - NAVAROVÁ, Jana - NEDELČEVOVÁ, Jana - PAULOVICHOVÁ, Ema - SOTNÍKOVÁ, Ružena - ŠNIRC, Vladimír - DŘÍMAL, Daniel. Role of inflammatory cytokines and chemoattractants in the rat model of streptozotocin-induced diabetic heart failure. In Endocrine Regulations, 2008, vol. 42, p. 129-135. (2007: 0.499 - SJR, Q2 - SJR). ISSN 1210-0668.

Citácie:

1. [1.1] CHAN, K.C. - KOK, K.E. - HUANG, K.F. - WENG, Y.L. - CHUNG, Y.C. Effects of fermented red bean extract on nephropathy in streptozocin-induced diabetic rats. In FOOD & NUTRITION RESEARCH. ISSN 1654-6628, 2020, vol. 64, art. no. 4272., Registrované v: WOS

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In Essays in Biochemistry, 2016, vol. 60, p. 37-47. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150005>

Citácie:

1. [1.1] BELICKA, Ludmila. Introduction to Glycomics and Glycan Analysis. In GLYCONANOTECHNOLOGY: NANOSCALE APPROACH FOR NOVEL GLYCAN ANALYSIS AND THEIR MEDICAL USE, 2020, vol., no., pp. 33-64., Registrované v: WOS
2. [1.1] HASSAN, Sammer-ul - DONIA, Ahmed - SIAL, Usman - ZHANG, Xunli - BOKHARI, Habib. Glycoprotein- and Lectin-Based Approaches for Detection of Pathogens. In PATHOGENS, 2020, vol. 9, no. 9, pp. Dostupné na: <https://doi.org/10.3390/pathogens9090694>., Registrované v: WOS

3. [1.1] MENON, Shalini - MATHEW, Manna Rachel - SAM, Sonia - KEERTHI, K. - KUMAR, K. Girish. Recent advances and challenges in electrochemical biosensors for emerging and re-emerging infectious diseases. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2020, vol. 878, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2020.114596>., Registrované v: WOS

4. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In *MICROMACHINES*, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS

5. [1.1] YAZDI, Mohammad Kaji - GHAZIZADEH, E. - NESHASTEHRIZ, Ali. Different liposome patterns to detection of acute leukemia based on electrochemical cell sensor. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1109, no., pp. 122-129. Dostupné na: <https://doi.org/10.1016/j.aca.2020.02.060>., Registrované v: WOS

ADMA02 BENNATI-GRANIER, Chloe - GARAJOVÁ, Soňa - CHAMPION, Charlotte - GRISEL, Sacha - HAON, Mireille - ZHOU, Simeng - FANUEL, Mathieu - ROPARTZ, David - ROGNIAUX, Hélène - GIMBERT, Isabelle - RECORD, Eric - BERRIN, Jean-Guy. Substrate specificity and regioselectivity of fungal AA9 lytic polysaccharide monooxygenases secreted by *Podospora anserina*. In *Biotechnology for biofuels*, 2015, vol. 8, article no. 90. (2014: 6.044 - IF, Q1 - JCR, 2.490 - SJR, Q1 - SJR). ISSN 1754-6834. Dostupné na: <https://doi.org/10.1186/s13068-015-0274-3>

Citácie:

1. [1.1] ADSUL, Mukund - SANDHU, Simranjeet Kaur - SINGHANIA, Reeta Rani - GUPTA, Ravi - PURI, Suresh K. - MATHUR, Anshu. Designing a cellulolytic enzyme cocktail for the efficient and economical conversion of lignocellulosic biomass to biofuels. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2020, vol. 133, no., pp. Dostupné na: <https://doi.org/10.1016/j.enzmictec.2019.109442>., Registrované v: WOS

2. [1.1] AGRAWAL, Dhruv - BASOTRA, Neha - BALAN, Venkatesh - TSANG, Adrian - CHADHA, Bhupinder Singh. Discovery and Expression of Thermostable LPMOs from Thermophilic Fungi for Producing Efficient Lignocellulolytic Enzyme Cocktails. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2020, vol. 191, no. 2, pp. 463-481. Dostupné na: <https://doi.org/10.1007/s12010-019-03198-5>., Registrované v: WOS

3. [1.1] AGRAWAL, Dhruv - KAUR, Baljit - BRAR, Kamalpreet Kaur - CHADHA, Bhupinder Singh. An innovative approach of priming lignocellulosics with lytic polysaccharide mono-oxygenases prior to saccharification with glycosyl hydrolases can economize second generation ethanol process. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2020, vol. 308, no., pp. Dostupné na: <https://doi.org/10.1016/j.biortech.2020.123257>., Registrované v: WOS

4. [1.1] BARBOSA, Fernando Cesar - SILVELLO, Maria Augusta - GOLDBECK, Rosana. Cellulase and oxidative enzymes: new approaches, challenges and perspectives on cellulose degradation for bioethanol production. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 6, pp. 875-884. Dostupné na: <https://doi.org/10.1007/s10529-020-02875-4>., Registrované v: WOS

5. [1.1] BISSARO, Bastien - KOMMEDAL, Eirik - ROHR, Asmund K. - EIJSINK, Vincent G. H. Controlled depolymerization of cellulose by light-driven lytic polysaccharide oxygenases. In *NATURE COMMUNICATIONS*. ISSN 2041-1723,

- 2020, vol. 11, no. 1, pp. Dostupné na: <https://doi.org/10.1038/s41467-020-14744-9>, Registrované v: WOS
6. [1.1] CALDERARO, F. - KESER, M. - AKEROYD, M. - BEVERS, L. E. - EIJSINK, V. G. H. - VARNAI, A. - VAN DEN BERG, M. A. Characterization of an AA9 LPMO from *Thielavia australiensis*, TausLPMO9B, under industrially relevant lignocellulose saccharification conditions. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01836-3>, Registrované v: WOS
7. [1.1] CHEN, Chun-Chi - DAI, Longhai - MA, Lixin - GUO, Rey-Ting. Enzymatic degradation of plant biomass and synthetic polymers. In *NATURE REVIEWS CHEMISTRY*, 2020, vol. 4, no. 3, pp. 114-126. Dostupné na: <https://doi.org/10.1038/s41570-020-0163-6>, Registrované v: WOS
8. [1.1] FILANDR, Frantisek - KAVAN, Daniel - KRACHER, Daniel - LAURENT, Christophe V. F. P. - LUDWIG, Roland - MAN, Petr - HALADA, Petr. Structural Dynamics of Lytic Polysaccharide Monooxygenase during Catalysis. In *BIOMOLECULES*, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/biom10020242>, Registrované v: WOS
9. [1.1] GABER, Yasser - RASHAD, Boshra - HUSSEIN, Rasha - ABDELGAWAD, Mai - ALI, Nourhan S. - DISHISHA, Tarek - VARNAI, Aniko. Heterologous expression of lytic polysaccharide monooxygenases (LPMOs). In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2020, vol. 43, no., pp. Dostupné na: <https://doi.org/10.1016/j.biotechadv.2020.107583>, Registrované v: WOS
10. [1.1] GARRIDO, Mercedes Maria - LANDONI, Malena - SABBADIN, Federico - VALACCO, Maria Pia - COUTO, Alicia - BRUCE, Neil Charles - WIRTH, Sonia Alejandra - CAMPOS, Eleonora. PsAA9A, a Cl-specific AA9 lytic polysaccharide monooxygenase from the white-rot basidiomycete *Pycnoporus sanguineus*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 22, pp. 9631-9643. Dostupné na: <https://doi.org/10.1007/s00253-020-10911-6>, Registrované v: WOS
11. [1.1] GORGULHO SILVA, Caio de Oliveira - TEIXEIRA, Tallyta Santos - RODRIGUES, Kelly Barreto - SOUZA, Amanda Araujo - MONCLARO, Antonielle Vieira - MENDES, Thais Demarchi - RIBEIRO, Jose Antonio de Aquino - GONCALVES DE SIQUEIRA, Felix - FAVARO, Leia Cecilia de Lima - ABDELNUR, Patricia Verardi. Combination of MALDI-TOF MS and UHPLC-ESI-MS for the characterization of lytic polysaccharide monooxygenase activity. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2020, vol. 12, no. 2, pp. 149-161. Dostupné na: <https://doi.org/10.1039/c9ay01774g>, Registrované v: WOS
12. [1.1] GUO, Xiao - SANG, Jingcheng - CHAI, Chengcheng - AN, Yajing - WEI, Zhifeng - ZHANG, Huitu - MA, Lijuan - DAI, Yujie - LU, Fuping - LIU, Fufeng. A lytic polysaccharide monooxygenase from *Myceliophthora thermophila* Cl and its characterization in cleavage of glycosidic chain of cellulose. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2020, vol. 162, no., pp. Dostupné na: <https://doi.org/10.1016/j.bej.2020.107712>, Registrované v: WOS
13. [1.1] KARNAOURI, Anthi - JALVO, Blanca - MORITZ, Philipp - MATSAKAS, Leonidas - ROVA, Ulrika - HOEFFT, Oliver - SOURKOUNI, Georgia - MAUS-FRIEDRICHS, Wolfgang - MATHEW, Aji P. - CHRISTAKOPOULOS, Paul. Lytic Polysaccharide Monooxygenase-Assisted Preparation of Oxidized-Cellulose Nanocrystals with a High Carboxyl Content from the Tunic of Marine Invertebrate *Ciona intestinalis*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 50, pp. 18400-18412. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c05036>, Registrované v:

WOS

14. [1.1] LI, Xin - HAN, Chao - LI, Weiguang - CHEN, GuanJun - WANG, Lushan. *Insights into the cellulose degradation mechanism of the thermophilic fungus Chaetomium thermophilum based on integrated functional omics*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s13068-020-01783-z>, Registrované v: WOS
15. [1.1] LIMSAKUL, Puangpen - PHITSUWAN, Paripok - WAEONUKUL, Rattiya - PASON, Patthra - TACHAAPA KOON, Chakrit - POOMPUTSA, Kanokwan - KOSUGI, Akihiko - SAKKA, Makiko - SAKKA, Kazuo - RATANAKHANOKCHAI, Khanok. *A novel AA10 from Paenibacillus curdlanolyticus and its synergistic action on crystalline and complex polysaccharides*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7533-7550. Dostupné na: <https://doi.org/10.1007/s00253-020-10758-x>, Registrované v: WOS
16. [1.1] LONG, Lingfeng - YANG, Huimin - REN, Hongyan - LIU, Rukuan - SUN, Fubao Fuelbiol - XIAO, Zhihong - HU, Jinguang - XU, Zhenghong. *Synergism of Recombinant Podospora anserina PaAA9B with Cellulases Containing AA9s Can Boost the Enzymatic Hydrolysis of Cellulosic Substrates*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2020, vol. 8, no. 32, pp. 11986-11993. Dostupné na: <https://doi.org/10.1021/acssuschemeng.0c02564>, Registrované v: WOS
17. [1.1] MATSUZAWA, Tomohiko - KAMEYAMA, Akihiko - NAKAMICHI, Yusuke - YAOI, Katsuro. *Identification and characterization of two xyloglucan-specific endo-1,4-glucanases in Aspergillus oryzae*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 20, pp. 8761-8773. Dostupné na: <https://doi.org/10.1007/s00253-020-10883-7>, Registrované v: WOS
18. [1.1] MONCLARO, Antonielle - PETROVIC, Dejan M. - ALVES, Gabriel S. C. - COSTA, Marcos M. C. - MIDORIKAWA, Glaucia E. O. - MILLER, Robert N. G. - FILHO, Edivaldo X. F. - EIJSINK, Vincent G. H. - VARNAL, Aniko. *Characterization of two family AA9 LPMOs from Aspergillus tamarii with distinct activities on xyloglucan reveals structural differences linked to cleavage specificity*. In *PLOS ONE*. ISSN 1932-6203, 2020, vol. 15, no. 7, pp. Dostupné na: <https://doi.org/10.1371/journal.pone.0235642>, Registrované v: WOS
19. [1.1] OSTBY, Heidi - HANSEN, Line Degn - HORN, Svein J. - EIJSINK, Vincent G. H. - VARNAL, Aniko. *Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 9-10, pp. 623-657. Dostupné na: <https://doi.org/10.1007/s10295-020-02301-8>, Registrované v: WOS
20. [1.1] SUN, Peicheng - FROMMHAGEN, Matthias - HAAR, Maloe Kleine - VAN ERVEN, Gijs - BAKX, Edwin J. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. *Mass spectrometric fragmentation patterns discriminate C1- and C4-oxidised cello-oligosaccharides from their non-oxidised and reduced forms*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2020, vol. 234, no., pp. Dostupné na: <https://doi.org/10.1016/j.carbpol.2020.115917>, Registrované v: WOS
21. [1.1] SUN, Peicheng - LAURENT, Christophe V. F. P. - SCHEIBL BRANDNER, Stefan - FROMMHAGEN, Matthias - KOUZOUNIS, Dimitrios - SANDERS, Mark G. - VAN BERKEL, Willem J. H. - LUDWIG, Roland - KABEL, Mirjam A. *Configuration of active site segments in lytic polysaccharide monooxygenases steers oxidative xyloglucan degradation*. In *BIOTECHNOLOGY*

FOR BIOFUELS, 2020, vol. 13, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s13068-020-01731-x>, Registrované v: WOS

22. [1.1] VACA-GONZALEZ, Alonso - ALBERTO FLORES-VALDEZ, Mario - DE JESUS ACEVES-SANCHEZ, Michel - AMANDA CAMACHO-VILLEGAS, Tanya - ARELI PEREZ-PADILLA, Nayeli - BURCIAGA-FLORES, Mirna - ANGEL DE LA CRUZ, Miguel - ARES, Miguel A. - MANUEL MORA-MONTES, Hector - BRAVO-MADRIGAL, Jorge - GAONA-BERNAL, Jorge - KARINA TAMEZ-CASTRELLON, Alma. Overexpression of the *celA1* gene in BCG modifies surface pellicle, glucosamine content in biofilms, and affects in vivo replication. In *TUBERCULOSIS*. ISSN 1472-9792, 2020, vol. 125, no., pp. Dostupné na:

<https://doi.org/10.1016/j.tube.2020.102005>, Registrované v: WOS

23. [1.1] VAN ERVEN, Gijs - KLEIJN, Anne F. - PATYSHAKULIYEVA, Aleksandrina - DI FALCO, Marcos - TSANG, Adrian - DE VRIES, Ronald P. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Evidence for ligninolytic activity of the ascomycete fungus *Podospora anserina*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2020, vol. 13, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s13068-020-01713-z>, Registrované v: WOS

24. [1.1] ZHOU, Xiaoli - ZHU, Honghui. Current understanding of substrate specificity and regioselectivity of LPMOs. In *BIORESOURCES AND BIOPROCESSING*, 2020, vol. 7, no. 1, pp. Dostupné na:

<https://doi.org/10.1186/s40643-020-0300-6>, Registrované v: WOS

ADMA03

BERTÓKOVÁ, Anikó - VIKARTOVSKÁ, Alica - BUČKO, Marek - GEMEINER, Peter - TKÁČ, Ján - CHORVÁT, Dušan - ŠTEFUCA, Vladimír - NEDELA, Vilém. Biooxidation of 2-phenylethanol to phenylacetic acid by whole-cell *Gluconobacter oxydans* biocatalyst immobilized in polyelectrolyte complex capsules. In *Biocatalysis and Biotransformation*, 2015, vol. 33, p. 111-120. (2014: 0.691 - IF, Q4 - JCR, 0.309 - SJR, Q3 - SJR). ISSN 1024-2422. Dostupné na: <https://doi.org/10.3109/10242422.2015.1053470>

Citácie:

1. [1.1] FEHER, Jakub - CERVENANSKY, Ivan - VACLAVIK, Lukas - MARKOS, Jozef. Electrodialysis applied for phenylacetic acid separation from organic impurities: Increasing the recovery. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2020, vol. 235, no., pp. Dostupné na: <https://doi.org/10.1016/j.seppur.2019.116222>, Registrované v: WOS

ADMA04

DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav**. Optical biosensors. In *Essays in Biochemistry*, 2016, vol. 60, no. 1, p. 91-100. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150010>

Citácie:

1. [1.1] ADEEL, Muhammad - RAHMAN, Md Mahbubur - CALIGIURI, Isabella - CANZONIERI, Vincenzo - RIZZOLIO, Flavio - DANIELE, Salvatore. Recent advances of electrochemical and optical enzyme-free glucose sensors operating at physiological conditions. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na:

<https://doi.org/10.1016/j.bios.2020.112331>, Registrované v: WOS

2. [1.1] AGRIOPOULOU, Sofia - STAMATELOPOULOU, Eygenia - VARZAKAS, Theodoros. Advances in Analysis and Detection of Major Mycotoxins in Foods. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na:

<https://doi.org/10.3390/foods9040518>, Registrované v: WOS

3. [1.1] AHMADI, Anita - KABIRI, Shima - OMIDFAR, Kobra. Advances in HbA1c Biosensor Development Based on Field Effect Transistors: A Review. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, 2020, vol. 20, no. 16, pp. 8912-

8921. Dostupné na: <https://doi.org/10.1109/JSEN.2020.2987836>., Registrované v: WOS
4. [1.1] AMERI, Mehrdad - SHABANINEJAD, Zahra - MOVAHEDPOUR, Ahmad - SAHEBKAR, Amirhossein - MOHAMMADI, Soheila - HOSSEINDOOST, Saereh - EBRAHIMI, Mohammad Saeid - SAVARDASHTAKI, Amir - KARIMIPOUR, Mohammad - MIRZAEI, Hamed. Biosensors for detection of Tau protein as an Alzheimer's disease marker. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 1100-1108. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.239>., Registrované v: WOS
5. [1.1] ANDRYUKOV, B. G. - LYAPUN, I. N. - MATOSOVA, E. - SOMOVA, L. M. Biosensor Technologies in Medicine: from Detection of Biochemical Markers to Research into Molecular Targets (Review). In *SOVREMENNYE TEHNOLOGII V MEDICINE*. ISSN 2076-4243, 2020, vol. 12, no. 6, pp. 70-85. Dostupné na: <https://doi.org/10.17691/stm2020.12.6.09>., Registrované v: WOS
6. [1.1] ANDRYUKOV, Boris G. - BESEDNOVA, Natalya N. - ROMASHKO, Roman V. - ZAPOROZHETS, Tatyana S. - EFIMOV, Timofey A. Label-Free Biosensors for Laboratory-Based Diagnostics of Infections: Current Achievements and New Trends. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 2, pp. Dostupné na: <https://doi.org/10.3390/bios10020011>., Registrované v: WOS
7. [1.1] BASSO, Caroline R. - CRUZ, Tais F. - SILVA, Bruna L. - PEDROSA, Valber A. - ARAUJO JUNIOR, Joao P. A Methodology for Porcine Circovirus 2 (PCV-2) Quantification Based on Gold Nanoparticles. In *MATERIALS*, 2020, vol. 13, no. 5, pp. Dostupné na: <https://doi.org/10.3390/ma13051087>., Registrované v: WOS
8. [1.1] BASTOS-SOARES, Erika A. - SOUSA, Rosa Maria O. - GOMEZ, Ana Fidelina - ALFONSO, Jorge - KAYANO, Anderson M. - ZANCHI, Fernando B. - FUNES-HUACCA, Maribel E. - STABELI, Rodrigo G. - SOARES, Andreimar M. - PEREIRA, Soraya S. - FERNANDES, Carla Freire C. Single domain antibodies in the development of immunosensors for diagnostics. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 165, no., pp. 2244-2252. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.10.031>., Registrované v: WOS
9. [1.1] BURGESS, Letitia - WILSON, Hannah - JONES, Alex R. - HAY, Sam - NATRAJAN, Louise S. Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. In *METHODS AND APPLICATIONS IN FLUORESCENCE*. ISSN 2050-6120, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.1088/2050-6120/aba87f>., Registrované v: WOS
10. [1.1] BURGESS, Letitia - WILSON, Hannah - JONES, Alex R. - HAY, Sam - NATRAJAN, Louise S. Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. In *METHODS AND APPLICATIONS IN FLUORESCENCE*. ISSN 2050-6120, 2020, vol. 8, no. 4, pp., Registrované v: WOS
11. [1.1] CHEN, Chen - WANG, Junsheng. Optical biosensors: an exhaustive and comprehensive review. In *ANALYST*. ISSN 0003-2654, 2020, vol. 145, no. 5, pp. 1605-1628. Dostupné na: <https://doi.org/10.1039/c9an01998g>., Registrované v: WOS
12. [1.1] ELAYAN, Hadeel - ECKFORD, Andrew - ADVE, Raviraj. Regulating Molecular Interactions Using Terahertz Communication. In *ICC 2020 2020 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC)*. ISSN 1550-3607, 2020, vol., no., pp., Registrované v: WOS
13. [1.1] FLYNN, Connor - IGNASZAK, Anna. Lyme Disease Biosensors: A

- Potential Solution to a Diagnostic Dilemma. In BIOSENSORS-BASEL, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/bios10100137>., Registrované v: WOS*
14. [1.1] FOROUHI, Saghi - GHAFAR-ZADEH, Ebrahim. Applications of CMOS Devices for the Diagnosis and Control of Infectious Diseases. In MICROMACHINES, 2020, vol. 11, no. 11, pp. Dostupné na: <https://doi.org/10.3390/mi11111003>., Registrované v: WOS
15. [1.1] GAO, Li - DENG, Zebin - LIN, Yuanwei - SULEMANA, Hussein - SHI, Haixia - YU, Chaosheng - CHEN, Shuaijun. Highly sensitive detection for cocaine using an aptamer-modified molybdenum disulfide/gold nanoparticle microarray. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2020, vol. 44, no. 31, pp. 13466-13471. Dostupné na: <https://doi.org/10.1039/d0nj02342f>., Registrované v: WOS
16. [1.1] GARZON, Vivian - BUSTOS, Rosa-Helena - G. PINACHO, Daniel. Personalized Medicine for Antibiotics: The Role of Nanobiosensors in Therapeutic Drug Monitoring. In JOURNAL OF PERSONALIZED MEDICINE, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jpm10040147>., Registrované v: WOS
17. [1.1] GOTOVTSEV, Pavel. How IoT Can Integrate Biotechnological Approaches for City Applications-Review of Recent Advancements, Issues, and Perspectives. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/app10113990>., Registrované v: WOS
18. [1.1] HADJILOUKA, Agni - LOIZOU, Konstantinos - APOSTOLOU, Theofylaktos - DOUGIAKIS, Lazaros - INGLEZAKIS, Antonios - TSALTAS, Dimitrios. Newly Developed System for the Robust Detection of *Listeria monocytogenes* Based on a Bioelectric Cell Biosensor. In BIOSENSORS-BASEL, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/bios10110178>., Registrované v: WOS
19. [1.1] HU, Bin - BOAKYE-YIADOM, Kofi Oti - YU, Wei - YUAN, Zi-Wei - HO, William - XU, Xiaoyang - ZHANG, Xue-Qing. Nanomedicine Approaches for Advanced Diagnosis and Treatment of Atherosclerosis and Related Ischemic Diseases. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2020, vol. 9, no. 16, pp. Dostupné na: <https://doi.org/10.1002/adhm.202000336>., Registrované v: WOS
20. [1.1] HUSSAIN, Khalil K. - MALAVIA, Dhara - JOHNSON, Elizabeth M. - LITTLECHILD, Jennifer - WINLOVE, C. Peter - VOLLMER, Frank - GOW, Neil A. R. Biosensors and Diagnostics for Fungal Detection. In JOURNAL OF FUNGI, 2020, vol. 6, no. 4, pp. Dostupné na: <https://doi.org/10.3390/jof6040349>., Registrované v: WOS
21. [1.1] JAHED, Fatemeh Soghra - HAMIDI, Samin. Applications of surface plasmon resonance in human health care. In NANOMEDICINE. ISSN 1743-5889, 2020, vol. 15, no. 19, pp. 1823-1827. Dostupné na: <https://doi.org/10.2217/nnm-2020-0170>., Registrované v: WOS
22. [1.1] JAIN, Surbhi - PALIWAL, Ayushi - GUPTA, Vinay - TOMAR, Monika. Refractive index tuning of SiO₂ for Long Range Surface Plasmon Resonance based biosensor. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 168, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112508>., Registrované v: WOS
23. [1.1] JAVIER IMAS, Jose - RUIZ ZAMARRENO, Carlos - ZUBIATE, Pablo - SANCHEZ-MARTIN, Lorena - CAMPION, Javier - RAUL MATIAS, Ignacio. Optical Biosensors for the Detection of Rheumatoid Arthritis (RA) Biomarkers: A Comprehensive Review. In SENSORS, 2020, vol. 20, no. 21, pp. Dostupné na:

<https://doi.org/10.3390/s20216289>., Registrované v: WOS

24. [1.1] KAL-KOSHVANDI, Afsaneh Taheri. Recent advances in optical biosensors for the detection of cancer biomarker alpha-fetoprotein (AFP). In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 128, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115920>., Registrované v: WOS

25. [1.1] KHAN, Atif - RAO, T. Subba. Nanobiosensors for virus detection in the environment. In *NANOMATERIALS FOR AIR REMEDIATION*, 2020, vol., no., pp. 61-87. Dostupné na: <https://doi.org/10.1016/B978-0-12-818821-7.00004-X>., Registrované v: WOS

26. [1.1] KHAREWAL, Tannu - VERMA, Neelam - GAHLAUT, Anjum - HOODA, Vikas. Biosensors for penicillin quantification: a comprehensive review. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2020, vol. 42, no. 10, pp. 1829-1846. Dostupné na: <https://doi.org/10.1007/s10529-020-02970-6>., Registrované v: WOS

27. [1.1] KLIMOV, V. V. - SHARONOV, G. V. Optical properties of Platonic clusters of plasmonic nanoparticles. In *QUANTUM ELECTRONICS*. ISSN 1063-7818, 2020, vol. 50, no. 3, pp. 237-241. Dostupné na: <https://doi.org/10.1070/QEL17252>., Registrované v: WOS

28. [1.1] KLIMOV, V. V. - SHARONOV, G. V. Optical properties of Platonic clusters of plasmonic nanoparticles. In *QUANTUM ELECTRONICS*. ISSN 1063-7818, 2020, vol. 50, no. 3, pp. 237-241. Dostupné na: <https://doi.org/10.1070/QEL17252>., Registrované v: WOS

29. [1.1] KORDASHT, Houman Kholafazad - HASANZADEH, Mohammad. Biomedical analysis of exosomes using biosensing methods: recent progress. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2020, vol. 12, no. 22, pp. 2795-2811. Dostupné na: <https://doi.org/10.1039/d0ay00722f>., Registrované v: WOS

30. [1.1] LI, Jingchao - WANG, Xiaoying - SHEN, Mingwu - SHI, Xiangyang. Polyethylenimine-Assisted Generation of Optical Nanoprobes for Biosensing Applications. In *ACS APPLIED BIO MATERIALS*. ISSN 2576-6422, 2020, vol. 3, no. 7, pp. 3935-3955. Dostupné na: <https://doi.org/10.1021/acsabm.0c00536>., Registrované v: WOS

31. [1.1] LIU, Juanjuan - JALALI, Mahsa - MAHSHID, Sara - WACHSMANN-HOGIU, Sebastian. Are plasmonic optical biosensors ready for use in point-of-need applications? In *ANALYST*. ISSN 0003-2654, 2020, vol. 145, no. 2, pp. 364-384. Dostupné na: <https://doi.org/10.1039/c9an02149c>., Registrované v: WOS

32. [1.1] MANSURIYA, Bhargav D. - ALTINTAS, Zeynep. Applications of Graphene Quantum Dots in Biomedical Sensors. In *SENSORS*, 2020, vol. 20, no. 4, pp. Dostupné na: <https://doi.org/10.3390/s20041072>., Registrované v: WOS

33. [1.1] MARTINEZ-PEREZ, Paula - GOMEZ-GOMEZ, Maribel - ANGELOVA, Todora - GRIOL, Amadeu - HURTADO, Juan - BELLIERES, Laurent - GARCIA-RUPEREZ, Jaime. Continuous Detection of Increasing Concentrations of Thrombin Employing a Label-Free Photonic Crystal Aptasensor. In *MICROMACHINES*, 2020, vol. 11, no. 5, pp. Dostupné na: <https://doi.org/10.3390/mi11050464>., Registrované v: WOS

34. [1.1] MATYS, Joanna - GIEROBA, Barbara - JOZWIAK, Krzysztof. Recent developments of bioanalytical methods in determination of neurotransmitters in vivo. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2020, vol. 180, no., pp. Dostupné na: <https://doi.org/10.1016/j.jpba.2019.113079>., Registrované v: WOS

35. [1.1] MAURYA, Vimal K. - KUMAR, Swatantra - SAXENA, Shailendra K. Novel Approaches for Detecting Water-Associated Pathogens. In *WATER-*

- ASSOCIATED INFECTIOUS DISEASES*, 2020, vol., no., pp. 73-95. Dostupné na: https://doi.org/10.1007/978-981-13-9197-2_9, Registrované v: WOS
36. [1.1] MOHAMMADINEJAD, Arash - OSKUEE, Reza Kazemi - EIVAZZADEH-KEIHAN, Reza - REZAYI, Majid - BARADARAN, Behzad - MALEKI, Ali - HASHEMZAEI, Mahmoud - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Development of biosensors for detection of alpha-fetoprotein: As a major biomarker for hepatocellular carcinoma. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 130, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115961>, Registrované v: WOS
37. [1.1] MURAI, Shunsuke - TOKUDOME, Yasuaki - KATSURA, Reo - SAKAMOTO, Hiroyuki - NOGUCHI, Kazuki - TAKAHASHI, Masahide - TANAKA, Katsuhisa. Layered Double Hydroxide Nanosheets on Plasmonic Arrays of Al Nanocylinders for Optical Sensing. In *ACS APPLIED NANO MATERIALS*. ISSN 2574-0970, 2020, vol. 3, no. 6, pp. 5838-5845. Dostupné na: <https://doi.org/10.1021/acsanm.0c01001>, Registrované v: WOS
38. [1.1] NURROHMAN, Devi Taufiq - WANG, Ying-Hao - CHIU, Nan-Fu. Exploring Graphene and MoS(2) Chips Based Surface Plasmon Resonance Biosensors for Diagnostic Applications. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.00728>, Registrované v: WOS
39. [1.1] OZGUR, Erdogan - TOPCU, Aykut Arif - YILMAZ, Erkut - DENIZLI, Adil. Surface plasmon resonance based biomimetic sensor for urinary tract infections. In *TALANTA*. ISSN 0039-9140, 2020, vol. 212, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120778>, Registrované v: WOS
40. [1.1] PEI, Yi - MOLLEY, Thomas G. - KILIAN, Kristopher A. Enzyme Responsive Inverse Opal Hydrogels. In *MACROMOLECULAR RAPID COMMUNICATIONS*. ISSN 1022-1336, 2020, vol. 41, no. 5, pp. Dostupné na: <https://doi.org/10.1002/marc.201900555>, Registrované v: WOS
41. [1.1] PERRY, Grant - CORTEZON-TAMARIT, Fernando - PASCU, Sofia I. Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. In *FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING*. ISSN 2095-0179, 2020, vol. 14, no. 1, pp. 4-18. Dostupné na: <https://doi.org/10.1007/s11705-019-1846-8>, Registrované v: WOS
42. [1.1] PHAN, Le Minh Tu - HOANG, Thi Xoan - VO, Thuy Anh Thu - KIM, Jae Young - LEE, Sang-Myung - CHO, Won Woo - KIM, Young Hyo - CHOI, Seong Hye - CHO, Sungbo. Nanobiosensors for Non-Amyloidbeta-Tau Biomarkers as Advanced Reporters of Alzheimer's Disease. In *DIAGNOSTICS*, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/diagnostics10110913>, Registrované v: WOS
43. [1.1] PIROOZMAND, Firoozeh - MOHAMMADIPANAH, Fatemeh - FARIDBOD, Farnoush. Emerging biosensors in detection of natural products. In *SYNTHETIC AND SYSTEMS BIOTECHNOLOGY*. ISSN 2405-805X, 2020, vol. 5, no. 4, pp. 293-303. Dostupné na: <https://doi.org/10.1016/j.synbio.2020.08.002>, Registrované v: WOS
44. [1.1] PIRZADA, Muqsit - ALTINTAS, Zeynep. Recent Progress in Optical Sensors for Biomedical Diagnostics. In *MICROMACHINES*, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040356>, Registrované v: WOS
45. [1.1] POLYAK, Steven W. - MOWLA, Rumana - VENTER, Henrietta. Measuring Small Molecule Binding to Escherichia coli AcrB by Surface Plasmon Resonance. In *TARGETING ENZYMES FOR PHARMACEUTICAL DEVELOPMENT: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2020, vol. 2089, no., pp. 119-130. Dostupné na: <https://doi.org/10.1007/978-1-0716-0163->

1_7., Registrované v: WOS

46. [1.1] RAJABNEJAD, Seyed-Hossein - BADIBOSTAN, Hasan - VERDIAN, Asma - KARIMI, Gholam Reza - FOOLADI, Ebrahim - FEIZY, Javad.

Aptasensors as promising new tools in bisphenol A detection An invisible pollution in food and environment. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2020, vol. 155, no., pp. Dostupné na:

<https://doi.org/10.1016/j.microc.2020.104722>., Registrované v: WOS

47. [1.1] SADROLHOSSEINI, Amir Reza - NIA, Pooria Moozarm - NASERI, Mahmoud - MOHAMMADI, Ahmad - FEN, Yap Wing - SHAFIE, Suhidi - KAMARI, Halimah Mohamed. *Surface Plasmon Resonance Sensor Based on Polypyrrole-Chitosan-BaFe₂O₄ Nanocomposite Layer to Detect the Sugar. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 8, pp. Dostupné na:*

<https://doi.org/10.3390/app10082855>., Registrované v: WOS

48. [1.1] SAFARPOUR, Hossein - DEHGHANI, Sadegh - NOSRATI, Rahim - ZEBARDAST, Nozhat - ALIBOLANDI, Mona - MOKHTARZADEH, Ahad - RAMEZANI, Mohammad. *Optical and electrochemical-based nano-aptasensing approaches for the detection of circulating tumor cells (CTCs). In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 148, no., pp. Dostupné na:*

<https://doi.org/10.1016/j.bios.2019.111833>., Registrované v: WOS

49. [1.1] SAHIN, Samet - CAGLAYAN, Mustafa Oguzhan - UESTUENDAG, Zafer. *Recent advances in aptamer-based sensors for breast cancer diagnosis: special cases for nanomaterial-based VEGF, HER2, and MUC1 aptasensors. In MICROCHIMICA ACTA. ISSN 0026-3672, 2020, vol. 187, no. 10, pp. Dostupné na:*

<https://doi.org/10.1007/s00604-020-04526-x>., Registrované v: WOS

50. [1.1] SENA-TORRALBA, Amadeo - PALLAS-TAMARIT, Yeray - MORAIS, Sergi - MAQUIEIRA, Angel. *Recent advances and challenges in food-borne allergen detection. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2020, vol. 132, no., pp. Dostupné na:*

<https://doi.org/10.1016/j.trac.2020.116050>., Registrované v: WOS

51. [1.1] SEOK, Joo Seon - JU, Heongkyu. *Plasmonic Optical Biosensors for Detecting C-Reactive Protein: A Review. In MICROMACHINES, 2020, vol. 11, no. 10, pp. Dostupné na: <https://doi.org/10.3390/mi11100895>., Registrované v: WOS*

52. [1.1] SHAFKAT, Araf. *Analysis of a gold coated plasmonic sensor based on a duplex core photonic crystal fiber. In SENSING AND BIO-SENSING RESEARCH, 2020, vol. 28, no., pp. Dostupné na:*

<https://doi.org/10.1016/j.sbsr.2020.100324>., Registrované v: WOS

53. [1.1] SINHA, Rupika - DWIVEDI, Shipra - KUMAR, Avishek - SRIVASTAVA, Pradeep. *Materials in Bio-Sensing of Water Pollutants. In SENSORS IN WATER POLLUTANTS MONITORING: ROLE OF MATERIAL. ISSN 2662-558X, 2020, vol., no., pp. 187-211. Dostupné na: https://doi.org/10.1007/978-981-15-0671-0_11., Registrované v: WOS*

54. [1.1] SOLAIMUTHU, Anbuthiruselvan - VIJAYAN, Ane Nishitha - MURALI, Padmaja - KORRAPATI, Purna Sai. *Nano-biosensors and their relevance in tissue engineering. In CURRENT OPINION IN BIOMEDICAL ENGINEERING. ISSN 2468-4511, 2020, vol. 13, no., pp. 84-93. Dostupné na:*

<https://doi.org/10.1016/j.cobme.2019.12.005>., Registrované v: WOS

55. [1.1] SOUKARIE, Diana - ECOCHARD, Vincent - SALOME, Laurence. *DNA-based nanobiosensors for monitoring of water quality. In INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH. ISSN 1438-4639, 2020, vol. 226, no., pp. Dostupné na:*

<https://doi.org/10.1016/j.ijheh.2020.113485>., Registrované v: WOS

56. [1.1] TOTLAND, Christian - THOMAS, Peter J. - HOIST, Bodil - AKHTAR, Naureen - HOVDENES, Jostein - SKODVIN, Tore. 9-Acridinmethanamine and Acridine-9-Carboxaldehyde as Potential Fluorescence Lifetime pH Indicators. In *JOURNAL OF FLUORESCENCE*. ISSN 1053-0509, 2020, vol. 30, no. 4, pp. 901-906. Dostupné na: <https://doi.org/10.1007/s10895-020-02564-5>, Registrované v: WOS
57. [1.1] VALIUNIENE, Ausra - VIRBICKAS, Povilas - MEDVIKYTE, Giedre - RAMANAVICIUS, Arunas. Urea Biosensor Based on Electrochromic Properties of Prussian Blue. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 3, pp. 503-509. Dostupné na: <https://doi.org/10.1002/elan.201900556>, Registrované v: WOS
58. [1.1] WANG, Shujuan - XU, Dongpo - DING, Chengchao - TIAN, Yachen - GE, Kangjie - GUO, Liang - LI, Jie - DONG, Qingli - HUANG, Yong - LIU, Qing. A colorimetric immunoassay for determination of Escherichia coli O157:H7 based on oxidase-like activity of cobalt-based zeolitic imidazolate framework. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 9, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04407-3>, Registrované v: WOS
59. [1.1] XIANG, Wenwen - LV, Qiuxiang - SHI, Haixia - XIE, Bing - GAO, Li. Aptamer-based biosensor for detecting carcinoembryonic antigen. In *TALANTA*. ISSN 0039-9140, 2020, vol. 214, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120716>, Registrované v: WOS
60. [1.1] XU, Jian - LEE, Hyowon. Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. In *CHEMOSENSORS*, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>, Registrované v: WOS
61. [1.1] ZHANG, Liyuan - GUO, Wei - LU, Yuan. Advances in Cell-Free Biosensors: Principle, Mechanism, and Applications. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2020, vol. 15, no. 9, pp. Dostupné na: <https://doi.org/10.1002/biot.202000187>, Registrované v: WOS
62. [1.2] CHENG, Chen - SHI, Nan - JIANG, Xiao Zhen. Review on studies of molecular imprinted optical biosensors. In *Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities*. ISSN 10039015, 2020-06-01, 34, 3, pp. 572-581. Dostupné na: <https://doi.org/10.3969/j.issn.1003-9015.2020.03.002>, Registrované v: SCOPUS
63. [1.2] GORBENKO, Daria A. - SHKODENKO, Liubov V. - NEDOREZOVA, Daria D. - RUBEL, Maria D. Visual detection of bacterial and viral pathogens with peroxidase-like deoxyribozymes. In *Proceedings of SPIE The International Society for Optical Engineering*. ISSN 0277786X, 2020-01-01, 11477, pp. Dostupné na: <https://doi.org/10.1117/12.2567499>, Registrované v: SCOPUS
64. [1.2] HARUN, Noor Hasmiza - HASHIM, Nur Shafiqah - ABDULLAH, Muhammad Rosli. Development of plasmonic thin film for biosensor. In *AIP Conference Proceedings*. ISSN 0094243X, 2020-11-02, 2291, pp. Dostupné na: <https://doi.org/10.1063/5.0022828>, Registrované v: SCOPUS
65. [1.2] JEFFREE, Amanina Iymia - KARMAN, Salmah - IBRAHIM, Suriani - KARIM, Mohd Sayuti Ab - ROZALI, Shaifulazuar. Biosensors Approach for Lung Cancer Diagnosis—A Review. In *Lecture Notes in Mechanical Engineering*. ISSN 21954356, 2020-01-01, pp. 425-435. Dostupné na: https://doi.org/10.1007/978-981-13-8323-6_36, Registrované v: SCOPUS
66. [1.2] SALOUTI, Mojtaba - DERAKHSHAN, Fateme Khadivi. Biosensors and nanobiosensors in environmental applications. In *Biogenic Nano-Particles and their Use in Agro-ecosystems*, 2020-01-01, pp. 515-591. Dostupné na: https://doi.org/10.1007/978-981-15-2985-6_26, Registrované v: SCOPUS

- ADMA05 67. [1.2] SHAHDEO, Deepshikha - ROBERTS, Akanksha - ABBINENI, Naina - GANDHI, Sonu. Graphene based sensors. In *Comprehensive Analytical Chemistry*. ISSN 0166526X, 2020-01-01, 91, pp. 175-199. Dostupné na: <https://doi.org/10.1016/bs.coac.2020.08.007>, Registrované v: SCOPUS
- HAMMOND, Jules L. - FORMISANO, Nello - ESTRELA, Pedro - CARRARA, Sandro - TKÁČ, Ján. Electrochemical biosensors and nanobiosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 69-80. (2015: 3.378 - IF, Q2 - JCR, 2.420 - SJR, Q1 - SJR). ISSN 0071-1365. Dostupné na: <https://doi.org/10.1042/EBC20150008>
- Citácie:
1. [1.1] AGRIOPOULOU, Sofia - STAMATELOPOULOU, Eygenia - VARZAKAS, Theodoros. Advances in Analysis and Detection of Major Mycotoxins in Foods. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na: <https://doi.org/10.3390/foods9040518>, Registrované v: WOS
 2. [1.1] ALHALAILI, Badriyah - POPESCU, Ileana Nicoleta - KAMOUN, Olfa - ALZUBI, Feras - ALAWADHIA, Sami - VIDU, Ruxandra. Nanobiosensors for the Detection of Novel Coronavirus 2019-nCoV and Other Pandemic/Epidemic Respiratory Viruses: A Review. In *SENSORS*, 2020, vol. 20, no. 22, pp. Dostupné na: <https://doi.org/10.3390/s20226591>, Registrované v: WOS
 3. [1.1] AMERI, Mehrdad - SHABANINEJAD, Zahra - MOVAHEDPOUR, Ahmad - SAHEBKAR, Amirhossein - MOHAMMADI, Soheila - HOSSEINDOOST, Saereh - EBRAHIMI, Mohammad Saeid - SAVARDASHTAKI, Amir - KARIMIPOUR, Mohammad - MIRZAEI, Hamed. Biosensors for detection of Tau protein as an Alzheimer's disease marker. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 162, no., pp. 1100-1108. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.06.239>, Registrované v: WOS
 4. [1.1] ASSAIFAN, Abdulaziz K. - HABIS, Nuha Al - AHMAD, Iftikhar - ALSHEHRI, Naif Ahmed - ALHARBI, Hamad F. Scaling-up medical technologies using flexographic printing. In *TALANTA*. ISSN 0039-9140, 2020, vol. 219, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.121236>, Registrované v: WOS
 5. [1.1] BENEÀ, Licinius - POPESCU, Melania - BAWEDIN, Maryline - SIMION, Monica - IONICA, Irina. Novel DNA Biosensor Based on the Out-of-Equilibrium Body Potential Method in Silicon-on-Insulator. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, 2020, vol. 20, no. 23, pp. 14032-14041. Dostupné na: <https://doi.org/10.1109/JSEN.2020.3008133>, Registrované v: WOS
 6. [1.1] CASTILLO-HENRIQUEZ, Luis - BRENES-ACUNA, Mariana - CASTRO-ROJAS, Arianna - CORDERO-SALMERON, Rolando - LOPRETTI-CORREA, Mary - VEGA-BAUDRIT, Jose Roberto. Biosensors for the Detection of Bacterial and Viral Clinical Pathogens. In *SENSORS*, 2020, vol. 20, no. 23, pp. Dostupné na: <https://doi.org/10.3390/s20236926>, Registrované v: WOS
 7. [1.1] CHAROENKITAMORN, Kanokwan - YAKOH, Abdulhadee - JAMPASA, Sakda - CHAIYO, Sudkate - CHAILAPAKUL, Orawon. Electrochemical and optical biosensors for biological sensing applications. In *SCIENCEASIA*. ISSN 1513-1874, 2020, vol. 46, no. 3, pp. 245-253. Dostupné na: <https://doi.org/10.2306/scienceasia1513-1874.2020.049>, Registrované v: WOS
 8. [1.1] CVANCAROVA, Monika - SHAHGALDIAN, Patrick - CORVINI, Philippe F.X. Enzyme-Based Nanomaterials in Bioremediation. In *ADVANCED NANO-BIO TECHNOLOGIES FOR WATER AND SOIL TREATMENT*, 2020, vol., no., pp. 345-372. Dostupné na: https://doi.org/10.1007/978-3-030-29840-1_16, Registrované v: WOS
 9. [1.1] DAMLE, Madhura A. - SHETTY, Varsha G. - JAKHADE, Alok P. -

- KAUL-GHANEKAR, Ruchika - CHIKATE, Rajeev C. Bi-functional nature of nanoceria: pro-drug and drug-carrier potentiality towards receptor-mediated targeting of doxorubicin. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2020, vol. 44, no. 39, pp. 17013-17026. Dostupné na: <https://doi.org/10.1039/d0nj02895a>., Registrované v: WOS
10. [1.1] DIAZ-BALLOTE, L. - MALDONADO, L. - GENESCA, J. - HOIL-CANUL, E. R. - VEGA-LIZAMA, T. Electrochemical impedance: A new alternative to assess the soap removal from biodiesel in the washing process. In *FUEL*. ISSN 0016-2361, 2020, vol. 265, no., pp. Dostupné na: <https://doi.org/10.1016/j.fuel.2019.116880>., Registrované v: WOS
11. [1.1] DORLEDO DE FARIA, Ricardo Adriano - DOUAUD, Alexandre - SOARES, Renata Braga - DIAS HENEINE, Luiz Guilherme - MATENCIO, Tulio - CUNHA LINS, Vanessa de Freitas - MESSADDEQ, Younes. Electrochemical Behavior of Screen-Printed Carbon Electrodes as Transducers in Biosensors. In *CORROSION*. ISSN 0010-9312, 2020, vol. 76, no. 6, pp. 553-561. Dostupné na: <https://doi.org/10.5006/3203>., Registrované v: WOS
12. [1.1] FLYNN, Connor - IGNASZAK, Anna. Lyme Disease Biosensors: A Potential Solution to a Diagnostic Dilemma. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 10, pp. Dostupné na: <https://doi.org/10.3390/bios10100137>., Registrované v: WOS
13. [1.1] HASSAN, Eman M. - DEROSA, Maria C. Recent advances in cancer early detection and diagnosis: Role of nucleic acid based aptasensors. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2020, vol. 124, no., pp. Dostupné na: <https://doi.org/10.1016/j.trac.2020.115806>., Registrované v: WOS
14. [1.1] KAMAC, Melike Bilgi - ONAT, Eda Kiyamaz - YILMAZ, Merve. A new disposable amperometric NADH sensor based on screen-printed electrode modified with reduced graphene oxide/polyneutral red/gold nanoparticle. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY*. ISSN 0306-7319, 2020, vol. 100, no. 4, pp. 419-431. Dostupné na: <https://doi.org/10.1080/03067319.2019.1703965>., Registrované v: WOS
15. [1.1] KAUSHAL, Sandeep - NANDA, Sitansu Sekhar - SAMAL, Shashadhar - YI, Dong Kee. Strategies for the Development of Metallic-Nanoparticle-Based Label-Free Biosensors and Their Biomedical Applications. In *CHEMBIOCHEM*. ISSN 1439-4227, 2020, vol. 21, no. 5, pp. 576-600. Dostupné na: <https://doi.org/10.1002/cbic.201900566>., Registrované v: WOS
16. [1.1] KHAN, Niazul - SONG, Edward. Lab-on-a-Chip Systems for Aptamer-Based Biosensing. In *MICROMACHINES*, 2020, vol. 11, no. 2, pp. Dostupné na: <https://doi.org/10.3390/mi11020220>., Registrované v: WOS
17. [1.1] KHANMOHAMMADI, Akbar - AGHAIE, Ali - VAHEDI, Ensieh - QAZVINI, Ali - GHANEI, Mostafa - AFKHAMI, Abbas - HAJIAN, Ali - BAGHERI, Hasan. Electrochemical biosensors for the detection of lung cancer biomarkers: A review. In *TALANTA*. ISSN 0039-9140, 2020, vol. 206, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2019.120251>., Registrované v: WOS
18. [1.1] KUCHERENKO, I. S. - SOLDATKIN, O. O. - DZYADEVYCH, S. V. - SOLDATKIN, A. P. Electrochemical biosensors based on multienzyme systems: Main groups, advantages and limitations A review. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1111, no., pp. 114-131. Dostupné na: <https://doi.org/10.1016/j.aca.2020.03.034>., Registrované v: WOS
19. [1.1] MAKLER, Amy - ASGHAR, Waseem. Exosomal biomarkers for cancer diagnosis and patient monitoring. In *EXPERT REVIEW OF MOLECULAR*

- DIAGNOSTICS*. ISSN 1473-7159, 2020, vol. 20, no. 4, pp. 387-400. Dostupné na: <https://doi.org/10.1080/14737159.2020.1731308>., Registrované v: WOS
20. [1.1] MONDAL, Subrata. Potential of Nanotechnology for Rural Applications. In *ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING*. ISSN 2193-567X, 2020, vol. 45, no. 7, pp. 5011-5042. Dostupné na: <https://doi.org/10.1007/s13369-019-04332-5>., Registrované v: WOS
21. [1.1] OSHIN, Oluwadamilola - KIREEV, Dmitry - HLUKHOVA, Hanna - IDACHABA, Francis - AKINWANDE, Deji - ATAYERO, Aderemi. Graphene-Based Biosensor for Early Detection of Iron Deficiency. In *SENSORS*, 2020, vol. 20, no. 13, pp. Dostupné na: <https://doi.org/10.3390/s20133688>., Registrované v: WOS
22. [1.1] PANHWAR, Sallahuddin - ILHAN, Hasan - HASSAN, Syeda Sara - ZENGİN, Adem - BOYACI, Ismail Hakki - TAMER, Ugur. Dual Responsive Disposable Electrode for the Enumeration of *Escherichia coli* in Whole Blood. In *ELECTROANALYSIS*. ISSN 1040-0397, 2020, vol. 32, no. 10, pp. 2244-2252. Dostupné na: <https://doi.org/10.1002/elan.202060185>., Registrované v: WOS
23. [1.1] RAMADOSS, Preethi - RAHMAN, Mohammed Isfahur - PERUMAL, Agilan - NALLAIYAN, Rajendran - BASHA, Sabiha Hayath - DAKSHANAMOORTHY, Arivuoli. Non-Invasive, Non-Enzymatic, Biodegradable and Flexible Sweat Glucose Sensor and Its Electrochemical Studies. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2020, vol. 5, no. 36, pp. 11305-11321. Dostupné na: <https://doi.org/10.1002/slct.202002622>., Registrované v: WOS
24. [1.1] RANI, Seema - BANDYOPADHYAY-GHOSH, Sanchita - GHOSH, Subrata Bandhu - LIU, Guozhen. Advances in Sensing Technologies for Monitoring of Bone Health. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 4, pp. Dostupné na: <https://doi.org/10.3390/bios10040042>., Registrované v: WOS
25. [1.1] RAZMI, Nasrin - HASANZADEH, Mohammad - WILLANDER, Magnus - NUR, Omer. Recent Progress on the Electrochemical Biosensing of *Escherichia coli* O157:H7: Material and Methods Overview. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 5, pp. Dostupné na: <https://doi.org/10.3390/bios10050054>., Registrované v: WOS
26. [1.1] SAFARPOUR, Hossein - DEHGHANI, Sadegh - NOSRATI, Rahim - ZEBARDAST, Nozhat - ALIBOLANDI, Mona - MOKHTARZADEH, Ahad - RAMEZANI, Mohammad. Optical and electrochemical-based nano-aptasensing approaches for the detection of circulating tumor cells (CTCs). In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2020, vol. 148, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2019.111833>., Registrované v: WOS
27. [1.1] SAHIN, Samet - CAGLAYAN, Mustafa Oguzhan - UESTUENDAG, Zafer. Recent advances in aptamer-based sensors for breast cancer diagnosis: special cases for nanomaterial-based VEGF, HER2, and MUC1 aptasensors. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2020, vol. 187, no. 10, pp. Dostupné na: <https://doi.org/10.1007/s00604-020-04526-x>., Registrované v: WOS
28. [1.1] SANGEETHA, D. N. - POOJA, H. - BHANDARY, Savisha - SHETTY, Yashaswini - SUBASHCHANDRABOSE, Raghu - SELVAKUMAR, M. Flexible modified plastic strips coated polyaniline/graphene composite for electrochemical biosensors. In *INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY*. ISSN 0376-4710, 2020, vol. 59, no. 5, pp. 616-624., Registrované v: WOS
29. [1.1] SARDINI, Emilio - SERPELLONI, Mauro - TONELLO, Sarah. Printed Electrochemical Biosensors: Opportunities and Metrological Challenges. In *BIOSENSORS-BASEL*, 2020, vol. 10, no. 11, pp. Dostupné na: <https://doi.org/10.3390/bios10110166>., Registrované v: WOS

30. [1.1] SILVA, Nadia F. D. - NEVES, Marta M. P. S. - MAGALHAES, Julia M. C. S. - FREIRE, Cristina - DELERUE-MATOS, Cristina. *Emerging electrochemical biosensing approaches for detection of Listeria monocytogenes in food samples: An overview*. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2020, vol. 99, no., pp. 621-633. Dostupné na: <https://doi.org/10.1016/j.tifs.2020.03.031>., Registrované v: WOS
31. [1.1] SOARES, Juliana Coatrini - MELENDEZ, Matias Eliseo - SOARES, Andrey Coatrini - ARANTES, Lidia Maria Rebolho Batista - RODRIGUES, Valquiria da Cruz - CARVALHO, Andre Lopes - REIS, Rui Manuel - MATTOSO, Luiz Henrique C. - OLIVEIRA, Osvaldo N. *Detection of HPV16 in cell lines deriving from cervical and head and neck cancer using a genosensor made with a DNA probe on a layer-by-layer matrix*. In *MATERIALS CHEMISTRY FRONTIERS*, 2020, vol. 4, no. 11, pp. 3258-3266. Dostupné na: <https://doi.org/10.1039/d0qm00530d>., Registrované v: WOS
32. [1.1] SOUKARIE, Diana - ECOCHARD, Vincent - SALOME, Laurence. *DNA-based nanobiosensors for monitoring of water quality*. In *INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH*. ISSN 1438-4639, 2020, vol. 226, no., pp. Dostupné na: <https://doi.org/10.1016/j.ijheh.2020.113485>., Registrované v: WOS
33. [1.1] SUNDARARAM, Mohanarangan - JANAKIRAMAN, Kumar - KUMAR, Annamalai Senthil - LAKSHMINARAYANAN, V. - SANKARAN, Krishnan. *AC impedance measurement for the enzyme kinetics of urea-urease system: a model for impedimetric biosensor*. In *BULLETIN OF MATERIALS SCIENCE*. ISSN 0250-4707, 2020, vol. 43, no. 1, pp. Dostupné na: <https://doi.org/10.1007/s12034-020-2055-2>., Registrované v: WOS
34. [1.1] TAHA, Mohamed Husien Fahmy - ASHRAF, Hager - CAESARENDRA, Wahyu. *A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes*. In *APPLIED SYSTEM INNOVATION*, 2020, vol. 3, no. 3, pp. Dostupné na: <https://doi.org/10.3390/asi3030032>., Registrované v: WOS
35. [1.1] VARGIS, Vidhu Sara - VASU, Suneesh Punathil - SREE, R. Jyothi - NAIR, Bipin - GOPALAKRISHNAN, Satheesh Babu Thekkedath. *Peroxidase Labeled Antibody Conjugated Gold Nanoparticles for Ultrasensitive Voltammetric Immunosensing*. In *IEEE SENSORS JOURNAL*. ISSN 1530-437X, 2020, vol. 20, no. 3, pp. 1142-1149. Dostupné na: <https://doi.org/10.1109/JSEN.2019.2946311>., Registrované v: WOS
36. [1.1] WANG, Jun-Sheng - SAKTHIVEL, Rajalakshmi - ANBAZHAGAN, Rajeshkumar - KRISHNAMOORTHY, Rajakumari - KUBENDHIRAN, Subbiramaniyan - LAI, Juin-Yih - TSAI, Hsieh-Chih - CHEN, Shen-Ming. *Electroactive polypyrrole-molybdenum disulfide nanocomposite for ultrasensitive detection of berberine in rat plasma*. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2020, vol. 1125, no., pp. 210-219. Dostupné na: <https://doi.org/10.1016/j.aca.2020.05.056>., Registrované v: WOS
37. [1.1] WANG, Yu - GUO, Yan - LU, Jianguang - SUN, Yanan - YU, Xiaoguang - GOPINATH, Subash C. B. - LAKSHMIPRIYA, Thangavel - WU, Yuan Seng - WANG, Chao. *Nanodetection of Head and Neck Cancer on Titanium Oxide Sensing Surface*. In *NANOSCALE RESEARCH LETTERS*. ISSN 1931-7573, 2020, vol. 15, no. 1, pp. Dostupné na: <https://doi.org/10.1186/s11671-020-3262-x>., Registrované v: WOS
38. [1.1] WIBOWO, Kusnanto Mukti - MUSLIHATI, Atqiya - SAHDAN, Mohd Zainizan - ROSNI, Nurliyana Mad - BASRI, Hatijah - FUDHOLI, Ahmad. *A novel, portable Escherichia coli bacteria sensor using graphene as sensing*

- material. In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2020, vol. 254, no., pp. Dostupné na: <https://doi.org/10.1016/j.matchemphys.2020.123459>., Registrované v: WOS*
39. [1.1] XIANG, Wenwen - LV, Qiuxiang - SHI, Haixia - XIE, Bing - GAO, Li. *Aptamer-based biosensor for detecting carcinoembryonic antigen. In TALANTA. ISSN 0039-9140, 2020, vol. 214, no., pp. Dostupné na: <https://doi.org/10.1016/j.talanta.2020.120716>., Registrované v: WOS*
40. [1.1] XU, Jian - LEE, Hyowon. *Anti-Biofouling Strategies for Long-Term Continuous Use of Implantable Biosensors. In CHEMOSENSORS, 2020, vol. 8, no. 3, pp. Dostupné na: <https://doi.org/10.3390/chemosensors8030066>., Registrované v: WOS*
41. [1.1] YUAN, Min - QIAN, Shi-Quan - CAO, Hui - XU, Fei - YE, Tai - YU, Jin-Song - GUO, Wen - WU, Jia-Ying - TI-KAN, A. *An Ultra-sensitive Electrochemical Aptasensor for Detection of Cd²⁺. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2020, vol. 48, no. 12, pp. 1701-1708. Dostupné na: <https://doi.org/10.19756/j.issn.0253-3820.201072>., Registrované v: WOS*
- ADMA06 HOLLÁ, Veronika - ANTOŠOVÁ, Monika - KARKESZOVÁ, Klaudia - MASTIHUBA, Vladimír - POLAKOVIČ, Milan**. Screening of commercial enzymes for transfructosylation of tyrosol: Effect of process conditions and reaction network. In *Biotechnology Journal*, 2019, vol. 14, no. 8, article number 1800871. (2018: 3.543 - IF, Q1 - JCR, 1.170 - SJR, Q1 - SJR). ISSN 1860-6768 (print), 1860-7314 (online). Dostupné na: <https://doi.org/10.1002/biot.201800571>
- Citácie:
1. [1.1] YOSHIKAWA, Jun - SHIOTA, Kazuma - HORIGUCHI, Hirofumi. *One-step Removal of Proteases in a Commercial Lactase Preparation from Kluyveromyces lactis Using an Anion-exchange Membrane. In FOOD SCIENCE AND TECHNOLOGY RESEARCH. ISSN 1344-6606, 2020, vol. 26, no. 1, pp. 65-68. Dostupné na: <https://doi.org/10.3136/fstr.26.65>., Registrované v: WOS*
- ADMA07 KONYARIKOVÁ, Zuzana - SAVKOVÁ, Karin - KOZMON, Stanislav - MIKUŠOVÁ, Katarína**. Biosynthesis of galactan in mycobacterium tuberculosis as a viable TB drug target? In *Antibiotics*, 2020, vol. 9, art. no. 20 [25] p. (2019: 3.893 - IF, Q1 - JCR, 1.173 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na: <https://doi.org/10.3390/antibiotics9010020>
- Citácie:
1. [1.1] MAALIKI, Carine - FU, Jian - VILLAUME, Sydney - VILJOEN, Albertus - RAYNAUD, Clement - HAMMOUD, Sokaina - THIBONNET, Jerome - KREMER, Laurent - VINCENT, Stephane P. - THIERY, Emilie. *Synthesis and evaluation of heterocycle structures as potential inhibitors of Mycobacterium tuberculosis UGM. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2020, vol. 28, no. 13, pp. Dostupné na: <https://doi.org/10.1016/j.bmc.2020.115579>., Registrované v: WOS*
2. [1.1] SHAKU, Moagi - EALAND, Christopher - KANA, Baves D. *Cell Surface Biosynthesis and Remodeling Pathways in Mycobacteria Reveal New Drug Targets. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, 2020, vol. 10, no., pp. Dostupné na: <https://doi.org/10.3389/fcimb.2020.603382>., Registrované v: WOS*
3. [1.1] VILCHEZE, Catherine. *Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs. In APPLIED SCIENCES-BASEL, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/app10072278>., Registrované v: WOS*
- ADMA08 KOSZAGOVÁ, Romana, Repiská - KRAJČOVIČ, Tomáš - PALENČÁROVÁ,

Klaudia - PÄTOPRSTÝ, Vladimír - VIKARTOVSKÁ, Alica - POSPÍŠKOVÁ, Kristyna - ŠAFAŘÍK, Ivo - NAHÁLKA, Jozef**. Magnetization of active inclusion bodies: comparison with centrifugation in repetitive biotransformations. In *Microbial Cell Factories*, 2018, vol. 17, p. 139-146. (2017: 3.831 - IF, Q1 - JCR, 1.443 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/s12934-018-0987-7>

Citácie:

1. [1.1] HAN, Hongmei - ZENG, Weizhu - ZHANG, Guoqiang - ZHOU, Jingwen. Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in *Escherichia coli*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2020, vol. 47, no. 8, pp. 563-571.

Dostupné na: <https://doi.org/10.1007/s10295-020-02294-4>, Registrované v: WOS

2. [1.1] JAEGER, Vera D. - LAMM, Robin - KUESTERS, Kira - OELCUECUE, Gizem - OLDIGES, Marco - JAEGER, Karl-Erich - BUECHS, Jochen - KRAUSS, Ulrich. Catalytically-active inclusion bodies for biotechnology-general concepts, optimization, and application. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2020, vol. 104, no. 17, pp. 7313-7329.

Dostupné na: <https://doi.org/10.1007/s00253-020-10760-3>, Registrované v: WOS

3. [1.1] MIKL, Markus - DENNIG, Alexander - NIDETZKY, Bernd. Efficient enzyme formulation promotes Leloir glycosyltransferases for glycoside synthesis. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2020, vol. 322, no., pp. 74-78. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2020.06.023>, Registrované v: WOS

ADMA09

KOŠŤÁLOVÁ, Zuzana - AGUEDO, Mario - HROMÁDKOVÁ, Zdenka.

Microwave-assisted extraction of pectin from unutilized pumpkin biomass. In *Chemical Engineering and Processing: Process Intensification*, 2016, vol. 102, p. 9-15. (2015: 2.154 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0255-2701. Dostupné na:

<https://doi.org/10.1016/j.cep.2015.12.009>

Citácie:

1. [1.1] BAI, Yeming - ZHANG, Mengshan - ATLURI, Sharat Chandra - CHEN, Jialin - GILBERT, Robert G. Relations between digestibility and structures of pumpkin starches and pectins. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2020, vol. 106, no., pp. Dostupné na:

<https://doi.org/10.1016/j.foodhyd.2020.105894>, Registrované v: WOS

2. [1.1] KHODAIYAN, Faramarz - PARASTOUEI, Karim. Co-optimization of pectin and polyphenols extraction from black mulberry pomace using an eco-friendly technique: Simultaneous recovery and characterization of products. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2020, vol. 164, no., pp. 1025-1036. Dostupné na:

<https://doi.org/10.1016/j.ijbiomac.2020.07.107>, Registrované v: WOS

3. [1.1] WONGKAEW, Malaiporn - SOMMANO, Sarana Rose - TANGPAO, Tibet - RACHTANAPUN, Pornchai - JANTANASAKULWONG, Kittisak. Mango Peel Pectin by Microwave-Assisted Extraction and Its Use as Fat Replacement in Dried Chinese Sausage. In *FOODS*, 2020, vol. 9, no. 4, pp. Dostupné na:

<https://doi.org/10.3390/foods9040450>, Registrované v: WOS

4. [1.1] WU, Dongmei - ZHENG, Jiaqi - MAO, Guizhu - HU, Weiwei - YE, Xingqian - LINHARDT, Robert J. - CHEN, Shiguo. Rethinking the impact of RG-I mainly from fruits and vegetables on dietary health. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2020, vol. 60, no. 17, pp. 2938-2960. Dostupné na: <https://doi.org/10.1080/10408398.2019.1672037>, Registrované v: WOS

- ADMA10 KVĚTONĚ, Filip - BLŠÁKOVÁ, Anna - LORENCOVÁ, Lenka - JERIGOVÁ, Monika - VELIČ, Dušan - BLIXT, Ola - JANSSON, Bo - KASÁK, Peter** - TKÁČ, Ján**. A graphene-based glycan biosensor for electrochemical label-free detection of a tumor-associated antibody. In *Sensors*, 2019, vol. 19, iss. 24, art. no. 5409. (2018: 3.031 - IF, Q1 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1424-8220. Dostupné na: <https://doi.org/10.3390/s19245409>
Citácie:
1. [1.1] *HERNAEZ, Miguel. Applications of Graphene-Based Materials in Sensors. In SENSORS, 2020, vol. 20, no. 11, pp. Dostupné na: https://doi.org/10.3390/s20113196., Registrované v: WOS*
2. [1.1] *WANG, Zizheng - LI, Jing - TU, Wenwen - WANG, Huaisheng - WANG, Zhaoyin - DAI, Zhihui. Formation of a Photoelectrochemical Z-Scheme Structure with Inorganic/Organic Hybrid Materials for Evaluation of Receptor Protein Expression on the Membrane of Cancer Cells. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 24, pp. 26905-26913. Dostupné na: https://doi.org/10.1021/acsami.0c04949., Registrované v: WOS*
- ADMA11 NOSÁLOVÁ, Gabriela - JUREČEK, Ľudovít - HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - SADLOŇOVÁ, Vladimíra. Antioxidant activity of herbal polysaccharides and cough reflex. In *Advances in experimental medicine and biology*, 2013, vol. 788, p. 51-57. (2012: 1.825 - IF, Q2 - JCR, 0.792 - SJR, Q2 - SJR). ISSN 0065-2598. Dostupné na: <https://doi.org/10.1007/978-94-007-6627-3-8>
Citácie:
1. [1.1] *ZHANG, Tao - LIU, Hongping - BAI, Xinyu - LIU, Ping - YANG, Yan - HUANG, Jian - ZHOU, Limei - MIN, Xun. Fractionation and antioxidant activities of the water-soluble polysaccharides from Lonicera japonica Thunb. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 151, no., pp. 1058-1066. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2019.10.147., Registrované v: WOS*
- ADMA12 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolaj E. - BYSTRICKÝ, Slavomír. Immune cell response to Candida cell wall mannan derived branched α -oligomannoside conjugates in mice. In *Journal of Microbiology, Immunology and infection*, 2015, vol. 48, p. 9-19. Dostupné na: <https://doi.org/10.1016/j.jmii.2013.08.020>
Citácie:
1. [1.1] *GARCIA-RUBIO, Rocio - DE OLIVEIRA, Haroldo C. - RIVERA, Johanna - TREVIJANO-CONTADOR, Nuria. The Fungal Cell Wall: Candida, Cryptococcus, and Aspergillus Species. In FRONTIERS IN MICROBIOLOGY, 2020, vol. 10, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2019.02993., Registrované v: WOS*
- ADMA13 PEREZ, Serge - TVAROŠKA, Igor. Carbohydrate-protein interactions: molecular modeling insights. In *Advances in Carbohydrate Chemistry and Biochemistry*, 2014, vol. 71, p. 9-136. (2013: 3.917 - IF, Q1 - JCR, 1.875 - SJR). ISSN 0065-2318. Dostupné na: <https://doi.org/10.1016/B978-0-12-800128-8.00001-7>
Citácie:
1. [1.1] *LINDEMANN, Stephen R. A piece of the pie: engineering microbiomes by exploiting division of labor in complex polysaccharide consumption. In CURRENT OPINION IN CHEMICAL ENGINEERING. ISSN 2211-3398, 2020, vol. 30, no., pp. 96-102. Dostupné na: https://doi.org/10.1016/j.coche.2020.08.004., Registrované v: WOS*
2. [1.1] *SCHERBININA, Sofya I. - TOUKACH, Philip V. Three-Dimensional Structures of Carbohydrates and Where to Find Them. In INTERNATIONAL*

- JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 20, pp. Dostupné na: <https://doi.org/10.3390/ijms21207702>., Registrované v: WOS
3. [1.1] VILARO, Pilar - SAMPL, Carina - TEICHERT, Gundula - SCHLEMMER, Werner - HOBISCH, Mathias - WEISSL, Michael - PANIZZOLO, Luis - FERREIRA, Fernando - SPIRK, Stefan. Interactions and Dissociation Constants of Galactomannan Rendered Cellulose Films with Concavalin A by SPR Spectroscopy. In *POLYMERS*, 2020, vol. 12, no. 12, pp. Dostupné na: <https://doi.org/10.3390/polym12123040>., Registrované v: WOS
- ADMA14 PETRIK, Siniša - MÁROVÁ, Ivana - HARONÍKOVÁ, Andrea - KOSTOVOVÁ, Iveta - BREIEROVÁ, Emília. Production of biomass, carotenoid and other lipid metabolites by several red yeast strains cultivated on waste glycerol from biofuel production - comparative screening study. In *Annals of Microbiology*, 2013, vol. 63, p. 1537-1551. (2012: 1.549 - IF, Q3 - JCR, 0.436 - SJR). ISSN 1590-4261. Dostupné na: <https://doi.org/10.1007/s13213-013-0617-x>
- Citácie:
1. [1.1] KOT, Anna M. - BLAZEJAK, Stanislaw - KIELISZEK, Marek - GIENKA, Iwona - PIWOWAREK, Kamil - BRZEZINSKA, Rita. Production of lipids and carotenoids by *Rhodotorula gracilis* ATCC 10788 yeast in a bioreactor using low-cost wastes. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*, 2020, vol. 26, no., pp. Dostupné na: <https://doi.org/10.1016/j.bcab.2020.101634>., Registrované v: WOS
2. [1.1] PASSARINHO, Paula C. - OLIVEIRA, Bruno - DIAS, Carla - TELES, Marta - REIS, Alberto - DA SILVA, Teresa Lopes. Sequential Carotenoids Extraction and Biodiesel Production from *Rhodospiridium toruloides* NCYC 921 Biomass. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2020, vol. 11, no. 5, pp. 2075-2086. Dostupné na: <https://doi.org/10.1007/s12649-018-0489-1>., Registrované v: WOS
- ADMA15 ŠUNDERIĆ, Miloš** - KRIŽÁKOVÁ, Martina, Zámorová - MALENKOVIĆ, Vesna - ČUJIĆ, Danica - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes due to ageing in the glycan structure of alpha-2-macroglobulin and its reactivity with ligands. In *Protein Journal*, 2019, vol. 38, p. 23-29. (2018: 1.029 - IF, Q4 - JCR, 0.363 - SJR, Q3 - SJR). ISSN 1572-3887. Dostupné na: <https://doi.org/10.1007/s10930-018-9806-6>
- Citácie:
1. [1.1] BENEDETTI, Elisa - GERSTNER, Nathalie - PUCIC-BAKOVIC, Maja - KESER, Toma - REIDING, Karli R. - RUHAAK, L. Renee - STAMBUK, Tamara - SELMAN, Maurice H. J. - RUDAN, Igor - POLASEK, Ozren - HAYWARD, Caroline - BEEKMAN, Marian - SLAGBOOM, Eline - WUHRER, Manfred - DUNLOP, Malcolm G. - LAUC, Gordan - KRUMSIEK, Jan. Systematic Evaluation of Normalization Methods for Glycomics Data Based on Performance of Network Inference. In *METABOLITES*, 2020, vol. 10, no. 7, pp. Dostupné na: <https://doi.org/10.3390/metabo10070271>., Registrované v: WOS
2. [1.1] LIU, Chang - LI, Zhi - XU, Lu - SHI, Yu - ZHANG, Xiaojie - SHI, Sha - HOU, Kezuo - FAN, Yibo - LI, Ce - WANG, Xiaoxun - ZHOU, Lu - LIU, Yunpeng - QU, Xiujuan - CHE, Xiaofang. GALNT6 promotes breast cancer metastasis by increasing mucin-type O-glycosylation of alpha 2M. In *AGING-US*. ISSN 1945-4589, 2020, vol. 12, no. 12, pp. 11794-11811., Registrované v: WOS
- ADMA16 TALAFOVÁ, Klaudia - HRABÁROVÁ, Eva - CHORVÁT, Dušan - NAHÁLKA, Jozef. Bacterial inclusion bodies as potential synthetic devices for pathogen recognition and a therapeutic substance release. In *Microbial Cell Factories*, 2013, vol. 12, article No. 16, 9 pages. (2012: 3.306 - IF, Q1 - JCR, 1.430 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: <https://doi.org/10.1186/1475-2859-12-16>

Citácie:

1. [1.1] CESPEDDES, Maria Virtudes - CANO-GARRIDO, Olivia - ALAMO, Patricia - SALA, Rita - GALLARDO, Alberto - SERNA, Naroa - FALGAS, Aida - VOLTA-DURAN, Eric - CASANOVA, Isolda - SANCHEZ-CHARDI, Alejandro - LOPEZ-LAGUNA, Hector - SANCHEZ-GARCIA, Laura - SANCHEZ, Julieta M. - UNZUETA, Ugutz - VAZQUEZ, Esther - MANGUES, Ramon - VILLAVARDE, Antonio. Engineering Secretory Amyloids for Remote and Highly Selective Destruction of Metastatic Foci. In *ADVANCED MATERIALS*. ISSN 0935-9648, 2020, vol. 32, no. 7, pp. Dostupné na: <https://doi.org/10.1002/adma.201907348>., Registrované v: WOS
2. [1.1] SANGAVAI, C. - PRATHIVIRAJ, R. - CHELLAPANDI, P. Functional prediction, characterization, and categorization of operome from *Acetoanaerobium sticklandii* DSM 519. In *ANAEROBE*. ISSN 1075-9964, 2020, vol. 61, no., pp. Dostupné na: <https://doi.org/10.1016/j.anaerobe.2019.102088>., Registrované v: WOS
3. [1.1] SCHWAIGHOFER, Andreas - ABLASSER, Sarah - LUX, Laurin - KOPP, Julian - HERWIG, Christoph - SPADIUT, Oliver - LENDL, Bernhard - SLOUKA, Christoph. Production of Active Recombinant Hyaluronidase Inclusion Bodies from *Apis mellifera* in *E. coli* B121(DE3) and characterization by FT-IR Spectroscopy. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2020, vol. 21, no. 11, pp. Dostupné na: <https://doi.org/10.3390/ijms21113881>., Registrované v: WOS

ADMA17

TKÁČ, Ján** - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Glycomics of prostate cancer: updates. In *Expert Review of Proteomic*, 2019, vol. 16, p. 65-76. (2018: 2.963 - IF, Q2 - JCR, 0.946 - SJR, Q2 - SJR). ISSN 1478-9450. Dostupné na: <https://doi.org/10.1080/14789450.2019.1549993>

Citácie:

1. [1.1] PANG, Bairen - ZHU, Ying - NI, Jie - THOMPSON, James - MALOUF, David - BUCCI, Joseph - GRAHAM, Peter - LI, Yong. Extracellular vesicles: the next generation of biomarkers for liquid biopsy-based prostate cancer diagnosis. In *THERANOSTICS*. ISSN 1838-7640, 2020, vol. 10, no. 5, pp. 2309-2326. Dostupné na: <https://doi.org/10.7150/thno.39486>., Registrované v: WOS

ADMA18

TKÁČ, Ján** - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In *Interface Focus*, 2019, vol. 9, art. no. 20180077. (2018: 3.092 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR). ISSN 2042-8898. Dostupné na: <https://doi.org/10.1098/rsfs.2018.0077>

Citácie:

1. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DIAZ, Natalia - SUAREZ, Dimas - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, M. Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling. In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2020, vol. 11, no. 35, pp. 9402-9413. Dostupné na: <https://doi.org/10.1039/d0sc00209g>., Registrované v: WOS
2. [1.1] FERNANDES, Elisabete - SORES, Janine - COTTON, Sofia - PEIXOTO, Andreia - FERREIRA, Dylan - FREITAS, Rui - REIS, Celso A. - SANTOS, Lucio Lara - FERREIRA, Jose Alexandre. Esophageal, gastric and colorectal cancers: Looking beyond classical serological biomarkers towards glycoproteomics-assisted precision oncology. In *THERANOSTICS*. ISSN 1838-7640, 2020, vol. 10, no. 11, pp. 4903-4928. Dostupné na: <https://doi.org/10.7150/thno.42480>.,

Registrované v: WOS

3. [1.1] GAROUB, Mohannad - HEFNY, A. H. - OMER, W. E. - ELSAADY, Mostafa M. - ABO-ALY, Mohamed M. - SAYQAL, Ali A. - ALHARBI, Ahmed - HAMEED, Ahmed - ALESSA, Hussain - YOUSSEF, A. O. - MOHAMED, Ekram H. - GOUDA, Ayman A. - EL SHEIKH, R. - ABOU-OMAR, M. N. - EL-KEMARY, Maged A. - ATTIA, M. S. *Highly Selective Optical Sensor Eu (TTA)(3) Phen Embedded in Poly Methylmethacrylate for Assessment of Total Prostate Specific Antigen Tumor Marker in Male Serum Suffering Prostate Diseases. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, 2020, vol. 8, no., pp. Dostupné na: <https://doi.org/10.3389/fchem.2020.561052>, Registrované v: WOS*

4. [1.1] ORTIZ-RIANO, Edwin J. - AVILA-HUERTA, Mariana D. - MANCERA-ZAPATA, Diana L. - MORALES-NARVAEZ, Eden. *Microwell plates coated with graphene oxide enable advantageous real-time immunosensing platform. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2020, vol. 165, no., pp. Dostupné na: <https://doi.org/10.1016/j.bios.2020.112319>, Registrované v: WOS*

ADMA19

TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. *Stepwise catalytic mechanism via short-lived intermediate inferred from combined QM/MM MERP and PES calculations on retaining glycosyltransferase ppGalNAcT2. In PLoS computational biology, 2015, vol. 11, p. e1004061. (2014: 4.620 - IF, Q1 - JCR, 3.412 - SJR, Q1 - SJR). ISSN 1553-734X. Dostupné na: <https://doi.org/10.1371/journal.pcbi.1004061>*

Citácie:

1. [1.1] KONA, J. *How inverting beta-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP(3-)in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5 ' ; thio galactose substrates. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2020, vol. 18, no. 38, pp. 7585-7596. Dostupné na: <https://doi.org/10.1039/d0ob01490g>, Registrované v: WOS*

2. [1.1] YAN, Lijuan - LIU, Yongjun. *The Retaining Mechanism of Xylose Transfer Catalyzed by Xyloside alpha-1,3-Xylosyltransferase (XXYLTI): a Quantum Mechanics/Molecular Mechanics Study. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2020, vol. 60, no. 3, pp. 1585-1594. Dostupné na: <https://doi.org/10.1021/acs.jcim.9b00976>, Registrované v: WOS*

ADMA20

VAN GOOL, Alain - CORRALES, Fernando - ČOLOVIĆ, Mirjana - KRISTIĆ, Danijela - OLIVER-MARTOS, Begona - MARTÍNEZ-CÁCERES, Eva - JAKASA, Ivone - GAJSKI, Goran - BRUN, Virginie - KYRIACOU, Kyriacos - BURZYNSKA-PEDZIWIATR, Izabela - WOZNIAK, Lucyna Alicja - NIERKENS, Stephan - GARCÍA, César Pascual - KATRLÍK, Jaroslav - BOJIC-TRBOJEVIC, Zanka - VACEK, Jan - LLORENTE, Alicia - ANTHONÉ, Felicia - SUICA, Viorel - SUAREZ, Guillaume - T'KINDT, Ruben - MARTIN, Petra - PENQUE, Deborah - MARTINS, Ines Lanca - BODOKI, Ede - JACOB, Bogdan-Cezar - AYDINDOGAN, Eda - TIMUR, Suna - ALLINSON, John - SUTTON, Christopher - LUIDER, Theo - WITTFORTH, Saara - SAMMAR, Marei**. *Analytical techniques for multiplex analysis of protein biomarkers. In Expert Review of Proteomic, 2020, vol. 17, p. 257-273. (2019: 3.614 - IF, Q1 - JCR, 0.979 - SJR, Q2 - SJR). ISSN 1478-9450. Dostupné na: <https://doi.org/10.1080/14789450.2020.1763174>*

Citácie:

1. [1.1] BOELEN, Jaap Jan - HOSSZU, Kinga K. - NIERKENS, Stefan. *Immune Monitoring After Allogeneic Hematopoietic Cell Transplantation: Toward Practical Guidelines and Standardization. In FRONTIERS IN PEDIATRICS. ISSN*

2296-2360, 2020, vol. 8, no., pp. Dostupné na:
<https://doi.org/10.3389/fped.2020.00454>., Registrované v: WOS
2. [1.1] BRINGANS, Scott - PETERS, Kirsten - CASEY, Tammy - ITO, Jason - LIPSCOMBE, Richard. The New and the Old: Platform Cross-Validation of Immunoaffinity MASS Spectrometry versus ELISA for PromarkerD, a Predictive Test for Diabetic Kidney Disease. In PROTEOMES, 2020, vol. 8, no. 4, pp. Dostupné na: <https://doi.org/10.3390/proteomes8040031>., Registrované v: WOS

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - TKÁČ, Ján**. Glycan-modified interfaces in biosensing: an electrochemical approach. In Current Opinion in Electrochemistry, 2019, vol. 14, p. 60-65. (2018: 1.354 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2451-9103. Dostupné na: <https://doi.org/10.1016/j.coelec.2018.12.011>
Citácie:
1. [1.1] QUINCHIA, Jennifer - ECHEVERRI, Danilo - FELIPE CRUZ-PACHECO, Andres - ELENA MALDONADO, Maria - OROZCO, Jahir. Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. In MICROMACHINES, 2020, vol. 11, no. 4, pp. Dostupné na: <https://doi.org/10.3390/mi11040411>., Registrované v: WOS
2. [1.1] WANG, Zizheng - LI, Jing - TU, Wenwen - WANG, Huaisheng - WANG, Zhaoyin - DAI, Zhihui. Formation of a Photoelectrochemical Z-Scheme Structure with Inorganic/Organic Hybrid Materials for Evaluation of Receptor Protein Expression on the Membrane of Cancer Cells. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2020, vol. 12, no. 24, pp. 26905-26913. Dostupné na: <https://doi.org/10.1021/acsami.0c04949>., Registrované v: WOS
3. [1.1] ZHAO, Yinghao - BU, Shengjun - WANG, Chengyu - MA, Chengyou - LI, Zhongyi - ZHANG, Wenhui - WAN, Jiayu. Dual Aptamer-Copper (II) Phosphate Nanocomposite-Based Point-of-Care Biosensor for the Determination of Escherichia coli O157:H7 through Pressure Monitoring with a Hand-Held Barometer. In ANALYTICAL LETTERS. ISSN 0003-2719, 2020, vol. 54, no. 10, pp. 1603-1615. Dostupné na: <https://doi.org/10.1080/00032719.2020.1817059>., Registrované v: WOS
- ADMB02 DAMBORSKÝ, Pavel - DAMBORSKÁ, Dominika - BELICKÝ, Štefan - TKÁČ, Ján - KATRLÍK, Jaroslav**. Sweet strategies in prostate cancer biomarker research: Focus on a prostate specific antigen. In BioNanoScience, 2018, vol. 8, p. 690-700. (2017: 0.308 - SJR, Q3 - SJR). ISSN 2191-1630. Dostupné na: <https://doi.org/10.1007/s12668-017-0397-z>
Citácie:
1. [1.1] VACEK, Jan - HRBAC, Jan. Sensors and microarrays in protein biomarker monitoring: an electrochemical perspective spots. In BIOANALYSIS. ISSN 1757-6180, 2020, vol. 12, no. 18, pp. 1337-1345. Dostupné na: <https://doi.org/10.4155/bio-2020-0166>., Registrované v: WOS
- ADMB03 KLEINOVÁ, Angela - HURAN, Jozef - SASINKOVÁ, Vlasta - PERNÝ, M. - ŠÁLY, V. - PACKA, J. FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application. In Proceedings of the SPIE, 2015, vol. 9563, 95630U. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X. Dostupné na: <https://doi.org/10.1117/12.2186748>
Citácie:
1. [1.1] FIGUEROA, N.S. - NACHEZ, J.L. - FREIRE, F.L. - DA COSTA,

- M.E.H.M. Synthesis and characterization of hexamethyldisilane films deposited on stainless steel by plasma-enhanced chemical vapour deposition. In SURFACE & COATINGS TECHNOLOGY. ISSN 0257-8972, DEC 25 2020, vol. 404., Registrované v: WOS*
2. [1.1] JEON, I.K. - QUDOOS, A. - JAKHRANI, S.H. - KIM, H.G. - RYOU, J.S. Investigation of sulfuric acid attack upon cement mortars containing silicon carbide powder. In POWDER TECHNOLOGY. ISSN 0032-5910, JAN 1 2020, vol. 359, p. 181-189., Registrované v: WOS
3. [1.1] JURKEVICIUTE, A. - KLIMAITE, G. - TAMULEVICIUS, T. - FIUTOWSKI, J. - RUBAHN, H.G. - TAMULEVICIUS, S. Tailoring of Silver Nanoparticle Size Distributions in Hydrogenated Amorphous Diamond-Like Carbon Nanocomposite Thin Films by Direct Femtosecond Laser Interference Patterning. In ADVANCED ENGINEERING MATERIALS. ISSN 1438-1656, MAR 2020, vol. 22, no. 3., Registrované v: WOS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADNB01 MUDRONČEKOVÁ, Silvia - MAZÁŇ, Marián - NEMČOVIČ, Marek - ŠALAMON, Ivan. Entomopathogenic fungus species beauveria bassiana (BALS.) and metarhizium anisopliae (METSCH.) used as mycoinsecticide effective in biological control of IPS typographus (L.). In Journal of Microbiology, Biotechnology and Food Sciences, 2013, vol. 2, p. 2469-2472. ISSN 1338-5178.
Citácie:
1. [1.1] BARTA, Marek - TAKOV, Danail - PILARSKA, Daniela - DOYCHEV, Danail - HORAKOVA, Miriam Kadasi. Entomopathogenic fungi of the genus Beauveria and their pathogenicity to Ips typographus (Coleoptera: Curculionidae) in the Vitosha National Park, Bulgaria. In JOURNAL OF FOREST SCIENCE. ISSN 1212-4834, 2020, vol. 66, no. 10, pp. 420-435. Dostupné na: <https://doi.org/10.17221/123/2020-JFS>., Registrované v: WOS
2. [1.1] DANNON, H. Fabrice - DANNON, A. Elie - DOURO-KPINDOU, O. Kobi - ZINSOU, A. Valerien - HOUNDETE, A. Thomas - TOFFA-MEHINTO, Joelle - ELEGBEDE, I. A. T. Maurille - OLOU, B. Denis - TAMO, Manuele. Toward the efficient use of Beauveria bassiana in integrated cotton insect pest management. In JOURNAL OF COTTON RESEARCH. ISSN 2096-5044, 2020, vol. 3, no., pp. Dostupné na: <https://doi.org/10.1186/s42397-020-00061-5>., Registrované v: WOS
3. [1.1] DZIEGIELEWSKA, Magdalena - ADAMSKA, Iwona. Survey of entomopathogenic nematodes and fungi in agricultural areas. In PLANT PROTECTION SCIENCE. ISSN 1212-2580, 2020, vol. 56, no. 3, pp. 214-225. Dostupné na: <https://doi.org/10.17221/7/2019-PPS>., Registrované v: WOS
4. [1.1] PAVLOV, I. N. - LITOVKA, Y. A. - GOLUBEV, D. V. - ASTAPENKO, S. A. - CHROMOGIN, P. V. - USOLTSEVA, Y. V. - MAKOLOVA, P. V. - PETRENKO, S. M. Mass Reproduction of Polygraphus proximus Blandford in Fir Forests of Siberia Infected with Root and Stem Pathogens: Monitoring, Patterns, and Biological Control. In CONTEMPORARY PROBLEMS OF ECOLOGY. ISSN 1995-4255, 2020, vol. 13, no. 1, pp. 71-84. Dostupné na: <https://doi.org/10.1134/S1995425520010060>., Registrované v: WOS
- ADNB02 RAČKOVÁ, Lucia - CUPÁKOVÁ, Mária - ŤAŽKÝ, Anton - MIČOVÁ, Júlia - KOLEK, Emil - KOŠŤÁLOVÁ, Daniela. Redox properties of ginger extracts: Perspectives of use of Zingiber officinale Rosc. as antidiabetic agent. In Interdisciplinary toxicology, 2013, vol. 6, no. 1, p.26-33. (2012: 0.258 - SJR). ISSN

1337-6853. Dostupné na: <https://doi.org/10.2478/intox-2013-0005> (ITMS 26240220040 : Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení)

Citácie:

1. [1.1] MOUNIER, M.M. - SHEHATA, S.H. - SOLIMAN, T.N. *Anticancer activity of nanoencapsulated ginger in whey proteins against human tumor cell lines. In EGYPTIAN PHARMACEUTICAL JOURNAL. ISSN 1687-4315, 2020, vol. 19, no. 2, p. 87-96., Registrované v: WOS*
2. [1.2] GHOSH, Tabli - MONIKA - KATIYAR, Vimal. *Emerging sustainable nanostructured materials facilitated by herbal bioactive agents for edible food packaging. In Food Engineering Series. ISSN 15710297, 2020-01-01, pp. 259-285., Registrované v: SCOPUS*

ADNB03

ŠOLTĚS, Ladislav - KOGAN, Grigorij. Catabolism of hyaluronan: involvement of transition metals. In *Interdisciplinary toxicology*, 2009, vol. 2, no. 4, p. 229-238. ISSN 1337-6853. Dostupné na: <https://doi.org/10.2478/v10102-009-0026-y>

Citácie:

1. [1.1] IMPELLIZZERI, D. - SIRACUSA, R. - CORDARO, M. - PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. *Protective effect of a new hyaluronic acid -carnosine conjugate on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2020, vol. 125, art. no. 110023., Registrované v: WOS*
2. [1.1] OLCZYK, Pawel - KOMOSINSKA-VASSEV, Katarzyna - KRZYMINIEWSKI, Ryszard - KASPERCZYK, Janusz - RAMOS, Pawel - DOBOSZ, Bernadeta - BATORYNA, Olgierd - STOJKO, Jerzy - STOJKO, Mateusz - IVANOVA, Diana - OLCZYK, Krystyna - PILAWA, Barbara. *The Estimation of Blood Paramagnetic Center Changes during Burns Management with Biodegradable Propolis-Nanofiber Dressing. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, JUN 29 2020, vol. 2020., Registrované v: WOS*
3. [1.1] SIRACUSA, R. - IMPELLIZZERI, D. - CORDARO, M. - PERITORE, A.F. - GUGLIANDOLO, E. - D'AMICO, R. - FUSCO, R. - CRUPI, R. - RIZZARELLI, E. - CUZZOCREA, S. - VACCARO, S. - PULICETTA, M. - GRECO, V. - SCIUTO, S. - SCHIAVINATO, A. - MESSINA, L. - DI PAOLA, R. *The Protective Effect of New Carnosine-Hyaluronic Acid Conjugate on the Inflammation and Cartilage Degradation in the Experimental Model of Osteoarthritis. In APPLIED SCIENCES-BASEL. eISSN: 2076-3417, 2020, vol. 10, no. 4, art. no. 1324., Registrované v: WOS*

ADNB04

VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTĚS, Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation by oxidative system ascorbate plus cupric chloride. In *Interdisciplinary toxicology*, 2010, vol. 3, no. 1, p. 26-34. (2009: 0.456 - SJR, Q3 - SJR). ISSN 1337-6853. Dostupné na: <https://doi.org/10.2478/v10102-010-0001-7>

Citácie:

1. [1.1] PRAKOSO, T. - WIDODO, A. - INDARTO, A. - MARIYANA, R. - ARIF, A.F. - ADHI, T.P. - SRAWIDJAJA, T.H. *Manganese gluconate, A greener and more degradation resistant agent for H₂S oxidation using liquid redox sulfur recovery process. In HELIYON. ISSN 2405-8440, 2020, vol. 6, no. 2, art. no. e03358., Registrované v: WOS*

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

- AEC01 MANZANO, Veronica E. - REPETTO, Evangelina - UHRIG, Maria Laura - BARÁTH, Marek - VARELA, Oscar. Synthesis of 2,3,4,6-tetra-O-acetyl-1,5-anhydro-D-lyxo-hex-1-enitol and its conversion into a hex-3-enopyranosid-2-ulose analogue of levoglucosenone. In KOVÁČ, Pavol. Carbohydrate Chemistry: Proven Synthetic Methods. - Boca Raton : CRC Press, 2011, p. Vol. 1, Chapter 35, p. 295-301. ISBN 978-1439866894.

Citácie:

1. [1.1] SONOUSHI, Amr - VASELLA, Andrea - CRICH, David. Synthesis of a Pseudodisaccharide Suitable for Synthesis of Ring I Modified 4,5-2-Deoxystreptamine Type Aminoglycoside Antibiotics. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2020, vol. 85, no. 11, pp. 7583-7587. Dostupné na: <https://doi.org/10.1021/acs.joc.0c00743>, Registrované v: WOS

AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

- AECA01 KUSHWAHA, Divya - BARÁTH, Marek - KOVÁČ, Pavol. Preparation and characterization of 6-Azidoheptyl 2,3,4,6-tetra-O-acetyl-β-D-glucopyranoside. In Carbohydrate Chemistry: Proven Synthetic Method. Vol. 4. - Boca Raton, USA : CRC Press, 2018, p. 183-188. ISBN 978-1-4987-2691-7.

Citácie:

1. [1.1] STEPANOVA, Elena V. - ZININ, Alexander I. - ABRONINA, Polina I. - CHIZHOV, Alexander O. - KONONO, Leonid O. Azidation of Partially Protected Carbohydrate Derivatives: Efficient Suppression of Acyl Migration. In SYNLETT. ISSN 0936-5214, 2020, vol. 31, no. 15, pp. 1491-1496. Dostupné na: <https://doi.org/10.1055/s-0040-1707137>, Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 BELICKÁ, Ľudmila, Kluková - FILIP, Jaroslav - TKÁČ, Ján. Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnosis. In Proceedings of the 9th International Conference on Sensing Technology (ICST 2015), December 8-10, 2015, Auckland, New Zealand. Washington, DC: IEEE Computer Society, 2016. - Auckland, New Zealand : Washington, DC: IEEE Computer Society, 2016, 2016, vol. 2016-March, article no. 7438361, p. 40-45. ISBN 978-147996314-0. ISSN 21568065.

Citácie:

1. [1.1] LIU, Ruitao - YE, Xiongying - CUI, Tianhong. Recent Progress of Biomarker Detection Sensors. In RESEARCH, 2020, vol. 2020, no., pp. Dostupné na: <https://doi.org/10.34133/2020/7949037>, Registrované v: WOS

- AFC02 PAWLACZYK, Izabela - DROZDZYNSKA, Anna - CAPEK, Peter - LEWIK-TSIRIGOTIS, Marta - ZIEWIECZKI, Rafal - GANCARZ, Roman. Anticoagulant activity of the polysaccharide-polyphenolic conjugate from *S. officinalis*(L.). In Proceedings of the 8th International Conference on Polysaccharides-Glycoscience 2012 : 28-30 november 2012. - Praha : Czech Chemical Society, 2012, p. 23-27. ISBN 978-80-86238-28-9.

Citácie:

1. [1.1] TRUC CONG HO - KIDDANE, Anley Teferra - SIVAGNANAM, Saravana Periaswamy - PARK, Jin-Seok - CHO, Yeon-Jin - GETACHEW, Adane Tilahun - THANH-TUYEN THI NGUYEN - KIM, Gun-Do - CHUN, Byung-Soo.

Green extraction of polyphenolic-polysaccharide conjugates from Pseuderanthemum palatiferum (Nees) Radlk.: Chemical profile and anticoagulant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 157, no., pp. 484-493. Dostupné na: <https://doi.org/10.1016/j.ijbiomac.2020.04.113>., Registrované v: WOS

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 TKÁČ, Ján - BERTÓK, Tomáš - BELICKÁ, Ľudmila, Kľuková - HUSHEGYI, András - DAMBORSKÁ, Dominika - BELICKÝ, Štefan. Biosensors for ultrasensitive analysis in glycomics and diagnostics. In European Biotechnology Congress 2015, Bucharest, Romania, May 7-9, 2015. In Journal of Biotechnology. - Bukurest, 2015, 2015, vol. 208S, p. S. ISSN 0168-1656. Dostupné na: <https://doi.org/10.1016/j.jbiotec.2015.06.008>

Citácie:

1. [1.1] DUNAJOVA, Aneta Anna - GAL, Miroslav - TOMCIKOVA, Kornelia - SOKOLOVA, Romana - KOLIVOSKA, Viliam - VANECKOVA, Eva - KIELAR, Filip - KOSTOLANSKY, Frantisek - VARECKOVA, Eva - NAUMOWICZ, Monika. Ultrasensitive impedimetric immunosensor for influenza A detection. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2020, vol. 858, no., pp. Dostupné na: <https://doi.org/10.1016/j.jelechem.2019.113813>., Registrované v: WOS

AFL Postery z domácich konferencií

AFL01 DOVINOVÁ, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene - BARANČÍK, Miroslav - KVANDOVÁ, Miroslava - MAJZUNOVÁ, Miroslava - BERÉNYIOVÁ, Andrea - ČAČÁNYIOVÁ, Soňa. ADMA, homocysteine and redox status improvement affected by 7-nitroindazole in spontaneously hypertensive rats. In Nitric Oxide: From Basic Regulations to Lifestyle-Related Diseases 2018 : proceedings of the 10th International Symposium, Smolenice Castle, Slovakia, 3-5 September 2018. - Bratislava : Centre of Experimental Medicine SAS, p. 31-32. ISBN 978-80-89991-01-3. (APVV-15-0565 : Nové regulačné účinky oxidu dusnatého a ich úloha v rozvoji esenciálnej hypertenzie. VEGA č. 2/0148/17 : Sledovanie kritických endogénnych biomarkerov a signálnych dráh v hypertenzii a pri kardiovaskulárnych ochoreniach. VEGA č. 2/0058/17 : Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov. International Symposium Nitric Oxide: From Basic Regulations To Lifestyle-Related Diseases 2018)

Citácie:

1. [1.1] HU, Weiqing - WANG, Wenyue - MA, Qing - LIU, Tao - ZHANG, Jiefeng - ZHANG, Jicun. Blueberry anthocyanin-enriched extract ameliorates transverse aortic constriction-induced myocardial dysfunction via the DDAH1/ADMA/NO signaling pathway in mice. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, 2020, vol. 21, no. 1, pp. 454-462. Dostupné na: <https://doi.org/10.3892/mmr.2019.10800>., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Miloš Hricovíni, PhD.

Názov semestr. predmetu: Rezonančná spektroskopia

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej chémie

Ing. Miloš Hricovíni, PhD.

Názov semestr. predmetu: Rezonančná spektroskopia

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej chémie

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín, časť – Biologicky aktívne oligosacharidy získané z bunkových stien rastlín a húb (2. ročník Mgr. Štúdia, študijný odbor Biológia)

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

doc. Ing. Ladislav Petruš, DrSc.

Názov semestr. predmetu: Chémia prírodných látok (2. roč. Mgr. štúdia)

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Zuzana Vivodová, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín, časť – Rastlinná bunková stena a jej biosyntéza (2. ročník Mgr. Štúdia, študijný odbor Biológia)

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Semestrálne cvičenia:

MSc. Marko Bajus

Názov semestr. predmetu: Biológia bunky

Počet hodín za semester: 36

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Ing. Anna Blšáková

Názov semestr. predmetu: Laboratórne cvičenie z klinickej biochémie

Počet hodín za semester: 25

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav biochémie a mikrobiológie

Ing. Matej Cvečko

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (2. roč. Bc. štúdia)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie

organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

MSc. Peter Gabko

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie I (2. roč. Bc. štúdia)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Mgr. Diana Hačkuličová

Názov semestr. predmetu: Biológia bunky

Počet hodín za semester: 24

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Ing. Peter Haluz

Názov semestr. predmetu: Laboratórne cvičenia z biochémie (1. roč. Ing. štúdia)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Peter Haluz

Názov semestr. predmetu: Laboratórne cvičenia zo základov biochémie (2. roč. Bc. štúdia)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Martin Kalník

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II (2. roč. Bc. štúdia, študijný)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Martin Kalník

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II (2. roč. Bc. štúdia, študijný)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 120

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Eva Labancová, PhD.

Názov semestr. predmetu: Biológia bunky

Počet hodín za semester: 12

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Semináre:

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Špeciálny seminár k diplomovej práci 1

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Danica Kučerová, PhD.

Názov semestr. predmetu: Bakalárska práca z fyziológie rastlín (3. roč. Bc. štúdia, študijný odbor Biológia, študijný program Fyziológia rastlín)

Počet hodín za semester: 110

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Danica Kučerová, PhD.

Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín 2 (3. roč., študijný odbor Biológia, študijný program Fyziológia rastlín)

Počet hodín za semester: 22

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Eva Labancová, PhD.

Názov semestr. predmetu: : Seminár k bakalárskej práci z fyziológie rastlín 2

Počet hodín za semester: 22

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Eva Labancová, PhD.

Názov semestr. predmetu: Bakalárska práca z fyziológie rastlín

Počet hodín za semester: 110

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Terénne cvičenia:

Individuálne prednášky:

Mgr. Peter Baráth, PhD.

Názov semestr. predmetu: Genomika / Proteomika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Príloha E**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko	Júlia Mičová	10			Anna Blšáková	1
					Ágnes Horváthová	2
					Štefánia Hrončeková	3
					Andrea Smith	365
					Mariana Vlčeková	2
Francúzsko					Soňa Malric	365
Portugalsko					Peter Kis	99
Rakúsko					Jaroslav Katrlík	2
					Barbara Siváková	88
Srbsko					Jaroslav Katrlík	9
					Kristína Kianičková	9
					Lucia Pažitná	9
Veľká Británia					Filip Pančík	30
Počet vyslaní spolu	1	10			13	984

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko	Zdeněk Remeš	5				
Srbsko					Ana Penezić	7
					Danilo Četić	7
					Goran Miljuš	7
Ukrajina					Lidiya Khudolieieva	62
Veľká Británia					Joshua Bradshaw	12

Počet prijatí spolu	1	5			5	95
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(C) Účast' pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	"Jaroslav Koča Memorial Colloquium"	Stanislav Kozmon	2
	XXVI Biochemický Sjezd	Peter Biely	4
		Stanislav Kozmon	4
		Katarína Šuchová	4
		Ján Tkáč	1
Spolu	2	5	15

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

"Jaroslav Koča Memorial Colloquium" - "Jaroslav Koča Memorial Colloquium"
 XXVI Biochemický Sjezd - XXVI Biochemický Sjezd

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Tomáš Bertók, PhD.		PB	Rakovina prostaty	4. ročník Letnej školy Viva La Science pre študentov biologických a biotechnologických disciplín na SPU Nitra	2021
Ing. Tomáš Bertók, PhD.		TL	Talent slovenskej vedy prináša revolučnú novinku: Rakovinu zistia presnejšie a BEZ BOLESTI!	Plus jeden deň https://www1.pluska.sk/rady-a-tipy/talent-slovenskej-vedy-prinasa-revolucnu-novinku-rakovinu-zistia-presnejšie-bez-bolesti	12.7.2021
Ing. Tomáš Bertók, PhD.		IN	Tomáš Bertók, finalista ESET Science Award 2020 v kategórii Výnimočný mladý vedec do 35 rokov	Youtube Tomáš Bertók, finalista ESET Science Award 2020 v kategórii Výnimočný mladý vedec do 35 rokov https://www.youtube.com/watch?v=YXDHYw9h4pM	26.2.2021
Ing. Tomáš Bertók, PhD.		IN	Zamyslenie: Úžasná pestrosť biotechnológií	In Vivo magazín, sekcia Veda. https://invivomagazin.sk/new/zamyslenie-uzasna-pestrost-biotechnologii_884.html	23.6.2021
Ing. Tomáš Bertók, PhD.	Martin Podstupka	TL	Prečo nakúka chemik do medicíny	Akadémia: Správy SAV, 2021, roč. 57, č. 4, s. 20-22. ISSN 0139-6307	2021
Ing. Tomáš Bertók, PhD.	Vladimír Farkaš, Ján Tkáč, Roman Lipka, Michaela Mašánová	IN	Slovenskí vedci: Prístup povolený	Portál Veda na dosah, sekcia Iné, 1.7.2021. https://vedanadosah.cvtsir.sk/wp-content/uploads/2021/06/Vystava_Slovenski_vedci.pdf	1.7.2021
Mgr. Jana Blahutová, PhD.	Stanislav Kozmon	IN	Online Týždeň otvorených dverí na SAV	http://tod.sav.sk	12.4.2021
Ing. Pavol Farkaš, PhD.		IN	Program pre systémové vzdelávanie študentov odštartoval na Expo v Dubaji, SAV bola pri tom	Portal MŠVVaŠ SR. https://www.minedu.sk/program-pre-systemove-vzdelavanie-studentov-odstartoval-na-expo-v-dubaji-sav-bola-pri-tom/	22.12.2021
Ing. Pavol Farkaš, PhD.		IN	Rozvoju kritického myslenia detí pomôže aj zážitkové	Pravda. https://zena.pravda.sk/rodina/clanok/610355-	20.12.2021

			vzdelávanie	rozvoju-kritickeho-myslenia-deti-pomoze-aj-zazitkove-vzdelavanie/	
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	IN	Víťazka Preveda 2021 Lucia Pažitná: Žiaden prístroj nám nedá rovno výsledky	Aktuality SAV. https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=9763	13.7.2021
doc. Ing. Vladimír Farkaš, DrSc.		TL	Spektrum dobrých nápadov a riešení	Duševné vlastníctvo 1, roč. 25, 2021, str.72-73. ISSN 1335-2881	2021
RNDr. Alena Holazová, PhD.	Natália Švecová, Filip Květoň, Lenka Lorencová	PB	"Sladké tajomstvo života"	Cyklus 4 prednášok na Gymnázium Bílíková	2021
Ing. Jaroslav Katrlík, PhD.		IN	Národný ústav reumatických chorôb skúma možnosti tkanivového inžinierstva	https://www.pnky.sk/aktuality/narodny-ustav-reumatickych-chorob-skuma-moznosti-tkanivoveho-v-inzinierstva/	2.3.2021
Ing. Jaroslav Katrlík, PhD.	Gregor Mareš	TV	Biočipy v medicínskom výskume	RTVS, relácia VAT (Veda a technika): Magazín o vede a technológiách s Gregorom Marešom, 10:45 hod. https://www.rtv.sk/telvizia/archiv/14067/266231	3.4.2021
Ing. Jaroslav Katrlík, PhD.	Gregor Mareš	TV	Nanočipy a biosenzory	RTVS, relácia Experiment: Budúcnosť prichádza už dnes. Talk show o vede s Gregorom Marešom, 21:40 hod. https://www.rtv.sk/telvizia/archiv/15377/2654	25.3.2021
Ing. Miroslav Kooš, DrSc.		TL	RNDr. Peter Biely, DrSc. – osemdesiatnikom	Chemické Listy, 2021, roč. 115, č. 7 - Bulletin Asociace českých chemických společností, 2021, roč. 52, č. 3, s. 404-405. ISSN 0009-2770	2021
Ing. Filip Květoň, PhD.		PB	Falling Walls Lab Slovakia 2021	https://falling-walls.com/lab/apply/slovakia-online-lab/	2021
Ing. Filip Květoň, PhD.		IN	Chemický kvíz počas Európskej noci výskumníkov	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=9866	2021
Ing. Filip Květoň, PhD.	Alena Holazová, Natália Švecová, Lenka Lorencová	PB	"Sladké tajomstvo života"	Cyklus 4 prednášok na Gymnázium Bílíková	2021

RNDr. Lenka Lorencová, PhD.	Alena Holazová, Natália Švecová, Filip Květoň	PB	" Sladké tajomstvo života"	Cyklus 4 prednášok na Gymnázium Bilíková	2021
prof. RNDr. Alexander Lux, CSc.		PB	Čo nám prezradí pohľad do vnútra rastlinného organizmu? Čo sú to fytozemediácie a ako ich môžeme využiť?	4. ročník Letnej školy Viva La Science pre študentov biologických a biotechnologických disciplín na SPU Nitra	17.8.2021
prof. RNDr. Alexander Lux, CSc.	Mária Babinská	RO	Atlas zelenej krásy – pupava lekárska 1	RTVS, Rádio Regina Západ, 9:36 hod. https://reginazapad.rtv.s.sk/relacie-a-rubriky/atlas-zelenej-kрасy/260131/atlas-zelenej-kрасy-pupava-lekarska	19.6.2021
Ing. Lucia Pažitná		TL	Sladkí pomocníci	Quark, 2021, roč. XXVII, č. 7, s. 40. ISSN 1335-4000	2021
RNDr. Veronika Pinková Gajdošová		TL	Cukrami k odhaleniu rakoviny	Quark, 2021, roč. XXVII, č. 8, s. 40. ISSN 1335-4000	2021
Mgr. Barbora Stratilová	Stanislav Kozmon, Eva Stratilová	TL	Prestavba rastlinnej bunkovej steny	Quark, október 2021	2021
Ing. Natália Švecová	Filip Květoň, Alena Holazová, Lenka Lorencová	PB	" Sladké tajomstvo života"	Cyklus 4 prednášok na Gymnázium Bilíková	2021
Ing. Ján Tkáč, DrSc.		IN	Diagnostika rakoviny prostaty. Ako na to?	https://www.aktuality.sk/clanok/877355/diagnostika-rakoviny-prostaty-ako-na-to/	28.3.2021
Ing. Ján Tkáč, DrSc.		IN	Osobnosti vedy	https://vedanadosah.cvtsr.sk/wp-content/uploads/2021/06/Vystava_Slovenski_vedci.pdf	1.7.2021
Ing. Ján Tkáč, DrSc.		TL	Veľavravné proteíny	Časopis TÉMA	15.2.2021
Ing. Ján Tkáč, DrSc.	Tomáš Bertók	IN	Excelentná veda- Európska rada pre výskum: Slovensko v programe Horizont 2020	https://eraportal.sk/wp-content/uploads/2021/05/Leaflet_H2020_ER_C.pdf	6.5.2021

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, DO - dokumentárny film